



Stone Energy Corporation

Heather Prospect (NAD 27)

Martin Pad

Martin 7H - Slot 7H

OH

Design: As Drilled

Standard Survey Report

06 November, 2014



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06/02/2017



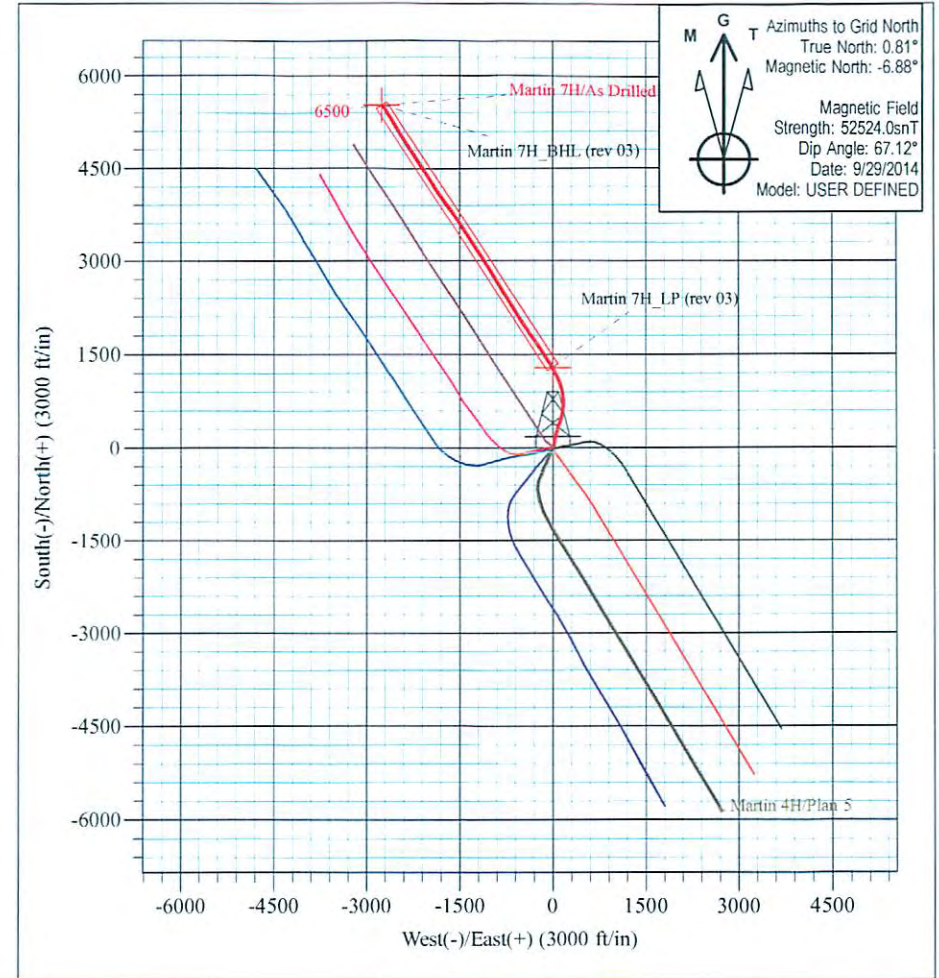
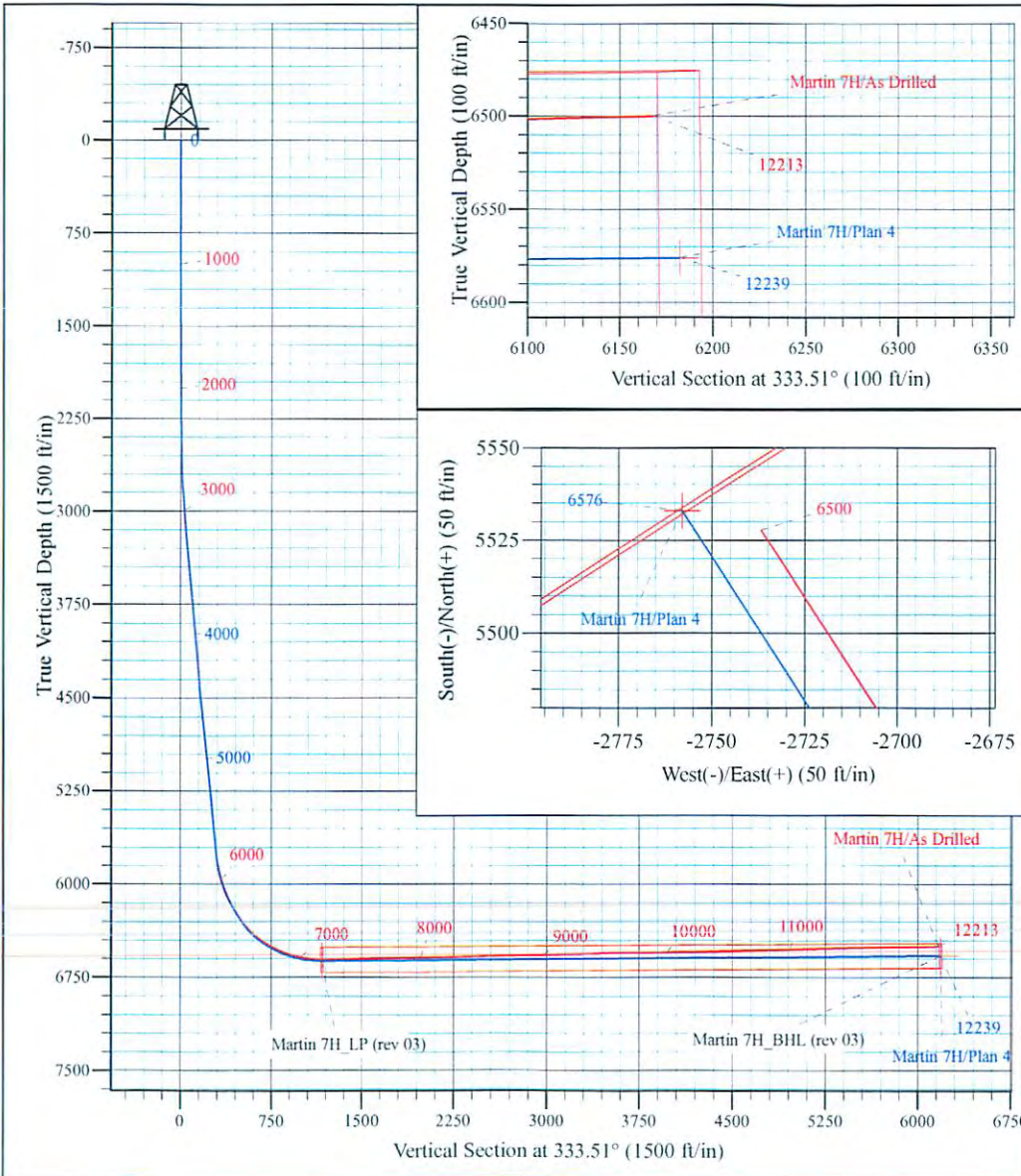
Martin Pad
 Martin 7H
 Plan 4
 GL 906 & KB 18 @ 924.00ft (Saxon 141)
 Heather Prospect (NAD 27)

