



Stone Energy Corporation

Mary Prospect
Smith Pad
5H

OH

Design: As Drilled

Standard Survey Report

03 October, 2014



www.scientificdrilling.com

06/02/2017



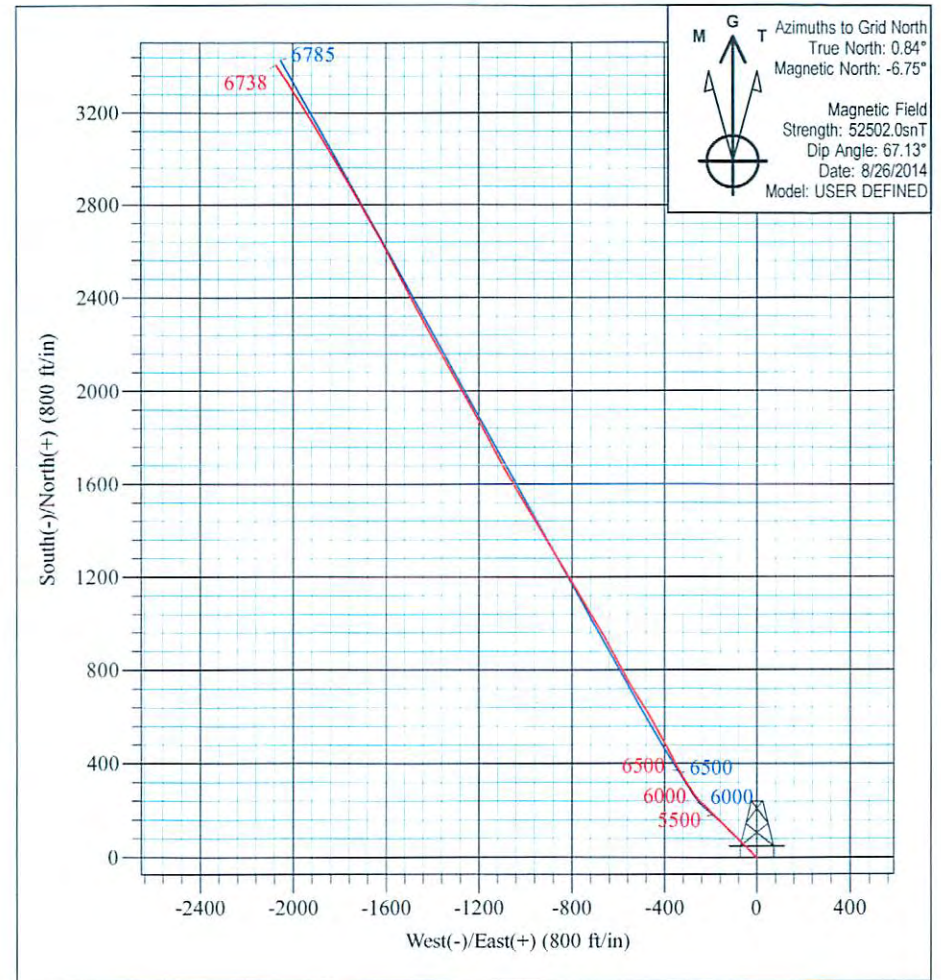
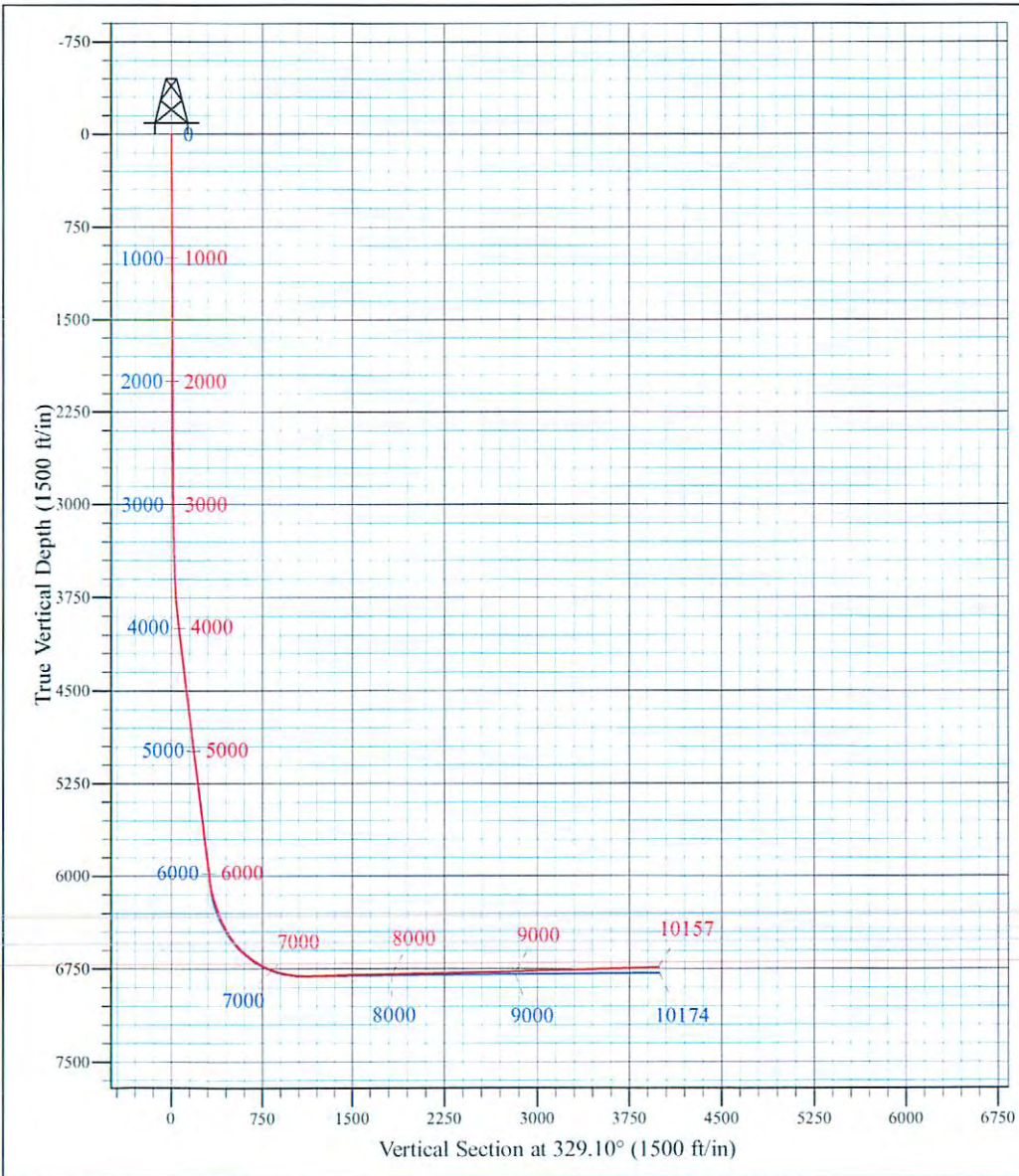
Smith Pad
5H
As Drilled
GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Mary Prospect

