



Stone Energy Corporation

Mary Prospect
Smith Pad
7H

OH

Design: As Drilled

Standard Survey Report

26 August, 2014



www.scientificdrilling.com

09/15/2017



Project: Mary Prospect
 Site: Smith Pad
 Well: 7H
 Wellbore: OH
 Design: As Drilled



WELL DETAILS: 7H

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	420250.00	1321.00 1630847.00	39° 38' 47.161 N	80° 48' 39.566 W

REFERENCE INFORMATION

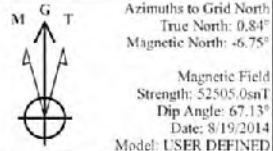
Co-ordinate (N/E) Reference: Well 7H, Grid North
 Vertical (TVD) Reference: GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
 Calculation Method: Minimum Curvature

PROJECT DETAILS: Mary Prospect

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

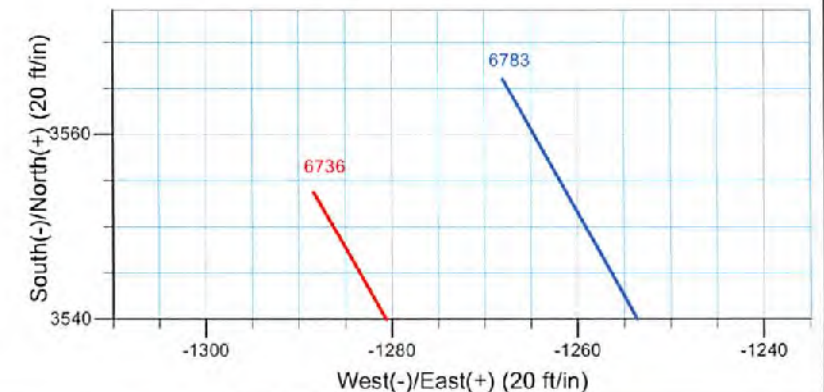
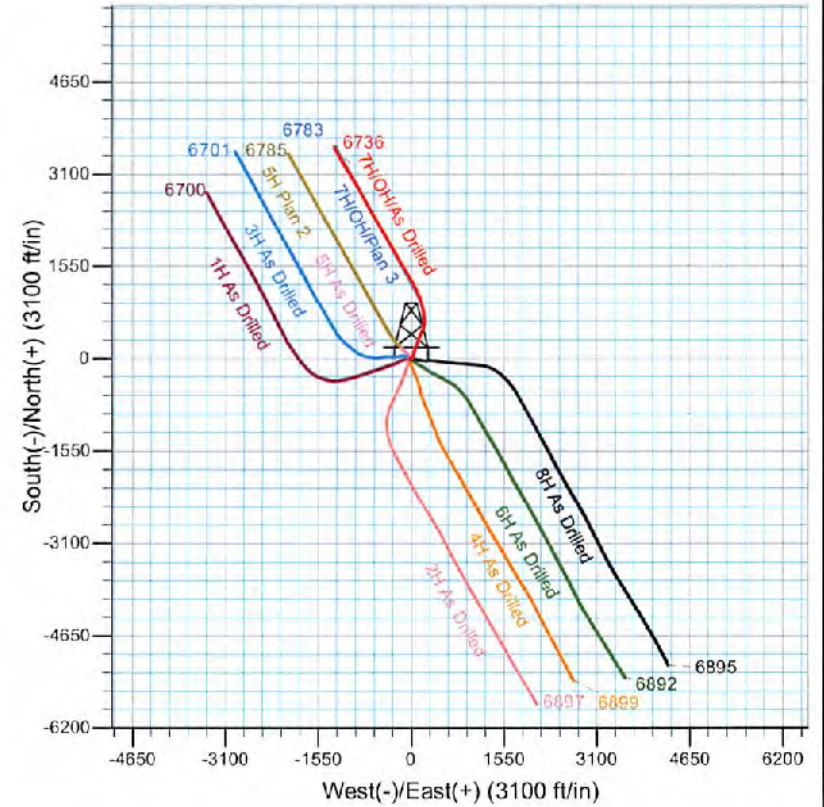
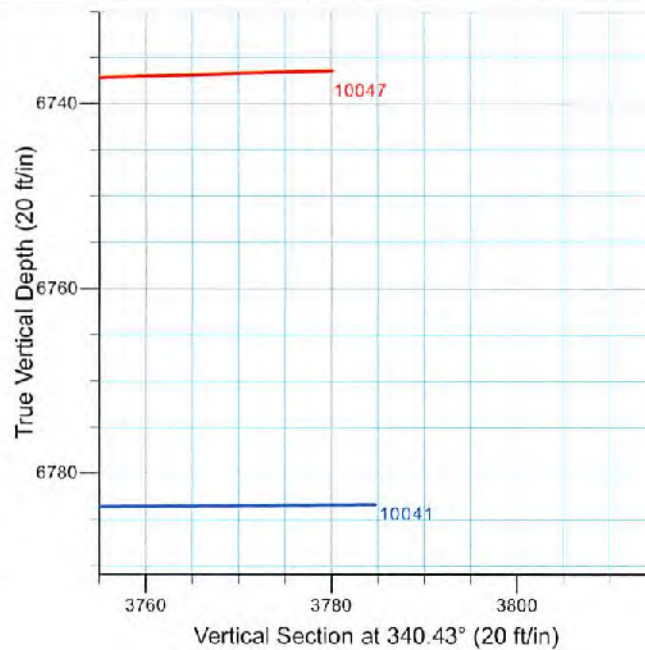
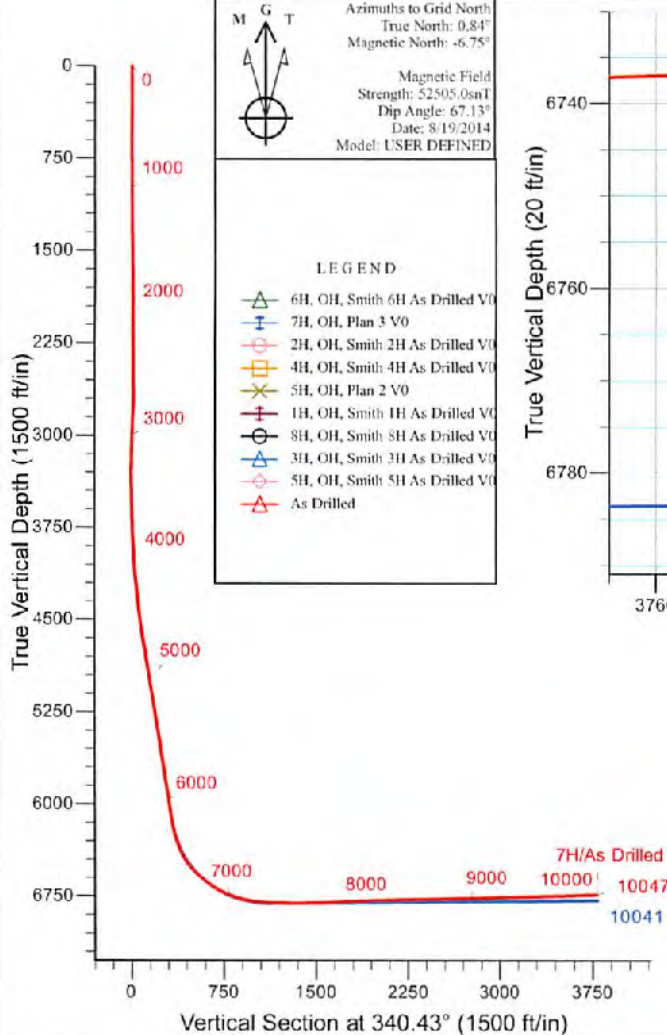
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	IFace	VSeet	Target
5892.00	11.10	21.21	5858.50	345.36	126.40	0.00	0.00	283.05	
6125.00	11.10	21.21	6087.14	387.18	142.63	0.00	0.00	317.02	
6430.93	31.88	23.99	6370.25	489.56	186.62	6.80	4.14	398.75	
7330.11	90.50	331.00	6807.00	1194.80	46.30	8.00	-57.14	1110.24	Smith 7H LP (rev 03)
10041.30	90.50	331.00	6783.34	3566.01	-1268.00	0.00	0.00	3784.74	Smith 7H BHIL (rev 03)



