

Sandridge Energy, INC.(mid-con.)

Comanche County (KS27S)

Sec 07-T31S-R19W

Brothers 1-6H/ Job #04109-431-22/ Lariat 41

Wellbore #1

Design: Wellbore #1

Standard Survey Report

25 March, 2013

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project: Comanche County (KS27S)	TVD Reference: WELL @ 2178.0usft (Original Well Elev)
Site: Sec 07-T31S-R19W	MD Reference: WELL @ 2178.0usft (Original Well Elev)
Well: Brothers 1-6H/ Job #04109-431-22/ Lariat 41	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project Comanche County (KS27S), KS South		
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 07-T31S-R19W					
Site Position:		Northing:	256,387.00 usft	Latitude:	37° 22' 1.418 N
From: Map		Easting:	1,728,232.00 usft	Longitude:	99° 26' 6.478 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.57 °

Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41					
Well Position	+N/-S	0.0 usft	Northing:	256,011.00 usft	Latitude: 37° 21' 57.807 N
	+E/-W	0.0 usft	Easting:	1,729,303.00 usft	Longitude: 99° 25' 53.166 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 2,160.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/15/13	5.39	65.28	51,825

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		0.71

Survey Program Date 03/25/13					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,219.0	10,070.0	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	
1,219.0	1.10	285.50	1,218.9	3.1	-11.3	3.0	0.09	0.09	0.00	
First Archer MWD Survey										
1,676.0	1.20	240.80	1,675.8	2.0	-19.7	1.7	0.19	0.02	-9.78	
2,137.0	1.70	243.40	2,136.7	-3.5	-30.0	-3.8	0.11	0.11	0.56	
2,597.0	1.10	263.50	2,596.6	-7.0	-40.5	-7.5	0.17	-0.13	4.37	
3,054.0	1.00	51.00	3,053.5	-5.0	-41.8	-5.5	0.44	-0.02	32.28	
3,511.0	0.70	80.10	3,510.5	-2.0	-35.9	-2.4	0.11	-0.07	6.37	
3,967.0	1.70	39.70	3,966.4	3.7	-28.8	3.3	0.27	0.22	-8.86	
4,150.0	1.30	50.50	4,149.3	7.1	-25.5	6.8	0.27	-0.22	5.90	