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 7H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	407760.00	1643294.00	39° 36' 45.491 N	80° 45' 58.204 W



Shane Rhodes
 9:52, November 06 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 7H - Slot 7H
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 7H	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 7H - Slot 7H					
Well Position	+N/-S	0.00 ft	Northing:	407,760.00 usft	Latitude:	39° 36' 45.491 N
	+E/-W	0.00 ft	Easting:	1,643,294.00 usft	Longitude:	80° 45' 58.204 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
	BGGM2014	5/23/2014	-8.54	67.12	52,427
	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		333.51

Survey Program	Date	11/6/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
18.00	2,231.00	Survey 1 - SDI Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,275.00	5,634.00	Survey 2 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,669.00	12,213.00	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	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ground Level											
108.00	0.25	61.46	108.00	0.09	0.17	0.01	0.28	0.28	0.00		
First SDI Gyro Survey @ 108 MD											



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Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 7H	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)	
208.00	0.23	68.50	208.00	0.27	0.55	0.00	0.04	-0.02	7.04	
308.00	0.19	63.37	308.00	0.42	0.89	-0.02	0.04	-0.04	-5.13	
408.00	0.14	79.47	408.00	0.52	1.15	-0.05	0.07	-0.05	16.10	
508.00	0.31	190.70	508.00	0.27	1.22	-0.30	0.38	0.17	111.23	
608.00	0.36	173.09	608.00	-0.31	1.21	-0.81	0.11	0.05	-17.61	
708.00	0.34	172.25	707.99	-0.91	1.29	-1.39	0.02	-0.02	-0.84	
808.00	0.51	172.39	807.99	-1.65	1.39	-2.09	0.17	0.17	0.14	
908.00	0.43	118.20	907.99	-2.26	1.78	-2.82	0.43	-0.08	-54.19	
1,008.00	0.44	57.72	1,007.99	-2.24	2.43	-3.09	0.44	0.01	-60.48	
1,108.00	0.65	54.09	1,107.98	-1.70	3.22	-2.96	0.21	0.21	-3.63	
1,208.00	0.64	36.68	1,207.97	-0.92	4.01	-2.61	0.20	-0.01	-17.41	
1,308.00	0.57	36.39	1,307.97	-0.07	4.64	-2.13	0.07	-0.07	-0.29	
1,408.00	0.62	52.18	1,407.96	0.66	5.36	-1.80	0.17	0.05	15.79	
1,508.00	0.60	47.60	1,507.96	1.35	6.18	-1.55	0.05	-0.02	-4.58	
1,608.00	0.55	49.49	1,607.95	2.01	6.93	-1.29	0.05	-0.05	1.89	
1,708.00	0.49	54.85	1,707.95	2.57	7.64	-1.11	0.08	-0.06	5.36	
1,808.00	0.49	44.36	1,807.95	3.12	8.29	-0.90	0.09	0.00	-10.49	
1,908.00	0.44	36.62	1,907.94	3.74	8.82	-0.59	0.08	-0.05	-7.74	
2,008.00	0.67	34.96	2,007.94	4.52	9.38	-0.14	0.23	0.23	-1.66	
2,108.00	0.83	30.36	2,107.93	5.63	10.08	0.54	0.17	0.16	-4.60	
2,208.00	0.98	16.49	2,207.92	7.07	10.69	1.56	0.26	0.15	-13.87	
2,231.00	0.98	13.47	2,230.91	7.45	10.79	1.85	0.22	0.00	-13.13	
Last SDI Gyro Survey @ 2231 MD										
2,275.00	0.97	2.11	2,274.91	8.19	10.90	2.47	0.44	-0.02	-25.82	
First SDI MWD Survey @ 2275 MD										
2,369.00	1.01	346.60	2,368.89	9.79	10.73	3.97	0.29	0.04	-16.50	
2,464.00	0.99	354.27	2,463.88	11.42	10.46	5.56	0.14	-0.02	8.07	
2,558.00	0.83	0.41	2,557.87	12.91	10.38	6.92	0.20	-0.17	6.53	
2,652.00	2.14	12.90	2,651.83	15.30	10.78	8.89	1.43	1.39	13.29	
2,746.00	3.96	11.27	2,745.70	20.20	11.80	12.81	1.94	1.94	-1.73	
2,840.00	4.79	8.83	2,839.42	27.26	13.04	18.58	0.90	0.88	-2.60	
2,935.00	4.65	3.13	2,934.10	35.02	13.86	25.16	0.51	-0.15	-6.00	
3,029.00	4.16	358.96	3,027.82	42.24	14.01	31.55	0.62	-0.52	-4.44	
3,123.00	4.84	2.96	3,121.53	49.61	14.15	38.08	0.80	0.72	4.26	
3,217.00	6.27	5.63	3,215.09	58.67	14.86	45.88	1.55	1.52	2.84	
3,311.00	6.75	4.82	3,308.48	69.29	15.82	54.95	0.52	0.51	-0.86	
3,405.00	6.95	2.60	3,401.81	80.47	16.55	64.64	0.35	0.21	-2.36	
3,500.00	6.65	359.47	3,496.14	91.72	16.76	74.61	0.50	-0.32	-3.29	
3,593.00	7.19	3.69	3,588.47	102.91	17.08	84.48	0.80	0.58	4.54	
3,687.00	6.70	8.96	3,681.78	114.20	18.31	94.03	0.85	-0.52	5.61	
3,782.00	6.35	16.22	3,776.16	124.71	20.64	102.41	0.94	-0.37	7.64	
3,876.00	6.84	16.63	3,869.54	135.07	23.70	110.31	0.52	0.52	0.44	
3,970.00	7.58	13.07	3,962.80	146.47	26.70	119.18	0.92	0.79	-3.79	
4,064.00	7.73	9.45	4,055.96	158.75	29.14	129.07	0.54	0.16	-3.85	



