



Stone Energy Corporation

Heather Prospect (NAD 27)

Martin Pad

Martin 5H - Slot 5H

OH

Design: As Drilled

Standard Survey Report

02 November, 2014



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06/02/2017



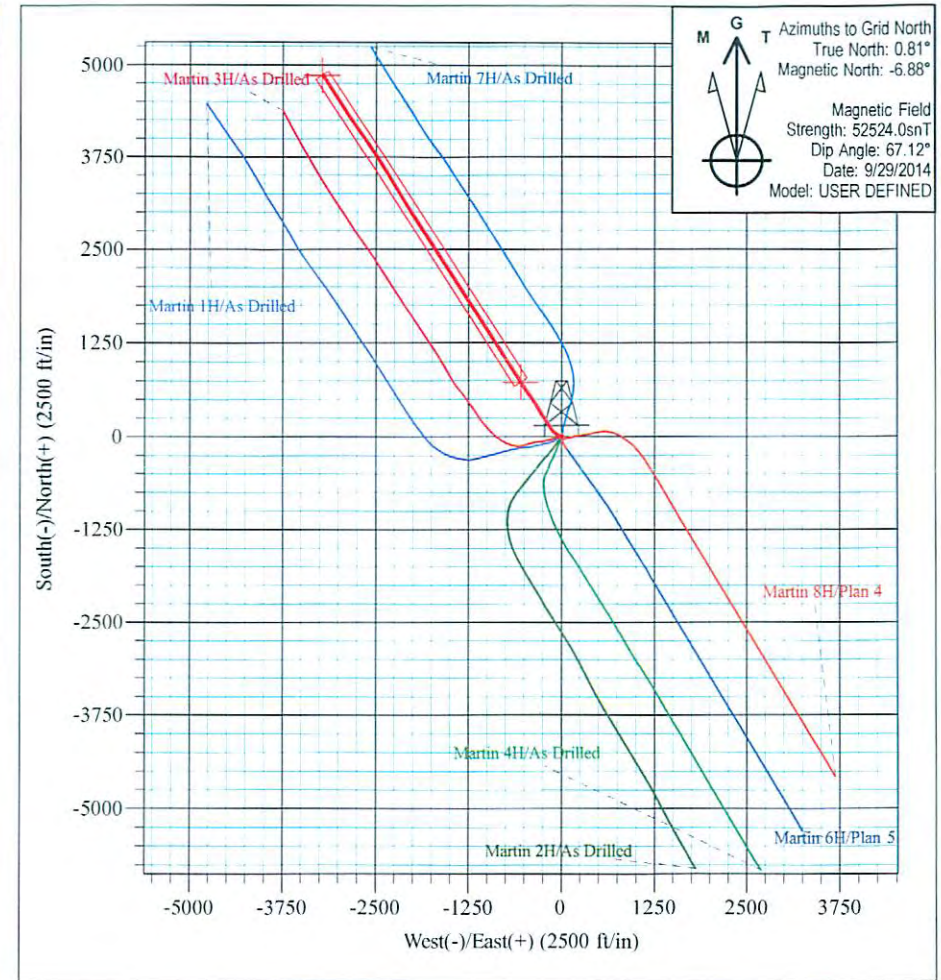
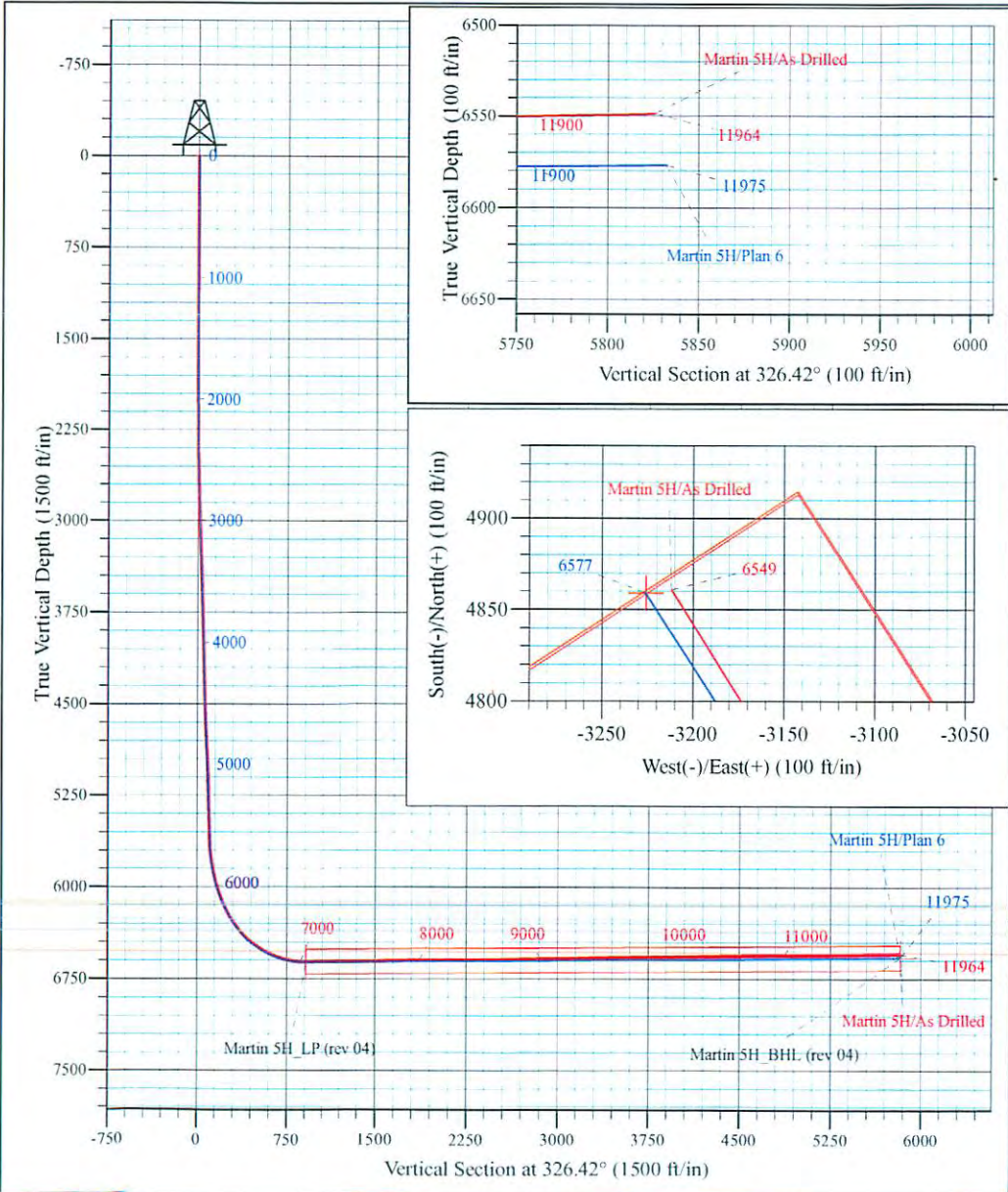
Martin Pad
 Martin 5H
 Plan 6
 GL 906 & KB 18 @ 924.00ft (Saxon 141)
 Heather Prospect (NAD 27)