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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)
4,181.0	1.20	52.60	4,180.3	7.5	-25.0	7.2	0.35	-0.32	6.77
4,211.0	2.60	23.50	4,210.3	8.3	-24.5	8.0	5.53	4.67	-97.00
4,242.0	5.20	23.90	4,241.2	10.3	-23.6	10.0	8.39	8.39	1.29
4,272.0	7.40	26.10	4,271.0	13.2	-22.2	13.0	7.38	7.33	7.33
4,303.0	9.30	25.70	4,301.7	17.3	-20.2	17.0	6.13	6.13	-1.29
4,333.0	10.70	29.50	4,331.2	21.9	-17.8	21.7	5.16	4.67	12.67
4,363.0	12.10	29.90	4,360.7	27.0	-14.9	26.9	4.67	4.67	1.33
4,394.0	13.60	27.80	4,390.9	33.1	-11.6	32.9	5.07	4.84	-6.77
4,424.0	14.50	24.30	4,420.0	39.6	-8.4	39.5	4.12	3.00	-11.67
4,454.0	15.30	19.80	4,449.0	46.8	-5.5	46.7	4.69	2.67	-15.00
4,485.0	17.20	13.00	4,478.7	55.1	-3.1	55.0	8.66	6.13	-21.94
4,515.0	20.00	9.10	4,507.2	64.5	-1.3	64.5	10.21	9.33	-13.00
4,546.0	23.20	6.80	4,536.0	75.8	0.3	75.8	10.68	10.32	-7.42
4,576.0	25.40	4.60	4,563.3	88.1	1.5	88.1	7.93	7.33	-7.33
4,606.0	27.70	1.30	4,590.2	101.4	2.2	101.5	9.11	7.67	-11.00
4,637.0	30.00	359.40	4,617.3	116.4	2.3	116.4	7.99	7.42	-6.13
4,667.0	32.10	358.80	4,643.0	131.9	2.0	131.9	7.08	7.00	-2.00
4,698.0	34.20	358.30	4,669.0	148.8	1.6	148.8	6.83	6.77	-1.61
4,728.0	36.40	358.60	4,693.5	166.1	1.1	166.1	7.36	7.33	1.00
4,758.0	38.60	359.00	4,717.3	184.4	0.8	184.4	7.38	7.33	1.33
4,789.0	39.90	359.30	4,741.3	204.0	0.5	204.0	4.24	4.19	0.97
4,819.0	41.10	359.20	4,764.1	223.5	0.2	223.5	4.01	4.00	-0.33
4,850.0	42.40	359.10	4,787.2	244.1	-0.1	244.1	4.20	4.19	-0.32
4,880.0	44.00	358.80	4,809.1	264.7	-0.5	264.6	5.38	5.33	-1.00
4,911.0	45.90	358.80	4,831.0	286.6	-0.9	286.5	6.13	6.13	0.00
4,941.0	48.00	358.80	4,851.5	308.5	-1.4	308.4	7.00	7.00	0.00
4,971.0	49.00	358.80	4,871.4	330.9	-1.9	330.9	3.33	3.33	0.00
5,002.0	49.10	358.20	4,891.7	354.3	-2.5	354.3	1.50	0.32	-1.94
5,032.0	48.80	358.10	4,911.4	377.0	-3.2	376.9	1.03	-1.00	-0.33
5,063.0	48.90	358.30	4,931.8	400.3	-3.9	400.2	0.58	0.32	0.65
5,093.0	48.80	358.70	4,951.5	422.9	-4.5	422.8	1.06	-0.33	1.33
5,124.0	49.10	358.50	4,971.9	446.2	-5.1	446.1	1.08	0.97	-0.65
5,154.0	49.40	359.00	4,991.5	469.0	-5.6	468.9	1.61	1.00	1.67
5,185.0	51.00	359.50	5,011.3	492.8	-5.9	492.7	5.31	5.16	1.61
5,215.0	53.00	359.60	5,029.8	516.4	-6.1	516.3	6.67	6.67	0.33
5,245.0	55.60	359.70	5,047.3	540.8	-6.2	540.7	8.67	8.67	0.33
5,276.0	59.30	359.80	5,064.0	566.9	-6.4	566.8	11.94	11.94	0.32
5,307.0	63.00	359.20	5,078.9	594.1	-6.6	593.9	12.06	11.94	-1.94
5,337.0	66.10	359.50	5,091.8	621.1	-6.9	621.0	10.37	10.33	1.00
5,368.0	68.80	359.90	5,103.7	649.8	-7.1	649.6	8.79	8.71	1.29
5,398.0	71.30	0.40	5,113.9	678.0	-7.0	677.8	8.48	8.33	1.67
5,428.0	73.30	1.10	5,123.0	706.5	-6.6	706.4	7.03	6.67	2.33

