



Project: Mary Prospect
 Site: ZMBG Pad
 Well: 6H
 Wellbore: OH
 Design: 6H As Drilled



WELL DETAILS: 6H

+N/-S	+E/-W	Northing	Ground Level: 1341.00	Latitude	Longitude
0.00	0.00	418350.00	Easting 1628069.00	39° 38' 27.982 N	80° 49' 14.720 W

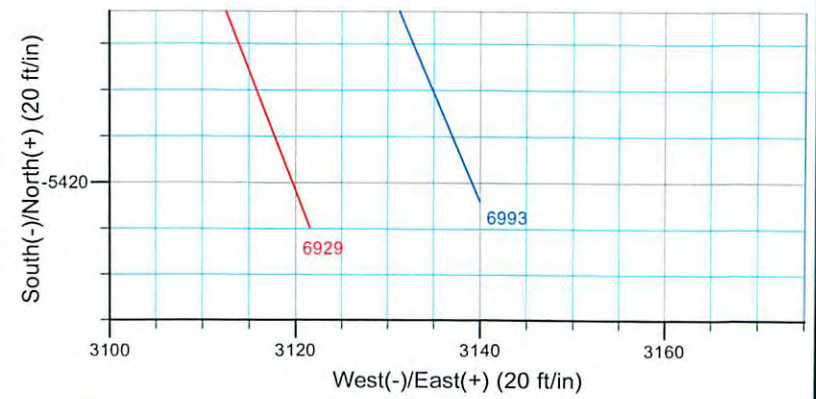
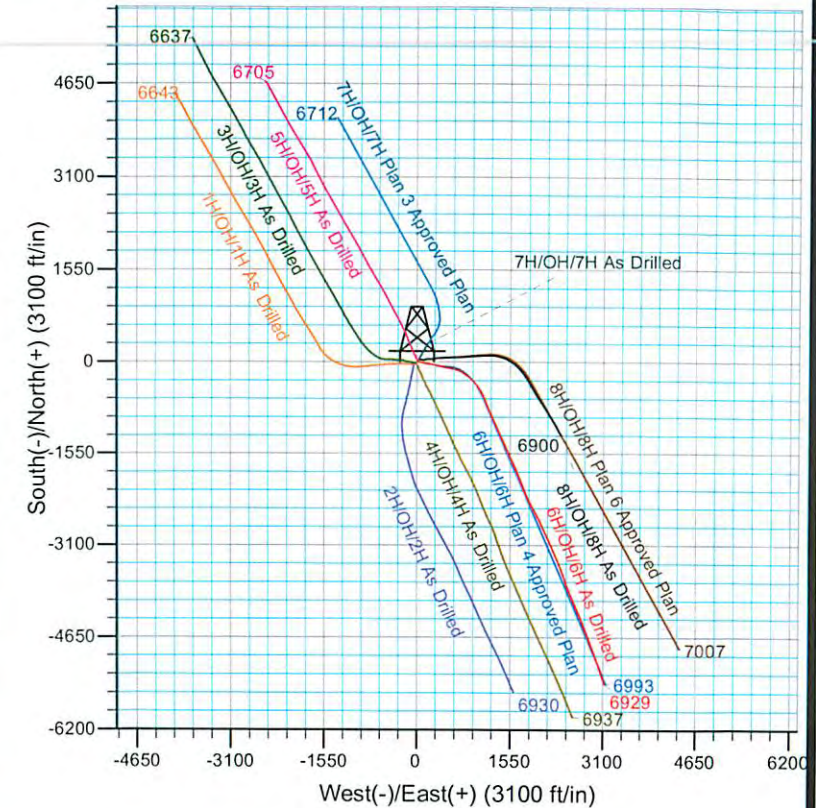
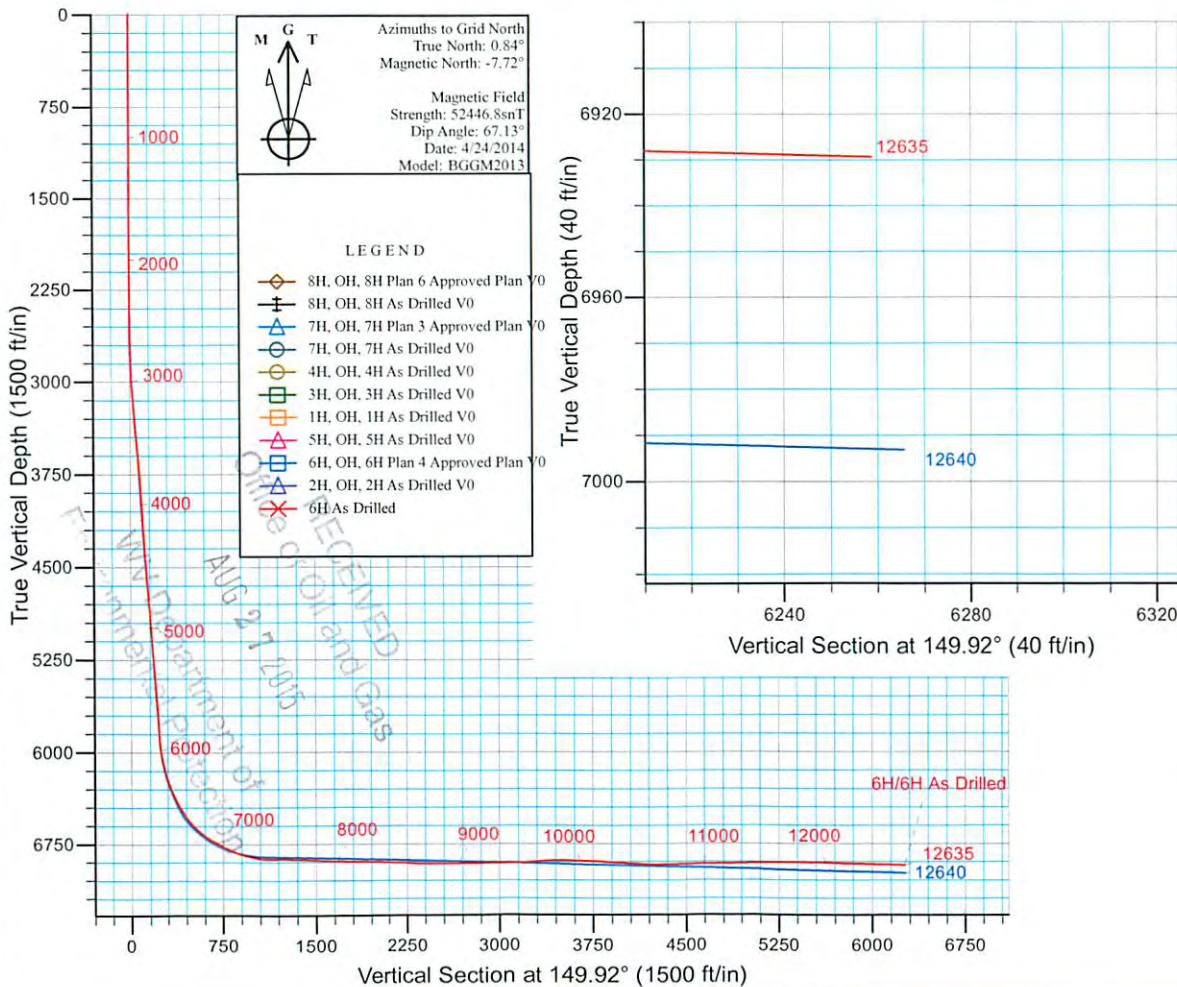
REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well 6H, Grid North
 Vertical (TVD) Reference: GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 1341' & KB 18' @ 1359.00ft (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										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	5932.00	7.86	97.24	5911.32	-65.03	354.89	0.00	0.00	234.13	
2	6399.43	35.90	95.33	6340.76	-82.13	526.52	6.00	-2.39	334.94	
3	6492.60	35.90	95.33	6416.23	-87.21	580.92	0.00	0.00	366.59	
4	7399.87	88.50	157.00	6856.00	-599.80	1093.40	8.00	67.26	1067.00	ZMBG 6H_LP3
5	12640.21	88.50	157.00	6993.18	-5422.01	3140.01	0.00	0.00	6265.61	ZMBG 6H_BHL3



