

Sandridge Energy, INC.(mid-con.)

Ford County (KS27S)

Sec 19-T29S-R24W

Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41

Wellbore #1

Design: Wellbore #1

Standard Survey Report

13 February, 2013

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41
Project: Ford County (KS27S)	TVD Reference: WELL @ 2632.0usft (Original Well Elev)
Site: Sec 19-T29S-R24W	MD Reference: WELL @ 2632.0usft (Original Well Elev)
Well: Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project 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 19-T29S-R24W					
Site Position:	Northing:	307,685.00 usft	Latitude:	37° 30' 7.611 N	
From: Map	Easting:	1,565,705.00 usft	Longitude:	99° 59' 49.675 W	
Position Uncertainty: 0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.92 °	

Well Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41						
Well Position	+N/-S	0.0 usft	Northing:	312,798.94 usft	Latitude:	37° 30' 58.330 N
	+E/-W	0.0 usft	Easting:	1,566,733.89 usft	Longitude:	99° 59' 37.925 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,612.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	2013/01/23	(°)	(°)	(nT)
			5.75	65.33	51,870

Design Wellbore #1					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	181.21	

Survey Program		Date	2013/02/13		
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
1,411.0	9,720.0	Archer MWD Survey (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,411.0	0.30	142.40	1,411.0	-2.9	2.3	2.9	0.02	0.02	0.00	
First Archer MWD Survey										
1,867.0	0.10	199.60	1,867.0	-4.2	2.8	4.2	0.06	-0.04	12.54	
2,324.0	0.80	289.40	2,324.0	-3.6	-0.3	3.6	0.18	0.15	19.65	
2,780.0	0.90	293.50	2,779.9	-1.1	-6.6	1.2	0.03	0.02	0.90	
3,236.0	1.60	321.70	3,235.8	5.3	-13.8	-5.1	0.20	0.15	6.18	
3,694.0	1.80	329.10	3,693.6	16.5	-21.5	-16.1	0.06	0.04	1.62	
4,151.0	1.50	142.20	4,150.6	18.0	-21.5	-17.5	0.72	-0.07	37.88	

