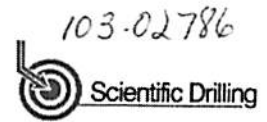




Scientific Drilling
Survey Report



Company: Stone Energy	Local Co-ordinate Reference: Well Lemons #6H - Slot Lemons #6H
Project: Heather Prospect (NAD 27)	TVD Reference: Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Site: Lemons Pad - Wetzel County, PA	MD Reference: Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Well: Lemons #6H	North Reference: Grid
Wellbore: Original Well	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: NorthEastDatabase

Project	Heather Prospect (NAD 27), Wetzel County, West Virginia		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		

Site Lemons Pad - Wetzel County, PA			
Site Position:	Northing: 421,856.00 usft	Latitude:	39° 39' 3.725 N
From: Map	Easting: 1,635,675.00 usft	Longitude:	80° 47' 38.145 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence:	-0.83 °

Well Lemons #6H - Slot Lemons #6H			
Well Position	+N/-S 0.0 usft	Northing: 421,872.00 usft	Latitude: 39° 39' 3.889 N
	+E/-W 0.0 usft	Easting: 1,635,716.00 usft	Longitude: 80° 47' 37.624 W
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 1,327.0 usft

Wellbore Original Well					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/11/05	-8.48	67.25	52,675

Design As Drilled					
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	150.43	

Survey Program Date 2012/11/28					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
108.0	5,008.4	SDI Keeper Gyro (Original Well)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
5,077.0	7,456.0	SDI MWD - Curve (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	
7,488.0	12,355.0	SDI MWD - Lateral (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	

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	
108.0	0.93	27.71	108.0	0.8	0.4	-0.5	0.86	0.86	0.00	
First SDI Gyro Survey										
208.0	0.79	54.36	208.0	1.9	1.3	-1.0	0.42	-0.14	26.65	
308.0	0.40	59.79	308.0	2.5	2.2	-1.1	0.39	-0.39	5.43	
408.0	0.33	92.60	408.0	2.6	2.8	-0.9	0.22	-0.07	32.81	
508.0	0.44	114.66	508.0	2.5	3.4	-0.4	0.18	0.11	22.06	
608.0	0.48	127.84	608.0	2.0	4.1	0.3	0.11	0.04	13.18	
708.0	0.40	129.51	708.0	1.6	4.7	1.0	0.08	-0.08	1.67	



Scientific Drilling
Survey Report

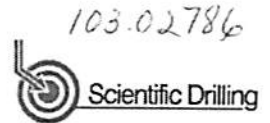
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Scientific Drilling

Company: Stone Energy	Local Co-ordinate Reference: Well Lemons #6H - Slot Lemons #6H
Project: Heather Prospect (NAD 27)	TVD Reference: Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Site: Lemons Pad - Wetzel County, PA	MD Reference: Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Well: Lemons #6H	North Reference: Grid
Wellbore: Original Well	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: NorthEastDatabase