PROJECT DETAILS:
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: West Virginia North 4701
 System Datum: Mean Sea Level



WELL DETAILS: Martin 5H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	407780.00	1643293.00	39° 36' 45.688 N	80° 45' 58.220 W



M G T
 Azimuths to Grid North
 True North: 0.81°
 Magnetic North: -6.88°

Magnetic Field
 Strength: 52524.0snT
 Dip Angle: 67.12°
 Date: 9/29/2014
 Model: USER DEFINED

Shane Rhodes
 12:32, November 02 2014
 Scientific Drilling International
 124 Vista Drive
 Charleroi, PA 15022



Scientific Drilling International
Survey Report



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 5H - Slot 5H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

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	Martin Pad				
Site Position:		Northing:	407,759.00 usft	Latitude:	39° 36' 45.478 N
From:	Map	Easting:	1,643,274.00 usft	Longitude:	80° 45' 58.459 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.81 °

Well	Martin 5H - Slot 5H					
Well Position	+N/-S	0.00 ft	Northing:	407,780.00 usft	Latitude:	39° 36' 45.688 N
	+E/-W	0.00 ft	Easting:	1,643,293.00 usft	Longitude:	80° 45' 58.220 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	906.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	3/27/2014	-8.59	67.11	52,440
	BGGM2013	4/15/2014	-8.59	67.10	52,433
	User Defined	9/10/2014	-7.69	67.13	52,532
	User Defined	9/29/2014	-7.69	67.12	52,524

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00		326.42

Survey Program	Date	11/2/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
18.00	2,238.00	Survey 1 - Vaughn Gyro (OH)	VES GyroFlex		
2,273.00	5,476.00	Survey 2 - SDI MWD (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
5,516.00	11,964.00	Survey #3 - SDI MWD (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	360.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
First Vaughn Gyro Survey @ 18 MD										
108.00	0.16	45.51	108.00	0.09	0.09	0.02	0.18	0.18	0.00	0.00
208.00	0.24	37.86	208.00	0.35	0.32	0.12	0.08	0.08	-7.65	-7.65
308.00	0.19	44.82	308.00	0.63	0.56	0.22	0.06	-0.05	6.96	6.96



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Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
408.00	0.11	59.30	408.00	0.80	0.76	0.25	0.09	-0.08	14.48	
508.00	0.08	64.26	508.00	0.88	0.91	0.23	0.03	-0.03	4.96	
608.00	0.10	45.66	608.00	0.97	1.03	0.24	0.04	0.02	-18.60	
708.00	0.06	44.88	708.00	1.07	1.13	0.26	0.04	-0.04	-0.78	