103-02788

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 6H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	6H 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	ZMBG Pad				
Site Position:		Northing:	418,393.00 usft	Latitude:	39° 38' 28.413 N
From:	Map	Easting:	1,628,110.00 usft	Longitude:	80° 49' 14.204 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.84 °

Well	6H					
Well Position	+N/-S	0.00 ft	Northing:	418,350.00 usft	Latitude:	39° 38' 27.982 N
	+E/-W	0.00 ft	Easting:	1,628,069.00 usft	Longitude:	80° 49' 14.720 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	1,341.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/16/2013	-8.48	67.19	52,608
	EIGGM2013	8/28/2013	-8.54	67.19	52,532
	EIGGM2013	9/24/2013	-8.54	67.19	52,523
	EIGGM2013	3/7/2014	-8.55	67.14	52,464
	EIGGM2013	4/24/2014	-8.56	67.13	52,447

Design	6H 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		149.92

Survey Program	Date	6/10/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
107.00	2,437.00	Survey 1 - Vaughn Gyro (OH)	VES GyroFlex		
2,668.00	12,635.00	Survey 2 - 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	
107.00	0.07	50.65	107.00	0.04	0.05	-0.01	0.07	0.07	0.00	
First Vaughn Gyro Survey										
207.00	0.13	44.25	207.00	0.16	0.18	-0.05	0.06	0.06	-6.40	
307.00	0.19	19.48	307.00	0.40	0.31	-0.19	0.09	0.06	-24.77	
407.00	0.14	354.85	407.00	0.68	0.36	-0.41	0.09	-0.05	-24.63	