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)
808.0	0.10	148.71	808.0	1.3	5.0	1.4	0.31	-0.30	19.20
908.0	0.17	172.35	908.0	1.0	5.1	1.6	0.09	0.07	23.64
1,008.0	0.16	99.20	1,008.0	0.9	5.3	1.8	0.20	-0.01	-73.15
1,108.0	0.14	116.50	1,108.0	0.8	5.5	2.0	0.05	-0.02	17.30
1,208.0	0.17	107.21	1,208.0	0.7	5.7	2.2	0.04	0.03	-9.29
1,308.0	0.18	110.72	1,308.0	0.6	6.0	2.5	0.01	0.01	3.51
1,408.0	0.07	101.04	1,408.0	0.5	6.2	2.6	0.11	-0.11	-9.68
1,508.0	0.05	171.29	1,508.0	0.5	6.3	2.7	0.07	-0.02	70.25
1,608.0	0.13	120.76	1,608.0	0.4	6.4	2.8	0.11	0.08	-50.53
1,708.0	0.25	105.00	1,708.0	0.3	6.7	3.1	0.13	0.12	-15.76
1,808.0	0.23	105.94	1,808.0	0.2	7.1	3.4	0.02	-0.02	0.94
1,908.0	0.32	84.01	1,908.0	0.1	7.6	3.6	0.14	0.09	-21.93
2,008.0	0.33	71.93	2,008.0	0.2	8.1	3.8	0.07	0.01	-12.08
2,108.0	0.48	11.29	2,108.0	0.7	8.5	3.5	0.43	0.15	-60.64
2,208.0	0.40	8.69	2,208.0	1.5	8.6	3.0	0.08	-0.08	-2.60
2,308.0	0.50	13.58	2,308.0	2.3	8.8	2.4	0.11	0.10	4.89
2,408.0	0.66	28.70	2,407.9	3.2	9.2	1.7	0.22	0.16	15.12
2,508.0	0.86	47.58	2,507.9	4.2	10.0	1.3	0.32	0.20	18.88
2,608.0	0.74	37.59	2,607.9	5.2	11.0	0.9	0.18	-0.12	-9.99
2,708.0	0.84	47.53	2,707.9	6.2	11.9	0.4	0.17	0.10	9.94
2,808.0	1.14	121.70	2,807.9	6.2	13.3	1.1	1.22	0.30	74.17
2,908.0	2.71	136.09	2,907.8	4.0	15.8	4.3	1.63	1.57	14.39
3,008.0	3.38	133.99	3,007.7	0.2	19.5	9.4	0.68	0.67	-2.10
3,108.0	4.13	136.84	3,107.5	-4.4	24.1	15.8	0.77	0.75	2.85
3,208.0	4.55	136.56	3,207.2	-9.9	29.3	23.1	0.42	0.42	-0.28
3,308.0	4.43	132.31	3,306.9	-15.4	34.9	30.6	0.35	-0.12	-4.25
3,408.0	4.37	127.50	3,406.6	-20.3	40.8	37.8	0.37	-0.06	-4.81
3,508.0	4.30	124.59	3,506.3	-24.8	46.9	44.7	0.23	-0.07	-2.91
3,608.0	4.18	132.42	3,606.0	-29.4	52.6	51.5	0.59	-0.12	7.83
3,708.0	4.13	138.53	3,705.8	-34.5	57.7	58.5	0.45	-0.05	6.11
3,808.0	4.09	136.81	3,805.5	-39.8	62.5	65.5	0.13	-0.04	-1.72
3,908.0	4.09	137.05	3,905.3	-45.0	67.4	72.4	0.02	0.00	0.24
4,008.0	4.09	129.92	4,005.0	-49.9	72.6	79.3	0.51	0.00	-7.13
4,108.0	3.83	128.81	4,104.8	-54.3	77.9	85.7	0.27	-0.26	-1.11
4,208.0	3.66	123.66	4,204.6	-58.2	83.2	91.7	0.38	-0.17	-5.15
4,308.0	2.37	112.99	4,304.4	-60.8	87.7	96.1	1.40	-1.29	-10.67
4,408.0	1.95	126.36	4,404.4	-62.6	91.0	99.3	0.65	-0.42	13.37
4,508.0	1.87	137.30	4,504.3	-64.8	93.5	102.5	0.37	-0.08	10.94
4,608.0	1.24	147.96	4,604.3	-66.9	95.2	105.2	0.69	-0.63	10.66
4,708.0	0.58	164.12	4,704.2	-68.3	95.9	106.7	0.70	-0.66	16.16
4,808.0	0.68	193.80	4,804.2	-69.4	95.9	107.7	0.34	0.10	29.68
4,908.0	0.94	187.52	4,904.2	-70.8	95.6	108.7	0.27	0.26	-6.28
5,008.0	1.27	178.68	5,004.2	-72.7	95.5	110.4	0.37	0.33	-8.84