Scientific Drilling International
Survey Report



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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 7H	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)	
4,158.00	6.88	13.59	4,149.20	170.46	31.50	138.50	1.06	-0.90	4.40	
4,252.00	6.14	19.35	4,242.59	180.67	34.49	146.31	1.05	-0.79	6.13	
4,346.00	5.34	15.91	4,336.12	189.62	37.36	153.04	0.93	-0.85	-3.66	
4,440.00	5.89	11.84	4,429.67	198.55	39.55	160.06	0.72	0.59	-4.33	
4,534.00	7.35	14.83	4,523.04	209.08	42.07	168.35	1.60	1.55	3.18	
4,628.00	8.35	20.10	4,616.16	221.31	45.96	177.56	1.31	1.06	5.61	
4,723.00	8.64	19.25	4,710.12	234.52	50.68	187.28	0.33	0.31	-0.89	
4,817.00	8.67	15.48	4,803.05	248.01	54.90	197.47	0.60	0.03	-4.01	
4,911.00	8.92	11.09	4,895.94	261.99	58.19	208.52	0.76	0.27	-4.67	
5,005.00	8.41	15.08	4,988.87	275.78	61.38	219.43	0.84	-0.54	4.24	
5,099.00	8.58	15.46	5,081.84	289.18	65.04	229.79	0.19	0.18	0.40	
5,193.00	7.90	17.22	5,174.87	302.11	68.82	239.68	0.77	-0.72	1.87	
5,287.00	6.97	16.51	5,268.08	313.75	72.36	248.52	0.99	-0.99	-0.76	
5,382.00	6.67	13.18	5,362.40	324.64	75.25	256.98	0.52	-0.32	-3.51	
5,477.00	6.62	8.54	5,456.77	335.43	77.32	265.71	0.57	-0.05	-4.88	
5,571.00	6.73	10.85	5,550.13	346.20	79.17	274.52	0.31	0.12	2.46	
5,634.00	7.03	12.99	5,612.68	353.58	80.73	280.43	0.63	0.48	3.40	
5,669.00	7.41	11.71	5,647.40	357.88	81.67	283.86	1.18	1.09	-3.66	
5,733.00	6.77	12.58	5,710.91	365.60	83.33	290.03	1.01	-1.00	1.36	
5,765.00	7.62	19.81	5,742.66	369.44	84.46	292.96	3.88	2.66	22.59	
5,797.00	10.02	24.74	5,774.28	373.96	86.34	296.17	7.86	7.50	15.41	
5,828.00	12.36	26.81	5,804.69	379.37	88.97	299.84	7.66	7.55	6.68	
5,860.00	14.71	27.17	5,835.79	386.05	92.37	304.30	7.35	7.34	1.13	
5,892.00	16.50	27.08	5,866.61	393.71	96.29	309.40	5.59	5.59	-0.28	
5,924.00	18.03	26.77	5,897.17	402.18	100.59	315.06	4.79	4.78	-0.97	
5,956.00	20.19	24.56	5,927.41	411.62	105.12	321.50	7.12	6.75	-6.91	
5,988.00	22.58	22.88	5,957.20	422.31	109.80	328.97	7.71	7.47	-5.25	
6,019.00	24.60	19.77	5,985.61	433.86	114.30	337.31	7.65	6.52	-10.03	
6,051.00	26.28	18.56	6,014.51	446.85	118.81	346.92	5.50	5.25	-3.78	
6,083.00	27.64	16.47	6,043.03	460.68	123.17	357.35	5.18	4.25	-6.53	
6,115.00	29.35	15.64	6,071.15	475.35	127.38	368.60	5.49	5.34	-2.59	
6,145.00	31.13	13.32	6,097.07	489.98	131.15	380.01	7.10	5.93	-7.73	
6,175.00	33.46	11.48	6,122.43	505.63	134.59	392.49	8.43	7.77	-6.13	
6,205.00	36.40	11.06	6,147.02	522.48	137.94	406.07	9.83	9.80	-1.40	
6,236.00	37.90	11.34	6,171.73	540.84	141.58	420.88	4.87	4.84	0.90	
6,266.00	38.84	10.16	6,195.25	559.14	145.05	435.71	3.97	3.13	-3.93	
6,296.00	39.27	9.76	6,218.55	577.75	148.32	450.91	1.66	1.43	-1.33	
6,326.00	38.63	9.27	6,241.88	596.35	151.44	466.17	2.37	-2.13	-1.63	
6,357.00	39.16	8.41	6,266.00	615.59	154.43	482.04	2.44	1.71	-2.77	
6,387.00	40.98	6.37	6,288.96	634.74	156.90	498.08	7.48	6.07	-6.80	
6,417.00	42.14	5.36	6,311.41	654.53	158.94	514.89	4.47	3.87	-3.37	
6,447.00	43.73	4.84	6,333.37	674.89	160.75	532.30	5.43	5.30	-1.73	
6,478.00	46.56	3.70	6,355.23	696.80	162.38	551.18	9.49	9.13	-3.68	