808.00	0.18	70.23	808.00	1.16	1.32	0.24	0.13	0.12	25.35	
908.00	0.62	69.34	907.99	1.40	1.97	0.08	0.44	0.44	-0.89	
1,008.00	0.94	44.77	1,007.99	2.18	3.06	0.12	0.46	0.32	-24.57	
1,108.00	0.86	38.03	1,107.97	3.35	4.10	0.53	0.13	-0.08	-6.74	
1,208.00	1.10	37.27	1,207.96	4.71	5.14	1.08	0.24	0.24	-0.76	
1,308.00	0.85	42.91	1,307.94	6.01	6.23	1.57	0.27	-0.25	5.64	
1,408.00	0.61	66.48	1,407.94	6.77	7.22	1.65	0.38	-0.24	23.57	
1,508.00	0.58	76.82	1,507.93	7.10	8.20	1.38	0.11	-0.03	10.34	
1,608.00	0.59	86.50	1,607.93	7.24	9.21	0.94	0.10	0.01	9.68	
1,708.00	0.96	58.17	1,707.92	7.72	10.43	0.66	0.52	0.37	-28.33	
1,808.00	0.83	68.55	1,807.90	8.42	11.82	0.48	0.21	-0.13	10.38	
1,908.00	1.18	65.43	1,907.89	9.12	13.43	0.17	0.35	0.35	-3.12	
2,008.00	1.30	56.59	2,007.87	10.17	15.31	0.00	0.23	0.12	-8.84	
2,108.00	1.37	49.79	2,107.84	11.57	17.17	0.14	0.17	0.07	-6.80	
2,208.00	1.25	42.35	2,207.81	13.14	18.82	0.54	0.21	-0.12	-7.44	
2,238.00	1.41	45.50	2,237.80	13.64	19.30	0.69	0.59	0.53	10.50	
Last Vaughn Gyro Survey @ 2238 MD										
2,273.00	1.06	34.42	2,272.80	14.21	19.79	0.89	1.21	-1.00	-31.66	
First SDI MWD Survey @ 2273 MD										
2,368.00	1.23	329.14	2,367.78	15.81	19.77	2.24	1.31	0.18	-68.72	
2,462.00	2.22	297.51	2,461.74	17.52	17.63	4.84	1.42	1.05	-33.65	
2,556.00	3.05	266.84	2,555.64	18.22	13.52	7.70	1.71	0.88	-32.63	
2,650.00	3.06	258.14	2,649.51	17.57	8.57	9.90	0.49	0.01	-9.26	
2,744.00	2.81	256.62	2,743.39	16.52	3.87	11.62	0.28	-0.27	-1.62	
2,838.00	2.71	268.51	2,837.28	15.93	-0.59	13.60	0.62	-0.11	12.65	
2,932.00	2.75	271.45	2,931.17	15.93	-5.07	16.07	0.15	0.04	3.13	
3,027.00	2.56	270.21	3,026.07	15.99	-9.47	18.56	0.21	-0.20	-1.31	
3,121.00	2.67	276.84	3,119.97	16.26	-13.74	21.15	0.34	0.12	7.05	
3,215.00	2.82	292.64	3,213.87	17.41	-18.05	24.49	0.82	0.16	16.81	
3,309.00	2.97	294.15	3,307.75	19.30	-22.40	28.47	0.18	0.16	1.61	
3,403.00	2.53	295.19	3,401.64	21.18	-26.50	32.30	0.47	-0.47	1.11	
3,499.00	2.52	296.05	3,497.54	23.01	-30.32	35.94	0.04	-0.01	0.90	
3,593.00	2.02	294.51	3,591.47	24.60	-33.68	39.13	0.54	-0.53	-1.64	
3,687.00	2.16	286.07	3,685.41	25.78	-36.89	41.88	0.36	0.15	-8.98	
3,781.00	2.21	307.42	3,779.34	27.37	-40.03	44.95	0.86	0.05	22.71	
3,875.00	2.29	316.20	3,873.27	29.83	-42.77	48.51	0.38	0.09	9.34	
3,969.00	1.50	297.84	3,967.22	31.76	-45.16	51.44	1.05	-0.84	-19.53	
4,063.00	1.53	282.49	4,061.19	32.60	-47.47	53.42	0.43	0.03	-16.33	
4,158.00	1.27	284.43	4,156.16	33.14	-49.73	55.12	0.28	-0.27	2.04	