Scientific Drilling
Survey Report

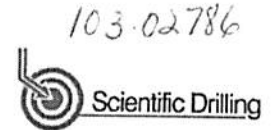


Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #6H - Slot Lemons #6H
Project:	Heather Prospect (NAD 27)	TVD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Site:	Lemons Pad - Wetzel County, PA	MD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Well:	Lemons #6H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

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)	
5,008.4	1.28	178.91	5,004.6	-72.7	95.5	110.4	2.70	2.38	57.16	
Last SDI Gyro Survey										
5,077.0	2.05	152.78	5,073.2	-74.5	96.1	112.3	1.55	1.12	-38.09	
First SDI MWD Survey										
5,141.0	1.91	149.94	5,137.1	-76.5	97.2	114.5	0.27	-0.22	-4.44	
5,204.0	1.21	138.44	5,200.1	-77.9	98.1	116.2	1.21	-1.11	-18.25	
5,268.0	0.84	135.24	5,264.1	-78.7	98.9	117.3	0.58	-0.58	-5.00	
5,332.0	0.55	141.62	5,328.1	-79.3	99.4	118.1	0.47	-0.45	9.97	
5,395.0	0.35	148.14	5,391.1	-79.7	99.7	118.5	0.33	-0.32	10.35	
5,458.0	0.35	149.77	5,454.1	-80.0	99.9	118.9	0.02	0.00	2.59	
5,521.0	0.12	163.51	5,517.1	-80.3	100.0	119.2	0.37	-0.37	21.81	
5,585.0	0.30	175.85	5,581.1	-80.5	100.1	119.4	0.29	0.28	19.28	
5,648.0	0.27	236.47	5,644.1	-80.7	100.0	119.6	0.46	-0.05	96.22	
5,712.0	0.24	271.96	5,708.1	-80.8	99.7	119.5	0.25	-0.05	55.45	
5,775.0	0.26	243.25	5,771.1	-80.9	99.4	119.4	0.20	0.03	-45.57	
5,839.0	0.45	274.88	5,835.1	-80.9	99.1	119.3	0.42	0.30	49.42	
5,902.0	0.35	285.70	5,898.1	-80.9	98.6	119.0	0.20	-0.16	17.17	
5,964.0	0.05	320.10	5,960.1	-80.8	98.4	118.8	0.50	-0.48	55.48	
5,994.0	1.17	122.05	5,990.1	-80.9	98.7	119.1	4.06	3.73	539.83	
6,025.0	2.95	127.21	6,021.1	-81.6	99.6	120.1	5.77	5.74	16.65	
6,056.0	4.75	126.99	6,052.0	-82.8	101.3	122.0	5.81	5.81	-0.71	
6,086.0	6.45	125.88	6,081.8	-84.6	103.6	124.7	5.68	5.67	-3.70	
6,117.0	8.05	121.90	6,112.6	-86.7	106.9	128.2	5.41	5.16	-12.84	
6,147.0	9.74	121.81	6,142.2	-89.2	110.8	132.3	5.63	5.63	-0.30	
6,178.0	11.70	123.64	6,172.7	-92.3	115.7	137.4	6.42	6.32	5.90	
6,209.0	13.54	127.96	6,202.9	-96.3	121.1	143.5	6.67	5.94	13.94	
6,239.0	15.35	131.74	6,232.0	-101.1	126.9	150.5	6.80	6.03	12.60	
6,270.0	17.51	133.56	6,261.7	-107.0	133.3	158.9	7.16	6.97	5.87	
6,301.0	20.12	132.55	6,291.1	-113.9	140.6	168.4	8.48	8.42	-3.26	
6,332.0	22.18	131.48	6,320.0	-121.3	148.9	179.0	6.76	6.65	-3.45	
6,362.0	23.85	131.53	6,347.6	-129.1	157.7	190.1	5.57	5.57	0.17	
6,393.0	25.80	131.67	6,375.7	-137.8	167.4	202.4	6.20	6.29	0.45	
6,424.0	27.88	131.38	6,403.4	-147.0	177.9	215.7	6.72	6.71	-0.94	
6,454.0	30.21	132.18	6,429.6	-156.7	188.8	229.5	7.87	7.77	2.67	
6,485.0	31.90	131.90	6,456.2	-167.4	200.7	244.7	5.47	5.45	-0.90	
6,516.0	34.04	132.07	6,482.2	-178.7	213.2	260.7	6.91	6.90	0.55	
6,547.0	36.02	131.20	6,507.6	-190.6	226.5	277.5	6.59	6.39	-2.81	
6,577.0	38.46	129.99	6,531.4	-202.4	240.3	294.6	8.49	8.13	-4.03	
6,607.0	41.19	129.61	6,554.5	-214.7	255.0	312.6	9.14	9.10	-1.27	
6,638.0	43.56	129.62	6,577.4	-228.0	271.1	332.1	7.65	7.65	0.03	
6,669.0	45.48	129.78	6,599.5	-241.9	287.9	352.4	6.20	6.19	0.52	
6,699.0	47.15	130.21	6,620.2	-255.8	304.5	372.7	5.66	5.57	1.43	
6,729.0	49.12	130.76	6,640.2	-270.3	321.5	393.7	6.71	6.57	1.83	
6,760.0	51.05	131.58	6,660.1	-286.0	339.4	416.2	6.55	6.23	2.65	



