



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemoris #3H - Slot Lemons #3H
Project:	Mary Prospect	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 #3H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastDatabase

Project:	Mary Prospect, 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:	Map	Northing:	421,856.00 usft	Latitude:	39° 39' 3.725 N
From:		Easting:	1,635,675.00 usft	Longitude:	80° 47' 38.145 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.63 °

Well:	Lemons #3H - Slot Lemons #3H					
Well Position	+N-S	0.0 usft	Northing:	421,871.00 usft	Latitude:	39° 39' 3.875 N
	+E-W	0.0 usft	Easting:	1,635,688.00 usft	Longitude:	80° 47' 37.681 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
	IGRF2010	2012/11/14	-8.48	67.25	52.672
			(°)	(°)	(nT)

Design:	As Drilled				
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	308.60	

Survey Program	Date	2013/01/08			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
108.0	4,924.5	SDI Keeper Gyro (Original Well)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
5,011.0	7,952.0	Survey #2 - MWD (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	
8,015.0	11,993.0	Survey #3 - Lateral (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	

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	0.33	41.81	108.0	0.2	0.2	0.0	0.31	0.31	0.00	
First SDI Gyro Survey										
208.0	0.28	61.92	208.0	0.6	0.6	-0.2	0.12	-0.05	20.31	
308.0	0.19	69.84	308.0	0.7	1.0	-0.3	0.10	-0.09	7.92	
408.0	0.15	114.44	408.0	0.7	1.3	-0.6	0.13	-0.04	44.60	
508.0	0.17	168.34	508.0	0.5	1.4	-0.8	0.15	0.02	53.90	
608.0	0.23	126.68	608.0	0.3	1.6	-1.1	0.15	0.06	-41.66	
708.0	0.25	102.37	708.0	0.1	2.0	-1.5	0.10	0.02	-24.31	



