

**SDI
Survey Report**

103-02710

Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #1H - Slot Lemons #1H
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 #1H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NortheastServer

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:	-0.83 °

Well:	Lemons #1H - Slot Lemons #1H					
Well Position	+N-S	0.0 usft	Northing:	421,856.00 usft	Latitude:	39° 39' 3.725 N
	+E-W	0.0 usft	Easting:	1,635,675.00 usft	Longitude:	80° 47' 38.145 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	2012/11/28	(°)	(°)	(nT)
			-8.49	67.24	52,687

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	320.22	

Survey Program	Date	2013/01/17			
From	To	Survey (Wellbore)	Tool Name	Description	
108.0	5,089.0	SDI Keeper Gyro (Original Well)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
5,140.0	7,891.0	Survey 2 - Curve (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	
7,955.0	11,825.0	Survey 3 - Lateral (Original Well)	MWD SDI	MWD - Standard ver 1.0.1	

Survey										
Measured	Depth	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn
	(usft)	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
				(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
	108.0	0.31	53.22	108.0	0.2	0.2	0.0	0.29	0.29	0.00
	First SDI Gyro Survey									
	208.0	0.12	154.11	208.0	0.2	0.5	-0.1	0.35	-0.19	100.89
	308.0	0.27	89.00	308.0	0.2	0.8	-0.4	0.25	0.15	-85.11
	408.0	0.19	117.13	408.0	0.1	1.2	-0.7	0.14	-0.08	28.13
	508.0	0.12	85.81	508.0	0.0	1.4	-0.9	0.11	-0.07	-31.52
	608.0	0.15	167.27	608.0	-0.1	1.5	-1.1	0.18	0.03	81.86
	708.0	0.12	125.21	708.0	-0.3	1.7	-1.3	0.10	-0.03	-42.06

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Project: Mary Prospect	TYD 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 #1H	North Reference: Grid
Wellbore: Original Well	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: NortheastServer

