

Sandridge Energy, INC.(mid-con.)

Ford County (KS27S)

Sec 36-T29S-R25W

LuAnn 2925 2-36H/ Job # 04172-431-22/ Lariat 3

Wellbore #1

Design: Wellbore #1

Standard Survey Report

15 April, 2013

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well LuAnn 2925 2-36H/ Job # 04172-431-22/ Lariat 3
Project: Ford County (KS27S)	TVD Reference: WELL @ 2607.0usft (Original Well Elev)
Site: Sec 36-T29S-R25W	MD Reference: WELL @ 2607.0usft (Original Well Elev)
Well: LuAnn 2925 2-36H/ Job # 04172-431-22/ Lariat 3	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

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

Site Sec 36-T29S-R25W					
Site Position:	Northing:	297,216.00 usft	Latitude:	37° 28' 23.229 N	
From: Map	Easting:	1,560,155.00 usft	Longitude:	100° 0' 56.428 W	
Position Uncertainty: 0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.93 °	

Well LuAnn 2925 2-36H/ Job # 04172-431-22/ Lariat 3						
Well Position	+N/-S	0.0 usft	Northing:	302,306.13 usft	Latitude:	37° 29' 13.672 N
	+E/-W	0.0 usft	Easting:	1,560,920.02 usft	Longitude:	100° 0' 47.964 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,587.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/03/27	5.74	65.30	51,833

Design Wellbore #1					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	181.17	

Survey Program Date 2013/04/15					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,457.0	8,422.0	Archer MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,457.0	1.70	183.10	1,456.8	-21.6	-1.2	21.6	0.12	0.12	0.00	
First Archer MWD Survey										
1,928.0	1.60	177.80	1,927.6	-35.1	-1.3	35.1	0.04	-0.02	-1.13	
2,395.0	1.70	180.90	2,394.4	-48.6	-1.2	48.6	0.03	0.02	0.66	
2,950.0	0.40	101.10	2,949.3	-57.2	0.6	57.2	0.30	-0.23	-14.38	
3,418.0	0.10	55.50	3,417.3	-57.3	2.6	57.2	0.07	-0.06	-9.74	
3,883.0	0.70	152.20	3,882.3	-59.5	4.2	59.4	0.15	0.13	20.80	
4,354.0	0.80	118.20	4,353.3	-63.6	8.5	63.5	0.10	0.02	-7.22	