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Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,252.00	1.05	272.69	4,250.14	33.44	-51.60	56.40	0.34	-0.23	-12.49	
4,346.00	1.64	307.29	4,344.11	34.30	-53.53	58.18	1.04	0.63	36.81	
4,440.00	2.08	312.54	4,438.06	36.27	-55.86	61.11	0.50	0.47	5.59	
4,534.00	2.21	310.76	4,532.00	38.60	-58.49	64.51	0.16	0.14	-1.89	
4,628.00	2.45	308.48	4,625.92	41.04	-61.43	68.17	0.27	0.26	-2.43	
4,722.00	2.68	309.58	4,719.83	43.69	-64.70	72.18	0.25	0.24	1.17	
4,816.00	2.94	306.89	4,813.71	46.53	-68.32	76.56	0.31	0.28	-2.86	
4,912.00	3.31	306.39	4,909.57	49.66	-72.52	81.48	0.39	0.39	-0.52	
5,006.00	2.63	308.96	5,003.44	52.62	-76.38	86.09	0.74	-0.72	2.73	
5,100.00	2.65	313.08	5,097.34	55.46	-79.65	90.26	0.20	0.02	4.38	
5,194.00	1.81	316.63	5,191.27	58.02	-82.25	93.84	0.91	-0.89	3.78	
5,288.00	1.42	332.09	5,285.23	60.13	-83.82	96.46	0.62	-0.41	16.45	
5,382.00	1.99	300.89	5,379.19	62.00	-85.76	99.09	1.14	0.61	-33.19	
5,476.00	2.31	294.45	5,473.13	63.62	-88.89	102.17	0.43	0.34	-6.85	
5,516.00	2.30	298.92	5,513.10	64.34	-90.32	103.57	0.45	-0.03	11.18	
5,580.00	2.37	291.97	5,577.04	65.46	-92.68	105.80	0.46	0.11	-10.86	
5,610.00	2.25	294.48	5,607.02	65.94	-93.79	106.81	0.52	-0.40	8.37	
5,641.00	2.21	292.05	5,637.99	66.41	-94.89	107.82	0.33	-0.13	-7.84	
5,671.00	3.03	303.34	5,667.96	67.07	-96.09	109.02	3.22	2.73	37.63	
5,701.00	4.41	316.11	5,697.90	68.33	-97.55	110.89	5.34	4.60	42.57	
5,731.00	6.53	317.86	5,727.76	70.43	-99.50	113.71	7.09	7.07	5.83	
5,761.00	8.56	314.28	5,757.50	73.25	-102.24	117.58	6.94	6.77	-11.93	
5,791.00	9.89	315.26	5,787.11	76.64	-105.65	122.29	4.46	4.43	3.27	
5,821.00	10.17	314.86	5,816.65	80.34	-109.35	127.41	0.96	0.93	-1.33	
5,852.00	10.75	315.68	5,847.14	84.34	-113.31	132.93	1.93	1.87	2.65	
5,882.00	11.08	318.44	5,876.59	88.50	-117.17	138.54	2.06	1.10	9.20	
5,912.00	12.23	321.39	5,905.98	93.14	-121.07	144.56	4.32	3.83	9.83	
5,943.00	13.92	323.39	5,936.17	98.70	-125.34	151.55	5.64	5.45	6.45	
5,973.00	15.60	325.35	5,965.18	104.91	-129.79	159.19	5.84	5.60	6.53	
6,002.00	17.10	326.75	5,993.01	111.69	-134.34	167.35	5.35	5.17	4.83	
6,032.00	19.13	326.13	6,021.52	119.46	-139.50	176.68	6.80	6.77	-2.07	
6,062.00	20.14	325.07	6,049.77	127.77	-145.20	186.76	3.57	3.37	-3.53	
6,092.00	20.64	324.62	6,077.89	136.32	-151.22	197.21	1.75	1.67	-1.50	
6,122.00	21.85	325.47	6,105.86	145.23	-157.44	208.08	4.16	4.03	2.83	
6,152.00	24.07	327.41	6,133.48	154.98	-163.90	219.78	7.82	7.40	6.47	
6,183.00	26.18	328.95	6,161.54	166.17	-170.84	232.93	7.13	6.81	4.97	
6,213.00	26.96	329.62	6,188.37	177.71	-177.69	246.33	2.79	2.60	2.23	
6,244.00	28.38	329.33	6,215.83	190.11	-185.00	260.71	4.60	4.58	-0.94	
6,274.00	30.49	328.72	6,241.95	202.75	-192.59	275.43	7.10	7.03	-2.03	
6,304.00	33.31	326.93	6,267.42	216.16	-201.04	291.28	9.91	9.40	-5.97	
6,335.00	36.35	326.34	6,292.86	230.94	-210.78	308.98	9.87	9.81	-1.90	
6,366.00	36.83	325.31	6,317.76	246.23	-221.16	327.46	2.51	1.55	-3.32	
6,396.00	37.75	325.35	6,341.62	261.18	-231.50	345.63	3.07	3.07	0.13	
6,426.00	40.30	325.96	6,364.93	276.77	-242.15	364.52	8.60	8.50	2.03	