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	0.15	121.45	808.0	-0.4	1.9	-1.5	0.03	0.03	-3.76
908.0	0.15	18.48	908.0	-0.4	2.0	-1.6	0.23	0.00	-102.97
1,008.0	0.18	1.41	1,008.0	-0.1	2.1	-1.4	0.06	0.03	-17.07
1,108.0	0.06	234.18	1,108.0	0.0	2.0	-1.3	0.22	-0.12	-127.23
1,208.0	0.06	264.92	1,208.0	0.0	1.9	-1.2	0.03	0.00	30.74
1,308.0	0.08	357.14	1,308.0	0.1	1.9	-1.1	0.10	0.02	92.22
1,408.0	0.02	242.46	1,408.0	0.1	1.8	-1.1	0.09	-0.06	-114.68
1,508.0	2.98	232.07	1,508.0	-1.5	-0.2	-1.0	2.98	2.96	-10.39
1,608.0	3.06	231.87	1,607.8	-4.7	-4.4	-0.8	0.08	0.08	-0.20
1,708.0	2.75	226.95	1,707.7	-8.0	-8.2	-0.9	0.40	-0.31	-4.92
1,808.0	2.17	226.45	1,807.6	-10.9	-11.3	-1.2	0.58	-0.58	-0.50
1,908.0	1.64	233.13	1,907.5	-13.1	-13.9	-1.2	0.57	-0.53	6.68
2,008.0	1.13	235.92	2,007.5	-14.5	-15.8	-1.0	0.51	-0.51	2.79
2,108.0	0.98	247.51	2,107.5	-15.4	-17.4	-0.7	0.27	-0.17	11.58
2,208.0	0.44	273.31	2,207.5	-15.7	-18.6	-0.2	0.60	-0.52	25.80
2,308.0	0.35	313.30	2,307.5	-15.5	-19.2	0.4	0.28	-0.09	39.99
2,408.0	0.38	7.17	2,407.5	-14.9	-19.4	0.9	0.33	0.03	53.87
2,508.0	0.35	8.49	2,507.5	-14.3	-19.3	1.3	0.03	-0.03	1.32
2,608.0	0.58	357.80	2,607.5	-13.5	-19.2	2.0	0.24	0.23	-10.99
2,708.0	0.74	330.75	2,707.5	-12.4	-19.6	3.0	0.35	0.16	-27.05
2,808.0	1.46	277.64	2,807.4	-11.7	-21.2	4.6	1.18	0.72	-53.11
2,908.0	2.83	277.17	2,907.4	-11.2	-24.7	7.2	1.17	1.17	-0.47
3,008.0	3.42	272.98	3,007.2	-10.8	-30.0	10.9	0.82	0.79	-4.21
3,108.0	4.38	263.34	3,107.0	-11.1	-38.7	15.0	1.16	0.96	-8.62
3,208.0	4.60	261.24	3,206.7	-12.1	-44.5	19.1	0.27	0.22	-2.10
3,308.0	4.53	253.30	3,306.4	-13.9	-52.2	22.8	0.64	-0.07	-7.94
3,408.0	4.49	251.18	3,406.1	-16.3	-59.7	25.7	0.17	-0.04	-2.12
3,508.0	4.10	250.98	3,505.8	-18.7	-66.8	28.4	0.39	-0.39	-0.22
3,608.0	3.82	250.02	3,605.6	-21.0	-73.3	30.8	0.29	-0.28	-0.94
3,708.0	3.52	253.98	3,705.4	-23.0	-79.4	33.1	0.39	-0.30	3.98
3,808.0	3.67	256.68	3,805.2	-24.6	-85.5	35.8	0.23	0.15	2.70
3,908.0	3.91	259.39	3,904.9	-25.9	-91.9	38.9	0.30	0.24	2.71
4,008.0	4.20	257.02	4,004.7	-27.4	-98.8	42.2	0.33	0.29	-2.37
4,108.0	4.56	250.64	4,104.4	-29.5	-106.2	45.2	0.61	0.36	-6.38
4,208.0	4.67	242.87	4,204.1	-32.7	-113.5	47.5	0.63	0.11	-7.77
4,308.0	3.94	238.06	4,303.8	-36.4	-120.1	48.9	0.81	0.73	-4.61
4,408.0	2.95	236.97	4,403.6	-39.6	-125.1	49.6	0.99	0.99	-0.09
4,508.0	2.41	244.12	4,503.5	-41.9	-129.2	50.4	0.63	-0.54	1.15
4,608.0	2.49	243.37	4,603.4	-43.8	-133.0	51.4	0.09	0.09	2.45
4,708.0	2.58	245.82	4,703.3	-45.7	-137.0	52.5	0.13	0.13	0.53
4,808.0	1.03	232.30	4,803.3	-47.2	-139.8	53.2	0.58	0.53	-53.91
4,908.0	0.93	178.39	4,903.2	-48.5	-140.4	52.6	0.58	0.58	0.18
5,008.0	0.62	127.21	5,003.2	-49.7	-140.0	51.4	0.73	0.73	0.18

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Well:	Lemons #1H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NortheastServer