Archer

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Site:	Sec 19-T29S-R24W	MD Reference:	WELL @ 2632.0usft (Original Well Elev)
Well:	Marks 2924 1-19H/ Job #04069-431-22/ 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)	
4,425.0	2.30	154.10	4,424.4	10.2	-16.9	-9.8	0.32	0.29	4.34	
4,456.0	3.40	159.60	4,455.4	8.8	-16.3	-8.4	3.65	3.55	17.74	
4,486.0	4.80	166.70	4,485.3	6.7	-15.7	-6.4	4.96	4.67	23.67	
4,517.0	6.20	169.60	4,516.1	3.8	-15.1	-3.5	4.60	4.52	9.35	
4,547.0	7.80	171.90	4,545.9	0.2	-14.5	0.1	5.41	5.33	7.67	
4,577.0	9.50	173.90	4,575.6	-4.3	-14.0	4.6	5.75	5.67	6.67	
4,607.0	11.80	176.90	4,605.1	-9.8	-13.5	10.1	7.88	7.67	10.00	
4,638.0	13.90	179.20	4,635.3	-16.7	-13.3	17.0	6.97	6.77	7.42	
4,668.0	16.20	181.70	4,664.2	-24.5	-13.4	24.8	7.96	7.67	8.33	
4,699.0	18.40	181.90	4,693.8	-33.7	-13.7	34.0	7.10	7.10	0.65	
4,729.0	20.50	181.80	4,722.1	-43.7	-14.0	44.0	7.00	7.00	-0.33	
4,760.0	22.70	180.40	4,751.0	-55.1	-14.2	55.4	7.29	7.10	-4.52	
4,790.0	24.40	180.90	4,778.5	-67.1	-14.4	67.4	5.71	5.67	1.67	
4,820.0	26.60	180.30	4,805.5	-80.0	-14.5	80.3	7.38	7.33	-2.00	
4,850.0	28.40	179.10	4,832.1	-93.8	-14.4	94.1	6.28	6.00	-4.00	
4,881.0	29.90	178.40	4,859.2	-108.9	-14.1	109.2	4.96	4.84	-2.26	
4,911.0	31.30	179.00	4,885.0	-124.2	-13.7	124.5	4.78	4.67	2.00	
4,942.0	31.80	178.40	4,911.4	-140.4	-13.4	140.7	1.90	1.61	-1.94	
4,972.0	33.10	178.00	4,936.8	-156.5	-12.9	156.7	4.39	4.33	-1.33	
5,002.0	35.10	177.60	4,961.6	-173.3	-12.2	173.5	6.71	6.67	-1.33	
5,033.0	37.50	178.00	4,986.6	-191.7	-11.5	191.9	7.78	7.74	1.29	
5,063.0	39.80	178.40	5,010.0	-210.4	-10.9	210.6	7.71	7.67	1.33	
5,094.0	41.50	177.90	5,033.5	-230.6	-10.3	230.7	5.58	5.48	-1.61	
5,124.0	43.60	178.70	5,055.6	-250.8	-9.7	251.0	7.23	7.00	2.67	
5,154.0	45.60	180.00	5,077.0	-271.9	-9.4	272.0	7.33	6.67	4.33	
5,185.0	47.90	181.20	5,098.2	-294.5	-9.7	294.6	7.94	7.42	3.87	
5,215.0	49.70	182.30	5,118.0	-317.0	-10.4	317.2	6.60	6.00	3.67	
5,246.0	49.80	182.20	5,138.0	-340.7	-11.3	340.8	0.41	0.32	-0.32	
5,276.0	49.30	182.20	5,157.5	-363.5	-12.2	363.7	1.67	-1.67	0.00	
5,307.0	48.90	182.40	5,177.8	-386.9	-13.1	387.1	1.38	-1.29	0.65	
5,337.0	48.70	181.60	5,197.5	-409.5	-13.9	409.7	2.11	-0.67	-2.67	
5,367.0	48.10	180.70	5,217.5	-431.9	-14.3	432.1	3.01	-2.00	-3.00	
5,398.0	48.80	180.90	5,238.0	-455.1	-14.7	455.3	2.31	2.26	0.65	
5,428.0	51.30	181.80	5,257.3	-478.1	-15.2	478.3	8.64	8.33	3.00	
5,459.0	54.40	182.40	5,276.0	-502.8	-16.1	503.0	10.12	10.00	1.94	
5,489.0	57.30	183.10	5,292.8	-527.6	-17.3	527.8	9.86	9.67	2.33	
5,520.0	60.40	183.90	5,308.9	-554.0	-18.9	554.3	10.24	10.00	2.58	
5,550.0	63.70	184.70	5,322.9	-580.5	-20.9	580.8	11.25	11.00	2.67	
5,581.0	67.00	184.90	5,335.9	-608.5	-23.3	608.9	10.66	10.65	0.65	
5,611.0	70.20	184.70	5,346.8	-636.4	-25.6	636.8	10.68	10.67	-0.67	
5,642.0	73.60	185.10	5,356.4	-665.7	-28.1	666.2	11.04	10.97	1.29	
5,672.0	76.70	185.00	5,364.1	-694.6	-30.7	695.1	10.34	10.33	-0.33	

