



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

**Ness County (KS27S)**

**Sec. 3-T18S-R25W**

**Sutton 1825 1-3H**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**06 August, 2012**

# **Archer**



# Archer Directional Drilling Services

## Survey Report



<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Sutton 1825 1-3H
<b>Project:</b>	Ness County (KS27S)	<b>TVD Reference:</b>	WELL @ 2380.0usft (Original Well Elev)
<b>Site:</b>	Sec. 3-T18S-R25W	<b>MD Reference:</b>	WELL @ 2380.0usft (Original Well Elev)
<b>Well:</b>	Sutton 1825 1-3H	<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>	Ness 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. 3-T18S-R25W		
<b>Site Position:</b>	<b>Northing:</b>	674,635.30 usft	<b>Latitude:</b> 38° 30' 32.022 N
<b>From:</b> Map	<b>Easting:</b>	1,547,768.50 usft	<b>Longitude:</b> 100° 4' 49.413 W
<b>Position Uncertainty:</b> 0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> -0.97 °

<b>Well</b>	Sutton 1825 1-3H		
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b> 674,635.30 usft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b> 1,547,768.50 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	38° 30' 32.022 N
		<b>Longitude:</b>	100° 4' 49.413 W
		<b>Ground Level:</b>	2,360.0 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	2012/07/11	5.90	66.17	52,465

<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	0.47

<b>Survey Program</b>	<b>Date</b>	2012/08/06		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
224.0	7,576.0	Complete Survey (Wellbore #1)	MWD	MWD - Standard

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
224.0	1.00	0.20	224.0	2.0	0.0	2.0	0.45	0.45	0.00
500.0	1.00	0.20	499.9	6.8	0.0	6.8	0.00	0.00	0.00
750.0	1.00	0.10	749.9	11.1	0.0	11.1	0.00	0.00	-0.04
1,000.0	1.10	0.20	999.9	15.7	0.0	15.7	0.04	0.04	0.04
1,250.0	0.60	0.20	1,249.8	19.4	0.1	19.4	0.20	-0.20	0.00
1,353.0	0.30	0.30	1,352.8	20.2	0.1	20.2	0.29	-0.29	0.10
1,604.0	1.10	262.60	1,603.8	20.6	-2.3	20.6	0.47	0.32	-38.92
2,081.0	1.20	288.70	2,080.7	21.6	-11.6	21.5	0.11	0.02	5.47
2,557.0	1.70	264.70	2,556.6	22.5	-23.3	22.3	0.16	0.11	-5.04