Scientific Drilling
Survey Report



Company: Stone Energy	Local Co-ordinate Reference: Well Lemons #3H - Slot Lemons #3H
Project: Mary Prospect	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 #3H	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	0.05	188.91	808.0	0.0	2.2	-1.7	0.25	-0.20	88.54
908.0	0.19	151.48	908.0	-0.2	2.3	-1.9	0.15	0.14	-37.43
1,008.0	0.31	159.52	1,008.0	-0.6	2.4	-2.3	0.12	0.12	8.04
1,108.0	0.09	73.13	1,108.0	-0.8	2.6	-2.6	0.32	-0.22	-88.39
1,208.0	0.08	109.38	1,208.0	-0.8	2.7	-2.7	0.05	-0.03	36.25
1,308.0	0.17	50.88	1,308.0	-0.7	2.9	-2.7	0.15	0.11	-58.52
1,408.0	0.11	62.31	1,408.0	-0.8	3.1	-2.6	0.07	-0.08	11.45
1,508.0	0.23	47.87	1,508.0	-0.4	3.3	-2.9	0.13	0.12	-14.44
1,608.0	0.20	52.62	1,608.0	-0.2	3.6	-3.0	0.03	-0.03	4.75
1,708.0	0.18	80.66	1,708.0	0.0	3.9	-3.1	0.09	-0.02	28.04
1,808.0	0.12	78.33	1,808.0	0.0	4.2	-3.3	0.06	-0.06	-2.33
1,908.0	0.20	66.39	1,908.0	0.1	4.4	-3.5	0.09	0.08	-11.94
2,008.0	0.27	66.43	2,008.0	0.3	4.8	-3.7	0.07	0.07	0.04
2,108.0	0.58	21.73	2,108.0	0.8	5.2	-3.7	0.43	0.31	-44.70
2,208.0	0.54	36.94	2,208.0	1.7	5.7	-3.5	0.15	-0.04	15.21
2,308.0	0.64	48.01	2,308.0	2.4	6.4	-3.7	0.16	0.10	12.07
2,408.0	1.18	58.06	2,408.0	3.3	7.7	-4.1	0.56	0.54	9.05
2,508.0	1.33	51.85	2,507.9	4.6	9.5	-4.8	0.20	0.15	-6.21
2,608.0	1.28	47.57	2,607.9	6.1	11.2	-5.3	0.11	-0.05	-4.28
2,708.0	1.15	49.67	2,707.9	7.5	12.8	-5.8	0.14	-0.13	2.10
2,808.0	1.89	252.38	2,807.9	7.7	12.1	-5.1	2.79	0.54	-157.31
2,908.0	3.48	260.05	2,907.8	6.7	7.7	-2.2	1.82	1.79	7.69
3,008.0	3.37	280.97	3,007.6	6.7	1.9	2.5	1.25	-0.11	20.92
3,108.0	4.22	287.18	3,107.4	8.4	-4.5	8.6	0.84	0.85	6.21
3,208.0	3.97	287.63	3,207.1	10.5	-11.3	15.4	0.25	-0.25	0.45
3,308.0	4.85	293.91	3,306.8	13.3	-18.5	22.8	1.00	0.88	6.28
3,408.0	4.77	300.93	3,406.5	17.1	-25.9	31.0	0.59	-0.08	7.02
3,508.0	4.85	308.20	3,506.1	21.7	-32.8	39.2	0.45	-0.12	5.27
3,608.0	4.39	308.19	3,605.8	26.4	-39.1	47.1	0.30	-0.26	1.99
3,708.0	4.54	309.20	3,705.5	31.3	-45.1	54.9	0.17	0.15	1.01
3,808.0	5.03	309.64	3,805.2	36.6	-51.6	63.2	0.49	0.49	0.44
3,908.0	4.36	309.21	3,804.8	41.8	-57.9	71.4	0.67	-0.67	-0.43
4,008.0	2.08	299.91	4,004.7	45.1	-62.4	77.0	2.33	-2.28	-9.40
4,108.0	1.87	306.39	4,104.6	47.0	-65.3	80.4	0.31	-0.21	6.58
4,208.0	1.71	309.68	4,204.8	48.9	-67.8	83.5	0.19	-0.16	3.29
4,308.0	0.85	271.44	4,304.5	48.9	-69.7	85.7	1.13	-0.78	-38.24
4,408.0	0.62	299.39	4,404.5	50.1	-71.0	86.9	0.50	-0.33	27.95
4,508.0	0.58	318.42	4,504.5	50.8	-71.8	88.0	0.20	-0.04	19.03
4,608.0	0.21	82.05	4,604.5	51.3	-72.0	88.4	0.66	-0.37	103.63
4,708.0	0.81	101.25	4,704.5	51.2	-71.2	87.7	0.66	0.60	39.20
4,808.0	1.34	100.41	4,804.5	50.9	-69.3	86.0	0.53	0.53	-0.84
4,908.0	0.26	53.46	4,904.5	50.8	-68.0	84.9	1.18	-1.08	-46.95
4,924.5	0.24	62.32	4,921.0	50.8	-67.9	84.8	0.26	-0.12	53.76