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: 5H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	420270.00	1630849.00	39° 38' 47.359 N	80° 48' 39.544 W	



M G T
 Azimuths to Grid North
 True North: 0.84°
 Magnetic North: -6.75°
 Magnetic Field
 Strength: 52502.0snT
 Dip Angle: 67.13°
 Date: 8/26/2014
 Model: USER DEFINED

Robert Ebbecke
 14:52, October 03 2014
 Scientific Drilling International
 124 Vista Drive
 Charleroi, PA 15022



Scientific Drilling International
Survey Report



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well 5H
Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Project	Mary Prospect, 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	Smith Pad				
Site Position:		Northing:	420,251.00 usft	Latitude:	39° 38' 47.168 N
From:	Map	Easting:	1,630,827.00 usft	Longitude:	80° 48' 39.822 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.84 °

Well	5H					
Well Position	+N/-S	0.00 ft	Northing:	420,270.00 usft	Latitude:	39° 38' 47.359 N
	+E/-W	0.00 ft	Easting:	1,630,849.00 usft	Longitude:	80° 48' 39.544 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	1,321.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	8/21/2013	-8.54	67.20	52,536
	BGGM2013	12/19/2013	-8.55	67.17	52,494
	BGGM2014	6/11/2014	-8.52	67.15	52,439
	User Defined	6/12/2014	-7.56	67.15	52,542
	User Defined	8/26/2014	-7.59	67.13	52,502