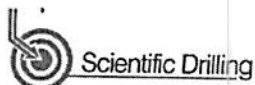
Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #6H - Slot Lemons #6H
Project:	Heather Prospect (NAD 27)	TVD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Site:	Lemons Pad - Wetzel County, PA	MD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Well:	Lemons #6H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

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)	
6,790.0	53.05	131.65	6,678.6	-301.7	357.0	438.6	6.67	6.67	0.27	
6,821.0	54.75	131.65	6,696.8	-318.3	375.8	462.3	5.48	5.48	-0.03	
6,853.0	56.72	130.79	6,714.8	-335.7	395.7	487.3	6.54	6.16	-2.69	
6,885.0	58.56	130.68	6,732.0	-353.4	416.1	512.7	5.76	5.75	-0.34	
6,916.0	60.11	130.61	6,747.8	-370.8	436.4	537.8	5.00	5.00	-0.23	
6,948.0	61.01	130.11	6,763.5	-388.8	457.6	564.0	3.12	2.81	-1.56	
6,980.0	61.92	130.20	6,778.8	-406.9	479.1	590.4	2.85	2.84	0.28	
7,012.0	63.41	131.96	6,793.5	-425.6	500.5	617.2	6.75	4.66	5.50	
7,044.0	65.34	133.71	6,807.3	-445.2	521.7	644.7	7.79	6.03	5.47	
7,075.0	67.01	135.15	6,819.8	-465.1	541.9	671.9	6.86	5.39	4.65	
7,107.0	68.54	137.45	6,831.9	-486.5	562.4	700.7	8.19	4.78	7.19	
7,139.0	70.13	139.77	6,843.2	-509.0	582.2	730.0	8.41	4.97	7.25	
7,171.0	71.90	141.72	6,853.7	-532.4	601.3	759.8	7.99	5.53	6.09	
7,203.0	73.45	144.10	6,863.2	-556.8	619.7	790.1	6.59	4.84	7.44	
7,234.0	75.01	145.48	6,871.6	-581.1	636.9	819.8	6.61	5.03	4.45	
7,266.0	77.08	146.33	6,879.3	-606.8	654.3	850.7	6.96	6.47	2.66	
7,298.0	78.59	147.31	6,886.1	-633.0	671.4	881.9	5.59	4.72	3.06	
7,329.0	80.28	148.50	6,891.8	-658.8	687.6	912.4	6.63	5.45	3.84	
7,361.0	82.19	149.88	6,896.6	-686.0	703.8	944.0	7.33	5.97	4.31	
7,393.0	84.33	151.06	6,900.4	-713.6	719.5	975.8	7.62	6.69	3.69	
7,424.0	85.35	152.02	6,903.2	-740.8	734.2	1,006.6	4.51	3.29	3.10	
7,456.0	86.54	152.66	6,905.4	-769.1	749.0	1,038.5	4.22	3.72	2.00	
7,488.0	89.13	153.53	6,906.6	-797.6	763.5	1,070.5	6.54	6.09	2.72	
