

Sandridge Energy, INC.(mid-con.)

Gray County, KS (NAD27)

Sec 19-T26S-R29W

Bleumer 2629 3-19H/ Lariat 20

Wellbore #1

Design: Wellbore #1

Standard Survey Report

23 January, 2013

Archer

Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Bleumer 2629 3-19H/ Lariat 20
Project: Gray County, KS (NAD27)	TVD Reference: WELL @ 2752.0usft (Original Well Elev)
Site: Sec 19-T26S-R29W	MD Reference: WELL @ 2752.0usft (Original Well Elev)
Well: Bleumer 2629 3-19H/ Lariat 20	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project Gray County, KS (NAD27)		
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 19-T26S-R29W			
Site Position:	Northing: 406,781.00 usft	Latitude:	37° 45' 57.933 N
From: Map	Easting: 1,409,697.00 usft	Longitude:	100° 32' 32.159 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence:	-1.26 °

Well Bleumer 2629 3-19H/ Lariat 20					
Well Position	+N/-S 0.0 usft	Northing: 411,823.66 usft	Latitude:	37° 46' 48.309 N	
	+E/-W 0.0 usft	Easting: 1,412,156.76 usft	Longitude:	100° 32' 2.903 W	
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level:	2,734.0 usft	

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/12/27	6.09	65.49	51,980

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	185.65	

Survey Program		Date 2013/01/23		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,608.0	9,400.0	Archer MWD Surveys (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	
1,608.0	0.10	244.60	1,608.0	-0.6	-1.3	0.7	0.01	0.01	0.00	
First Archer MWD Survey										
1,799.0	0.30	82.30	1,799.0	-0.6	-0.9	0.7	0.21	0.10	-84.97	
1,989.0	0.10	169.80	1,989.0	-0.7	-0.4	0.7	0.16	-0.11	46.05	
2,179.0	0.70	119.10	2,179.0	-1.4	0.6	1.4	0.34	0.32	-26.68	
2,368.0	1.00	137.70	2,368.0	-3.2	2.8	2.9	0.21	0.16	9.84	
2,558.0	0.90	145.20	2,557.9	-5.7	4.7	5.2	0.08	-0.05	3.95	
2,748.0	0.70	152.50	2,747.9	-7.9	6.1	7.3	0.12	-0.11	3.84	
2,938.0	0.40	152.00	2,937.9	-9.5	7.0	8.8	0.16	-0.16	-0.26	
3,128.0	0.60	153.00	3,127.9	-11.0	7.7	10.2	0.11	0.11	0.53	