103-02711



Scientific Drilling
Survey Report



Company: Stone Energy	Local Co-ordinate Reference:	Well: Lemons #3H - Slot Lemons #3H
Project: Mary Prospect	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 #3H	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)
Survey									
Last SDI Gyro Survey									
5,011.0	0.74	71.82	5,007.5	51.1	-67.2	84.4	0.58	0.58	10.98
Flat SDI MWD Survey									
5,074.0	0.57	67.21	5,070.5	51.3	-66.6	84.0	0.28	-0.27	-7.32
5,138.0	0.48	35.24	5,134.5	51.7	-68.1	83.9	0.47	-0.14	-48.85
5,202.0	0.48	15.59	5,188.5	52.1	-65.9	84.0	0.26	0.00	-30.70
5,285.0	0.47	4.40	5,261.5	52.7	-65.6	84.2	0.15	-0.02	-17.76
5,329.0	0.52	340.14	5,325.5	53.2	-65.9	84.6	0.33	0.08	-37.91
5,393.0	0.56	331.13	5,389.5	53.7	-68.1	85.1	0.15	0.08	-14.08
5,458.0	0.67	328.67	5,452.5	54.3	-66.5	85.8	0.18	0.17	-3.80
5,520.0	0.72	331.53	5,516.5	55.0	-68.9	86.5	0.10	0.08	4.47
5,581.0	0.68	312.01	5,577.4	55.8	-67.3	87.2	0.39	-0.07	-32.00
5,641.0	0.60	303.10	5,637.4	58.0	-67.8	87.8	0.21	-0.13	-14.85
5,702.0	0.77	317.82	5,698.4	56.5	-68.4	88.6	0.40	0.28	24.13
5,763.0	1.27	289.94	5,759.4	57.0	-69.3	89.6	1.13	0.82	-45.71
5,794.0	2.62	289.18	5,780.4	57.3	-70.3	90.6	4.38	4.35	-2.45
5,824.0	4.18	290.98	5,820.4	58.0	-71.9	92.3	5.14	5.13	6.00
5,855.0	5.82	280.11	5,851.2	58.9	-74.5	94.9	5.38	5.35	-2.81
5,885.0	7.06	280.38	5,881.0	60.1	-77.6	98.1	4.13	4.13	0.90
5,916.0	8.47	291.38	5,911.8	61.6	-81.5	102.2	4.57	4.56	3.23
5,947.0	9.66	292.08	5,942.4	63.4	-86.1	106.9	3.85	3.84	2.19
5,977.0	11.05	293.79	5,971.9	65.5	-91.0	112.1	4.75	4.63	5.77
6,008.0	12.35	295.16	6,002.2	68.1	-98.8	118.3	4.29	4.19	4.42
6,038.0	13.50	296.83	6,031.5	71.0	-102.8	124.9	4.03	3.83	5.57
6,069.0	14.74	298.56	6,061.5	74.5	-109.5	132.3	4.22	4.00	5.58
6,099.0	15.74	301.20	6,090.5	78.5	-116.3	140.1	4.06	3.33	6.80
6,129.0	16.99	302.77	6,119.3	83.0	-123.5	148.6	4.42	4.17	5.23
6,160.0	18.60	304.16	6,148.8	88.2	-131.4	158.0	5.37	5.19	4.48
6,191.0	20.16	305.45	6,178.0	94.1	-139.8	168.3	5.22	5.03	4.16
6,221.0	21.94	305.75	6,208.0	100.3	-148.6	179.1	5.94	5.93	1.00
6,252.0	23.91	306.32	6,234.6	107.4	-158.3	191.2	6.40	6.35	1.84
6,282.0	25.89	307.07	6,261.8	115.0	-168.5	203.8	6.68	6.60	2.50
6,313.0	27.35	309.15	6,289.5	123.6	-179.4	217.7	5.59	4.71	6.71
6,344.0	28.70	309.71	6,316.9	132.8	-190.6	232.2	4.44	4.35	1.81
6,374.0	30.02	309.78	6,343.0	142.2	-202.0	248.9	4.40	4.40	0.23
6,405.0	31.93	310.05	6,369.6	152.5	-214.2	262.8	6.18	6.16	0.87
6,435.0	33.69	310.36	6,394.8	163.0	-226.6	279.1	5.89	5.97	1.03
6,466.0	35.54	312.31	6,420.3	174.6	-239.9	296.6	6.96	5.97	6.28
6,488.0	37.01	313.08	6,444.5	186.6	-252.9	314.3	5.13	4.90	2.57
6,528.0	38.93	313.35	6,488.2	199.3	-266.3	332.6	6.42	6.40	0.90
6,556.0	40.72	313.18	6,491.2	212.4	-280.3	351.7	5.98	5.97	-0.57
6,587.0	42.63	313.74	6,514.3	226.8	-295.3	372.2	6.28	6.16	1.81
6,617.0	44.28	313.92	6,536.1	240.9	-310.1	392.6	5.52	5.50	0.60
6,649.0	45.96	314.16	6,558.7	256.7	-326.4	415.1	5.28	5.25	0.75