7,520.0	90.77	154.49	6,906.7	-826.3	777.5	1,102.4	5.94	5.13	3.00	
7,584.0	90.91	154.68	6,905.7	-834.1	805.0	1,166.2	0.37	0.22	0.30	
7,647.0	90.84	154.21	6,904.8	-941.0	832.2	1,229.1	0.75	-0.11	-0.75	
7,711.0	89.60	152.92	6,904.5	-998.3	860.6	1,293.0	2.80	-1.94	-2.02	
7,774.0	87.72	151.55	6,906.0	-1,054.0	890.0	1,355.9	3.69	-2.98	-2.17	
7,838.0	88.35	151.85	6,908.2	-1,110.3	920.3	1,419.9	1.09	0.98	0.47	
7,902.0	89.33	152.47	6,909.5	-1,166.9	950.2	1,483.8	1.81	1.53	0.97	
7,966.0	90.47	153.51	6,909.6	-1,223.9	979.3	1,547.8	2.41	1.78	1.63	
8,029.0	91.44	153.23	6,908.6	-1,280.2	1,007.5	1,610.7	1.60	1.54	-0.44	
8,093.0	90.44	153.22	6,907.5	-1,337.4	1,036.3	1,674.6	1.56	-1.56	-0.02	
8,156.0	91.04	152.98	6,906.7	-1,393.5	1,064.8	1,737.5	1.03	0.95	-0.38	
8,219.0	90.50	151.48	6,905.8	-1,449.3	1,094.2	1,800.5	2.53	-0.86	-2.38	
8,283.0	91.01	151.71	6,905.0	-1,505.6	1,124.6	1,864.4	0.87	0.80	0.36	
8,346.0	90.27	151.60	6,904.3	-1,561.0	1,154.5	1,927.4	1.19	-1.17	-0.17	
8,409.0	90.81	151.21	6,903.7	-1,616.3	1,184.7	1,990.4	1.06	0.86	-0.62	
8,473.0	90.34	151.70	6,903.1	-1,672.5	1,215.2	2,054.4	1.06	-0.73	0.77	
8,537.0	90.81	151.65	6,902.4	-1,728.9	1,245.6	2,118.4	0.74	0.73	-0.08	
8,600.0	90.27	150.78	6,901.8	-1,784.1	1,275.9	2,181.4	1.63	-0.86	-1.38	
8,664.0	90.54	150.52	6,901.4	-1,839.9	1,307.3	2,245.4	0.59	0.42	-0.41	
8,728.0	89.43	150.29	6,901.4	-1,895.5	1,338.9	2,309.4	1.77	-1.73	-0.36	

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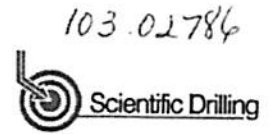


Company: Stone Energy	Local Co-ordinate Reference: Well Lemons #6H - Slot Lemons #6H
Project: Heather Prospect (NAD 27)	TVD Reference: Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Site: Lemons Pad - Wetzel County, PA	MD Reference: Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Well: Lemons #6H	North Reference: Grid
Wellbore: Original Well	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: NorthEastDatabase