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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)	
3,318.0	0.60	169.90	3,317.9	-12.9	8.4	12.0	0.09	0.00	8.89	
3,508.0	0.50	190.20	3,507.9	-14.7	8.4	13.8	0.11	-0.05	10.68	
3,698.0	0.60	176.90	3,697.9	-16.5	8.3	15.6	0.09	0.05	-7.00	
3,888.0	0.40	141.50	3,887.9	-18.0	8.8	17.0	0.19	-0.11	-18.63	
3,983.0	0.40	128.00	3,982.9	-18.5	9.2	17.5	0.10	0.00	-14.21	
4,046.0	0.30	133.40	4,045.9	-18.7	9.5	17.7	0.17	-0.16	8.57	
4,078.0	1.00	194.30	4,077.9	-19.0	9.5	18.0	2.79	2.19	190.31	
4,110.0	3.20	216.60	4,109.8	-20.0	8.9	19.0	7.21	6.88	69.69	
4,141.0	5.90	209.30	4,140.7	-22.1	7.6	21.2	8.89	8.71	-23.55	
4,173.0	8.70	205.40	4,172.5	-25.7	5.8	25.0	8.88	8.75	-12.19	
4,205.0	12.20	206.90	4,203.9	-30.9	3.2	30.5	10.97	10.94	4.69	
4,236.0	14.50	207.60	4,234.1	-37.3	-0.1	37.1	7.44	7.42	2.26	
4,268.0	17.40	211.30	4,264.9	-44.9	-4.4	45.1	9.60	9.06	11.56	
4,300.0	19.10	213.00	4,295.3	-53.4	-9.8	54.1	5.57	5.31	5.31	
4,331.0	21.00	215.50	4,324.4	-62.2	-15.8	63.4	6.72	6.13	8.06	
4,363.0	22.60	215.40	4,354.1	-71.9	-22.6	73.7	5.00	5.00	-0.31	
4,395.0	23.60	214.40	4,383.5	-82.2	-29.8	84.7	3.36	3.13	-3.13	
4,427.0	25.40	214.30	4,412.6	-93.1	-37.3	96.3	5.63	5.63	-0.31	
4,458.0	27.30	214.10	4,440.4	-104.5	-45.0	108.4	6.14	6.13	-0.65	
4,490.0	29.20	215.80	4,468.6	-116.9	-53.7	121.6	6.45	5.94	5.31	
4,522.0	31.00	217.00	4,496.3	-129.8	-63.3	135.4	5.93	5.63	3.75	
4,553.0	33.00	216.80	4,522.6	-143.0	-73.1	149.5	6.46	6.45	-0.65	
4,585.0	35.20	215.60	4,549.1	-157.4	-83.7	164.9	7.19	6.88	-3.75	
4,617.0	36.70	213.90	4,575.0	-172.9	-94.4	181.3	5.63	4.69	-5.31	
4,649.0	38.00	213.00	4,600.4	-189.1	-105.1	198.5	4.41	4.06	-2.81	
4,680.0	38.90	213.60	4,624.7	-205.2	-115.7	215.6	3.14	2.90	1.94	
4,712.0	39.90	212.50	4,649.4	-222.2	-126.8	233.6	3.81	3.13	-3.44	
4,744.0	42.50	211.90	4,673.5	-240.0	-138.0	252.5	8.22	8.13	-1.88	
4,775.0	45.80	211.20	4,695.7	-258.4	-149.3	271.9	10.76	10.65	-2.26	
4,807.0	49.80	210.50	4,717.2	-278.8	-161.4	293.3	12.60	12.50	-2.19	
4,839.0	51.60	210.10	4,737.5	-300.2	-173.9	315.8	5.71	5.63	-1.25	
4,870.0	51.50	209.80	4,756.8	-321.2	-186.0	338.0	0.82	-0.32	-0.97	
4,902.0	51.30	209.80	4,776.7	-342.9	-198.5	360.8	0.63	-0.63	0.00	
4,934.0	51.30	209.20	4,796.8	-364.6	-210.8	383.6	1.46	0.00	-1.88	
4,966.0	50.90	209.00	4,816.8	-386.4	-222.9	406.5	1.34	-1.25	-0.63	
4,997.0	50.60	208.30	4,836.5	-407.5	-234.4	428.6	2.00	-0.97	-2.26	
5,029.0	51.70	206.90	4,856.5	-429.6	-245.9	451.7	4.84	3.44	-4.38	
5,061.0	54.10	203.70	4,875.8	-452.6	-256.8	475.7	10.95	7.50	-10.00	
5,093.0	56.90	201.60	4,894.0	-477.0	-267.0	500.9	10.29	8.75	-6.56	
5,124.0	59.20	199.10	4,910.4	-501.6	-276.1	526.4	10.09	7.42	-8.06	
5,156.0	61.60	196.30	4,926.2	-528.1	-284.6	553.6	10.68	7.50	-8.75	
5,188.0	64.00	193.00	4,940.8	-555.7	-291.8	581.7	11.85	7.50	-10.31	
5,219.0	66.40	191.60	4,953.8	-583.2	-297.7	609.6	8.76	7.74	-4.52	