103-02711



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #3H - Slot Lemons #3H
Project:	Mary Prospect	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 #3H	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)	Buid Rate (°/100usft)	Turn Rate (°/100usft)
6,680.0	47.45	314.73	6,580.0	272.5	-342.5	437.5	4.99	4.81	1.84
6,712.0	48.77	314.57	6,601.3	289.2	-359.5	481.1	4.14	4.13	-0.50
6,744.0	50.27	314.53	6,622.1	306.3	-376.8	485.2	4.89	4.89	-0.13
6,776.0	51.89	314.44	6,642.2	323.7	-394.6	509.9	5.07	5.06	-0.28
6,808.0	53.95	313.94	6,661.5	341.5	-412.9	535.2	6.56	6.44	-1.56
6,840.0	54.88	313.54	6,680.1	359.5	-431.7	581.0	3.08	2.91	-1.25
6,872.0	56.33	312.44	6,698.2	377.5	-451.0	587.3	5.35	4.53	-3.44
6,903.0	57.78	311.34	6,715.0	394.9	-470.4	613.2	5.54	4.88	-3.55
6,935.0	60.26	311.68	6,731.5	413.1	-490.9	640.5	7.80	7.75	1.08
6,987.0	62.04	311.70	6,747.0	431.7	-511.9	688.5	5.56	5.56	0.08
6,999.0	63.30	312.03	6,761.8	450.7	-533.0	698.8	4.04	3.94	1.03
7,030.0	64.58	311.84	6,775.3	469.3	-553.7	724.5	4.17	4.13	-0.61
7,062.0	65.67	312.45	6,788.7	488.8	-575.3	753.4	3.82	3.41	1.91
7,094.0	67.07	313.39	6,801.8	508.7	-598.7	782.6	5.14	4.38	2.94
7,126.0	68.26	315.17	6,813.7	529.4	-617.9	811.9	6.35	3.72	5.56
7,157.0	70.79	316.63	6,824.6	550.2	-638.1	840.6	9.28	8.16	4.71
7,189.0	72.44	317.12	6,834.7	572.4	-658.9	870.5	5.36	5.18	1.53
7,221.0	74.81	317.72	6,843.7	595.0	-679.7	900.7	7.62	7.41	1.88
7,253.0	77.04	318.09	6,851.5	618.0	-700.5	931.1	7.08	6.97	1.16
7,285.0	80.15	319.25	6,857.8	641.6	-721.2	961.8	10.35	9.72	3.63
7,317.0	83.17	320.25	6,862.4	665.8	-741.8	992.7	9.93	8.44	3.13
7,349.0	85.28	321.68	6,865.6	690.5	-761.7	1,023.5	7.90	6.53	4.47
7,380.0	86.17	322.34	6,868.0	714.9	-780.7	1,053.3	3.62	2.94	2.13
7,412.0	86.27	323.17	6,870.1	740.3	-800.0	1,084.0	2.61	0.31	2.59
7,444.0	85.16	325.34	6,872.5	766.2	-818.7	1,114.5	7.60	-3.47	6.78
7,476.0	85.66	326.74	6,875.0	792.6	-836.5	1,144.6	4.63	1.56	4.38
7,507.0	87.65	328.39	6,876.8	818.7	-853.1	1,173.5	8.33	6.42	5.32
7,571.0	90.40	331.25	6,877.9	874.0	-885.3	1,232.4	6.20	4.30	4.47
7,634.0	92.42	332.24	6,878.4	929.5	-915.1	1,289.5	3.57	3.21	1.57
7,698.0	92.89	331.99	6,873.4	986.0	-945.0	1,347.3	0.83	0.73	-0.39
7,762.0	92.42	332.66	6,870.4	1,042.6	-974.7	1,405.0	1.28	-0.73	1.05
7,825.0	92.18	333.54	6,867.9	1,098.8	-1,003.1	1,461.4	1.45	-0.38	1.40
7,888.0	92.42	333.23	6,865.4	1,155.1	-1,031.3	1,517.7	0.62	0.38	-0.49
7,952.0	92.01	333.93	6,862.9	1,212.3	-1,059.8	1,574.8	1.27	-0.64	1.09
8,015.0	92.12	334.47	6,860.6	1,269.0	-1,087.2	1,630.7	0.87	0.17	0.86
8,078.0	92.62	334.32	6,858.0	1,325.8	-1,114.4	1,688.5	0.83	0.79	-0.24
8,142.0	92.45	334.70	6,855.2	1,383.5	-1,141.9	1,743.1	0.85	-0.27	0.59
8,205.0	92.35	334.63	6,852.6	1,440.4	-1,168.8	1,798.7	0.19	-0.16	-0.11
8,268.0	91.95	334.65	6,850.2	1,497.3	-1,195.8	1,854.4	0.64	-0.63	0.03
8,332.0	91.98	334.62	6,848.0	1,555.1	-1,223.2	1,911.0	0.07	0.05	-0.05
8,396.0	91.88	333.79	6,845.8	1,612.7	-1,251.0	1,967.7	1.30	0.00	-1.30
8,459.0	91.48	332.94	6,843.9	1,668.9	-1,279.3	2,024.1	1.56	-0.79	-1.35
8,522.0	92.01	333.25	6,842.0	1,725.1	-1,307.8	2,080.5	0.97	0.84	0.49