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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 7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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6,508.00	49.32	2.72	6,375.33	719.03	163.62	570.52	9.51	9.20	-3.27	
6,538.00	51.59	0.96	6,394.43	742.15	164.36	590.89	8.82	7.57	-5.87	
6,568.00	53.55	359.76	6,412.66	765.97	164.51	612.14	7.26	6.53	-4.00	
6,599.00	55.31	358.06	6,430.70	791.18	164.02	634.92	7.22	5.68	-5.48	
6,629.00	56.68	355.58	6,447.48	816.01	162.64	657.75	8.23	4.57	-8.27	
6,659.00	57.74	353.64	6,463.72	841.12	160.27	681.28	6.48	3.53	-6.47	
6,689.00	59.06	350.08	6,479.45	866.40	156.65	705.53	11.02	4.40	-11.87	
6,719.00	60.41	348.16	6,494.57	891.85	151.75	730.48	7.13	4.50	-6.40	
6,749.00	61.93	345.70	6,509.04	917.44	145.81	756.04	8.79	5.07	-8.20	
6,779.00	64.24	343.90	6,522.62	943.25	138.79	782.27	9.38	7.70	-6.00	
6,810.00	66.21	342.29	6,535.61	970.18	130.60	810.02	7.91	6.35	-5.19	
6,840.00	68.38	341.13	6,547.19	996.45	121.92	837.41	8.06	7.23	-3.87	
6,871.00	70.03	340.20	6,558.19	1,023.80	112.32	866.17	6.02	5.32	-3.00	
6,901.00	71.80	339.30	6,568.00	1,050.39	102.51	894.35	6.55	5.90	-3.00	
6,931.00	74.31	338.48	6,576.74	1,077.16	92.17	922.92	8.77	8.37	-2.73	
6,961.00	77.03	337.88	6,584.17	1,104.14	81.37	951.88	9.27	9.07	-2.00	
6,991.00	79.59	337.26	6,590.25	1,131.30	70.16	981.19	8.77	8.53	-2.07	
7,021.00	79.96	335.83	6,595.57	1,158.38	58.41	1,010.67	4.85	1.23	-4.77	
7,052.00	80.64	334.30	6,600.79	1,186.09	45.52	1,041.21	5.34	2.19	-4.94	
7,082.00	82.16	332.48	6,605.28	1,212.61	32.24	1,070.87	7.85	5.07	-6.07	
7,112.00	85.34	331.87	6,608.55	1,238.97	18.32	1,100.68	10.79	10.60	-2.03	
7,143.00	88.06	331.73	6,610.33	1,266.25	3.70	1,131.61	8.79	8.77	-0.45	
7,175.00	89.53	330.09	6,611.00	1,294.20	-11.86	1,163.57	6.88	4.59	-5.13	
7,206.00	90.13	330.35	6,611.10	1,321.11	-27.25	1,194.52	2.11	1.94	0.84	
7,270.00	91.11	328.61	6,610.40	1,376.24	-59.75	1,258.35	3.12	1.53	-2.72	
7,334.00	91.85	327.60	6,608.75	1,430.55	-93.56	1,322.05	1.96	1.16	-1.58	
7,397.00	92.46	325.79	6,606.37	1,483.17	-128.12	1,384.56	3.04	1.00	-2.87	
7,461.00	92.45	325.45	6,603.62	1,535.94	-164.23	1,447.89	0.53	-0.05	-0.53	
7,525.00	91.34	325.70	6,601.50	1,588.70	-200.39	1,511.24	1.78	-1.73	0.39	
7,588.00	91.17	326.20	6,600.12	1,640.89	-235.65	1,573.68	0.84	-0.27	0.79	
7,652.00	91.81	325.34	6,598.46	1,693.78	-271.64	1,637.08	1.67	1.00	-1.34	
7,716.00	91.54	324.53	6,596.59	1,746.14	-308.40	1,700.34	1.33	-0.42	-1.27	
7,779.00	91.24	324.95	6,595.06	1,797.57	-344.75	1,762.58	0.82	-0.48	0.67	
7,843.00	90.37	326.39	6,594.16	1,850.41	-380.84	1,825.98	2.63	-1.36	2.25	
7,906.00	90.57	326.51	6,593.64	1,902.92	-415.66	1,888.50	0.37	0.32	0.19	
7,970.00	91.17	326.45	6,592.67	1,956.27	-451.00	1,952.01	0.94	0.94	-0.09	
8,034.00	90.84	326.27	6,591.55	2,009.54	-486.45	2,015.50	0.59	-0.52	-0.28	
8,097.00	90.10	327.59	6,591.03	2,062.33	-520.82	2,078.08	2.40	-1.17	2.10	
8,159.00	91.04	329.34	6,590.41	2,115.17	-553.24	2,139.84	3.20	1.52	2.82	
8,222.00	91.64	329.18	6,588.94	2,169.30	-585.44	2,202.65	0.99	0.95	-0.25	
8,286.00	91.91	328.57	6,586.96	2,224.06	-618.50	2,266.41	1.04	0.42	-0.95	
8,350.00	91.18	328.28	6,585.23	2,278.57	-652.00	2,330.13	1.23	-1.14	-0.45	
8,413.00	90.74	327.94	6,584.18	2,332.05	-685.28	2,392.84	0.88	-0.70	-0.54	