Archer

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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)	
5,702.0	80.10	185.20	5,370.2	-723.9	-33.3	724.4	11.35	11.33	0.67	
5,733.0	83.00	185.20	5,374.7	-754.4	-36.1	755.0	9.35	9.35	0.00	
5,763.0	86.90	185.10	5,377.4	-784.2	-38.8	784.8	13.00	13.00	-0.33	
5,773.0	88.00	184.80	5,377.8	-794.1	-39.6	794.8	11.40	11.00	-3.00	
5,866.0	92.10	184.90	5,377.7	-886.8	-47.5	887.6	4.41	4.41	0.11	
5,898.0	92.80	184.70	5,376.3	-918.6	-50.2	919.5	2.27	2.19	-0.63	
5,929.0	93.50	184.10	5,374.6	-949.5	-52.5	950.4	2.97	2.26	-1.94	
5,961.0	93.80	183.20	5,372.6	-981.3	-54.6	982.3	2.96	0.94	-2.81	
5,992.0	93.40	182.70	5,370.7	-1,012.2	-56.2	1,013.2	2.06	-1.29	-1.61	
6,024.0	93.90	181.90	5,368.6	-1,044.2	-57.4	1,045.1	2.94	1.56	-2.50	
6,055.0	94.50	182.00	5,366.4	-1,075.0	-58.5	1,076.0	1.96	1.94	0.32	
6,087.0	93.90	181.20	5,364.0	-1,107.0	-59.4	1,108.0	3.12	-1.88	-2.50	
6,118.0	93.60	181.00	5,362.0	-1,137.9	-60.0	1,138.9	1.16	-0.97	-0.65	
6,150.0	92.00	180.70	5,360.4	-1,169.8	-60.5	1,170.9	5.09	-5.00	-0.94	
6,181.0	90.20	180.20	5,359.8	-1,200.8	-60.7	1,201.8	6.03	-5.81	-1.61	
6,213.0	89.70	179.60	5,359.9	-1,232.8	-60.6	1,233.8	2.44	-1.56	-1.88	
6,244.0	89.90	179.50	5,360.0	-1,263.8	-60.4	1,264.8	0.72	0.65	-0.32	
6,276.0	89.00	179.40	5,360.3	-1,295.8	-60.1	1,296.8	2.83	-2.81	-0.31	
6,307.0	89.20	179.30	5,360.8	-1,326.8	-59.7	1,327.8	0.72	0.65	-0.32	
6,338.0	89.50	178.80	5,361.1	-1,357.8	-59.2	1,358.8	1.88	0.97	-1.61	
6,370.0	88.90	177.90	5,361.6	-1,389.8	-58.3	1,390.7	3.38	-1.88	-2.81	
6,401.0	88.70	178.00	5,362.2	-1,420.8	-57.2	1,421.7	0.72	-0.65	0.32	
6,433.0	88.70	177.40	5,362.9	-1,452.7	-55.9	1,453.6	1.87	0.00	-1.88	
6,464.0	88.50	177.40	5,363.7	-1,483.7	-54.5	1,484.5	0.65	-0.65	0.00	
6,496.0	88.30	177.10	5,364.6	-1,515.6	-53.0	1,516.4	1.13	-0.63	-0.94	
6,527.0	89.50	177.50	5,365.2	-1,546.6	-51.5	1,547.3	4.08	3.87	1.29	
6,559.0	89.90	177.10	5,365.3	-1,578.6	-50.0	1,579.3	1.77	1.25	-1.25	
6,590.0	90.70	177.50	5,365.2	-1,609.5	-48.5	1,610.2	2.89	2.58	1.29	
6,622.0	90.70	176.70	5,364.8	-1,641.5	-46.9	1,642.1	2.50	0.00	-2.50	
6,653.0	90.30	177.50	5,364.5	-1,672.4	-45.4	1,673.0	2.89	-1.29	2.58	
6,685.0	89.40	176.20	5,364.6	-1,704.4	-43.6	1,704.9	4.94	-2.81	-4.06	
6,716.0	86.90	175.70	5,365.6	-1,735.3	-41.4	1,735.8	8.22	-8.06	-1.61	
6,748.0	86.50	176.50	5,367.4	-1,767.2	-39.2	1,767.6	2.79	-1.25	2.50	
6,779.0	85.70	176.70	5,369.6	-1,798.0	-37.4	1,798.4	2.66	-2.58	0.65	
6,811.0	85.80	177.30	5,371.9	-1,829.9	-35.7	1,830.3	1.90	0.31	1.88	
6,842.0	85.90	178.50	5,374.2	-1,860.8	-34.6	1,861.1	3.87	0.32	3.87	
6,873.0	86.20	178.30	5,376.3	-1,891.7	-33.7	1,892.0	1.16	0.97	-0.65	
6,905.0	86.60	178.60	5,378.3	-1,923.7	-32.9	1,923.9	1.56	1.25	0.94	
6,936.0	87.60	180.00	5,379.9	-1,954.6	-32.5	1,954.9	5.55	3.23	4.52	
6,968.0	88.50	180.10	5,381.0	-1,986.6	-32.5	1,986.8	2.83	2.81	0.31	
6,999.0	89.60	180.70	5,381.5	-2,017.6	-32.7	2,017.8	4.04	3.55	1.94	
7,031.0	90.50	181.70	5,381.5	-2,049.6	-33.4	2,049.8	4.20	2.81	3.13	
7,062.0	90.60	181.70	5,381.2	-2,080.6	-34.3	2,080.8	0.32	0.32	0.00	