Scientific Drilling
Survey Report



Company: Stone Energy	Local Co-ordinate Reference:	Well: Lemons #3H - S1ct Lemons #3H
Project: Mary Prospect	TVD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Site: Lemons Pad - Wetzal County, PA	MD Reference:	Saxon 141 @ 1345.0usft (18' RKB - 1327' GL)
Well: Lemons #3H	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)
8,588.0	91.98	333.15	8,839.8	1,782.2	-1,338.8	2,137.8	0.16	-0.05	-0.16
8,648.0	91.48	332.15	8,837.9	1,838.1	-1,365.5	2,194.5	1.77	-0.79	-1.59
8,713.0	91.51	332.48	8,836.2	1,894.8	-1,395.3	2,252.2	0.49	0.05	0.48
8,776.0	91.92	332.94	8,834.3	1,950.7	-1,424.2	2,308.9	1.00	0.65	0.76
8,840.0	91.34	331.88	8,832.5	2,007.4	-1,453.8	2,366.6	1.89	-0.91	-1.66
8,904.0	91.88	332.74	8,830.7	2,064.1	-1,483.5	2,424.3	1.59	0.84	1.34
8,967.0	92.08	331.72	8,828.5	2,119.8	-1,512.8	2,481.2	1.65	0.32	-1.62
9,031.0	92.25	333.48	8,826.1	2,176.6	-1,542.3	2,538.7	2.76	0.27	2.75
9,094.0	92.18	334.54	8,823.6	2,233.1	-1,569.9	2,594.7	1.68	-0.11	1.68
9,158.0	91.81	333.88	8,821.4	2,290.7	-1,597.8	2,651.5	1.46	-0.58	-1.34
9,222.0	91.54	333.70	8,819.5	2,348.0	-1,628.1	2,708.6	0.42	-0.42	0.03
9,286.0	91.85	335.32	8,817.7	2,405.8	-1,653.7	2,765.2	2.58	0.48	2.53
9,349.0	91.81	335.69	8,815.6	2,463.1	-1,679.8	2,820.5	0.59	-0.06	0.59
9,413.0	91.85	335.24	8,813.7	2,521.3	-1,706.3	2,876.6	0.75	-0.25	-0.70
9,476.0	91.78	335.23	8,811.8	2,578.4	-1,732.7	2,932.0	0.21	0.21	-0.02
9,540.0	91.68	335.00	8,809.9	2,636.5	-1,759.8	2,988.3	0.39	-0.16	-0.38
9,603.0	91.65	334.79	8,808.1	2,693.5	-1,786.4	3,043.8	0.34	-0.05	-0.33
9,667.0	91.31	335.35	8,806.4	2,751.5	-1,813.3	3,100.2	1.02	-0.53	0.88
9,730.0	91.95	336.54	8,804.6	2,809.0	-1,839.0	3,155.2	2.14	1.02	1.89
9,794.0	92.25	336.50	8,802.3	2,867.7	-1,864.5	3,210.7	0.47	0.47	-0.08
9,858.0	91.64	335.53	8,800.1	2,926.1	-1,890.5	3,266.5	1.79	-0.95	-1.52
9,922.0	91.17	334.61	8,798.5	2,984.1	-1,917.5	3,322.9	1.61	-0.73	-1.44
9,986.0	91.54	335.27	8,797.0	3,042.1	-1,944.6	3,379.3	1.18	0.58	1.03
10,049.0	92.18	335.91	8,795.0	3,099.4	-1,970.6	3,434.5	1.44	1.02	1.02
10,113.0	91.88	335.33	8,792.7	3,157.7	-1,997.0	3,490.5	1.02	-0.47	-0.91
10,177.0	90.81	335.15	8,791.2	3,215.8	-2,023.8	3,546.8	1.70	-1.87	-0.28
10,241.0	91.44	334.29	8,789.9	3,273.7	-2,051.1	3,603.3	1.67	0.98	-1.34
10,304.0	92.11	333.35	8,788.0	3,330.2	-2,078.9	3,659.4	1.83	1.08	-1.49
10,368.0	92.55	331.85	8,785.4	3,386.9	-2,108.4	3,717.0	2.74	0.69	-2.66
10,431.0	94.19	332.07	8,781.7	3,442.3	-2,138.1	3,774.0	2.69	2.60	0.67
10,495.0	94.79	331.93	8,776.7	3,498.7	-2,168.0	3,831.7	0.98	0.94	-0.22
10,559.0	93.88	331.43	8,771.9	3,554.9	-2,198.3	3,889.6	1.65	-1.45	-0.78
10,622.0	91.88	329.24	8,768.7	3,609.5	-2,228.4	3,947.3	4.68	-3.14	-3.48
10,686.0	90.60	328.27	8,767.3	3,664.2	-2,262.6	4,006.6	2.51	-2.00	-1.52
10,749.0	91.78	330.20	8,766.0	3,718.3	-2,294.8	4,064.9	3.59	1.67	3.06
10,813.0	92.41	330.42	8,763.7	3,773.9	-2,326.5	4,123.5	1.04	0.98	0.34
10,877.0	90.60	328.07	8,762.0	3,828.9	-2,359.2	4,182.6	4.63	-2.83	-3.67
10,940.0	91.31	329.61	8,760.9	3,882.8	-2,391.8	4,241.0	2.69	1.13	2.44
11,003.0	91.97	332.18	8,759.1	3,937.8	-2,422.4	4,298.5	4.21	1.05	4.08
11,067.0	91.98	335.25	8,756.9	3,995.1	-2,450.8	4,355.5	4.79	0.02	4.60
11,130.0	90.84	334.23	8,755.4	4,052.1	-2,477.6	4,411.2	2.43	-1.81	-1.62
11,194.0	90.37	335.47	8,754.7	4,110.0	-2,504.8	4,467.6	2.07	-0.73	1.94
11,257.0	90.70	334.43	8,754.1	4,167.1	-2,531.5	4,523.2	1.73	0.52	-1.65
11,321.0	91.14	334.45	8,753.1	4,224.8	-2,559.1	4,579.9	0.69	0.69	0.03