Archer

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)	
4,603.0	0.70	148.80	4,602.2	-65.8	10.8	65.5	0.16	-0.04	12.29	
4,633.0	0.70	147.10	4,632.2	-66.1	11.0	65.8	0.07	0.00	-5.67	
4,664.0	0.70	173.40	4,663.2	-66.4	11.1	66.2	1.03	0.00	84.84	
4,695.0	2.50	168.10	4,694.2	-67.3	11.3	67.0	5.82	5.81	-17.10	
4,727.0	5.70	165.80	4,726.1	-69.5	11.8	69.2	10.01	10.00	-7.19	
4,758.0	8.70	170.10	4,756.9	-73.3	12.6	73.0	9.83	9.68	13.87	
4,789.0	11.70	171.30	4,787.4	-78.7	13.5	78.4	9.70	9.68	3.87	
4,820.0	14.70	171.50	4,817.6	-85.7	14.5	85.4	9.68	9.68	0.65	
4,851.0	18.10	173.60	4,847.3	-94.4	15.6	94.1	11.13	10.97	6.77	
4,882.0	21.20	175.20	4,876.5	-104.8	16.6	104.4	10.15	10.00	5.16	
4,912.0	24.00	177.00	4,904.2	-116.3	17.4	115.9	9.61	9.33	6.00	
4,944.0	27.30	179.30	4,933.0	-130.1	17.8	129.7	10.77	10.31	7.19	
4,976.0	30.90	180.20	4,961.0	-145.7	17.9	145.3	11.33	11.25	2.81	
5,008.0	34.20	180.50	4,988.0	-162.9	17.8	162.5	10.32	10.31	0.94	
5,039.0	37.50	180.80	5,013.1	-181.0	17.6	180.6	10.66	10.65	0.97	
5,070.0	40.70	181.70	5,037.1	-200.6	17.2	200.2	10.48	10.32	2.90	
5,102.0	43.70	182.40	5,060.8	-222.1	16.4	221.7	9.49	9.38	2.19	
5,134.0	47.20	183.30	5,083.3	-244.8	15.2	244.5	11.12	10.94	2.81	
5,165.0	50.10	183.20	5,103.8	-268.1	13.9	267.7	9.36	9.35	-0.32	
5,197.0	50.80	182.30	5,124.1	-292.7	12.7	292.4	3.08	2.19	-2.81	
5,228.0	50.50	181.70	5,143.8	-316.7	11.9	316.3	1.78	-0.97	-1.94	
5,259.0	50.00	181.70	5,163.6	-340.5	11.2	340.2	1.61	-1.61	0.00	
5,289.0	51.20	182.40	5,182.7	-363.6	10.4	363.4	4.39	4.00	2.33	
5,320.0	54.10	183.90	5,201.5	-388.3	9.0	388.0	10.11	9.35	4.84	
5,352.0	58.10	184.60	5,219.3	-414.7	7.0	414.5	12.63	12.50	2.19	
5,383.0	61.80	184.60	5,234.8	-441.5	4.9	441.3	11.94	11.94	0.00	
5,417.0	66.20	183.30	5,249.7	-472.0	2.8	471.8	13.39	12.94	-3.82	
5,444.0	69.10	181.80	5,260.0	-496.9	1.7	496.8	11.91	10.74	-5.56	
5,475.0	71.50	181.30	5,270.4	-526.1	0.9	525.9	7.89	7.74	-1.61	
5,507.0	74.30	181.50	5,279.9	-556.6	0.1	556.5	8.77	8.75	0.63	
5,539.0	77.10	181.10	5,287.8	-587.6	-0.6	587.5	8.83	8.75	-1.25	
5,570.0	79.20	181.60	5,294.1	-618.0	-1.3	617.9	6.96	6.77	1.61	
5,602.0	81.10	181.80	5,299.6	-649.5	-2.2	649.4	5.97	5.94	0.63	
5,633.0	84.00	181.80	5,303.6	-680.2	-3.2	680.1	9.35	9.35	0.00	
5,666.0	86.90	181.80	5,306.2	-713.1	-4.2	713.0	8.79	8.79	0.00	
5,696.0	89.50	182.10	5,307.2	-743.0	-5.2	743.0	8.72	8.67	1.00	
5,726.0	90.70	181.70	5,307.1	-773.0	-6.2	773.0	4.22	4.00	-1.33	
5,757.0	91.20	181.60	5,306.6	-804.0	-7.1	804.0	1.64	1.61	-0.32	
5,787.0	91.80	181.40	5,305.8	-834.0	-7.9	834.0	2.11	2.00	-0.67	
5,819.0	92.70	180.60	5,304.6	-866.0	-8.5	866.0	3.76	2.81	-2.50	
5,849.0	91.50	180.90	5,303.5	-895.9	-8.9	895.9	4.12	-4.00	1.00	
5,879.0	91.10	181.00	5,302.8	-925.9	-9.4	925.9	1.37	-1.33	0.33	