Archer

Survey Report

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Project:	Ford County (KS27S)	TVD Reference:	WELL @ 2632.0usft (Original Well Elev)
Site:	Sec 19-T29S-R24W	MD Reference:	WELL @ 2632.0usft (Original Well Elev)
Well:	Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
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7,094.0	90.60	181.70	5,380.8	-2,112.5	-35.3	2,112.8	0.00	0.00	0.00	
7,125.0	91.60	181.90	5,380.2	-2,143.5	-36.3	2,143.8	3.29	3.23	0.65	
7,157.0	92.20	182.10	5,379.2	-2,175.5	-37.4	2,175.8	1.98	1.88	0.63	
7,188.0	92.60	181.60	5,377.9	-2,206.4	-38.4	2,206.8	2.06	1.29	-1.61	
7,220.0	92.60	181.60	5,376.4	-2,238.4	-39.3	2,238.7	0.00	0.00	0.00	
7,251.0	92.80	181.90	5,375.0	-2,269.3	-40.2	2,269.7	1.16	0.65	0.97	
7,283.0	93.60	181.80	5,373.2	-2,301.3	-41.2	2,301.6	2.52	2.50	-0.31	
7,314.0	94.00	181.80	5,371.1	-2,332.2	-42.2	2,332.6	1.29	1.29	0.00	
7,346.0	93.50	181.40	5,369.0	-2,364.1	-43.1	2,364.5	2.00	-1.56	-1.25	
7,377.0	93.20	181.50	5,367.2	-2,395.1	-43.9	2,395.4	1.02	-0.97	0.32	
7,409.0	89.90	180.00	5,366.3	-2,427.0	-44.3	2,427.4	11.33	-10.31	-4.69	
7,440.0	88.50	178.70	5,366.8	-2,458.0	-44.0	2,458.4	6.16	-4.52	-4.19	
7,472.0	89.10	179.20	5,367.4	-2,490.0	-43.4	2,490.4	2.44	1.88	1.56	
7,503.0	90.00	177.70	5,367.7	-2,521.0	-42.5	2,521.3	5.64	2.90	-4.84	
7,534.0	89.60	176.00	5,367.8	-2,552.0	-40.8	2,552.2	5.63	-1.29	-5.48	
7,566.0	91.30	175.90	5,367.6	-2,583.9	-38.6	2,584.1	5.32	5.31	-0.31	
7,598.0	93.00	176.60	5,366.3	-2,615.8	-36.5	2,616.0	5.74	5.31	2.19	
7,629.0	94.00	177.80	5,364.5	-2,646.7	-35.0	2,646.8	5.03	3.23	3.87	
7,661.0	94.60	177.90	5,362.1	-2,678.6	-33.8	2,678.7	1.90	1.88	0.31	
7,692.0	94.90	177.70	5,359.5	-2,709.4	-32.6	2,709.5	1.16	0.97	-0.65	
7,724.0	94.60	178.10	5,356.8	-2,741.3	-31.4	2,741.4	1.56	-0.94	1.25	
7,755.0	93.70	179.20	5,354.6	-2,772.2	-30.7	2,772.2	4.58	-2.90	3.55	
7,787.0	92.70	180.20	5,352.8	-2,804.2	-30.5	2,804.2	4.42	-3.13	3.13	
7,818.0	92.50	180.50	5,351.4	-2,835.1	-30.7	2,835.2	1.16	-0.65	0.97	
7,849.0	91.60	180.80	5,350.3	-2,866.1	-31.1	2,866.1	3.06	-2.90	0.97	
7,881.0	90.60	181.00	5,349.7	-2,898.1	-31.6	2,898.1	3.19	-3.13	0.63	
7,912.0	90.20	181.00	5,349.5	-2,929.1	-32.1	2,929.1	1.29	-1.29	0.00	
7,944.0	90.50	180.80	5,349.3	-2,961.1	-32.6	2,961.1	1.13	0.94	-0.63	
7,975.0	89.70	181.70	5,349.2	-2,992.1	-33.3	2,992.1	3.88	-2.58	2.90	
8,007.0	88.20	182.70	5,349.8	-3,024.1	-34.5	3,024.1	5.63	-4.69	3.13	
8,038.0	87.90	182.70	5,350.9	-3,055.0	-36.0	3,055.1	0.97	-0.97	0.00	
8,070.0	88.10	182.60	5,352.0	-3,086.9	-37.4	3,087.1	0.70	0.63	-0.31	
8,101.0	88.50	182.40	5,352.9	-3,117.9	-38.8	3,118.0	1.44	1.29	-0.65	
8,133.0	89.00	182.30	5,353.6	-3,149.9	-40.1	3,150.0	1.59	1.56	-0.31	
8,165.0	88.60	183.10	5,354.3	-3,181.8	-41.6	3,182.0	2.79	-1.25	2.50	
8,196.0	88.90	183.10	5,354.9	-3,212.8	-43.3	3,213.0	0.97	0.97	0.00	
8,228.0	89.30	183.10	5,355.4	-3,244.7	-45.0	3,245.0	1.25	1.25	0.00	
8,260.0	88.20	183.80	5,356.1	-3,276.7	-46.9	3,276.9	4.07	-3.44	2.19	
8,291.0	88.10	183.70	5,357.1	-3,307.6	-49.0	3,307.9	0.46	-0.32	-0.32	
8,323.0	88.40	183.50	5,358.1	-3,339.5	-51.0	3,339.8	1.13	0.94	-0.63	
8,354.0	88.70	183.40	5,358.9	-3,370.4	-52.8	3,370.8	1.02	0.97	-0.32	
8,386.0	89.10	183.80	5,359.5	-3,402.4	-54.9	3,402.8	1.77	1.25	1.25	