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5,459.0	75.80	1.60	5,131.3	736.4	-5.9	736.3	8.21	8.06	1.61	
5,489.0	78.20	1.30	5,138.0	765.6	-5.2	765.5	8.06	8.00	-1.00	
5,520.0	80.70	1.40	5,143.7	796.1	-4.4	796.0	8.07	8.06	0.32	
5,550.0	84.30	0.70	5,147.6	825.8	-3.9	825.7	12.22	12.00	-2.33	
5,565.0	86.00	0.30	5,148.9	840.8	-3.8	840.7	11.64	11.33	-2.67	
5,616.0	90.70	359.50	5,150.4	891.7	-3.9	891.6	9.35	9.22	-1.57	
5,647.0	90.90	359.70	5,149.9	922.7	-4.1	922.6	0.91	0.65	0.65	
5,679.0	91.10	359.40	5,149.4	954.7	-4.3	954.6	1.13	0.63	-0.94	
5,711.0	91.80	359.10	5,148.6	986.7	-4.7	986.6	2.38	2.19	-0.94	
5,742.0	91.90	359.30	5,147.6	1,017.7	-5.2	1,017.5	0.72	0.32	0.65	
5,774.0	90.20	358.90	5,147.0	1,049.7	-5.7	1,049.5	5.46	-5.31	-1.25	
5,805.0	89.30	0.10	5,147.1	1,080.7	-5.9	1,080.5	4.84	-2.90	3.87	
5,837.0	89.80	0.80	5,147.4	1,112.7	-5.7	1,112.5	2.69	1.56	2.19	
5,868.0	89.80	2.40	5,147.5	1,143.7	-4.8	1,143.5	5.16	0.00	5.16	
5,900.0	90.60	3.00	5,147.4	1,175.6	-3.3	1,175.5	3.12	2.50	1.88	
5,931.0	90.90	2.90	5,147.0	1,206.6	-1.7	1,206.5	1.02	0.97	-0.32	
5,963.0	91.20	2.80	5,146.4	1,238.5	-0.1	1,238.4	0.99	0.94	-0.31	
5,994.0	91.90	3.00	5,145.5	1,269.5	1.4	1,269.4	2.35	2.26	0.65	
6,025.0	92.40	3.20	5,144.4	1,300.4	3.1	1,300.4	1.74	1.61	0.65	
6,057.0	91.10	3.10	5,143.4	1,332.4	4.9	1,332.3	4.07	-4.06	-0.31	
6,088.0	91.20	3.30	5,142.8	1,363.3	6.6	1,363.3	0.72	0.32	0.65	
6,120.0	88.80	2.60	5,142.8	1,395.3	8.2	1,395.2	7.81	-7.50	-2.19	
6,152.0	88.20	2.40	5,143.6	1,427.2	9.6	1,427.2	1.98	-1.88	-0.63	
6,183.0	88.40	1.50	5,144.5	1,458.2	10.7	1,458.2	2.97	0.65	-2.90	
6,214.0	89.00	1.70	5,145.2	1,489.2	11.6	1,489.2	2.04	1.94	0.65	
6,246.0	89.40	1.70	5,145.7	1,521.1	12.5	1,521.2	1.25	1.25	0.00	
6,277.0	88.60	2.20	5,146.2	1,552.1	13.6	1,552.2	3.04	-2.58	1.61	
6,309.0	88.80	2.70	5,146.9	1,584.1	14.9	1,584.1	1.68	0.63	1.56	
6,340.0	89.70	3.60	5,147.4	1,615.0	16.6	1,615.1	4.11	2.90	2.90	
6,372.0	90.10	3.90	5,147.4	1,647.0	18.7	1,647.1	1.56	1.25	0.94	
6,403.0	88.90	3.00	5,147.7	1,677.9	20.6	1,678.0	4.84	-3.87	-2.90	
6,435.0	88.80	2.80	5,148.3	1,709.9	22.2	1,710.0	0.70	-0.31	-0.63	
6,466.0	88.80	2.20	5,149.0	1,740.8	23.6	1,741.0	1.94	0.00	-1.94	
6,498.0	88.50	2.30	5,149.7	1,772.8	24.8	1,773.0	0.99	-0.94	0.31	
6,529.0	89.10	2.90	5,150.4	1,803.7	26.2	1,803.9	2.74	1.94	1.94	
6,561.0	89.90	2.40	5,150.7	1,835.7	27.7	1,835.9	2.95	2.50	-1.56	
6,592.0	90.10	1.90	5,150.7	1,866.7	28.9	1,866.9	1.74	0.65	-1.61	
6,624.0	90.40	2.30	5,150.5	1,898.7	30.0	1,898.9	1.56	0.94	1.25	
6,655.0	89.90	1.70	5,150.4	1,929.7	31.1	1,929.9	2.52	-1.61	-1.94	
6,687.0	90.20	2.00	5,150.4	1,961.6	32.2	1,961.9	1.33	0.94	0.94	
6,718.0	89.90	2.10	5,150.4	1,992.6	33.3	1,992.9	1.02	-0.97	0.32	
6,813.0	90.40	1.70	5,150.1	2,087.6	36.4	2,087.9	0.67	0.53	-0.42	
6,907.0	91.30	1.40	5,148.7	2,181.5	39.0	2,181.8	1.01	0.96	-0.32	