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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)
3,033.0	1.30	256.50	3,032.4	20.6	-35.6	20.3	0.10	-0.08	-1.72
3,351.0	1.00	255.80	3,350.3	19.1	-41.8	18.8	0.09	-0.09	-0.22
3,366.0	1.10	234.40	3,365.3	19.0	-42.1	18.6	2.68	0.67	-142.67
3,398.0	0.80	284.30	3,397.3	18.9	-42.5	18.5	2.64	-0.94	155.94
3,430.0	2.20	342.90	3,429.3	19.5	-42.9	19.2	5.97	4.38	183.13
3,462.0	4.90	356.80	3,461.3	21.5	-43.2	21.1	8.79	8.44	43.44
3,493.0	7.70	1.20	3,492.1	24.9	-43.2	24.5	9.16	9.03	14.19
3,525.0	10.40	3.10	3,523.7	29.9	-43.0	29.5	8.49	8.44	5.94
3,557.0	13.00	5.70	3,555.0	36.4	-42.5	36.0	8.29	8.13	8.13
3,589.0	15.30	6.50	3,586.0	44.1	-41.7	43.8	7.21	7.19	2.50
3,620.0	17.10	6.60	3,615.8	52.7	-40.7	52.4	5.81	5.81	0.32
3,652.0	18.80	6.20	3,646.2	62.5	-39.6	62.2	5.33	5.31	-1.25
3,684.0	20.70	5.10	3,676.4	73.3	-38.5	73.0	6.05	5.94	-3.44
3,716.0	22.20	4.40	3,706.1	84.9	-37.6	84.6	4.76	4.69	-2.19
3,748.0	23.60	4.80	3,735.6	97.4	-36.6	97.0	4.40	4.38	1.25
3,779.0	25.00	4.30	3,763.9	110.1	-35.5	109.8	4.56	4.52	-1.61
3,811.0	26.70	4.10	3,792.7	124.0	-34.5	123.7	5.32	5.31	-0.63
3,843.0	28.30	3.60	3,821.1	138.7	-33.5	138.4	5.05	5.00	-1.56
3,875.0	30.10	3.60	3,849.0	154.3	-32.6	154.0	5.63	5.63	0.00
3,907.0	32.00	3.60	3,876.4	170.8	-31.5	170.5	5.94	5.94	0.00
3,938.0	33.90	3.70	3,902.4	187.6	-30.4	187.3	6.13	6.13	0.32
3,970.0	36.30	4.30	3,928.6	206.0	-29.2	205.7	7.58	7.50	1.88
4,002.0	38.40	5.10	3,954.0	225.3	-27.6	225.1	6.74	6.56	2.50
4,034.0	40.10	5.80	3,978.8	245.5	-25.6	245.2	5.49	5.31	2.19
4,066.0	42.80	5.90	4,002.8	266.5	-23.5	266.3	8.44	8.44	0.31
4,097.0	45.30	5.30	4,025.1	288.0	-21.4	287.8	8.18	8.06	-1.94
4,130.0	47.30	4.80	4,047.9	311.7	-19.3	311.6	6.16	6.06	-1.52
4,161.0	49.10	4.10	4,068.5	334.8	-17.5	334.6	6.05	5.81	-2.26
4,193.0	50.50	3.80	4,089.2	359.2	-15.8	359.0	4.43	4.38	-0.94
4,225.0	50.90	4.00	4,109.5	383.9	-14.1	383.7	1.34	1.25	0.63
4,257.0	50.50	4.40	4,129.7	408.6	-12.3	408.5	1.58	-1.25	1.25
4,288.0	50.30	4.60	4,149.5	432.4	-10.4	432.3	0.81	-0.65	0.65
4,320.0	50.00	4.90	4,170.0	456.9	-8.4	456.8	1.18	-0.94	0.94
4,352.0	50.00	5.30	4,190.6	481.3	-6.2	481.2	0.96	0.00	1.25
4,384.0	52.20	4.20	4,210.6	506.1	-4.2	506.0	7.38	6.88	-3.44
4,415.0	54.90	4.00	4,229.1	531.0	-2.4	530.9	8.73	8.71	-0.65
4,447.0	58.20	3.10	4,246.7	557.6	-0.7	557.6	10.58	10.31	-2.81
4,479.0	61.80	2.70	4,262.7	585.3	0.7	585.3	11.30	11.25	-1.25
4,511.0	63.80	2.70	4,277.3	613.7	2.0	613.7	6.25	6.25	0.00
4,543.0	66.30	2.90	4,290.8	642.7	3.4	642.7	7.83	7.81	0.63
4,574.0	69.40	2.90	4,302.5	671.4	4.9	671.4	10.00	10.00	0.00
4,606.0	72.70	2.70	4,312.9	701.6	6.4	701.6	10.33	10.31	-0.63
4,638.0	76.20	2.60	4,321.5	732.4	7.8	732.4	10.94	10.94	-0.31
4,670.0	80.10	2.30	4,328.0	763.7	9.1	763.7	12.22	12.19	-0.94



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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