LEGEND

- △ 6H, OH, Smith 6H As Drilled V0
- 7H, OH, Plan 3 V0
- 2H, OH, Smith 2H As Drilled V0
- ◇ 4H, OH, Smith 4H As Drilled V0
- × 5H, OH, Plan 2 V0
- ⊕ 1H, OH, Smith 1H As Drilled V0
- ⊗ 8H, OH, Smith 8H As Drilled V0
- △ 3H, OH, Smith 3H As Drilled V0
- ◇ 5H, OH, Smith 5H As Drilled V0
- △ As Drilled





Scientific Drilling International
Survey Report



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well 7H
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:	7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

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	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	7H					
Well Position	+N/-S	0.00 ft	Northing:	420,250.00 usft	Latitude:	39° 38' 47.161 N
	+E/-W	0.00 ft	Easting:	1,630,847.00 usft	Longitude:	80° 48' 39.568 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	12/13/2013	-8.55	67.17	52,496
	BGGM2014	6/11/2014	-8.52	67.15	52,439
	User Defined	6/12/2014	-7.56	67.15	52,542
	User Defined	8/19/2014	-7.59	67.13	52,505

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		340.43

Survey Program	Date	8/26/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
103.00	2,596.00	Survey 2 - Vaughn Gyro (OH)	VES GyroFlex		
2,642.00	5,746.00	Survey 3 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,829.00	10,047.00	Survey 4 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

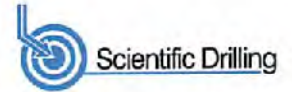
Survey	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	103.00	0.23	280.35	103.00	0.04	-0.20	0.10	0.22	0.22	0.00	
	First Vaughn Gyro Survey										
	203.00	0.29	317.20	203.00	0.26	-0.57	0.44	0.17	0.06	36.85	
	303.00	0.14	283.96	303.00	0.47	-0.66	0.74	0.19	-0.15	-33.24	