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Survey Report



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Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,456.00	43.08	326.47	6,387.33	293.35	-253.24	384.47	9.34	9.27	1.70	
6,487.00	46.06	327.71	6,409.41	311.62	-265.06	406.22	10.01	9.61	4.00	
6,517.00	48.68	328.06	6,429.73	330.31	-276.79	428.28	8.78	8.73	1.17	
6,546.00	50.87	328.24	6,448.45	349.12	-288.47	450.41	7.57	7.55	0.62	
6,576.00	52.71	328.95	6,467.01	369.24	-300.75	473.97	6.41	6.13	2.37	
6,607.00	54.52	329.25	6,485.40	390.65	-313.57	498.89	5.89	5.84	0.97	
6,639.00	56.55	328.49	6,503.51	413.23	-327.21	525.25	6.64	6.34	-2.38	
6,671.00	59.11	326.79	6,520.54	436.11	-341.71	552.33	9.18	8.00	-5.31	
6,703.00	61.80	325.49	6,536.32	459.22	-357.22	580.16	9.12	8.41	-4.06	
6,734.00	64.72	324.74	6,550.27	481.93	-373.05	607.84	9.66	9.42	-2.42	
6,766.00	67.16	325.01	6,563.31	505.82	-389.86	637.05	7.66	7.63	0.84	
6,798.00	70.21	324.70	6,574.94	530.20	-407.02	666.84	9.57	9.53	-0.97	
6,830.00	72.54	324.54	6,585.16	554.92	-424.58	697.15	7.30	7.28	-0.50	
6,862.00	75.12	325.22	6,594.07	580.06	-442.26	727.87	8.32	8.06	2.13	
6,893.00	77.41	325.88	6,601.43	604.89	-459.29	757.98	7.67	7.39	2.13	
6,925.00	80.44	326.06	6,607.58	630.91	-476.86	789.38	9.48	9.47	0.56	
6,957.00	82.73	326.46	6,612.26	657.23	-494.45	821.03	7.26	7.16	1.25	
6,989.00	85.12	327.31	6,615.65	683.88	-511.83	852.85	7.92	7.47	2.66	
7,021.00	89.09	327.85	6,617.26	710.86	-528.96	884.79	12.52	12.41	1.69	
7,053.00	90.97	327.96	6,617.25	737.96	-545.96	916.78	5.89	5.88	0.34	
7,084.00	90.67	327.17	6,616.80	764.13	-562.58	947.77	2.73	-0.97	-2.55	
7,116.00	90.50	327.21	6,616.48	791.02	-579.92	979.77	0.55	-0.53	0.13	
7,180.00	90.20	326.64	6,616.09	844.65	-614.85	1,043.76	1.01	-0.47	-0.89	
7,243.00	90.94	326.46	6,615.46	897.21	-649.57	1,106.76	1.21	1.17	-0.29	
7,307.00	90.84	326.48	6,614.47	950.55	-684.92	1,170.75	0.16	-0.16	0.03	
7,371.00	90.87	326.39	6,613.51	1,003.88	-720.30	1,234.74	0.15	0.05	-0.14	
7,434.00	91.45	326.34	6,612.24	1,056.32	-755.19	1,297.73	0.92	0.92	-0.08	
7,498.00	91.01	326.32	6,610.86	1,109.57	-790.66	1,361.71	0.69	-0.69	-0.03	
7,562.00	90.64	326.74	6,609.94	1,162.95	-825.96	1,425.71	0.87	-0.58	0.66	
7,626.00	91.38	326.71	6,608.81	1,216.45	-861.06	1,489.70	1.16	1.16	-0.05	
7,689.00	90.70	326.93	6,607.67	1,269.17	-895.54	1,552.68	1.13	-1.08	0.35	
7,752.00	90.24	327.88	6,607.15	1,322.24	-929.47	1,615.67	1.68	-0.73	1.51	
7,816.00	90.60	327.35	6,606.68	1,376.29	-963.75	1,679.66	1.00	0.56	-0.83	
7,880.00	90.77	326.25	6,605.92	1,429.83	-998.79	1,743.65	1.74	0.27	-1.72	
7,944.00	91.61	326.95	6,604.59	1,483.25	-1,034.01	1,807.63	1.71	1.31	1.09	
8,007.00	90.64	327.03	6,603.35	1,536.07	-1,068.33	1,870.62	1.54	-1.54	0.13	
8,071.00	90.10	328.23	6,602.94	1,590.12	-1,102.59	1,934.60	2.06	-0.84	1.88	
8,134.00	90.50	327.82	6,602.61	1,643.57	-1,135.95	1,997.57	0.91	0.63	-0.65	
8,198.00	91.38	327.67	6,601.56	1,697.68	-1,170.10	2,061.55	1.39	1.38	-0.23	
8,261.00	90.57	327.06	6,600.49	1,750.73	-1,204.07	2,124.53	1.61	-1.29	-0.97	
8,324.00	89.26	327.49	6,600.58	1,803.73	-1,238.13	2,187.52	2.19	-2.08	0.68	
8,387.00	90.03	327.48	6,600.97	1,856.85	-1,271.99	2,250.51	1.22	1.22	-0.02	
8,450.00	91.08	327.42	6,600.36	1,909.95	-1,305.89	2,313.49	1.67	1.67	-0.10	

Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 5H - Slot 5H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,512.00	91.01	327.21	6,599.23	1,962.12	-1,339.36	2,375.48	0.36	-0.11	-0.34	
8,575.00	91.78	327.20	6,597.70	2,015.07	-1,373.48	2,438.45	1.22	1.22	-0.02	
8,639.00	91.24	326.72	6,596.01	2,068.70	-1,408.36	2,502.43	1.13	-0.84	-0.75	
8,702.00	90.84	326.66	6,594.87	2,121.34	-1,442.95	2,565.41	0.64	-0.63	-0.10	
8,766.00	91.45	326.87	6,593.59	2,174.86	-1,478.02	2,629.40	1.01	0.95	0.33	
8,830.00	91.34	326.28	6,592.03	2,228.26	-1,513.26	2,693.38	0.94	-0.17	-0.92	
8,894.00	91.35	326.12	6,590.53	2,281.43	-1,548.86	2,757.36	0.25	0.02	-0.25	
8,957.00	90.50	326.23	6,589.51	2,333.76	-1,583.92	2,820.35	1.36	-1.35	0.17	
9,020.00	90.20	326.53	6,589.12	2,386.22	-1,618.80	2,883.35	0.67	-0.48	0.48	
9,084.00	91.14	327.01	6,588.38	2,439.75	-1,653.87	2,947.35	1.65	1.47	0.75	
9,147.00	91.38	327.12	6,586.99	2,492.61	-1,688.11	3,010.33	0.42	0.38	0.17	
9,211.00	91.34	326.89	6,585.47	2,546.27	-1,722.96	3,074.31	0.36	-0.06	-0.36	
9,274.00	91.24	326.00	6,584.05	2,598.76	-1,757.77	3,137.29	1.42	-0.16	-1.41	
9,338.00	91.88	325.44	6,582.31	2,651.62	-1,793.80	3,201.26	1.33	1.00	-0.88	
9,402.00	91.11	325.86	6,580.64	2,704.44	-1,829.90	3,265.23	1.37	-1.20	0.66	
9,465.00	90.50	326.48	6,579.76	2,756.77	-1,864.97	3,328.22	1.38	-0.97	0.98	
9,529.00	90.60	327.36	6,579.14	2,810.39	-1,899.90	3,392.22	1.38	0.16	1.38	
9,592.00	90.57	327.17	6,578.50	2,863.39	-1,933.97	3,455.21	0.31	-0.05	-0.30	
9,656.00	91.24	327.00	6,577.49	2,917.10	-1,968.74	3,519.19	1.08	1.05	-0.27	
9,719.00	91.07	327.01	6,576.22	2,969.93	-2,003.04	3,582.18	0.27	-0.27	0.02	
9,783.00	91.01	327.40	6,575.06	3,023.72	-2,037.70	3,646.16	0.62	-0.09	0.61	
9,845.00	90.60	327.33	6,574.19	3,075.93	-2,071.13	3,708.15	0.67	-0.66	-0.11	
9,909.00	90.30	328.07	6,573.68	3,130.02	-2,105.33	3,772.13	1.25	-0.47	1.16	
9,972.00	91.21	328.47	6,572.85	3,183.60	-2,138.46	3,835.09	1.58	1.44	0.63	
10,035.00	91.18	328.95	6,571.54	3,237.43	-2,171.17	3,898.03	0.76	-0.05	0.76	
10,099.00	91.04	329.02	6,570.30	3,292.27	-2,204.14	3,961.95	0.24	-0.22	0.11	
10,162.00	91.85	329.75	6,568.71	3,346.47	-2,236.22	4,024.84	1.73	1.29	1.16	
10,226.00	91.27	328.96	6,566.97	3,401.51	-2,268.83	4,088.74	1.53	-0.91	-1.23	
10,290.00	90.37	328.66	6,566.05	3,456.25	-2,301.97	4,152.67	1.48	-1.41	-0.47	
10,353.00	90.98	328.59	6,565.31	3,510.04	-2,334.76	4,215.62	0.97	0.97	-0.11	
10,416.00	91.01	328.27	6,564.22	3,563.70	-2,367.74	4,278.57	0.51	0.05	-0.51	
10,480.00	90.37	328.02	6,563.44	3,618.06	-2,401.52	4,342.54	1.07	-1.00	-0.39	
10,544.00	89.87	327.61	6,563.31	3,672.22	-2,435.61	4,406.52	1.01	-0.78	-0.64	
10,608.00	89.73	326.68	6,563.53	3,725.99	-2,470.33	4,470.51	1.47	-0.22	-1.45	
10,671.00	91.08	326.84	6,563.09	3,778.68	-2,504.86	4,533.51	2.16	2.14	0.25	
10,735.00	91.95	327.03	6,561.40	3,832.29	-2,539.76	4,597.48	1.39	1.36	0.30	
10,799.00	91.31	326.38	6,559.58	3,885.76	-2,574.88	4,661.46	1.43	-1.00	-1.02	
10,862.00	90.71	326.77	6,558.47	3,938.34	-2,609.58	4,724.45	1.14	-0.95	0.62	
10,925.00	89.77	325.77	6,558.20	3,990.73	-2,644.56	4,787.44	2.18	-1.49	-1.59	
10,989.00	88.72	325.54	6,559.05	4,043.57	-2,680.67	4,851.43	1.68	-1.64	-0.36	
11,053.00	89.23	325.26	6,560.19	4,096.24	-2,717.00	4,915.41	0.91	0.80	-0.44	
11,116.00	89.90	325.90	6,560.67	4,148.21	-2,752.61	4,978.40	1.47	1.06	1.02	
11,179.00	90.17	325.94	6,560.63	4,200.39	-2,787.91	5,041.40	0.43	0.43	0.06	