Archer

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7,002.0	92.30	1.40	5,145.8	2,276.4	41.3	2,276.8	1.05	1.05	0.00
7,096.0	90.20	1.20	5,143.7	2,370.4	43.4	2,370.7	2.24	-2.23	-0.21
7,191.0	91.00	1.90	5,142.7	2,465.3	46.0	2,465.7	1.12	0.84	0.74
7,285.0	89.10	1.80	5,142.6	2,559.3	49.0	2,559.7	2.02	-2.02	-0.11
7,348.0	86.20	2.50	5,145.2	2,622.2	51.4	2,622.6	4.74	-4.60	1.11
7,380.0	86.90	1.90	5,147.1	2,654.1	52.6	2,654.6	2.88	2.19	-1.88
7,412.0	88.40	2.00	5,148.4	2,686.1	53.7	2,686.5	4.70	4.69	0.31
7,444.0	89.30	2.10	5,149.1	2,718.0	54.8	2,718.5	2.83	2.81	0.31
7,475.0	91.50	0.90	5,148.9	2,749.0	55.6	2,749.5	8.08	7.10	-3.87
7,507.0	92.10	359.80	5,147.9	2,781.0	55.8	2,781.5	3.91	1.88	-3.44
7,539.0	92.10	359.20	5,146.7	2,813.0	55.6	2,813.5	1.87	0.00	-1.88
7,570.0	92.20	359.40	5,145.5	2,844.0	55.2	2,844.4	0.72	0.32	0.65
7,602.0	93.20	359.40	5,144.0	2,875.9	54.8	2,876.4	3.13	3.13	0.00
7,634.0	93.80	359.10	5,142.1	2,907.9	54.4	2,908.3	2.10	1.88	-0.94
7,666.0	94.60	358.90	5,139.7	2,939.8	53.9	2,940.2	2.58	2.50	-0.63
7,697.0	94.40	358.80	5,137.3	2,970.7	53.2	2,971.1	0.72	-0.65	-0.32
7,729.0	93.00	359.60	5,135.2	3,002.6	52.8	3,003.0	5.04	-4.38	2.50
7,761.0	93.00	360.00	5,133.6	3,034.5	52.7	3,035.0	1.25	0.00	1.25
7,793.0	91.90	358.90	5,132.2	3,066.5	52.4	3,066.9	4.86	-3.44	-3.44
7,824.0	91.80	358.70	5,131.2	3,097.5	51.7	3,097.9	0.72	-0.32	-0.65
7,856.0	91.80	358.00	5,130.2	3,129.5	50.8	3,129.9	2.19	0.00	-2.19
7,888.0	92.70	358.40	5,128.9	3,161.4	49.8	3,161.8	3.08	2.81	1.25
7,919.0	92.70	358.20	5,127.5	3,192.4	48.9	3,192.7	0.64	0.00	-0.65
7,951.0	93.30	358.10	5,125.8	3,224.3	47.9	3,224.7	1.90	1.88	-0.31
7,983.0	90.90	358.00	5,124.6	3,256.3	46.8	3,256.6	7.51	-7.50	-0.31
8,014.0	89.10	358.80	5,124.6	3,287.3	45.9	3,287.6	6.35	-5.81	2.58
8,046.0	89.50	358.70	5,125.0	3,319.2	45.2	3,319.6	1.29	1.25	-0.31
8,078.0	89.90	358.00	5,125.2	3,351.2	44.3	3,351.5	2.52	1.25	-2.19
8,110.0	90.30	357.60	5,125.1	3,383.2	43.1	3,383.5	1.77	1.25	-1.25
8,141.0	91.50	358.80	5,124.6	3,414.2	42.1	3,414.4	5.47	3.87	3.87
8,173.0	92.10	359.00	5,123.6	3,446.2	41.5	3,446.4	1.98	1.88	0.63
8,205.0	92.20	359.10	5,122.4	3,478.1	40.9	3,478.4	0.44	0.31	0.31
8,236.0	91.70	358.80	5,121.4	3,509.1	40.4	3,509.3	1.88	-1.61	-0.97
8,268.0	91.80	0.70	5,120.4	3,541.1	40.2	3,541.3	5.94	0.31	5.94
8,300.0	92.30	0.50	5,119.2	3,573.1	40.6	3,573.3	1.68	1.56	-0.63
8,332.0	92.80	0.70	5,117.8	3,605.0	40.9	3,605.3	1.68	1.56	0.63
8,363.0	91.50	0.70	5,116.7	3,636.0	41.3	3,636.3	4.19	-4.19	0.00
8,394.0	91.20	0.40	5,115.9	3,667.0	41.6	3,667.2	1.37	-0.97	-0.97
8,426.0	89.80	1.40	5,115.7	3,699.0	42.1	3,699.2	5.38	-4.38	3.13
8,457.0	89.70	1.40	5,115.8	3,730.0	42.8	3,730.2	0.32	-0.32	0.00
8,489.0	89.90	1.40	5,115.9	3,762.0	43.6	3,762.2	0.63	0.63	0.00
8,520.0	89.30	1.90	5,116.1	3,793.0	44.5	3,793.2	2.52	-1.94	1.61