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		329.10

Survey Program	Date	10/3/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
103.00	2,348.00	Survey #1 - VES Gyro Surveys in 9-5/8" C	VES GyroFlex		
2,579.00	5,077.01	Survey #2 - SDI MWD Surveys to KOP (O	SDI MWD	SDI MWD - Standard ver 1.0.1	
5,077.01	10,157.00	Survey #3 - SDI MWD Curve and Lateral S	SDI MWD	SDI MWD - Standard ver 1.0.1	

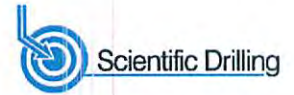
Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103.00	0.22	274.93	103.00	0.02	-0.20	0.12	0.21	0.21	0.00	0.00
First Vaughn Gyro Survey										
203.00	0.37	280.03	203.00	0.09	-0.71	0.44	0.15	0.15	5.10	
303.00	0.39	320.87	303.00	0.41	-1.24	0.99	0.27	0.02	40.84	

Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well 5H
Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	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)	
403.00	0.32	310.25	403.00	0.85	-1.67	1.59	0.10	-0.07	-10.62	
503.00	0.26	303.89	502.99	1.16	-2.07	2.06	0.07	-0.06	-6.36	
603.00	0.32	316.12	602.99	1.49	-2.45	2.54	0.09	0.06	12.23	
703.00	0.22	316.37	702.99	1.83	-2.78	3.00	0.10	-0.10	0.25	
803.00	0.33	319.22	802.99	2.19	-3.10	3.47	0.11	0.11	2.85	
903.00	0.19	279.58	902.99	2.43	-3.45	3.86	0.22	-0.14	-39.64	
1,003.00	0.28	276.87	1,002.99	2.49	-3.85	4.12	0.09	0.09	-2.71	
1,103.00	0.41	289.52	1,102.99	2.64	-4.43	4.54	0.15	0.13	12.65	
1,203.00	0.24	306.38	1,202.99	2.88	-4.94	5.01	0.19	-0.17	16.86	
1,303.00	0.22	300.69	1,302.99	3.10	-5.27	5.37	0.03	-0.02	-5.69	
1,403.00	0.44	303.64	1,402.98	3.41	-5.76	5.89	0.22	0.22	2.95	
1,503.00	0.25	284.81	1,502.98	3.68	-6.29	6.39	0.22	-0.19	-18.83	
1,603.00	0.34	276.09	1,602.98	3.77	-6.80	6.72	0.10	0.09	-8.72	
1,703.00	0.36	303.62	1,702.98	3.98	-7.35	7.19	0.17	0.02	27.53	
1,803.00	0.42	307.18	1,802.98	4.37	-7.91	7.81	0.06	0.06	3.56	
1,903.00	0.51	307.00	1,902.98	4.86	-8.55	8.56	0.09	0.09	-0.18	
2,003.00	0.36	325.77	2,002.97	5.39	-9.09	9.29	0.21	-0.15	18.77	
2,103.00	0.53	324.34	2,102.97	6.02	-9.53	10.06	0.17	0.17	-1.43	
2,203.00	0.33	322.03	2,202.97	6.63	-9.98	10.81	0.20	-0.20	-2.31	
2,303.00	0.20	320.23	2,302.97	6.99	-10.27	11.27	0.13	-0.13	-1.80	
2,348.00	0.22	321.52	2,347.96	7.12	-10.37	11.43	0.05	0.04	2.87	
Last Vaughn Gyro Survey										
2,579.00	0.50	342.49	2,578.96	8.42	-10.95	12.85	0.13	0.12	9.08	
First SDI MWD (Air) Survey @ 2579.00 MD										
2,673.00	0.42	326.98	2,672.95	9.10	-11.26	13.59	0.16	-0.09	-16.50	
2,766.00	0.61	330.98	2,765.95	9.82	-11.69	14.43	0.21	0.20	4.30	
2,861.00	0.69	326.24	2,860.94	10.74	-12.25	15.51	0.10	0.08	-4.99	
2,953.00	0.62	319.32	2,952.94	11.58	-12.88	16.55	0.11	-0.08	-7.52	
3,044.00	0.73	322.52	3,043.93	12.41	-13.56	17.61	0.13	0.12	3.52	
3,137.00	0.79	314.86	3,136.92	13.33	-14.37	18.82	0.13	0.06	-8.24	
3,231.00	1.04	318.25	3,230.91	14.43	-15.40	20.29	0.27	0.27	3.61	
3,322.00	1.12	315.16	3,321.89	15.67	-16.58	21.96	0.11	0.09	-3.40	
3,413.00	1.63	317.61	3,412.87	17.26	-18.08	24.09	0.56	0.56	2.69	
3,503.00	2.22	314.79	3,502.82	19.43	-20.18	27.04	0.66	0.66	-3.13	
3,594.00	2.33	316.39	3,593.75	22.02	-22.70	30.55	0.14	0.12	1.76	
3,688.00	3.05	313.47	3,687.64	25.12	-25.84	34.82	0.78	0.77	-3.11	
3,782.00	4.60	316.91	3,781.43	29.59	-30.23	40.91	1.67	1.65	3.66	
3,875.00	6.31	320.69	3,874.00	36.27	-36.01	49.62	1.88	1.84	4.06	
3,965.00	7.56	317.48	3,963.34	44.46	-43.15	60.31	1.45	1.39	-3.57	
4,059.00	7.68	312.45	4,056.52	53.26	-51.96	72.38	0.72	0.13	-5.35	
4,152.00	7.60	310.67	4,148.69	61.46	-61.21	84.17	0.27	-0.09	-1.91	
4,245.00	7.44	309.64	4,240.89	69.31	-70.51	95.68	0.22	-0.17	-1.11	
4,336.00	7.08	313.32	4,331.16	76.92	-79.13	106.63	0.65	-0.40	4.04	