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41
Project:	Ford County (KS27S)	TVD Reference:	WELL @ 2632.0usft (Original Well Elev)
Site:	Sec 19-T29S-R24W	MD Reference:	WELL @ 2632.0usft (Original Well Elev)
Well:	Marks 2924 1-19H/ Job #04069-431-22/ 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)	
8,417.0	89.80	183.60	5,359.8	-3,433.3	-56.9	3,433.7	2.35	2.26	-0.65	
8,449.0	90.40	182.90	5,359.8	-3,465.2	-58.7	3,465.7	2.88	1.88	-2.19	
8,480.0	90.50	182.80	5,359.5	-3,496.2	-60.2	3,496.7	0.46	0.32	-0.32	
8,511.0	90.50	183.10	5,359.2	-3,527.2	-61.8	3,527.7	0.97	0.00	0.97	
8,543.0	90.70	183.10	5,358.9	-3,559.1	-63.5	3,559.7	0.63	0.63	0.00	
8,574.0	91.20	183.00	5,358.4	-3,590.1	-65.2	3,590.6	1.64	1.61	-0.32	
8,606.0	91.80	182.40	5,357.6	-3,622.0	-66.7	3,622.6	2.65	1.88	-1.88	
8,637.0	90.60	183.00	5,356.9	-3,653.0	-68.2	3,653.6	4.33	-3.87	1.94	
8,669.0	90.70	183.00	5,356.5	-3,684.9	-69.8	3,685.6	0.31	0.31	0.00	
8,700.0	89.20	183.20	5,356.6	-3,715.9	-71.5	3,716.6	4.88	-4.84	0.65	
8,732.0	88.50	183.20	5,357.2	-3,747.8	-73.3	3,748.5	2.19	-2.19	0.00	
8,763.0	88.80	182.90	5,357.9	-3,778.8	-74.9	3,779.5	1.37	0.97	-0.97	
8,795.0	89.70	182.80	5,358.4	-3,810.7	-76.5	3,811.5	2.83	2.81	-0.31	
8,826.0	90.90	182.10	5,358.2	-3,841.7	-77.9	3,842.5	4.48	3.87	-2.26	
8,858.0	88.80	181.70	5,358.3	-3,873.7	-78.9	3,874.5	6.68	-6.56	-1.25	
8,889.0	88.40	181.80	5,359.0	-3,904.7	-79.9	3,905.5	1.33	-1.29	0.32	
8,921.0	89.10	181.40	5,359.7	-3,936.6	-80.8	3,937.5	2.52	2.19	-1.25	
8,952.0	89.20	180.90	5,360.2	-3,967.6	-81.4	3,968.5	1.64	0.32	-1.61	
8,984.0	89.40	180.50	5,360.6	-3,999.6	-81.8	4,000.5	1.40	0.63	-1.25	
9,015.0	90.00	180.50	5,360.8	-4,030.6	-82.0	4,031.5	1.94	1.94	0.00	
9,047.0	90.50	180.20	5,360.6	-4,062.6	-82.2	4,063.5	1.82	1.56	-0.94	
9,078.0	90.10	179.70	5,360.5	-4,093.6	-82.2	4,094.4	2.07	-1.29	-1.61	
9,109.0	89.50	178.70	5,360.6	-4,124.6	-81.8	4,125.4	3.76	-1.94	-3.23	
9,141.0	89.20	178.70	5,360.9	-4,156.6	-81.1	4,157.4	0.94	-0.94	0.00	