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)
5,069.0	0.92	100.89	5,064.2	-50.0	-139.2	50.7	0.75	0.49	-43.15
Last SDI Gyro Survey									
5,140.0	1.13	115.73	5,135.2	-50.4	-138.1	49.6	0.47	0.30	20.91
First SDI MWD Survey									
5,203.0	0.81	123.15	5,198.2	-50.9	-137.1	48.6	0.54	-0.51	11.78
5,266.0	0.41	105.63	5,261.2	-51.2	-136.5	48.0	0.69	-0.63	-27.81
5,330.0	0.20	47.69	5,325.2	-51.2	-136.2	47.8	0.54	-0.33	-90.53
5,391.0	0.20	8.12	5,366.2	-51.0	-136.1	47.9	0.22	0.00	-84.87
5,422.0	0.20	351.31	5,417.2	-50.9	-136.1	48.0	0.19	0.00	-54.23
5,453.0	0.07	2.67	5,448.2	-50.8	-136.1	48.1	0.43	-0.42	36.65
5,483.0	0.12	273.50	5,478.2	-50.8	-136.2	48.1	0.46	0.17	-297.23
5,513.0	1.01	251.81	5,508.2	-50.9	-136.5	48.2	3.00	2.97	-72.30
5,544.0	2.13	263.48	5,539.2	-51.0	-137.3	48.6	3.74	3.61	37.65
5,574.0	3.64	263.53	5,569.2	-51.2	-136.6	49.4	5.03	5.03	0.17
5,605.0	4.84	271.83	5,600.1	-51.3	-141.1	50.9	4.34	3.87	28.77
5,636.0	6.19	271.31	5,630.9	-51.2	-144.1	52.8	4.36	4.35	-1.68
5,666.0	7.56	268.76	5,660.7	-51.2	-147.6	55.1	4.68	4.57	-8.50
5,697.0	8.92	267.51	5,691.4	-51.3	-152.1	57.8	4.42	4.36	-4.03
5,728.0	10.23	265.66	5,722.0	-51.7	-157.2	60.9	4.34	4.23	-5.97
5,758.0	11.24	264.22	5,751.4	-52.1	-162.8	64.1	3.48	3.37	-4.60
5,789.0	12.54	266.08	5,781.8	-52.7	-169.2	67.7	4.37	4.19	6.00
5,819.0	14.07	269.98	5,811.0	-52.9	-176.1	72.0	5.91	5.10	13.00
5,849.0	15.19	274.13	5,840.0	-52.6	-183.6	77.0	5.11	3.73	13.83
5,880.0	16.28	278.14	5,869.8	-51.7	-192.0	83.1	4.96	3.52	12.94
5,911.0	17.74	281.63	5,899.5	-50.1	-200.9	90.0	5.75	4.71	11.26
5,941.0	19.21	283.68	5,927.9	-48.1	-210.2	97.5	5.36	4.90	6.83
5,972.0	20.71	284.19	5,957.1	-45.5	-220.4	106.1	4.87	4.84	1.65
6,002.0	21.98	285.09	5,985.0	-42.7	-231.0	114.9	4.37	4.23	3.00
6,033.0	22.67	286.16	6,013.7	-39.4	-242.3	124.8	4.74	2.87	9.90
6,064.0	23.79	290.65	6,042.1	-35.3	-253.9	135.3	4.35	2.97	8.03
6,095.0	24.66	292.11	6,070.4	-30.6	-265.8	146.5	3.41	2.81	4.71
6,125.0	25.04	291.76	6,097.6	-25.9	-277.4	157.6	1.36	1.27	-1.17
6,156.0	25.42	291.06	6,125.7	-21.1	-289.7	169.2	1.56	1.23	-2.26
6,186.0	26.19	289.59	6,152.7	-16.6	-302.0	180.5	3.34	2.57	-4.90
6,216.0	27.59	289.36	6,179.4	-12.0	-314.8	192.1	4.68	4.67	-0.77
6,247.0	29.23	289.20	6,206.7	-7.2	-328.7	204.6	5.30	5.29	-0.52
6,277.0	31.14	289.48	6,232.6	-2.2	-342.9	217.7	6.38		
6,308.0	32.13	290.20	6,259.0	3.3	-358.2	231.8	3.42		
6,338.0	33.92	291.54	6,284.2	9.2	-373.5	246.0	6.44		
6,369.0	35.48	292.53	6,309.7	15.8	-389.9	261.6	5.35		
6,399.0	37.61	293.58	6,333.8	22.8	-406.3	277.5	7.40		
6,430.0	39.82	294.70	6,357.9	30.7	-424.0	294.9	7.46		
6,462.0	42.03	295.41	6,382.1	39.6	-443.0	313.8	7.08		
6,493.0	43.42	294.98	6,404.9	48.6	-462.0	332.9	4.58		

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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 #1H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NortheastServer