Scientific Drilling International
Survey Report

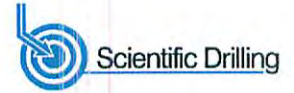


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Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)	
4,428.00	6.82	313.22	4,422.49	84.55	-87.23	117.34	0.28	-0.28	-0.11	
4,522.00	7.31	313.86	4,515.77	92.51	-95.61	128.48	0.53	0.52	0.68	
4,617.00	7.03	316.05	4,610.03	100.89	-104.01	139.98	0.41	-0.29	2.31	
4,708.00	6.83	314.83	4,700.36	108.71	-111.71	150.65	0.27	-0.22	-1.34	
4,798.00	6.85	315.28	4,789.72	116.30	-119.28	161.04	0.06	0.02	0.50	
4,889.00	6.71	317.55	4,880.09	124.08	-126.69	171.52	0.33	-0.15	2.49	
4,985.00	7.08	316.83	4,975.39	132.53	-134.52	182.80	0.40	0.39	-0.75	
5,077.00	7.41	310.97	5,066.66	140.55	-142.88	193.98	0.88	0.36	-6.37	
Last SDI MWD (Air) Survey @ 5077.00 MD										
5,108.00	7.49	312.35	5,097.40	143.23	-145.88	197.81	0.63	0.26	4.45	
First SDI MWD (Fluid) Survey @ 5108.00 MD										
5,172.00	7.54	312.62	5,160.85	148.88	-152.05	205.83	0.10	0.08	0.42	
5,235.00	8.07	313.63	5,223.26	154.73	-158.30	214.06	0.87	0.84	1.60	
5,299.00	7.63	313.50	5,286.66	160.75	-164.63	222.48	0.69	-0.69	-0.20	
5,363.00	7.14	311.83	5,350.13	166.33	-170.68	230.37	0.84	-0.77	-2.61	
5,427.00	7.83	312.46	5,413.59	171.93	-176.86	238.34	1.09	1.08	0.98	
5,490.00	7.56	313.26	5,476.02	177.66	-183.04	246.44	0.46	-0.43	1.27	
5,554.00	6.88	312.11	5,539.51	183.12	-188.95	254.16	1.09	-1.06	-1.80	
5,617.00	7.46	315.25	5,602.02	188.55	-194.63	261.74	1.11	0.92	4.98	
5,681.00	7.42	316.69	5,665.48	194.51	-200.39	269.81	0.30	-0.06	2.25	
5,745.00	6.96	315.14	5,728.98	200.27	-205.96	277.61	0.78	-0.72	-2.42	
5,808.00	7.88	314.95	5,791.45	206.02	-211.71	285.50	1.46	1.46	-0.30	
5,872.00	7.87	314.65	5,854.85	212.20	-217.93	294.00	0.07	-0.02	-0.47	
5,935.00	7.13	313.66	5,917.31	217.93	-223.83	301.94	1.19	-1.17	-1.57	
5,999.00	6.18	312.94	5,980.87	223.02	-229.22	309.08	1.49	-1.48	-1.13	
6,030.00	6.00	312.27	6,011.70	225.25	-231.64	312.23	0.62	-0.58	-2.16	
6,062.00	6.69	310.05	6,043.50	227.57	-234.31	315.59	2.29	2.16	-6.94	
6,094.00	8.86	310.98	6,075.21	230.39	-237.59	319.70	6.79	6.78	2.91	
6,125.00	12.02	312.74	6,105.69	234.15	-241.77	325.07	10.24	10.19	5.68	
6,157.00	14.69	316.48	6,136.82	239.35	-247.01	332.22	8.77	8.34	11.69	
6,189.00	16.49	318.51	6,167.64	245.70	-252.81	340.65	5.88	5.63	6.34	
6,220.00	17.85	320.88	6,197.26	252.68	-258.73	349.68	4.93	4.39	7.65	
6,252.00	19.27	323.31	6,227.60	260.72	-264.98	359.78	5.05	4.44	7.59	
6,284.00	19.51	323.65	6,257.78	269.26	-271.30	370.36	0.83	0.75	1.06	
6,316.00	20.04	323.16	6,287.90	277.95	-277.75	381.13	1.74	1.66	-1.53	
6,348.00	20.78	323.66	6,317.89	286.91	-284.40	392.23	2.38	2.31	1.56	
6,379.00	22.28	325.47	6,346.72	296.18	-290.99	403.57	5.29	4.84	5.84	
6,411.00	25.33	327.01	6,376.00	306.92	-298.16	416.47	9.73	9.53	4.81	
6,443.00	27.66	327.82	6,404.63	318.95	-305.85	430.74	7.37	7.28	2.53	
6,475.00	29.29	328.71	6,432.76	331.93	-313.87	445.99	5.26	5.09	2.78	
6,506.00	30.93	329.95	6,459.58	345.30	-321.80	461.54	5.66	5.29	4.00	
6,538.00	33.43	331.08	6,486.66	360.14	-330.18	478.58	8.04	7.81	3.53	
6,570.00	36.05	332.32	6,512.95	376.20	-338.82	496.79	8.48	8.19	3.88	
6,601.00	38.63	332.97	6,537.60	392.90	-347.45	515.56	8.42	8.32	2.10	



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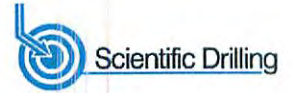


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Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