9,172.0	88.80	178.40	5,361.5	-4,187.6	-80.3	4,188.4	1.61	-1.29	-0.97	
9,204.0	89.40	178.40	5,362.0	-4,219.6	-79.4	4,220.3	1.88	1.88	0.00	
9,235.0	89.80	178.00	5,362.2	-4,250.6	-78.4	4,251.3	1.82	1.29	-1.29	
9,267.0	89.90	178.00	5,362.3	-4,282.5	-77.3	4,283.2	0.31	0.31	0.00	
9,298.0	89.80	177.80	5,362.3	-4,313.5	-76.1	4,314.2	0.72	-0.32	-0.65	
9,330.0	90.00	178.00	5,362.4	-4,345.5	-75.0	4,346.1	0.88	0.63	0.63	
9,361.0	90.40	177.70	5,362.3	-4,376.5	-73.8	4,377.1	1.61	1.29	-0.97	
9,393.0	90.90	177.30	5,361.9	-4,408.4	-72.4	4,409.0	2.00	1.56	-1.25	
9,424.0	92.10	177.30	5,361.1	-4,439.4	-71.0	4,439.9	3.87	3.87	0.00	
9,456.0	92.70	177.00	5,359.8	-4,471.3	-69.4	4,471.8	2.10	1.88	-0.94	
9,487.0	91.90	177.30	5,358.5	-4,502.3	-67.8	4,502.7	2.76	-2.58	0.97	
9,519.0	91.60	178.00	5,357.6	-4,534.2	-66.5	4,534.6	2.38	-0.94	2.19	
9,550.0	90.70	178.80	5,356.9	-4,565.2	-65.6	4,565.6	3.88	-2.90	2.58	
9,582.0	91.00	179.20	5,356.5	-4,597.2	-65.1	4,597.5	1.56	0.94	1.25	
9,613.0	90.80	178.70	5,356.0	-4,628.2	-64.5	4,628.5	1.74	-0.65	-1.61	
9,645.0	90.40	178.90	5,355.6	-4,660.2	-63.9	4,660.5	1.40	-1.25	0.63	
9,665.0	91.10	179.20	5,355.4	-4,680.2	-63.5	4,680.5	3.81	3.50	1.50	
Last Archer MWD Survey										

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41
Project:	Ford County (KS27S)	TVD Reference:	WELL @ 2632.0usft (Original Well Elev)
Site:	Sec 19-T29S-R24W	MD Reference:	WELL @ 2632.0usft (Original Well Elev)
Well:	Marks 2924 1-19H/ Job #04069-431-22/ Lariat 41	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
9,720.0	91.10	179.20	5,354.3	-4,735.2	-62.8	4,735.4	0.00	0.00	0.00
Projection to TD - PBHL Marks 1-19H									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,411.0	1,411.0	-2.9	2.3	First Archer MWD Survey
9,665.0	5,355.4	-4,680.2	-63.5	Last Archer MWD Survey
9,720.0	5,354.3	-4,735.2	-62.8	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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