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)	
8,791.0	90.03	150.05	6,901.7	-1,950.2	1,370.3	2,372.4	1.03	0.95	-0.38	
8,855.0	90.64	150.20	6,901.3	-2,005.7	1,402.1	2,436.4	0.98	0.95	0.23	
8,919.0	90.10	152.14	6,900.9	-2,061.7	1,433.0	2,500.4	3.15	-0.84	3.03	
8,983.0	89.30	152.25	6,901.2	-2,118.3	1,462.8	2,564.3	1.26	-1.25	0.17	
9,046.0	90.87	152.58	6,901.1	-2,174.2	1,492.0	2,627.3	2.55	2.49	0.52	
9,110.0	91.64	152.07	6,899.7	-2,230.8	1,521.7	2,691.2	1.44	1.20	-0.80	
9,174.0	90.67	152.88	6,898.4	-2,287.6	1,551.3	2,755.2	1.97	-1.52	1.27	
9,238.0	91.21	152.76	6,897.4	-2,344.5	1,580.5	2,819.1	0.86	0.84	-0.19	
9,301.0	90.20	151.84	6,896.6	-2,400.3	1,609.8	2,882.1	2.17	-1.60	-1.46	
9,365.0	89.53	151.25	6,896.8	-2,456.5	1,640.3	2,946.1	1.39	-1.05	-0.92	
9,429.0	90.37	152.12	6,896.8	-2,512.9	1,670.7	3,010.0	1.89	1.31	1.36	
9,492.0	89.46	153.45	6,896.9	-2,568.9	1,699.5	3,073.0	2.56	-1.44	2.11	
9,556.0	90.13	152.91	6,897.1	-2,626.0	1,728.4	3,136.9	1.34	1.05	-0.84	
9,619.0	90.67	152.43	6,896.7	-2,682.0	1,757.3	3,199.9	1.15	0.86	-0.76	
9,683.0	89.90	153.19	6,896.4	-2,738.9	1,786.5	3,263.8	1.69	-1.20	1.19	
9,746.0	90.30	154.10	6,896.3	-2,795.4	1,814.5	3,326.7	1.58	0.63	1.44	
9,810.0	89.97	155.59	6,896.1	-2,853.3	1,841.7	3,390.5	2.38	-0.52	2.33	
9,874.0	90.71	156.12	6,895.8	-2,911.7	1,867.9	3,454.2	1.42	1.16	0.83	
9,937.0	91.37	156.10	6,894.6	-2,969.3	1,893.4	3,516.9	1.05	1.05	-0.03	
10,001.0	90.70	155.17	6,893.5	-3,027.6	1,919.8	3,580.6	1.79	-1.05	-1.45	
10,064.0	91.17	155.31	6,892.4	-3,084.8	1,946.2	3,643.4	0.78	0.75	0.22	
10,128.0	90.24	155.67	6,891.6	-3,143.0	1,972.7	3,707.1	1.56	-1.45	0.56	
10,191.0	90.97	156.24	6,891.0	-3,200.5	1,998.4	3,769.8	1.47	1.16	0.90	
10,254.0	89.80	156.47	6,890.5	-3,258.2	2,023.6	3,832.5	1.89	-1.86	0.37	
10,318.0	90.77	157.41	6,890.2	-3,317.1	2,048.7	3,896.1	2.11	1.52	1.47	
10,381.0	89.53	156.84	6,890.1	-3,375.2	2,073.2	3,958.7	2.17	-1.97	-0.90	
10,445.0	88.79	155.55	6,891.0	-3,433.7	2,099.0	4,022.3	2.32	-1.16	-2.02	
10,508.0	89.60	155.03	6,891.9	-3,490.9	2,125.4	4,085.1	1.53	1.29	-0.83	
10,572.0	89.80	154.92	6,892.2	-3,548.9	2,152.4	4,148.9	0.36	0.31	-0.17	
10,635.0	89.90	153.77	6,892.4	-3,605.7	2,179.7	4,211.7	1.83	0.16	-1.83	
10,699.0	89.97	153.26	6,892.5	-3,663.0	2,208.3	4,275.6	0.80	0.11	-0.80	
10,763.0	90.44	151.71	6,892.2	-3,719.8	2,237.8	4,339.6	2.53	0.73	-2.42	
10,827.0	90.57	150.38	6,891.7	-3,775.8	2,268.8	4,403.6	2.09	0.20	-2.08	
10,890.0	90.64	148.31	6,891.0	-3,829.9	2,300.9	4,466.6	3.29	0.11	-3.29	
10,954.0	90.77	147.29	6,890.2	-3,884.1	2,335.0	4,530.5	1.81	0.20	-1.59	
11,017.0	90.64	148.72	6,889.4	-3,937.5	2,368.4	4,593.4	2.28	-0.21	2.27	
11,081.0	91.38	148.86	6,888.3	-3,992.2	2,401.6	4,657.4	1.18	1.16	0.22	
11,144.0	90.27	149.69	6,887.4	-4,046.4	2,433.7	4,720.4	2.20	-1.76	1.32	
11,208.0	90.64	149.39	6,886.9	-4,101.6	2,466.2	4,784.4	0.74	0.58	-0.47	
11,272.0	89.97	150.73	6,886.6	-4,157.0	2,498.1	4,848.4	2.34	-1.05	2.09	
11,335.0	90.50	150.61	6,886.3	-4,211.9	2,529.0	4,911.4	0.86	0.84	-0.19	
11,399.0	90.03	151.07	6,886.0	-4,267.8	2,560.2	4,975.4	1.03	-0.73	0.72	
11,462.0	90.67	151.35	6,885.6	-4,323.0	2,590.5	5,038.4	1.11	1.02	0.44	
11,526.0	91.64	151.80	6,884.3	-4,379.3	2,621.0	5,102.3	1.67	1.52	0.70	