Scientific Drilling International
Survey Report



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 7H - Slot 7H
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 7H	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)	
8,474.00	91.41	327.71	6,583.03	2,383.67	-717.76	2,453.53	1.16	1.10	-0.38	
8,538.00	92.24	327.25	6,580.99	2,437.61	-752.14	2,517.15	1.48	1.30	-0.72	
8,601.00	91.81	327.35	6,578.77	2,490.59	-786.16	2,579.74	0.70	-0.68	0.16	
8,665.00	90.40	328.27	6,577.53	2,544.74	-820.25	2,643.41	2.63	-2.20	1.44	
8,729.00	91.21	328.32	6,576.64	2,599.19	-853.88	2,707.14	1.27	1.27	0.08	
8,792.00	91.55	328.30	6,575.12	2,652.78	-886.96	2,769.86	0.54	0.54	-0.03	
8,855.00	91.38	327.81	6,573.51	2,706.22	-920.29	2,832.55	0.82	-0.27	-0.78	
8,919.00	91.47	328.31	6,571.92	2,760.51	-954.13	2,896.24	0.79	0.14	0.78	
8,983.00	89.63	328.29	6,571.30	2,814.96	-987.76	2,959.98	2.88	-2.88	-0.03	
9,046.00	90.27	328.35	6,571.36	2,868.57	-1,020.85	3,022.72	1.02	1.02	0.10	
9,110.00	90.84	327.42	6,570.74	2,922.78	-1,054.87	3,086.41	1.70	0.89	-1.45	
9,174.00	91.34	326.94	6,569.52	2,976.55	-1,089.55	3,150.00	1.08	0.78	-0.75	
9,238.00	92.05	326.68	6,567.63	3,030.08	-1,124.57	3,213.54	1.18	1.11	-0.41	
9,301.00	92.75	326.39	6,564.99	3,082.59	-1,159.28	3,276.02	1.20	1.11	-0.46	
9,365.00	93.22	326.69	6,561.65	3,135.91	-1,194.52	3,339.46	0.87	0.73	0.47	
9,428.00	91.51	326.26	6,559.06	3,188.39	-1,229.28	3,401.93	2.80	-2.71	-0.68	
9,492.00	91.98	326.27	6,557.11	3,241.59	-1,264.81	3,465.39	0.73	0.73	0.02	
9,556.00	91.91	326.73	6,554.93	3,294.92	-1,300.11	3,528.88	0.73	-0.11	0.72	
9,619.00	90.64	326.81	6,553.53	3,347.61	-1,334.62	3,591.42	2.02	-2.02	0.13	
9,683.00	90.00	327.21	6,553.17	3,401.29	-1,369.47	3,655.01	1.18	-1.00	0.63	
9,747.00	89.03	327.49	6,553.72	3,455.17	-1,404.00	3,718.64	1.58	-1.52	0.44	