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)
6,525.0	43.83	284.07	6,428.0	57.7	-482.1	352.8	2.53	1.59	-2.84
6,557.0	44.73	293.98	6,450.9	66.8	-502.5	372.9	2.51	2.50	-0.34
6,588.0	46.41	293.47	6,472.8	75.7	-522.8	392.7	5.54	6.42	-1.58
6,619.0	48.47	293.19	6,493.6	84.8	-543.8	413.0	6.68	6.65	-0.90
6,651.0	50.69	293.42	6,514.3	94.4	-566.1	434.8	6.98	6.94	0.72
6,683.0	51.77	293.75	6,534.4	104.4	-589.0	457.1	3.47	3.38	1.03
6,715.0	52.85	294.24	6,553.9	114.7	-612.1	479.8	3.59	3.38	1.53
6,747.0	53.98	294.83	6,573.0	125.3	-635.5	502.8	3.60	3.47	1.22
6,779.0	55.18	294.59	6,591.6	136.2	-659.2	526.4	3.81	3.81	-0.13
6,810.0	56.32	294.37	6,609.0	146.8	-682.6	549.5	3.72	3.88	-0.71
6,842.0	57.58	294.30	6,626.5	157.8	-707.0	573.6	3.94	3.94	-0.22
6,874.0	59.00	294.43	6,643.3	169.1	-731.8	598.1	4.45	4.44	0.41
6,905.0	59.89	294.34	6,659.0	180.1	-756.1	622.2	2.88	2.87	-0.29
6,937.0	61.36	294.37	6,674.7	191.6	-781.5	647.3	4.59	4.59	0.09
6,968.0	62.01	294.20	6,689.4	202.8	-808.4	671.8	2.15	2.10	-0.55
7,000.0	62.79	294.83	6,704.3	214.6	-832.2	697.3	3.00	2.44	1.97
7,032.0	63.90	295.54	6,718.6	226.8	-858.1	723.3	4.00	3.47	2.22
7,064.0	65.22	296.87	6,732.4	239.5	-884.0	749.6	5.58	4.13	4.16
7,096.0	68.70	297.41	6,745.4	252.8	-910.0	776.5	4.87	4.63	1.69
7,128.0	68.40	288.15	6,757.6	266.6	-936.2	803.9	5.73	5.31	2.31
7,160.0	70.24	298.82	6,768.9	280.9	-962.5	831.7	6.17	5.75	2.41
7,192.0	72.07	299.44	6,779.3	295.7	-988.9	859.9	5.92	5.72	1.63
7,223.0	73.24	301.17	6,788.5	310.6	-1,014.4	887.8	6.53	3.77	5.58
7,255.0	74.45	303.23	6,797.4	327.0	-1,040.5	917.0	7.25	3.78	6.44
7,287.0	75.83	305.52	6,805.6	344.5	-1,068.0	946.7	8.15	4.31	7.16
7,319.0	77.43	308.44	6,813.0	363.2	-1,096.8	977.0	10.19	5.00	9.13
7,351.0	79.27	311.55	6,819.5	383.3	-1,114.8	1,007.9	11.12	5.75	9.72
7,383.0	79.75	313.83	6,825.3	404.6	-1,138.0	1,039.1	6.58	1.50	6.50
7,415.0	79.71	315.41	6,831.0	426.7	-1,160.5	1,070.4	5.47	-0.13	5.56
7,448.0	79.98	317.22	6,836.5	448.9	-1,161.5	1,100.8	5.81	0.87	5.84
7,478.0	80.45	317.37	6,841.9	471.9	-1,202.8	1,132.3	1.54	1.47	0.47
7,510.0	81.20	317.47	6,847.0	495.2	-1,224.3	1,163.9	2.36	2.34	0.31
7,542.0	81.81	317.35	6,851.8	518.5	-1,245.7	1,195.5	1.33	1.28	-0.38
7,574.0	83.21	318.48	6,856.0	542.0	-1,267.0	1,227.2	6.10	5.00	3.53
7,606.0	84.35	318.93	6,859.5	565.9	-1,288.0	1,259.0	3.83	3.83	1.41
7,637.0	84.65	318.75	6,862.5	589.2	-1,308.3	1,289.8	1.13	0.97	1.08
7,669.0	85.48	319.07	6,865.2	613.2	-1,329.2	1,321.7	2.72	2.53	1.58
7,701.0	86.98	319.76	6,867.3	637.5	-1,350.0	1,353.6	5.21	4.58	2.15
7,733.0	87.45	319.72	6,868.9	661.8	-1,370.6	1,385.8	1.47	1.47	0.13
7,765.0	88.15	319.63	6,870.1	686.2	-1,391.3	1,417.6	1.19	1.19	0.28
7,828.0	88.83	321.69	6,871.7	734.9	-1,431.3	1,480.5	3.50	3.50	3.27
7,891.0	89.93	324.20	6,872.4	785.2	-1,469.2	1,543.5	4.29	4.29	3.98
7,955.0	91.91	325.40	6,871.3	837.5	-1,506.1	1,607.2	3.62	3.09	1.36