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Well:	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)
403.00	0.18	306.66	403.00	0.60	-1.11	0.93	0.07	0.04	22.70
503.00	0.19	292.64	503.00	0.75	-1.39	1.18	0.05	0.01	-14.02
603.00	0.12	287.23	603.00	0.85	-1.64	1.35	0.07	-0.07	-5.41
703.00	0.19	294.72	703.00	0.95	-1.89	1.53	0.07	0.07	7.49
803.00	0.24	332.82	803.00	1.21	-2.14	1.85	0.15	0.05	38.10
903.00	0.43	316.13	902.99	1.66	-2.49	2.40	0.21	0.19	-16.69
1,003.00	0.19	299.20	1,002.99	2.01	-2.90	2.87	0.25	-0.24	-16.93
1,103.00	0.22	266.50	1,102.99	2.15	-3.23	3.11	0.05	0.03	-12.70
1,203.00	0.53	296.25	1,202.99	2.41	-3.83	3.55	0.32	0.31	9.75
1,303.00	0.61	293.11	1,302.98	2.62	-4.73	4.24	0.09	0.08	-3.14
1,403.00	0.74	296.83	1,402.98	3.32	-5.80	5.07	0.14	0.13	3.72
1,503.00	0.79	298.66	1,502.97	3.94	-6.98	6.05	0.06	0.05	1.83
1,603.00	0.63	293.02	1,602.96	4.49	-8.09	6.94	0.17	-0.16	-5.84
1,703.00	0.79	289.36	1,702.95	4.93	-9.24	7.75	0.17	0.16	-3.66
1,803.00	1.05	288.34	1,802.94	5.45	-10.76	8.74	0.26	0.26	-1.02
1,903.00	1.16	291.92	1,902.92	6.12	-12.57	9.98	0.13	0.11	3.58
2,003.00	0.98	285.74	2,002.90	6.73	-14.33	11.14	0.21	-0.18	-5.18
2,103.00	1.22	292.91	2,102.89	7.37	-16.14	12.35	0.28	0.24	7.17
2,203.00	1.09	301.34	2,202.87	8.28	-17.93	13.81	0.21	-0.13	8.43
2,303.00	1.05	316.19	2,302.85	9.44	-19.38	15.38	0.26	-0.04	14.85
2,403.00	0.87	315.57	2,402.83	10.64	-20.54	16.91	0.18	-0.18	-0.62
2,503.00	0.57	328.90	2,502.83	11.61	-21.33	18.09	0.34	-0.30	13.33
2,596.00	0.68	336.06	2,595.82	12.51	-21.80	19.09	0.14	0.12	7.70
Last Vaughn Gyro Survey									
2,642.00	1.02	93.75	2,641.82	12.73	-21.50	19.20	3.19	0.74	255.85
2,642.01	1.02	93.75	2,641.82	12.73	-21.50	19.20	0.02	0.00	0.00
First SDI MWD Survey									
2,732.00	3.54	117.87	2,731.74	11.38	-18.24	15.83	2.94	2.60	26.80
2,824.00	3.85	116.83	2,823.55	8.67	-12.97	12.51	0.35	0.34	-1.35
2,919.00	3.34	108.30	2,918.36	6.37	-7.49	8.51	0.77	-0.54	-8.77
3,012.00	3.17	103.59	3,011.21	4.92	-2.42	5.44	0.34	-0.18	-5.06
3,105.00	3.26	95.75	3,104.07	4.05	2.71	2.90	0.48	0.10	-8.43
3,196.00	1.97	93.80	3,194.97	3.68	6.85	1.18	1.42	-1.42	-2.14
3,291.00	0.93	59.33	3,289.94	3.97	9.14	0.68	1.38	-1.09	-36.26
3,381.00	0.96	49.21	3,379.93	4.83	10.34	1.09	0.19	0.03	-11.24
3,473.00	1.10	44.77	3,471.91	5.96	11.54	1.75	0.18	0.15	-4.83
3,567.00	1.74	25.03	3,565.88	7.90	12.78	3.16	0.85	0.68	-21.00
3,659.00	1.67	20.80	3,657.84	10.42	13.85	5.17	0.16	-0.08	-4.60
3,753.00	2.21	16.83	3,751.79	13.43	14.86	7.68	0.59	0.57	-4.22
3,845.00	2.63	10.25	3,843.71	17.21	15.75	10.94	0.55	0.46	-7.15
3,936.00	3.56	7.71	3,934.57	22.06	16.50	15.26	1.03	1.02	-2.79
4,028.00	4.81	8.46	4,026.33	28.71	17.45	21.20	1.36	1.36	0.82
4,121.00	5.95	8.78	4,116.92	37.33	18.76	28.89	1.23	1.23	0.34



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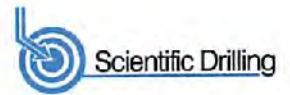
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Well:	7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