9,810.00	89.53	327.78	6,554.51	3,508.38	-1,437.72	3,781.30	0.92	0.79	0.46	
9,874.00	90.13	327.03	6,554.70	3,562.30	-1,472.20	3,844.94	1.50	0.94	-1.17	
9,937.00	92.18	329.35	6,553.43	3,615.82	-1,505.39	3,907.65	4.91	3.25	3.68	
10,001.00	92.78	328.51	6,550.66	3,670.59	-1,538.39	3,971.38	1.61	0.94	-1.31	
10,064.00	91.68	326.07	6,548.21	3,723.55	-1,572.41	4,033.96	4.25	-1.75	-3.87	
10,128.00	90.00	324.42	6,547.27	3,776.12	-1,608.88	4,097.29	3.68	-2.63	-2.58	
10,191.00	91.04	324.07	6,546.70	3,827.25	-1,645.69	4,159.46	1.74	1.65	-0.56	
10,255.00	92.28	323.28	6,544.84	3,878.79	-1,683.59	4,222.49	2.30	1.94	-1.23	
10,317.00	92.31	322.90	6,542.36	3,928.32	-1,720.79	4,283.42	0.61	0.05	-0.61	
10,380.00	91.04	324.14	6,540.52	3,978.95	-1,758.23	4,345.44	2.82	-2.02	1.97	
10,444.00	90.87	325.76	6,539.45	4,031.34	-1,794.98	4,408.72	2.54	-0.27	2.53	
10,507.00	91.57	326.52	6,538.11	4,083.64	-1,830.07	4,471.18	1.64	1.11	1.21	
10,570.00	91.88	327.35	6,536.21	4,136.41	-1,864.43	4,533.74	1.41	0.49	1.32	
10,633.00	92.08	328.24	6,534.04	4,189.69	-1,897.99	4,596.39	1.45	0.32	1.41	
10,697.00	91.68	328.75	6,531.94	4,244.22	-1,931.41	4,660.11	1.01	-0.63	0.80	
10,760.00	91.04	328.41	6,530.44	4,297.97	-1,964.24	4,722.86	1.15	-1.02	-0.54	
10,823.00	92.02	329.03	6,528.76	4,351.79	-1,996.94	4,785.61	1.84	1.56	0.98	
10,887.00	91.28	328.24	6,526.92	4,406.42	-2,030.24	4,849.36	1.69	-1.16	-1.23	
10,951.00	91.21	326.77	6,525.53	4,460.38	-2,064.61	4,912.99	2.30	-0.11	-2.30	
11,014.00	92.05	326.29	6,523.73	4,512.91	-2,099.34	4,975.50	1.54	1.33	-0.76	
11,078.00	92.52	326.35	6,521.18	4,566.13	-2,134.81	5,038.94	0.74	0.73	0.09	
11,141.00	91.11	326.53	6,519.19	4,618.60	-2,169.62	5,101.43	2.26	-2.24	0.29	
11,204.00	90.47	326.48	6,518.32	4,671.13	-2,204.38	5,163.96	1.02	-1.02	-0.08	