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SDI
Survey Report

Company: Stone Energy	Local Co-ordinate Reference: Well Lemons #1H - Slot Lemons #1H
Project: Mary Prospect	TVD Reference: Saxón 141 @ 1345.0usft (18' RKB - 1327' GL)
Site: Lemons Pad - Wetzel County, PA	MD Reference: Saxón 141 @ 1345.0usft (18' RKB - 1327' GL)
Well: Lemons #1H	North Reference: Grid
Wellbore: Original Well	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: NortheastServer

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)
8,019.0	93.79	328.85	6,668.1	890.5	-1,541.8	1,670.8	3.53	2.84	1.95
8,083.0	94.03	328.31	6,663.8	944.3	-1,576.1	1,734.2	2.61	0.38	2.59
8,146.0	92.95	330.03	6,659.9	998.3	-1,608.4	1,798.3	3.22	-1.71	2.73
8,210.0	91.85	331.15	6,657.3	1,054.0	-1,639.8	1,859.2	2.45	-1.72	1.75
8,274.0	91.54	332.85	6,655.4	1,110.5	-1,669.8	1,921.8	2.85	-0.48	2.61
8,337.0	92.72	332.87	6,653.0	1,166.6	-1,698.4	1,983.2	1.88	1.87	-0.13
8,401.0	90.84	333.33	6,651.0	1,223.6	-1,727.4	2,045.6	3.02	-2.94	0.72
8,465.0	91.17	332.91	6,649.9	1,280.7	-1,756.3	2,107.9	0.83	0.52	-0.66
8,528.0	89.70	332.68	6,649.4	1,338.7	-1,785.1	2,169.4	2.36	-2.33	-0.37
8,591.0	90.60	332.88	6,649.3	1,392.8	-1,813.9	2,230.9	1.48	1.43	0.32
8,655.0	92.32	333.54	6,647.6	1,449.9	-1,842.7	2,293.3	2.88	2.69	1.03
8,719.0	93.49	333.43	6,644.4	1,507.1	-1,871.3	2,355.5	1.84	1.83	-0.17
8,782.0	92.05	333.16	6,641.4	1,563.3	-1,899.6	2,416.8	2.33	-2.29	-0.43
8,846.0	90.60	332.72	6,639.9	1,620.2	-1,928.7	2,479.2	2.37	-2.27	-0.89
8,909.0	91.34	333.18	6,638.8	1,676.3	-1,957.3	2,540.8	1.38	1.17	0.73
8,973.0	89.90	333.56	6,638.1	1,733.5	-1,986.0	2,602.9	2.33	-2.25	0.59
9,037.0	90.84	333.62	6,637.7	1,790.9	-2,014.5	2,665.2	1.47	1.47	0.09
9,101.0	92.62	334.28	6,635.8	1,848.3	-2,042.6	2,727.3	2.97	2.78	1.03
9,164.0	93.63	333.21	6,632.3	1,904.8	-2,070.4	2,788.5	2.33	1.60	-1.70
9,228.0	92.48	332.94	6,628.9	1,961.7	-2,099.3	2,850.8	1.85	-1.80	-0.42
9,292.0	91.44	332.55	6,626.7	2,018.6	-2,128.6	2,913.3	1.74	-1.63	-0.61
9,355.0	92.85	332.49	6,624.4	2,074.4	-2,157.7	2,974.8	2.24	2.24	-0.10
9,419.0	94.17	332.13	6,620.5	2,131.0	-2,187.3	3,037.2	2.14	2.06	-0.56
9,483.0	92.48	330.96	6,616.7	2,187.2	-2,217.8	3,099.9	3.21	-2.64	-1.83
9,548.0	90.77	330.10	6,615.0	2,242.0	-2,248.8	3,161.8	3.04	-2.71	-1.37
9,609.0	91.41	329.89	6,613.8	2,296.6	-2,280.2	3,223.9	1.03	1.02	-0.17
9,672.0	89.56	328.85	6,613.2	2,350.8	-2,312.3	3,286.1	3.45	-2.84	-1.81
9,736.0	90.23	328.37	6,613.3	2,405.4	-2,345.6	3,349.4	1.29	1.05	-0.75
9,800.0	90.80	327.59	6,612.8	2,459.7	-2,379.5	3,412.8	1.51	0.89	-1.22
9,863.0	92.05	327.61	6,611.2	2,512.9	-2,413.3	3,475.3	1.98	1.98	0.03
9,927.0	92.79	327.06	6,608.5	2,566.7	-2,447.8	3,538.7	1.44	1.16	-0.86
9,990.0	93.93	328.73	6,604.8	2,619.4	-2,482.1	3,601.2	1.88	1.81	-0.52
10,054.0	92.58	327.81	6,601.2	2,673.1	-2,516.7	3,664.6	2.70	-2.11	1.69
10,118.0	91.21	327.77	6,799.1	2,727.3	-2,550.8	3,728.0	2.14	-2.14	-0.06
10,181.0	91.71	327.59	6,797.5	2,780.5	-2,584.5	3,790.4	0.84	0.79	0.59
10,244.0	92.35	327.21	6,795.2	2,833.5	-2,618.4	3,852.9	1.18	1.02	0.59
10,307.0	93.19	328.76	6,792.2	2,886.3	-2,652.7	3,915.4	1.51	1.33	0.77
10,371.0	91.68	327.75	6,789.5	2,940.1	-2,687.2	3,978.9	2.82	-2.38	1.55
10,434.0	92.05	327.01	6,787.4	2,993.1	-2,721.2	4,041.3	1.31	0.59	0.59
10,498.0	90.60	327.39	6,785.9	3,046.9	-2,755.8	4,104.8	2.34	0.59	0.59
10,562.0	91.21	326.90	6,784.9	3,100.6	-2,780.6	4,168.4	1.22	0.59	0.59
10,625.0	91.84	326.77	6,783.2	3,153.4	-2,825.0	4,230.9	1.02	1.00	0.59
10,688.0	90.67	326.98	6,781.9	3,206.1	-2,859.4	4,293.5	1.89	-1.88	0.59
10,752.0	91.24	326.88	6,780.8	3,259.7	-2,894.3	4,357.0	0.80	0.89	0.59