Archer

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Survey										
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5,910.0	91.60	181.40	5,302.1	-956.9	-10.0	956.9	2.07	1.61	1.29	
5,942.0	90.60	181.30	5,301.4	-988.9	-10.8	988.9	3.14	-3.13	-0.31	
5,972.0	90.50	181.30	5,301.2	-1,018.9	-11.4	1,018.9	0.33	-0.33	0.00	
6,003.0	89.80	181.40	5,301.1	-1,049.9	-12.2	1,049.9	2.28	-2.26	0.32	
6,034.0	88.90	181.70	5,301.4	-1,080.9	-13.0	1,080.9	3.06	-2.90	0.97	
6,064.0	89.00	181.60	5,302.0	-1,110.8	-13.9	1,110.9	0.47	0.33	-0.33	
6,125.0	90.20	181.10	5,302.4	-1,171.8	-15.3	1,171.9	2.13	1.97	-0.82	
6,156.0	89.20	181.40	5,302.6	-1,202.8	-16.0	1,202.9	3.37	-3.23	0.97	
6,186.0	87.60	181.20	5,303.4	-1,232.8	-16.7	1,232.9	5.37	-5.33	-0.67	
6,216.0	87.50	181.20	5,304.7	-1,262.8	-17.3	1,262.9	0.33	-0.33	0.00	
6,247.0	87.90	181.40	5,305.9	-1,293.7	-18.0	1,293.8	1.44	1.29	0.65	
6,277.0	88.80	181.30	5,306.8	-1,323.7	-18.7	1,323.8	3.02	3.00	-0.33	
6,308.0	89.30	181.50	5,307.3	-1,354.7	-19.5	1,354.8	1.74	1.61	0.65	
6,338.0	90.00	180.90	5,307.5	-1,384.7	-20.1	1,384.8	3.07	2.33	-2.00	
6,368.0	90.50	180.90	5,307.4	-1,414.7	-20.6	1,414.8	1.67	1.67	0.00	
6,399.0	89.10	181.00	5,307.5	-1,445.7	-21.1	1,445.8	4.53	-4.52	0.32	
6,429.0	88.50	180.90	5,308.1	-1,475.7	-21.6	1,475.8	2.03	-2.00	-0.33	
6,460.0	88.70	180.60	5,308.9	-1,506.7	-22.0	1,506.8	1.16	0.65	-0.97	
6,490.0	89.20	181.00	5,309.4	-1,536.6	-22.4	1,536.8	2.13	1.67	1.33	
6,521.0	88.30	180.90	5,310.1	-1,567.6	-22.9	1,567.8	2.92	-2.90	-0.32	
6,552.0	88.40	181.00	5,311.0	-1,598.6	-23.4	1,598.8	0.46	0.32	0.32	
6,582.0	88.80	180.80	5,311.7	-1,628.6	-23.9	1,628.8	1.49	1.33	-0.67	
6,613.0	89.50	180.80	5,312.2	-1,659.6	-24.3	1,659.7	2.26	2.26	0.00	
6,643.0	90.10	181.00	5,312.3	-1,689.6	-24.8	1,689.7	2.11	2.00	0.67	
6,674.0	90.70	180.60	5,312.1	-1,720.6	-25.2	1,720.7	2.33	1.94	-1.29	
6,704.0	91.40	180.40	5,311.5	-1,750.6	-25.5	1,750.7	2.43	2.33	-0.67	
6,735.0	92.00	180.70	5,310.6	-1,781.6	-25.8	1,781.7	2.16	1.94	0.97	
6,765.0	92.30	181.20	5,309.5	-1,811.5	-26.3	1,811.7	1.94	1.00	1.67	
6,796.0	92.50	181.20	5,308.2	-1,842.5	-26.9	1,842.7	0.65	0.65	0.00	
6,826.0	91.50	181.70	5,307.1	-1,872.5	-27.7	1,872.7	3.73	-3.33	1.67	
6,856.0	91.40	181.70	5,306.4	-1,902.5	-28.6	1,902.6	0.33	-0.33	0.00	
6,888.0	91.60	181.80	5,305.5	-1,934.4	-29.6	1,934.6	0.70	0.63	0.31	
6,918.0	90.70	181.70	5,304.9	-1,964.4	-30.5	1,964.6	3.02	-3.00	-0.33	
6,949.0	89.20	181.80	5,304.9	-1,995.4	-31.4	1,995.6	4.85	-4.84	0.32	
6,979.0	88.70	182.00	5,305.5	-2,025.4	-32.4	2,025.6	1.80	-1.67	0.67	
7,010.0	89.10	181.70	5,306.1	-2,056.4	-33.4	2,056.6	1.61	1.29	-0.97	
7,041.0	89.10	181.70	5,306.6	-2,087.3	-34.3	2,087.6	0.00	0.00	0.00	
7,071.0	89.00	180.90	5,307.1	-2,117.3	-35.0	2,117.6	2.69	-0.33	-2.67	
7,101.0	89.00	180.50	5,307.6	-2,147.3	-35.4	2,147.6	1.33	0.00	-1.33	
7,132.0	88.20	180.80	5,308.3	-2,178.3	-35.7	2,178.6	2.76	-2.58	0.97	
7,165.0	86.30	180.50	5,309.9	-2,211.3	-36.1	2,211.5	5.83	-5.76	-0.91	
7,193.0	85.60	180.90	5,311.9	-2,239.2	-36.4	2,239.5	2.88	-2.50	1.43	
7,214.0	85.90	180.50	5,313.5	-2,260.1	-36.7	2,260.4	2.38	1.43	-1.90	