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 5H - Slot 5H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,242.00	91.04	325.50	6,559.96	4,252.44	-2,823.39	5,104.39	1.55	1.38	-0.70
11,305.00	91.75	325.14	6,558.43	4,304.23	-2,859.23	5,167.36	1.26	1.13	-0.57
11,369.00	91.71	325.96	6,556.50	4,356.98	-2,895.42	5,231.32	1.28	-0.06	1.28
11,433.00	91.45	327.06	6,554.73	4,410.34	-2,930.72	5,295.30	1.77	-0.41	1.72
11,497.00	90.98	327.38	6,553.38	4,464.13	-2,965.36	5,359.28	0.89	-0.73	0.50
11,560.00	90.44	327.67	6,552.60	4,517.28	-2,999.18	5,422.26	0.97	-0.86	0.46
11,624.00	91.08	328.26	6,551.75	4,571.53	-3,033.13	5,486.23	1.36	1.00	0.92
11,686.00	90.71	328.58	6,550.78	4,624.34	-3,065.59	5,548.18	0.79	-0.60	0.52
11,748.00	89.46	328.57	6,550.69	4,677.24	-3,097.92	5,610.14	2.02	-2.02	-0.02
11,811.00	90.24	328.49	6,550.85	4,730.97	-3,130.81	5,673.09	1.24	1.24	-0.13
11,874.00	90.77	328.06	6,550.30	4,784.56	-3,163.93	5,736.06	1.08	0.84	-0.68
11,906.00	91.14	327.78	6,549.76	4,811.67	-3,180.93	5,768.04	1.45	1.16	-0.88
Last SDI MWD @ 11906 MD									
11,964.00	91.14	327.78	6,548.61	4,860.73	-3,211.84	5,826.02	0.00	0.00	0.00
Projection to Bit @ 11964 MD									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
18.00	18.00	0.00	0.00	First Vaughn Gyro Survey @ 18 MD
2,238.00	2,237.80	13.64	19.30	Last Vaughn Gyro Survey @ 2238 MD
2,273.00	2,272.80	14.21	19.79	First SDI MWD Survey @ 2273 MD
11,906.00	6,549.76	4,811.67	-3,180.93	Last SDI MWD @ 11906 MD
11,964.00	6,548.61	4,860.73	-3,211.84	Projection to Bit @ 11964 MD

Checked By: _____ Approved By: _____ Date: _____