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)
4,215.00	6.39	14.54	4,212.37	47.21	20.82	37.50	0.81	0.47	6.13
4,305.00	7.20	16.40	4,301.74	57.46	23.67	46.21	0.93	0.90	2.07
4,398.00	8.09	17.23	4,393.91	69.31	27.25	56.17	0.96	0.96	0.89
4,489.00	8.79	19.74	4,483.93	81.97	31.50	66.68	0.87	0.77	2.76
4,580.00	9.48	17.29	4,573.77	95.67	36.07	78.05	0.87	0.76	-2.69
4,673.00	10.48	18.38	4,665.36	111.01	41.02	90.85	1.09	1.08	1.17
4,766.00	11.38	19.32	4,756.68	127.69	46.72	104.66	0.99	0.97	1.01
4,858.00	12.25	19.33	4,848.73	145.47	52.95	119.32	0.95	0.95	0.01
4,950.00	12.23	17.20	4,938.83	163.99	59.06	134.72	0.49	-0.02	-2.32
5,042.00	12.28	16.77	5,028.54	182.66	64.77	150.41	0.11	0.05	-0.47
5,134.00	12.25	19.33	5,118.44	201.24	70.82	165.88	0.59	-0.03	2.78
5,227.00	11.93	24.37	5,207.38	219.31	78.05	180.48	1.19	-0.34	5.42
5,318.00	11.59	20.19	5,296.47	236.45	85.09	194.28	1.01	-0.37	-4.59
5,409.00	11.78	16.25	5,385.59	253.95	90.85	208.84	0.90	0.21	-4.33
5,500.00	11.92	20.23	5,474.65	271.69	98.89	223.59	0.91	0.15	4.37
5,593.00	12.28	20.88	5,565.58	289.94	103.54	238.49	0.41	0.39	0.70
5,685.00	11.79	24.22	5,655.56	307.65	110.88	252.72	0.93	-0.53	3.63
5,746.00	11.51	23.23	5,715.30	318.93	115.84	261.69	0.56	-0.46	-1.62
5,829.00	11.15	21.17	5,796.69	334.02	122.00	273.84	0.65	-0.43	-2.48
5,892.00	11.10	21.21	5,858.50	345.36	126.40	283.05	0.08	-0.08	0.06
5,956.00	10.72	19.73	5,921.35	356.70	130.64	292.32	0.74	-0.59	-2.31
6,019.00	10.20	16.04	5,963.30	367.56	134.16	301.39	1.35	-0.83	-5.86
6,083.00	10.88	16.84	6,046.22	378.81	137.47	310.85	1.09	1.06	1.25
6,115.00	11.21	18.22	6,077.63	384.65	139.32	315.75	1.32	1.03	4.31
6,147.00	12.47	20.79	6,108.94	390.84	141.52	320.84	4.27	3.94	8.03
6,179.00	14.46	22.72	6,140.06	397.75	144.29	326.42	6.37	6.22	6.03
6,211.00	15.49	24.42	6,170.98	405.33	147.60	332.45	3.50	3.22	5.31
6,243.00	17.09	24.44	6,201.69	413.50	151.31	338.91	5.00	5.00	0.06
6,275.00	19.23	25.17	6,232.10	422.55	155.50	346.04	6.73	6.69	2.28
6,308.00	21.72	25.49	6,261.13	432.35	160.14	353.71	8.04	8.03	1.03
6,338.00	23.92	25.66	6,290.63	443.55	165.50	362.47	6.88	6.88	0.53
6,370.00	26.89	25.50	6,319.53	455.93	171.42	372.15	9.28	9.26	-0.50
6,402.00	28.80	25.96	6,347.82	469.39	177.91	382.66	6.01	5.97	1.44
6,433.00	30.64	24.12	6,374.75	483.32	184.41	393.60	6.62	5.94	-5.94
6,465.00	33.15	21.07	6,401.91	498.93	190.89	406.14	9.32	7.84	-9.53
6,497.00	35.42	17.64	6,428.35	515.93	198.85	420.16	9.31	7.09	-10.72
6,529.00	37.78	14.44	6,454.05	534.26	202.10	435.68	9.48	7.38	-10.00
6,560.00	39.94	12.07	6,478.18	553.19	206.55	452.02	8.46	6.97	-7.65
6,592.00	42.37	10.27	6,502.28	573.85	210.62	470.12	8.45	7.59	-5.63
6,623.00	45.00	7.67	6,524.69	595.00	213.95	488.93	10.27	8.48	-8.39
6,655.00	46.91	4.59	6,546.94	617.86	216.39	509.66	9.14	5.97	-9.63
6,687.00	48.73	1.46	6,568.43	641.54	217.63	531.55	9.21	5.69	-9.78
6,718.00	49.97	359.27	6,588.63	665.05	217.78	553.66	6.69	4.00	-7.06
6,750.00	51.04	356.46	6,608.98	689.73	216.86	577.21	7.56	3.34	-8.78