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Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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7,245.0	86.10	180.30	5,315.6	-2,291.1	-36.9	2,291.3	0.91	0.65	-0.65	
7,275.0	86.50	179.90	5,317.6	-2,321.0	-37.0	2,321.3	1.88	1.33	-1.33	
7,306.0	86.90	180.00	5,319.3	-2,351.9	-36.9	2,352.2	1.33	1.29	0.32	
7,336.0	87.30	179.80	5,320.9	-2,381.9	-36.9	2,382.2	1.49	1.33	-0.67	
7,366.0	87.70	180.10	5,322.2	-2,411.9	-36.9	2,412.1	1.67	1.33	1.00	
7,396.0	86.80	180.80	5,323.6	-2,441.8	-37.1	2,442.1	3.80	-3.00	2.33	
7,427.0	86.70	181.40	5,325.4	-2,472.8	-37.7	2,473.0	1.96	-0.32	1.94	
7,457.0	87.20	181.20	5,327.0	-2,502.7	-38.4	2,503.0	1.79	1.67	-0.67	
7,488.0	87.60	181.30	5,328.4	-2,533.7	-39.1	2,534.0	1.33	1.29	0.32	
7,520.0	86.80	181.90	5,329.9	-2,565.6	-39.9	2,565.9	3.12	-2.50	1.88	
7,550.0	86.90	182.20	5,331.6	-2,595.6	-41.0	2,595.9	1.05	0.33	1.00	
7,581.0	87.60	182.20	5,333.1	-2,626.5	-42.2	2,626.8	2.26	2.26	0.00	
7,611.0	88.60	181.70	5,334.1	-2,656.5	-43.2	2,656.8	3.73	3.33	-1.67	
7,641.0	89.20	181.30	5,334.6	-2,686.5	-44.0	2,686.8	2.40	2.00	-1.33	
7,672.0	89.70	181.80	5,334.9	-2,717.5	-44.8	2,717.8	2.28	1.61	1.61	
7,702.0	90.20	181.80	5,335.0	-2,747.4	-45.8	2,747.8	1.67	1.67	0.00	
7,733.0	90.70	181.80	5,334.7	-2,778.4	-46.8	2,778.8	1.61	1.61	0.00	
7,763.0	90.60	181.70	5,334.4	-2,808.4	-47.7	2,808.8	0.47	-0.33	-0.33	
7,794.0	90.90	181.10	5,334.0	-2,839.4	-48.4	2,839.8	2.16	0.97	-1.94	
7,825.0	91.30	181.00	5,333.4	-2,870.4	-49.0	2,870.8	1.33	1.29	-0.32	
7,856.0	90.10	181.10	5,333.0	-2,901.4	-49.6	2,901.8	3.88	-3.87	0.32	
7,887.0	89.90	181.40	5,333.0	-2,932.4	-50.3	2,932.8	1.16	-0.65	0.97	
7,918.0	90.30	181.20	5,333.0	-2,963.4	-51.0	2,963.8	1.44	1.29	-0.65	
7,950.0	90.80	181.00	5,332.6	-2,995.4	-51.6	2,995.8	1.68	1.56	-0.63	
7,980.0	89.90	181.10	5,332.5	-3,025.3	-52.1	3,025.8	3.02	-3.00	0.33	
8,011.0	89.80	181.40	5,332.5	-3,056.3	-52.8	3,056.8	1.02	-0.32	0.97	
8,041.0	90.10	181.80	5,332.6	-3,086.3	-53.6	3,086.8	1.67	1.00	1.33	
8,074.0	90.50	181.80	5,332.4	-3,119.3	-54.7	3,119.8	1.21	1.21	0.00	
8,105.0	91.00	182.10	5,332.0	-3,150.3	-55.7	3,150.8	1.88	1.61	0.97	
8,135.0	90.20	182.40	5,331.7	-3,180.3	-56.9	3,180.8	2.85	-2.67	1.00	
8,167.0	90.20	182.40	5,331.6	-3,212.2	-58.2	3,212.8	0.00	0.00	0.00	
8,198.0	89.10	182.40	5,331.8	-3,243.2	-59.5	3,243.7	3.55	-3.55	0.00	
8,229.0	89.20	182.40	5,332.2	-3,274.2	-60.8	3,274.7	0.32	0.32	0.00	
8,260.0	89.50	181.80	5,332.6	-3,305.2	-62.0	3,305.7	2.16	0.97	-1.94	
8,292.0	89.90	181.80	5,332.7	-3,337.1	-63.0	3,337.7	1.25	1.25	0.00	
8,323.0	90.30	181.80	5,332.7	-3,368.1	-64.0	3,368.7	1.29	1.29	0.00	
8,354.0	90.70	181.20	5,332.4	-3,399.1	-64.8	3,399.7	2.33	1.29	-1.94	
8,375.0	90.90	181.20	5,332.1	-3,420.1	-65.2	3,420.7	0.95	0.95	0.00	
Last Archer MWD Survey										
8,422.0	90.90	181.20	5,331.4	-3,467.1	-66.2	3,467.7	0.00	0.00	0.00	
Projection to TD - PBHL LuAnn 2-36H										

Archer Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well LuAnn 2925 2-36H/ Job # 04172-431-22/ Lariat 3
Project:	Ford County (KS27S)	TVD Reference:	WELL @ 2607.0usft (Original Well Elev)
Site:	Sec 36-T29S-R25W	MD Reference:	WELL @ 2607.0usft (Original Well Elev)
Well:	LuAnn 2925 2-36H/ Job # 04172-431-22/ Lariat 3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,457.0	1,456.8	-21.6	-1.2	First Archer MWD Survey
8,375.0	5,332.1	-3,420.1	-65.2	Last Archer MWD Survey
8,422.0	5,331.4	-3,467.1	-66.2	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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