Scientific Drilling International
Survey Report



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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 7H	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)
11,267.00	91.10	325.96	6,517.46	4,723.49	-2,239.40	5,226.44	1.30	1.00	-0.83
11,331.00	91.27	326.57	6,516.13	4,776.70	-2,274.94	5,289.92	0.99	0.27	0.95
11,395.00	90.37	328.08	6,515.22	4,830.57	-2,309.49	5,353.54	2.75	-1.41	2.36
11,459.00	91.34	327.77	6,514.26	4,884.79	-2,343.47	5,417.22	1.59	1.52	-0.48
11,522.00	91.71	328.79	6,512.59	4,938.36	-2,376.58	5,479.94	1.72	0.59	1.62
11,586.00	90.30	328.86	6,511.46	4,993.11	-2,409.70	5,543.71	2.21	-2.20	0.11
11,650.00	91.34	328.78	6,510.55	5,047.86	-2,442.83	5,607.49	1.63	1.63	-0.13
11,713.00	92.28	329.41	6,508.56	5,101.88	-2,475.17	5,670.27	1.80	1.49	1.00
11,777.00	92.11	329.16	6,506.11	5,156.87	-2,507.84	5,734.05	0.47	-0.27	-0.39
11,841.00	89.87	329.10	6,505.00	5,211.79	-2,540.67	5,797.85	3.50	-3.50	-0.09
11,903.00	90.80	329.28	6,504.64	5,265.04	-2,572.43	5,859.68	1.53	1.50	0.29
11,966.00	90.97	329.33	6,503.66	5,319.20	-2,604.58	5,922.50	0.28	0.27	0.08
12,030.00	90.30	327.98	6,502.95	5,373.86	-2,637.87	5,986.26	2.35	-1.05	-2.11
12,092.00	90.74	327.49	6,502.39	5,426.28	-2,670.97	6,047.95	1.06	0.71	-0.79
12,155.00	91.38	326.85	6,501.23	5,479.21	-2,705.12	6,110.55	1.44	1.02	-1.02
Last MWD Survey @ 12155 MD									
12,213.00	91.38	326.85	6,499.83	5,527.76	-2,736.82	6,168.14	0.00	0.00	0.00
Projection to Bit @ 12213 MD									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
18.00	18.00	0.00	0.00	Ground Level
108.00	108.00	0.09	0.17	First SDI Gyro Survey @ 108 MD
2,231.00	2,230.91	7.45	10.79	Last SDI Gyro Survey @ 2231 MD
2,275.00	2,274.91	8.19	10.90	First SDI MWD Survey @ 2275 MD
12,155.00	6,501.23	5,479.21	-2,705.12	Last MWD Survey @ 12155 MD
12,213.00	6,499.83	5,527.76	-2,736.82	Projection to Bit @ 12213 MD

Checked By: _____	Approved By: _____	Date: _____
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