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2178.0usft (Original Well Elev)
Site:	Sec 07-T31S-R19W	MD Reference:	WELL @ 2178.0usft (Original Well Elev)
Well:	Brothers 1-6H/ Job #04109-431-22/ Lariat 41	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)
8,552.0	88.80	1.70	5,116.6	3,824.9	45.5	3,825.2	1.68	-1.56	-0.63
8,583.0	88.90	1.40	5,117.3	3,855.9	46.4	3,856.2	1.02	0.32	-0.97
8,615.0	89.00	1.70	5,117.9	3,887.9	47.2	3,888.2	0.99	0.31	0.94
8,646.0	89.30	1.70	5,118.3	3,918.9	48.1	3,919.2	0.97	0.97	0.00
8,678.0	89.80	2.00	5,118.6	3,950.9	49.2	3,951.2	1.82	1.56	0.94
8,709.0	90.00	2.20	5,118.6	3,981.9	50.3	3,982.2	0.91	0.65	0.65
8,741.0	90.30	2.10	5,118.5	4,013.8	51.5	4,014.2	0.99	0.94	-0.31
8,772.0	90.90	2.40	5,118.2	4,044.8	52.7	4,045.2	2.16	1.94	0.97
8,804.0	90.90	2.40	5,117.7	4,076.8	54.1	4,077.1	0.00	0.00	0.00
8,835.0	90.20	2.80	5,117.4	4,107.7	55.5	4,108.1	2.60	-2.26	1.29
8,867.0	90.30	2.60	5,117.3	4,139.7	57.0	4,140.1	0.70	0.31	-0.63
8,898.0	89.90	2.70	5,117.2	4,170.7	58.4	4,171.1	1.33	-1.29	0.32
8,930.0	89.40	2.30	5,117.4	4,202.6	59.8	4,203.1	2.00	-1.56	-1.25
8,961.0	89.50	2.00	5,117.7	4,233.6	61.0	4,234.1	1.02	0.32	-0.97
8,993.0	89.50	2.40	5,118.0	4,265.6	62.2	4,266.0	1.25	0.00	1.25
9,024.0	89.70	2.40	5,118.2	4,296.6	63.5	4,297.0	0.65	0.65	0.00
9,056.0	89.40	2.50	5,118.5	4,328.5	64.9	4,329.0	0.99	-0.94	0.31
9,087.0	89.30	2.40	5,118.8	4,359.5	66.2	4,360.0	0.46	-0.32	-0.32
9,119.0	89.60	2.10	5,119.1	4,391.5	67.4	4,392.0	1.33	0.94	-0.94
9,150.0	89.30	1.90	5,119.4	4,422.5	68.5	4,423.0	1.16	-0.97	-0.65
9,182.0	87.10	1.10	5,120.4	4,454.4	69.4	4,454.9	7.31	-6.88	-2.50
9,213.0	86.50	1.00	5,122.2	4,485.4	69.9	4,485.9	1.96	-1.94	-0.32
9,245.0	86.80	0.80	5,124.0	4,517.3	70.4	4,517.8	1.13	0.94	-0.63
9,276.0	86.80	0.40	5,125.8	4,548.3	70.8	4,548.8	1.29	0.00	-1.29
9,307.0	87.60	359.50	5,127.3	4,579.2	70.7	4,579.8	3.88	2.58	-2.90
9,339.0	88.40	359.00	5,128.4	4,611.2	70.3	4,611.7	2.95	2.50	-1.56
9,370.0	90.70	358.80	5,128.6	4,642.2	69.7	4,642.7	7.45	7.42	-0.65
9,402.0	91.80	358.10	5,127.9	4,674.2	68.9	4,674.7	4.07	3.44	-2.19
9,433.0	92.00	358.20	5,126.9	4,705.1	67.9	4,705.6	0.72	0.65	0.32
9,465.0	92.40	358.30	5,125.7	4,737.1	66.9	4,737.6	1.29	1.25	0.31
9,496.0	92.00	357.90	5,124.5	4,768.1	65.9	4,768.5	1.82	-1.29	-1.29
9,528.0	92.20	357.70	5,123.3	4,800.0	64.6	4,800.5	0.88	0.63	-0.63
9,559.0	92.60	357.70	5,122.0	4,831.0	63.4	4,831.4	1.29	1.29	0.00
9,591.0	91.30	357.20	5,120.9	4,862.9	62.0	4,863.3	4.35	-4.06	-1.56
9,622.0	91.00	356.90	5,120.3	4,893.9	60.4	4,894.2	1.37	-0.97	-0.97
9,654.0	89.70	357.00	5,120.1	4,925.8	58.7	4,926.2	4.07	-4.06	0.31
9,685.0	89.80	357.50	5,120.2	4,956.8	57.2	4,957.1	1.64	0.32	1.61
9,717.0	90.20	357.30	5,120.2	4,988.8	55.7	4,989.1	1.40	1.25	-0.63
9,748.0	90.50	358.00	5,120.0	5,019.7	54.4	5,020.0	2.46	0.97	2.26
9,780.0	90.50	357.40	5,119.8	5,051.7	53.2	5,052.0	1.87	0.00	-1.88
9,811.0	90.90	357.30	5,119.4	5,082.7	51.7	5,082.9	1.33	1.29	-0.32
9,843.0	91.30	357.50	5,118.8	5,114.6	50.3	5,114.9	1.40	1.25	0.63
9,874.0	91.80	357.30	5,117.9	5,145.6	48.9	5,145.8	1.74	1.61	-0.65