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Survey										
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5,251.0	68.00	189.00	4,966.2	-612.2	-303.0	639.0	9.01	5.00	-8.13	
5,283.0	69.60	187.60	4,977.8	-641.7	-307.3	668.8	6.45	5.00	-4.38	
5,314.0	71.20	185.60	4,988.2	-670.7	-310.7	698.0	7.97	5.16	-6.45	
5,346.0	73.20	185.00	4,998.0	-701.0	-313.5	728.5	6.50	6.25	-1.88	
5,378.0	76.30	183.80	5,006.4	-731.8	-315.9	759.3	10.34	9.69	-3.75	
5,409.0	79.50	183.80	5,012.9	-762.1	-317.9	789.6	10.32	10.32	0.00	
5,441.0	82.40	183.10	5,017.9	-793.6	-319.8	821.2	9.32	9.06	-2.19	
5,473.0	85.20	183.30	5,021.4	-825.4	-321.5	853.0	8.77	8.75	0.63	
5,501.0	88.10	183.80	5,023.0	-853.3	-323.3	880.9	10.51	10.36	1.79	
5,575.0	90.10	183.80	5,024.2	-927.1	-328.2	954.9	2.70	2.70	0.00	
5,605.0	90.10	183.60	5,024.1	-957.0	-330.1	984.9	0.67	0.00	-0.67	
5,636.0	90.00	183.60	5,024.1	-988.0	-332.1	1,015.8	0.32	-0.32	0.00	
5,666.0	90.00	183.60	5,024.1	-1,017.9	-333.9	1,045.8	0.00	0.00	0.00	
5,697.0	90.70	183.30	5,023.9	-1,048.8	-335.8	1,076.8	2.46	2.26	-0.97	
5,727.0	90.80	183.30	5,023.5	-1,078.8	-337.5	1,106.8	0.33	0.33	0.00	
5,758.0	90.80	182.20	5,023.1	-1,109.7	-339.0	1,137.7	3.55	0.00	-3.55	
5,789.0	90.60	181.80	5,022.7	-1,140.7	-340.1	1,168.7	1.44	-0.65	-1.29	
5,819.0	90.50	181.80	5,022.4	-1,170.7	-341.0	1,198.6	0.33	-0.33	0.00	
5,850.0	90.50	181.70	5,022.1	-1,201.7	-342.0	1,229.5	0.32	0.00	-0.32	
5,881.0	90.40	181.90	5,021.9	-1,232.7	-343.0	1,260.4	0.72	-0.32	0.65	
5,911.0	90.50	182.00	5,021.7	-1,262.7	-344.0	1,290.4	0.47	0.33	0.33	
5,957.0	90.80	182.00	5,021.1	-1,308.6	-345.6	1,336.3	0.65	0.65	0.00	
6,003.0	90.70	181.80	5,020.5	-1,354.6	-347.1	1,382.2	0.49	-0.22	-0.43	
6,048.0	88.80	182.30	5,020.7	-1,399.6	-348.7	1,427.1	4.37	-4.22	1.11	
6,095.0	88.00	182.90	5,022.0	-1,446.5	-350.9	1,474.0	2.13	-1.70	1.28	
6,140.0	87.80	182.80	5,023.7	-1,491.4	-353.1	1,518.9	0.50	-0.44	-0.22	
6,186.0	88.60	182.70	5,025.1	-1,537.3	-355.3	1,564.8	1.75	1.74	-0.22	
6,232.0	90.10	182.40	5,025.7	-1,583.3	-357.3	1,610.8	3.33	3.26	-0.65	
6,278.0	89.70	181.80	5,025.7	-1,629.3	-359.0	1,656.7	1.57	-0.87	-1.30	
6,324.0	89.20	181.50	5,026.2	-1,675.2	-360.4	1,702.6	1.27	-1.09	-0.65	
6,370.0	88.70	181.50	5,027.0	-1,721.2	-361.6	1,748.4	1.09	-1.09	0.00	
6,415.0	88.70	181.60	5,028.0	-1,766.2	-362.8	1,793.3	0.22	0.00	0.22	
6,461.0	89.10	182.30	5,028.9	-1,812.1	-364.3	1,839.2	1.75	0.87	1.52	
6,507.0	89.80	182.20	5,029.4	-1,858.1	-366.1	1,885.1	1.54	1.52	-0.22	
6,553.0	90.50	182.30	5,029.2	-1,904.1	-368.0	1,931.0	1.54	1.52	0.22	
6,603.0	90.30	182.30	5,028.9	-1,954.0	-370.0	1,981.0	0.40	-0.40	0.00	
6,648.0	90.20	182.00	5,028.7	-1,999.0	-371.6	2,025.9	0.70	-0.22	-0.67	
6,698.0	90.20	182.30	5,028.5	-2,049.0	-373.5	2,075.8	0.60	0.00	0.60	
6,743.0	90.50	181.90	5,028.2	-2,093.9	-375.2	2,120.7	1.11	0.67	-0.89	
6,793.0	90.90	182.20	5,027.6	-2,143.9	-377.0	2,170.6	1.00	0.80	0.60	
6,838.0	91.20	181.70	5,026.8	-2,188.9	-378.5	2,215.5	1.30	0.67	-1.11	
6,888.0	90.60	182.20	5,026.0	-2,238.8	-380.2	2,265.4	1.56	-1.20	1.00	
6,933.0	90.80	182.20	5,025.5	-2,283.8	-381.9	2,310.3	0.44	0.44	0.00	