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #3H - Slot Lemons #3H
Project:	Mary Prospect	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 #3H	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)	
11,385.0	91.07	333.87	6,751.8	4,282.4	-2,587.0	4,838.7	0.91	-0.11	-0.91	
11,448.0	90.57	334.80	6,750.9	4,339.2	-2,614.3	4,692.5	1.68	-0.79	1.48	
11,512.0	91.41	334.77	6,749.8	4,387.1	-2,641.8	4,749.1	1.31	1.31	-0.05	
11,575.0	91.34	335.35	6,748.3	4,454.2	-2,668.1	4,804.5	0.93	-0.11	0.92	
11,639.0	90.54	337.05	6,747.3	4,512.7	-2,693.9	4,860.3	2.94	-1.25	2.66	
11,702.0	90.64	338.52	6,748.6	4,570.6	-2,718.8	4,914.8	0.88	0.16	-0.84	
11,766.0	90.57	338.91	6,748.0	4,629.4	-2,744.1	4,970.3	0.82	-0.11	0.61	
11,829.0	89.83	338.82	6,745.7	4,687.3	-2,769.8	5,024.8	1.18	-1.17	-0.14	
11,892.0	89.13	338.84	6,746.3	4,745.2	-2,793.7	5,079.4	1.15	-1.11	-0.29	
11,935.0	89.09	338.91	6,747.0	4,784.8	-2,810.7	5,116.7	0.63	-0.09	0.63	
Last SDI MWD Survey										
11,993.0	89.09	338.91	6,747.9	4,838.1	-2,833.4	5,168.8	0.00	0.00	0.00	

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
108.0	108.0	0.2	0.2	First SDI Gyro Survey
4,924.5	4,921.0	50.8	-67.9	Last SDI Gyro Survey
5,011.0	5,007.5	51.1	-67.2	First SDI MWD Survey
11,935.0	6,747.0	4,784.8	-2,810.7	Last SDI MWD Survey
11,993.0	6,747.9	4,838.1	-2,833.4	Projection to TD

Checked By: _____ Approved By: _____ Date: _____