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)
4,701.0	83.40	1.40	4,332.5	794.3	10.1	794.4	11.03	10.65	-2.90
4,733.0	85.50	1.30	4,335.6	826.2	10.9	826.2	6.57	6.56	-0.31
4,810.0	91.20	0.30	4,337.8	903.1	11.9	903.2	7.52	7.40	-1.30
4,842.0	91.50	0.30	4,337.1	935.1	12.1	935.1	0.94	0.94	0.00
4,873.0	91.80	0.10	4,336.2	966.1	12.2	966.1	1.16	0.97	-0.65
4,905.0	92.20	0.30	4,335.0	998.0	12.3	998.1	1.40	1.25	0.63
4,937.0	92.40	0.30	4,333.8	1,030.0	12.5	1,030.1	0.63	0.63	0.00
4,969.0	92.70	0.40	4,332.3	1,062.0	12.7	1,062.1	0.99	0.94	0.31
5,001.0	93.10	0.40	4,330.7	1,093.9	12.9	1,094.0	1.25	1.25	0.00
5,033.0	93.90	0.00	4,328.8	1,125.9	13.0	1,125.9	2.79	2.50	-1.25
5,065.0	94.50	0.20	4,326.4	1,157.8	13.1	1,157.9	1.98	1.88	0.63
5,097.0	94.80	0.80	4,323.8	1,189.7	13.3	1,189.8	2.09	0.94	1.88
5,129.0	95.30	1.00	4,321.0	1,221.6	13.8	1,221.6	1.68	1.56	0.63
5,160.0	95.20	0.80	4,318.2	1,252.4	14.3	1,252.5	0.72	-0.32	-0.65
5,192.0	94.70	0.00	4,315.4	1,284.3	14.6	1,284.4	2.94	-1.56	-2.50
5,224.0	93.50	0.30	4,313.1	1,316.2	14.6	1,316.3	3.86	-3.75	0.94
5,256.0	93.30	0.70	4,311.2	1,348.2	14.9	1,348.2	1.40	-0.63	1.25
5,288.0	93.80	0.00	4,309.2	1,380.1	15.1	1,380.2	2.68	1.56	-2.19
5,319.0	93.10	359.50	4,307.4	1,411.0	15.0	1,411.1	2.77	-2.26	-1.61
5,350.0	92.30	359.90	4,305.9	1,442.0	14.8	1,442.1	2.88	-2.58	1.29
5,380.0	92.10	0.20	4,304.8	1,472.0	14.8	1,472.1	1.20	-0.67	1.00
5,411.0	92.60	0.90	4,303.5	1,503.0	15.1	1,503.0	2.77	1.61	2.26
5,442.0	91.60	0.50	4,302.4	1,533.9	15.5	1,534.0	3.47	-3.23	-1.29
5,473.0	89.60	0.40	4,302.0	1,564.9	15.8	1,565.0	6.46	-6.45	-0.32
5,503.0	87.40	359.60	4,302.8	1,594.9	15.8	1,595.0	7.80	-7.33	-2.67
5,534.0	85.90	359.00	4,304.6	1,625.9	15.4	1,625.9	5.21	-4.84	-1.94
5,565.0	86.20	359.20	4,306.8	1,656.8	14.9	1,656.9	1.16	0.97	0.65
5,596.0	86.70	359.30	4,308.7	1,687.7	14.5	1,687.8	1.64	1.61	0.32
5,627.0	87.30	359.60	4,310.3	1,718.7	14.2	1,718.7	2.16	1.94	0.97
5,657.0	88.10	359.90	4,311.5	1,748.7	14.1	1,748.7	2.85	2.67	1.00
5,688.0	88.70	359.70	4,312.4	1,779.6	14.0	1,779.7	2.04	1.94	-0.65
5,719.0	88.70	359.90	4,313.1	1,810.6	13.8	1,810.7	0.64	0.00	0.65
5,750.0	89.10	359.50	4,313.7	1,841.6	13.7	1,841.7	1.82	1.29	-1.29
5,780.0	89.50	359.20	4,314.0	1,871.6	13.3	1,871.7	1.67	1.33	-1.00
5,811.0	90.20	359.30	4,314.1	1,902.6	12.9	1,902.7	2.28	2.26	0.32
5,842.0	90.10	359.20	4,314.0	1,933.6	12.5	1,933.7	0.46	-0.32	-0.32
5,873.0	90.60	359.60	4,313.9	1,964.6	12.2	1,964.7	2.07	1.61	1.29
5,904.0	91.10	359.40	4,313.4	1,995.6	11.9	1,995.6	1.74	1.61	-0.65
5,934.0	91.50	359.60	4,312.7	2,025.6	11.7	2,025.6	1.49	1.33	0.67
5,965.0	91.90	359.70	4,311.8	2,056.6	11.5	2,056.6	1.33	1.29	0.32
5,996.0	92.20	359.50	4,310.7	2,087.6	11.3	2,087.6	1.16	0.97	-0.65
6,027.0	92.00	359.70	4,309.5	2,118.5	11.1	2,118.6	0.91	-0.65	0.65
6,057.0	91.00	359.30	4,308.8	2,148.5	10.8	2,148.6	3.59	-3.33	-1.33