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6,983.0	90.70	182.10	5,024.8	-2,333.8	-383.8	2,360.2	0.28	-0.20	-0.20	
7,028.0	90.30	181.70	5,024.4	-2,378.7	-385.3	2,405.1	1.26	-0.89	-0.89	
7,078.0	90.20	182.00	5,024.2	-2,428.7	-386.9	2,455.0	0.63	-0.20	0.60	
7,123.0	90.20	182.10	5,024.1	-2,473.7	-388.5	2,499.9	0.22	0.00	0.22	
7,173.0	91.60	181.20	5,023.3	-2,523.6	-390.0	2,549.8	3.33	2.80	-1.80	
7,218.0	91.80	181.30	5,021.9	-2,568.6	-390.9	2,594.6	0.50	0.44	0.22	
7,268.0	91.40	181.10	5,020.5	-2,618.6	-392.0	2,644.4	0.89	-0.80	-0.40	
7,313.0	91.20	181.30	5,019.5	-2,663.6	-392.9	2,689.3	0.63	-0.44	0.44	
7,363.0	90.70	181.50	5,018.7	-2,713.5	-394.1	2,739.2	1.08	-1.00	0.40	
7,408.0	90.40	181.50	5,018.3	-2,758.5	-395.3	2,784.0	0.67	-0.67	0.00	
7,458.0	90.00	182.10	5,018.1	-2,808.5	-396.9	2,833.9	1.44	-0.80	1.20	
7,503.0	89.00	182.10	5,018.5	-2,853.5	-398.5	2,878.8	2.22	-2.22	0.00	
7,553.0	88.70	182.50	5,019.5	-2,903.4	-400.5	2,928.7	1.00	-0.60	0.80	
7,598.0	88.70	182.80	5,020.5	-2,948.4	-402.6	2,973.7	0.67	0.00	0.67	
7,648.0	88.80	182.50	5,021.6	-2,998.3	-404.9	3,023.6	0.63	0.20	-0.60	
7,693.0	88.50	182.70	5,022.7	-3,043.2	-407.0	3,068.5	0.80	-0.67	0.44	
7,743.0	88.70	182.80	5,023.9	-3,093.2	-409.4	3,118.4	0.45	0.40	0.20	
7,788.0	89.10	182.30	5,024.7	-3,138.1	-411.4	3,163.4	1.42	0.89	-1.11	
7,838.0	89.00	182.20	5,025.6	-3,188.1	-413.3	3,213.3	0.28	-0.20	-0.20	
7,883.0	89.30	182.30	5,026.2	-3,233.0	-415.1	3,258.2	0.70	0.67	0.22	
7,933.0	89.70	182.10	5,026.7	-3,283.0	-417.0	3,308.1	0.89	0.80	-0.40	
7,978.0	89.60	182.00	5,026.9	-3,327.9	-418.6	3,353.0	0.31	-0.22	-0.22	
8,028.0	89.40	182.20	5,027.4	-3,377.9	-420.5	3,402.9	0.57	-0.40	0.40	
8,073.0	89.20	181.80	5,027.9	-3,422.9	-422.0	3,447.8	0.99	-0.44	-0.89	
8,123.0	89.60	181.60	5,028.5	-3,472.9	-423.5	3,497.7	0.89	0.80	-0.40	
8,168.0	89.70	181.70	5,028.7	-3,517.8	-424.8	3,542.6	0.31	0.22	0.22	
8,218.0	90.60	182.30	5,028.6	-3,567.8	-426.6	3,592.5	2.16	1.80	1.20	
8,263.0	90.60	181.70	5,028.1	-3,612.8	-428.1	3,637.4	1.33	0.00	-1.33	
8,313.0	90.50	181.80	5,027.6	-3,662.8	-429.7	3,687.3	0.28	-0.20	0.20	
8,358.0	90.60	181.60	5,027.2	-3,707.7	-431.0	3,732.1	0.50	0.22	-0.44	
8,408.0	90.50	181.60	5,026.7	-3,757.7	-432.4	3,782.0	0.20	-0.20	0.00	
8,453.0	89.70	181.80	5,026.7	-3,802.7	-433.7	3,826.9	1.83	-1.78	0.44	
8,503.0	89.90	182.10	5,026.8	-3,852.7	-435.4	3,876.8	0.72	0.40	0.60	
8,548.0	89.90	182.50	5,026.9	-3,897.6	-437.2	3,921.7	0.89	0.00	0.89	
8,598.0	89.80	182.30	5,027.0	-3,947.6	-439.3	3,971.6	0.45	-0.20	-0.40	
8,643.0	89.90	182.20	5,027.2	-3,992.5	-441.1	4,016.6	0.31	0.22	-0.22	
8,693.0	90.00	182.30	5,027.2	-4,042.5	-443.1	4,066.5	0.28	0.20	0.20	
8,738.0	90.10	182.20	5,027.2	-4,087.5	-444.8	4,111.4	0.31	0.22	-0.22	
8,788.0	90.20	182.10	5,027.0	-4,137.4	-446.7	4,161.3	0.28	0.20	-0.20	
8,833.0	90.30	181.70	5,026.8	-4,182.4	-448.2	4,206.2	0.92	0.22	-0.89	
8,883.0	89.90	181.20	5,026.7	-4,232.4	-449.5	4,256.1	1.28	-0.80	-1.00	
8,928.0	89.00	180.50	5,027.2	-4,277.4	-450.1	4,300.9	2.53	-2.00	-1.56	
8,978.0	89.00	179.70	5,028.1	-4,327.4	-450.2	4,350.7	1.60	0.00	-1.60	
9,023.0	88.70	179.80	5,029.0	-4,372.4	-450.0	4,395.4	0.70	-0.67	0.22	