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)
6,633.00	41.44	332.26	6,562.10	411.17	-356.92	536.10	8.90	8.78	-2.22
6,665.00	44.06	331.43	6,585.59	430.32	-367.17	557.80	8.37	8.19	-2.59
6,697.00	46.25	331.33	6,608.16	450.23	-378.04	580.47	6.85	6.84	-0.31
6,729.00	49.26	331.45	6,629.67	471.03	-389.38	604.13	9.41	9.41	0.38
6,761.00	52.31	330.98	6,649.90	492.75	-401.32	628.91	9.60	9.53	-1.47
6,793.00	54.49	331.46	6,668.98	515.27	-413.69	654.58	6.92	6.81	1.50
6,825.00	56.65	331.42	6,687.07	538.45	-426.31	680.95	6.75	6.75	-0.13
6,857.00	58.83	331.18	6,704.15	562.18	-439.30	707.99	6.84	6.81	-0.75
6,887.00	60.94	329.77	6,719.20	584.76	-452.09	733.93	8.12	7.03	-4.70
6,921.00	63.11	328.84	6,735.15	610.58	-467.42	763.95	6.82	6.38	-2.74
6,953.00	66.37	327.39	6,748.80	635.15	-482.71	792.88	10.98	10.19	-4.53
6,985.00	69.88	327.01	6,760.72	660.10	-498.79	822.56	11.02	10.97	-1.19
7,017.00	74.37	327.68	6,770.54	685.74	-515.22	852.99	14.17	14.03	2.09
7,048.00	75.71	329.40	6,778.55	711.28	-530.85	882.94	6.89	4.32	5.55
7,080.00	76.05	329.68	6,786.35	738.03	-546.58	913.97	1.36	1.06	0.88
7,112.00	77.84	330.37	6,793.58	765.04	-562.15	945.14	5.98	5.59	2.16
7,144.00	80.81	331.06	6,799.51	792.46	-577.53	976.57	9.52	9.28	2.16
7,176.00	83.31	332.03	6,803.93	820.32	-592.63	1,008.23	8.37	7.81	3.03
7,208.00	86.03	332.04	6,806.90	848.46	-607.57	1,040.04	8.50	8.50	0.03
7,240.00	88.72	331.34	6,808.37	876.60	-622.73	1,071.98	8.69	8.41	-2.19
7,271.00	89.90	331.24	6,808.74	903.79	-637.62	1,102.95	3.82	3.81	-0.32
7,335.00	89.90	330.25	6,808.85	959.62	-668.90	1,166.92	1.55	0.00	-1.55
7,398.00	90.24	329.86	6,808.77	1,014.21	-700.34	1,229.91	0.82	0.54	-0.62
7,461.00	90.74	329.26	6,808.24	1,068.53	-732.26	1,292.91	1.24	0.79	-0.95
7,525.00	91.61	328.58	6,806.92	1,123.33	-765.29	1,356.89	1.73	1.36	-1.06
7,589.00	92.45	328.35	6,804.66	1,177.84	-798.74	1,420.85	1.36	1.31	-0.36
7,652.00	93.30	328.56	6,801.50	1,231.46	-831.66	1,483.77	1.39	1.35	0.33
7,716.00	92.82	329.11	6,798.08	1,286.15	-864.73	1,547.67	1.14	-0.75	0.86
7,780.00	91.85	330.14	6,795.47	1,341.32	-897.07	1,611.62	2.21	-1.52	1.61
7,843.00	91.88	329.58	6,793.42	1,395.77	-928.69	1,674.58	0.89	0.05	-0.89
7,907.00	91.38	328.95	6,791.60	1,450.76	-961.38	1,738.55	1.26	-0.78	-0.98
7,971.00	91.14	328.69	6,790.19	1,505.50	-994.51	1,802.53	0.55	-0.38	-0.41
8,035.00	90.50	329.37	6,789.28	1,560.37	-1,027.44	1,866.53	1.46	-1.00	1.06
8,099.00	90.64	329.46	6,788.64	1,615.46	-1,060.00	1,930.52	0.26	0.22	0.14
8,163.00	90.27	331.23	6,788.13	1,671.08	-1,091.66	1,994.50	2.83	-0.58	2.77
8,226.00	90.70	332.59	6,787.60	1,726.65	-1,121.33	2,057.42	2.26	0.68	2.16
8,290.00	90.97	331.69	6,786.67	1,783.23	-1,151.23	2,121.33	1.47	0.42	-1.41
8,353.00	91.54	331.88	6,785.29	1,838.73	-1,181.01	2,184.24	0.95	0.90	0.30
8,415.00	91.55	331.08	6,783.62	1,893.18	-1,210.60	2,246.16	1.29	0.02	-1.29
8,479.00	91.11	330.57	6,782.13	1,949.05	-1,241.79	2,310.12	1.05	-0.69	-0.80
8,543.00	91.78	330.66	6,780.52	2,004.80	-1,273.18	2,374.08	1.06	1.05	0.14
8,606.00	91.18	329.96	6,778.89	2,059.51	-1,304.38	2,437.04	1.46	-0.95	-1.11
8,670.00	91.18	330.18	6,777.57	2,114.96	-1,336.30	2,501.02	0.34	0.00	0.34