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #6H - Slot Lemons #6H
Project:	Heather Prospect (NAD 27)	TVD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Site:	Lemons Pad - Wetzell County, PA	MD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Well:	Lemons #6H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

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)	
11,590.0	90.57	152.87	6,883.1	-4,436.0	2,650.7	5,166.3	2.36	-1.67	1.67	
11,653.0	91.54	154.29	6,881.9	-4,492.4	2,678.7	5,229.2	2.73	-1.54	2.25	
11,717.0	90.37	155.64	6,880.9	-4,550.4	2,705.8	5,293.0	2.79	-1.83	2.11	
11,780.0	89.90	156.86	6,880.7	-4,608.0	2,731.1	5,355.6	2.08	-0.75	1.94	
11,843.0	90.20	156.02	6,880.7	-4,665.8	2,756.3	5,418.3	1.42	0.48	-1.33	
11,907.0	91.88	156.36	6,879.5	-4,724.3	2,782.2	5,482.0	2.68	2.63	0.53	
11,971.0	90.61	156.17	6,878.1	-4,782.9	2,807.9	5,545.6	2.01	-1.98	-0.30	
12,034.0	91.07	156.33	6,877.2	-4,840.5	2,833.3	5,608.3	0.77	0.73	0.25	
12,098.0	90.97	158.12	6,876.0	-4,899.5	2,858.1	5,671.8	2.80	-0.16	2.80	
12,161.0	91.38	157.22	6,874.8	-4,957.8	2,882.0	5,734.3	1.57	0.65	-1.43	
12,225.0	90.13	156.80	6,873.9	-5,016.7	2,907.0	5,797.9	2.06	-1.95	-0.66	
12,283.0	90.84	157.98	6,873.4	-5,070.3	2,929.3	5,855.5	2.37	1.22	2.03	
Last SDI MWD Survey										
12,355.0	90.84	157.98	6,872.4	-5,137.0	2,956.3	5,926.8	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
108.0	108.0	0.8	0.4	First SDI Gyro Survey	
5,008.4	5,004.6	-72.7	95.5	Last SDI Gyro Survey	
5,077.0	5,073.2	-74.5	96.1	First SDI MWD Survey	
12,283.0	6,873.4	-5,070.3	2,929.3	Last SDI MWD Survey	
12,355.0	6,872.4	-5,137.0	2,956.3	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____