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Survey Report

Company:	Stone Energy	Local Co-ordinate Reference:	Well Lemons #1H - Slot Lemons #1H
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 #1H	North Reference:	Grid
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	NorthEastServer

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)
10,815.0	91.95	326.91	6,779.0	3,312.5	-2,928.7	4,419.6	1.13	1.13	0.05
10,879.0	92.55	326.43	6,776.5	3,365.9	-2,963.9	4,483.1	1.20	0.94	-0.75
10,942.0	91.71	326.67	6,774.2	3,418.4	-2,998.6	4,545.7	1.39	-1.33	0.38
11,006.0	92.49	326.40	6,771.8	3,471.8	-3,033.9	4,609.3	1.29	1.22	-0.42
11,070.0	93.43	325.98	6,768.5	3,524.9	-3,069.4	4,672.8	1.61	1.47	-0.66
11,134.0	92.01	326.74	6,765.5	3,578.1	-3,104.8	4,736.4	2.52	-2.22	1.19
11,197.0	91.24	327.79	6,763.7	3,631.1	-3,138.9	4,798.9	2.07	-1.22	1.67
11,261.0	91.88	327.48	6,762.0	3,685.1	-3,173.1	4,862.3	1.11	1.00	-0.48
11,325.0	92.55	326.94	6,759.5	3,738.9	-3,207.8	4,925.8	1.34	1.05	-0.84
11,388.0	90.87	326.31	6,757.6	3,791.5	-3,242.4	4,988.4	2.85	-2.67	-1.00
11,451.0	91.54	325.64	6,756.3	3,843.7	-3,277.6	5,051.1	1.50	1.06	-1.08
11,514.0	90.27	325.83	6,755.3	3,895.7	-3,313.1	5,113.8	2.04	-2.02	0.30
11,546.0	90.74	325.63	6,755.0	3,922.2	-3,331.1	5,145.6	1.60	1.47	-0.63
Last SDI MWD Survey									
11,625.0	90.74	325.63	6,754.0	3,987.4	-3,375.7	5,224.3	0.00	0.00	0.00
Projection to TD:									

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
5,069.0	5,064.2	-50.0	-139.2	Last SDI Gyro Survey
5,140.0	5,135.2	-50.4	-138.1	First SDI MWD Survey
11,546.0	6,755.0	3,922.2	-3,331.1	Last SDI MWD Survey
11,625.0	6,754.0	3,987.4	-3,375.7	Projection to TD

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