Scientific Drilling International
Survey Report



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well 5H
Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	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)
8,734.00	91.95	330.50	6,775.82	2,170.55	-1,367.96	2,564.98	1.30	1.20	0.50
8,798.00	91.58	330.63	6,773.85	2,226.27	-1,399.40	2,628.93	0.61	-0.58	0.20
8,861.00	91.68	330.88	6,772.06	2,281.21	-1,430.16	2,691.87	0.43	0.16	0.40
8,925.00	90.94	332.51	6,770.60	2,337.54	-1,460.50	2,755.79	2.80	-1.16	2.55
8,988.00	91.01	332.90	6,769.52	2,393.52	-1,489.39	2,818.66	0.63	0.11	0.62
9,052.00	91.55	331.74	6,768.09	2,450.18	-1,519.11	2,882.54	2.00	0.84	-1.81
9,115.00	91.85	332.46	6,766.23	2,505.83	-1,548.57	2,945.42	1.24	0.48	1.14
9,179.00	91.91	332.30	6,764.13	2,562.51	-1,578.23	3,009.28	0.27	0.09	-0.25
9,243.00	92.08	332.48	6,761.90	2,619.19	-1,607.87	3,073.14	0.39	0.27	0.28
9,306.00	91.28	331.89	6,760.05	2,674.88	-1,637.26	3,136.02	1.58	-1.27	-0.94
9,370.00	90.94	329.96	6,758.81	2,730.81	-1,668.35	3,199.97	3.06	-0.53	-3.02
9,434.00	91.38	330.03	6,757.52	2,786.22	-1,700.35	3,263.95	0.70	0.69	0.11
9,497.00	91.95	330.36	6,755.68	2,840.86	-1,731.65	3,326.91	1.05	0.90	0.52
9,561.00	92.52	329.50	6,753.19	2,896.20	-1,763.69	3,390.86	1.61	0.89	-1.34
9,625.00	92.02	329.93	6,750.65	2,951.43	-1,795.94	3,454.80	1.03	-0.78	0.67
9,688.00	90.67	329.95	6,749.18	3,005.94	-1,827.49	3,517.78	2.14	-2.14	0.03
9,752.00	90.60	329.89	6,748.47	3,061.31	-1,859.56	3,581.77	0.14	-0.11	-0.09
9,816.00	90.64	329.41	6,747.77	3,116.54	-1,891.90	3,645.76	0.75	0.06	-0.75
9,880.00	91.28	329.25	6,746.70	3,171.58	-1,924.54	3,709.75	1.03	1.00	-0.25
9,943.00	92.22	328.12	6,744.78	3,225.38	-1,957.27	3,772.72	2.33	1.49	-1.79
10,005.00	92.22	328.27	6,742.38	3,278.03	-1,989.92	3,834.66	0.24	0.00	0.24
10,067.00	91.65	328.49	6,740.28	3,330.79	-2,022.41	3,896.62	0.99	-0.92	0.35
10,099.00	91.78	327.57	6,739.32	3,357.93	-2,039.34	3,928.60	2.90	0.41	-2.88
Last SDI MWD (Fluid) Survey @ 10099.00 MD									
10,157.00	91.78	327.57	6,737.52	3,406.86	-2,070.43	3,986.55	0.00	0.00	0.00
Projection to Bit @ 10157.00 MD									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
103.00	103.00	0.02	-0.20	First Vaughn Gyro Survey
2,348.00	2,347.96	7.12	-10.37	Last Vaughn Gyro Survey
2,579.00	2,578.96	8.42	-10.95	First SDI MWD (Air) Survey @ 2579.00 MD
5,077.00	5,066.66	140.55	-142.88	Last SDI MWD (Air) Survey @ 5077.00 MD
5,108.00	5,097.40	143.23	-145.88	First SDI MWD (Fluid) Survey @ 5108.00 MD
10,099.00	6,739.32	3,357.93	-2,039.34	Last SDI MWD (Fluid) Survey @ 10099.00 MD
10,157.00	6,737.52	3,406.86	-2,070.43	Projection to Bit @ 10157.00 MD

Checked By: _____ Approved By: _____ Date: _____