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Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	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)
6,782.00	51.92	352.82	6,628.92	714.64	214.51	601.47	9.31	2.75	-11.38
6,814.00	53.65	350.06	6,648.27	739.84	210.71	626.49	8.74	5.41	-8.63
6,846.00	55.44	349.30	6,666.83	765.48	206.04	652.21	5.92	5.59	-2.38
6,877.00	57.61	348.81	6,683.93	790.97	201.13	677.77	7.12	7.00	-1.58
6,909.00	60.16	347.87	6,700.47	817.69	195.59	704.91	8.36	7.97	-2.94
6,941.00	63.88	346.88	6,715.48	845.26	189.41	732.95	11.94	11.63	-3.09
6,973.00	67.01	345.68	6,728.77	873.53	182.51	761.91	10.36	9.78	-3.75
7,005.00	69.37	344.55	6,740.66	902.24	174.87	791.51	8.07	7.38	-3.53
7,036.00	71.47	344.36	6,751.05	930.38	167.05	820.65	6.80	6.77	-0.61
7,066.00	73.48	344.15	6,760.69	959.75	158.77	851.09	6.31	6.28	-0.66
7,100.00	75.27	342.91	6,769.30	989.30	150.03	881.86	6.72	5.59	-3.88
7,132.00	76.50	342.34	6,777.11	1,018.92	140.76	912.87	4.21	3.84	-1.78
7,164.00	78.46	341.35	6,784.04	1,048.60	131.03	944.10	6.83	6.13	-3.09
7,195.00	80.02	339.20	6,789.83	1,077.26	120.75	974.55	8.47	5.03	-6.94
7,227.00	82.00	336.18	6,794.83	1,106.50	108.75	1,006.12	11.19	6.19	-9.44
7,259.00	84.69	333.67	6,798.54	1,135.28	95.28	1,037.75	11.46	8.41	-7.84
7,291.00	86.52	331.86	6,800.99	1,163.65	80.68	1,069.37	8.03	5.72	-5.66
7,323.00	88.29	330.87	6,802.44	1,191.70	65.36	1,100.93	6.34	5.53	-3.09
7,354.00	89.46	330.16	6,803.05	1,218.68	50.10	1,131.47	4.41	3.77	-2.29
7,386.00	89.93	330.23	6,803.22	1,246.45	34.20	1,162.96	1.48	1.47	0.22
7,418.00	90.10	330.36	6,803.21	1,274.24	18.34	1,194.46	0.67	0.53	0.41
7,481.00	89.97	329.89	6,803.18	1,328.90	-12.99	1,256.45	0.62	-0.21	-0.59
7,545.00	89.30	329.30	6,803.58	1,384.12	-45.33	1,319.32	1.50	-1.05	-1.08
7,609.00	89.40	328.90	6,804.31	1,439.04	-78.20	1,382.07	0.64	0.16	-0.83
7,672.00	89.97	329.09	6,804.66	1,493.03	-110.65	1,443.82	0.95	0.90	0.30
7,735.00	91.10	329.45	6,804.07	1,547.18	-142.84	1,505.62	1.88	1.79	0.57
7,799.00	92.39	330.03	6,802.12	1,602.44	-175.07	1,568.48	2.21	2.02	0.91
7,863.00	92.58	331.38	6,799.34	1,658.20	-206.36	1,631.50	2.13	0.30	2.11
7,926.00	92.92	331.86	6,796.32	1,713.56	-236.27	1,693.69	0.93	0.54	0.76
7,989.00	92.79	331.96	6,793.18	1,769.07	-265.90	1,755.92	0.26	-0.21	0.16
8,053.00	92.78	331.35	6,790.07	1,825.33	-296.25	1,819.09	0.95	-0.02	-0.95
8,116.00	92.78	330.47	6,787.02	1,880.32	-326.84	1,881.15	1.40	0.00	-1.40
8,180.00	92.18	329.70	6,784.25	1,935.74	-358.73	1,944.05	1.52	-0.94	-1.20
8,244.00	90.97	329.13	6,782.49	1,990.81	-391.28	2,006.85	2.09	-1.69	-0.89
8,307.00	90.54	329.19	6,781.66	2,044.90	-423.57	2,068.63	0.69	-0.68	0.10
8,371.00	91.21	329.12	6,780.68	2,099.84	-456.38	2,131.39	1.05	1.05	-0.11
8,435.00	90.97	328.57	6,779.46	2,154.60	-489.49	2,194.08	0.94	-0.38	-0.86
8,498.00	91.14	329.26	6,778.30	2,208.55	-522.01	2,255.80	1.13	0.27	1.10
8,561.00	91.17	330.21	6,777.03	2,262.95	-553.75	2,317.69	1.51	0.05	1.51
8,625.00	91.11	330.52	6,775.76	2,318.56	-585.39	2,380.69	0.49	-0.09	0.48
8,688.00	91.18	330.70	6,774.50	2,373.45	-616.31	2,442.76	0.31	0.11	0.29
8,752.00	91.87	332.02	6,772.80	2,429.59	-646.97	2,505.94	2.33	1.08	2.06
8,815.00	91.68	331.53	6,770.85	2,485.08	-676.75	2,569.19	0.93	-0.30	-0.78

Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well 7H
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:	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)
8,879.00	91.51	331.14	6,769.07	2,541.21	-707.44	2,631.36	0.66	-0.27	-0.61
8,942.00	91.98	331.64	6,767.15	2,596.49	-737.59	2,693.55	1.09	0.75	0.79
9,006.00	91.98	331.18	6,764.94	2,652.65	-768.20	2,756.72	0.72	0.00	-0.72
9,070.00	92.25	331.46	6,762.57	2,708.76	-798.89	2,819.87	0.61	0.42	0.44
9,133.00	91.91	330.75	6,760.29	2,763.88	-829.32	2,882.00	1.25	-0.54	-1.13
9,196.00	91.01	330.29	6,758.68	2,818.71	-860.31	2,944.04	1.60	-1.43	-0.73
9,260.00	90.77	329.95	6,757.69	2,874.19	-892.19	3,007.00	0.65	-0.38	-0.53
9,323.00	91.51	329.76	6,756.44	2,928.66	-923.82	3,068.92	1.21	1.17	-0.30
9,387.00	92.25	329.99	6,754.34	2,983.99	-955.92	3,131.80	1.21	1.16	0.36
9,451.00	91.61	329.75	6,752.18	3,039.31	-988.03	3,194.68	1.07	-1.00	-0.38
9,514.00	91.17	329.13	6,750.65	3,093.54	-1,020.05	3,256.51	1.21	-0.70	-0.98
9,578.00	91.94	328.98	6,748.92	3,148.41	-1,052.95	3,319.23	1.23	1.20	-0.23
9,642.00	91.51	329.16	6,746.99	3,203.29	-1,085.83	3,381.95	0.73	-0.67	0.28
9,705.00	91.44	329.37	6,745.37	3,257.42	-1,118.02	3,443.73	0.35	-0.11	0.33
9,767.00	91.34	329.55	6,743.86	3,310.80	-1,149.51	3,504.58	0.33	-0.16	0.29
9,831.00	91.64	329.84	6,742.20	3,366.04	-1,181.80	3,567.44	0.65	0.47	0.45
9,895.00	91.54	330.10	6,740.42	3,421.43	-1,213.81	3,630.36	0.44	-0.16	0.41
9,957.00	91.34	330.82	6,738.87	3,475.35	-1,244.37	3,691.40	1.20	-0.32	1.16
9,989.00	91.64	330.66	6,738.03	3,503.26	-1,260.01	3,722.93	1.06	0.94	-0.50
Last SDI MWD Survey @ 9989.00 MD									
10,047.00	91.64	330.66	6,736.37	3,553.80	-1,288.41	3,780.07	0.00	0.00	0.00
Projection to Bit @ 10047.00 MD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
103.00	103.00	0.04	-0.20	First Vaughn Gyro Survey
2,596.00	2,595.82	12.51	-21.80	Last Vaughn Gyro Survey
2,642.01	2,641.82	12.73	-21.50	First SDI MWD Survey
9,989.00	6,738.03	3,503.26	-1,260.01	Last SDI MWD Survey @ 9989.00 MD
10,047.00	6,736.37	3,553.80	-1,288.41	Projection to Bit @ 10047.00 MD

Checked By: _____ Approved By: _____ Date: _____