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project: Comanche County (KS27S)	TVD Reference: WELL @ 2178.0usft (Original Well Elev)
Site: Sec 07-T31S-R19W	MD Reference: WELL @ 2178.0usft (Original Well Elev)
Well: Brothers 1-6H/ Job #04109-431-22/ Lariat 41	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)
9,906.0	91.40	358.50	5,117.0	5,177.6	47.7	5,177.7	3.95	-1.25	3.75
9,937.0	90.90	358.20	5,116.4	5,208.5	46.8	5,208.7	1.88	-1.61	-0.97
9,969.0	90.10	357.50	5,116.1	5,240.5	45.6	5,240.7	3.32	-2.50	-2.19
10,000.0	89.90	357.60	5,116.1	5,271.5	44.3	5,271.6	0.72	-0.65	0.32
10,022.0	90.10	357.60	5,116.1	5,293.5	43.4	5,293.6	0.91	0.91	0.00
Last Archer MWD Survey									
10,070.0	90.10	357.60	5,116.1	5,341.4	41.4	5,341.5	0.00	0.00	0.00
Projection to TD - PBHL Brothers 1-6H									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,219.0	1,218.9	3.1	-11.3	First Archer MWD Survey
10,022.0	5,116.1	5,293.5	43.4	Last Archer MWD Survey
10,070.0	5,116.1	5,341.4	41.4	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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