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6,088.0	91.20	359.30	4,308.2	2,179.5	10.4	2,179.5	0.65	0.65	0.00
6,119.0	91.10	359.20	4,307.5	2,210.5	10.0	2,210.5	0.46	-0.32	-0.32
6,150.0	89.70	359.70	4,307.3	2,241.5	9.7	2,241.5	4.80	-4.52	1.61
6,180.0	88.80	0.00	4,307.7	2,271.5	9.6	2,271.5	3.16	-3.00	1.00
6,211.0	88.10	359.90	4,308.6	2,302.5	9.6	2,302.5	2.28	-2.26	-0.32
6,242.0	87.60	1.10	4,309.7	2,333.5	9.9	2,333.5	4.19	-1.61	3.87
6,273.0	87.30	1.00	4,311.1	2,364.4	10.4	2,364.4	1.02	-0.97	-0.32
6,303.0	87.50	0.50	4,312.5	2,394.4	10.8	2,394.4	1.79	0.67	-1.67
6,334.0	88.40	0.20	4,313.6	2,425.4	11.0	2,425.4	3.06	2.90	-0.97
6,365.0	88.80	359.80	4,314.3	2,456.4	11.0	2,456.4	1.82	1.29	-1.29
6,396.0	89.50	0.40	4,314.8	2,487.4	11.1	2,487.4	2.97	2.26	1.94
6,427.0	90.70	0.50	4,314.7	2,518.4	11.3	2,518.4	3.88	3.87	0.32
6,457.0	89.80	1.60	4,314.6	2,548.4	11.9	2,548.4	4.74	-3.00	3.67
6,488.0	89.30	1.90	4,314.8	2,579.3	12.8	2,579.4	1.88	-1.61	0.97
6,519.0	89.80	2.30	4,315.1	2,610.3	14.0	2,610.4	2.07	1.61	1.29
6,550.0	89.90	3.40	4,315.2	2,641.3	15.5	2,641.3	3.56	0.32	3.55
6,581.0	89.80	3.90	4,315.3	2,672.2	17.5	2,672.3	1.64	-0.32	1.61
6,611.0	90.00	4.20	4,315.3	2,702.2	19.6	2,702.2	1.20	0.67	1.00
6,642.0	89.40	3.40	4,315.5	2,733.1	21.6	2,733.2	3.23	-1.94	-2.58
6,673.0	88.30	3.20	4,316.1	2,764.0	23.4	2,764.1	3.61	-3.55	-0.65
6,705.0	89.00	3.10	4,316.8	2,796.0	25.2	2,796.1	2.21	2.19	-0.31
6,737.0	89.60	3.00	4,317.2	2,827.9	26.9	2,828.0	1.90	1.88	-0.31
6,769.0	89.40	2.50	4,317.5	2,859.9	28.4	2,860.0	1.68	-0.63	-1.56
6,801.0	89.10	1.10	4,317.9	2,891.9	29.4	2,892.0	4.47	-0.94	-4.38
6,833.0	89.80	0.60	4,318.2	2,923.9	29.9	2,924.0	2.69	2.19	-1.56
6,864.0	90.80	1.20	4,318.1	2,954.9	30.4	2,955.0	3.76	3.23	1.94
6,896.0	89.50	0.70	4,318.0	2,986.8	30.9	2,987.0	4.35	-4.06	-1.56
6,928.0	89.30	359.50	4,318.3	3,018.8	31.0	3,019.0	3.80	-0.63	-3.75
6,960.0	89.10	358.30	4,318.8	3,050.8	30.4	3,051.0	3.80	-0.63	-3.75
6,992.0	88.70	358.00	4,319.4	3,082.8	29.3	3,082.9	1.56	-1.25	-0.94
7,024.0	90.10	357.70	4,319.7	3,114.8	28.1	3,114.9	4.47	4.38	-0.94
7,056.0	91.10	357.90	4,319.4	3,146.8	26.9	3,146.9	3.19	3.13	0.63
7,088.0	91.50	358.30	4,318.7	3,178.7	25.8	3,178.8	1.77	1.25	1.25
7,120.0	91.70	358.20	4,317.8	3,210.7	24.9	3,210.8	0.70	0.63	-0.31
7,152.0	92.10	357.20	4,316.7	3,242.7	23.6	3,242.7	3.36	1.25	-3.13
7,184.0	93.40	358.60	4,315.2	3,274.6	22.4	3,274.7	5.97	4.06	4.38
7,215.0	93.40	357.90	4,313.3	3,305.5	21.5	3,305.6	2.25	0.00	-2.26
7,247.0	93.50	357.90	4,311.4	3,337.5	20.3	3,337.5	0.31	0.31	0.00
7,279.0	94.70	357.80	4,309.1	3,369.3	19.1	3,369.4	3.76	3.75	-0.31
7,311.0	95.60	358.30	4,306.3	3,401.2	18.0	3,401.2	3.21	2.81	1.56
7,343.0	96.00	358.20	4,303.0	3,433.0	17.0	3,433.0	1.29	1.25	-0.31
7,375.0	96.30	358.30	4,299.6	3,464.8	16.1	3,464.8	0.99	0.94	0.31
7,407.0	96.40	358.20	4,296.0	3,496.6	15.1	3,496.6	0.44	0.31	-0.31



Archer Directional Drilling Services

Survey Report



<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Sutton 1825 1-3H
<b>Project:</b>	Ness County (KS27S)	<b>TVD Reference:</b>	WELL @ 2380.0usft (Original Well Elev)
<b>Site:</b>	Sec. 3-T18S-R25W	<b>MD Reference:</b>	WELL @ 2380.0usft (Original Well Elev)
<b>Well:</b>	Sutton 1825 1-3H	<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)	
7,438.0	96.50	358.50	4,292.6	3,527.4	14.2	3,527.4	1.01	0.32	0.97	
7,470.0	96.60	359.00	4,288.9	3,559.2	13.5	3,559.2	1.58	0.31	1.56	
7,516.0	97.30	359.00	4,283.4	3,604.8	12.7	3,604.8	1.52	1.52	0.00	
<b>Last MWD Survey</b>										
7,576.0	97.30	359.00	4,275.7	3,664.3	11.7	3,664.3	0.00	0.00	0.00	
<b>Projection to TD - Sutton 1825 1-3H PBHL</b>										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,516.0	4,283.4	3,604.8	12.7	Last MWD Survey	
7,576.0	4,275.7	3,664.3	11.7	Projection to TD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_