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Bleumer 2629 3-19H/ Lariat 20
Project:	Gray County, KS (NAD27)	TVD Reference:	WELL @ 2752.0usft (Original Well Elev)
Site:	Sec 19-T26S-R29W	MD Reference:	WELL @ 2752.0usft (Original Well Elev)
Well:	Bleumer 2629 3-19H/ Lariat 20	North Reference:	Grid
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)
9,073.0	89.40	180.60	5,029.8	-4,422.4	-450.2	4,445.2	2.13	1.40	1.60
9,118.0	89.10	180.60	5,030.4	-4,467.4	-450.7	4,490.0	0.67	-0.67	0.00
9,168.0	88.20	179.70	5,031.6	-4,517.3	-450.8	4,539.8	2.55	-1.80	-1.80
9,213.0	88.10	179.70	5,033.0	-4,562.3	-450.6	4,584.5	0.22	-0.22	0.00
9,263.0	88.40	179.80	5,034.5	-4,612.3	-450.3	4,634.2	0.63	0.60	0.20
9,308.0	87.80	179.70	5,036.0	-4,657.3	-450.1	4,679.0	1.35	-1.33	-0.22
9,353.0	87.60	179.50	5,037.8	-4,702.2	-449.8	4,723.7	0.63	-0.44	-0.44
Last Archer MWD Survey									
9,399.9	87.60	179.50	5,039.8	-4,749.1	-449.4	4,770.2	0.00	0.00	0.00
PBHL Bleumer 3-19H									
9,400.0	87.60	179.50	5,039.8	-4,749.2	-449.4	4,770.4	0.00	0.00	0.00
Projection to TD									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,608.0	1,608.0	-0.6	-1.3	First Archer MWD Survey	
9,353.0	5,037.8	-4,702.2	-449.8	Last Archer MWD Survey	
9,400.0	5,039.8	-4,749.2	-449.4	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____