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Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	6H 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)
507.00	0.19	346.50	507.00	0.96	0.31	-0.68	0.06	0.05	-8.35
607.00	0.13	350.06	607.00	1.23	0.25	-0.94	0.06	-0.06	3.56
707.00	0.18	353.96	707.00	1.50	0.21	-1.19	0.05	0.05	3.90
807.00	0.13	104.90	807.00	1.63	0.30	-1.26	0.26	-0.05	110.94
907.00	0.04	158.28	907.00	1.57	0.43	-1.14	0.11	-0.09	53.38
1,007.00	0.11	224.37	1,007.00	1.47	0.37	-1.08	0.10	0.07	66.09
1,107.00	0.10	321.09	1,107.00	1.46	0.25	-1.14	0.16	-0.01	96.72
1,207.00	0.07	329.44	1,207.00	1.59	0.17	-1.29	0.03	-0.03	8.35
1,307.00	0.12	338.73	1,307.00	1.74	0.10	-1.45	0.05	0.05	9.29
1,407.00	0.05	359.97	1,407.00	1.88	0.06	-1.59	0.08	-0.07	21.24
1,507.00	0.13	348.57	1,507.00	2.03	0.04	-1.74	0.08	0.08	-11.40
1,607.00	0.09	340.35	1,607.00	2.22	-0.01	-1.92	0.04	-0.04	-8.22
1,707.00	0.16	28.14	1,707.00	2.41	0.03	-2.08	0.12	0.07	47.79
1,807.00	0.09	14.58	1,807.00	2.61	0.11	-2.20	0.08	-0.07	-13.56
1,882.00	0.16	12.08	1,882.00	2.77	0.15	-2.32	0.09	0.09	-3.33
1,907.00	0.23	29.42	1,907.00	2.85	0.18	-2.38	0.36	0.28	69.36
2,007.00	0.15	76.04	2,007.00	3.06	0.41	-2.44	0.17	-0.08	46.62
2,107.00	0.10	104.90	2,107.00	3.07	0.62	-2.34	0.08	-0.05	28.86
2,207.00	0.13	234.69	2,207.00	2.98	0.61	-2.27	0.21	0.03	129.79
2,307.00	0.17	268.24	2,307.00	2.91	0.37	-2.33	0.09	0.04	33.55
2,407.00	0.33	251.97	2,407.00	2.81	-0.05	-2.46	0.17	0.16	-16.27
2,437.00	0.14	236.04	2,437.00	2.77	-0.17	-2.48	0.66	-0.63	-53.10
Last Vaughn Gyro Survey									
2,668.00	1.24	81.77	2,667.97	2.97	2.07	-1.53	0.59	0.48	-66.79
2,668.00	1.24	81.77	2,667.98	2.97	2.07	-1.53	0.02	0.00	0.00
First SDI MWD Survey									
2,761.00	2.66	95.13	2,760.92	2.92	5.22	0.09	1.59	1.53	14.37
2,855.00	3.96	97.96	2,854.76	2.27	10.61	3.35	1.39	1.38	3.01
2,946.00	5.47	95.33	2,945.45	1.43	18.04	7.80	1.68	1.66	-2.89
3,039.00	5.69	106.77	3,038.01	-0.31	26.87	13.73	1.22	0.24	12.30
3,131.00	5.76	104.80	3,129.55	-2.80	35.70	20.31	0.23	0.08	-2.14
3,223.00	5.74	100.94	3,221.09	-4.85	44.68	26.59	0.42	-0.02	-4.20
3,313.00	6.49	103.18	3,310.58	-6.87	54.05	33.03	0.87	0.83	2.49
3,405.00	7.54	108.47	3,401.89	-9.97	64.84	41.12	1.34	1.14	5.75
3,498.00	8.05	104.17	3,494.03	-13.49	76.94	50.23	0.83	0.55	-4.62
3,589.00	7.06	103.67	3,584.24	-16.38	88.55	58.55	1.09	-1.09	-0.55
3,680.00	5.84	100.10	3,674.66	-18.51	98.54	65.40	1.41	-1.34	-3.92
3,772.00	5.81	93.59	3,766.19	-19.62	107.80	71.00	0.72	-0.03	-7.08
3,864.00	6.11	100.42	3,857.69	-20.80	117.26	76.76	0.84	0.33	7.42
3,953.00	6.09	99.03	3,946.19	-22.40	126.58	82.82	0.17	-0.02	-1.56
4,048.00	5.90	94.34	4,040.67	-23.56	136.43	88.75	0.55	-0.20	-4.94
4,141.00	6.33	94.08	4,133.14	-24.28	146.31	94.33	0.46	0.46	-0.28
4,236.00	6.49	105.76	4,227.55	-26.11	156.70	101.13	1.38	0.17	12.29

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 6H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	6H 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)
4,328.00	6.33	102.40	4,318.97	-28.62	166.65	108.28	0.44	-0.17	-3.65
4,421.00	6.26	95.99	4,411.41	-30.25	176.70	114.73	0.76	-0.08	-6.89
4,515.00	6.81	97.91	4,504.80	-31.55	187.32	121.18	0.63	0.59	2.04
4,609.00	7.55	106.70	4,598.07	-34.09	198.76	129.11	1.41	0.79	9.35
4,701.00	7.66	102.87	4,689.26	-37.19	210.52	137.69	0.56	0.12	-4.16
4,795.00	7.57	100.89	4,782.43	-39.76	222.71	146.02	0.30	-0.10	-2.11
4,887.00	7.66	95.50	4,873.62	-41.49	234.77	153.56	0.78	0.10	-5.86
4,977.00	7.90	93.45	4,962.79	-42.44	246.91	160.46	0.41	0.27	-2.28
5,071.00	7.30	98.81	5,055.97	-43.74	259.26	167.78	0.99	-0.64	5.70
5,164.00	6.33	110.37	5,148.31	-46.43	269.91	175.44	1.80	-1.04	12.43
5,254.00	6.13	107.48	5,237.78	-49.60	279.14	182.81	0.41	-0.22	-3.21
5,347.00	6.17	106.68	5,330.25	-52.53	288.66	190.12	0.10	0.04	-0.86
5,440.00	6.41	106.66	5,422.69	-55.45	298.43	197.54	0.26	0.26	-0.02
5,532.00	6.48	103.97	5,514.11	-58.17	308.38	204.89	0.34	0.08	-2.92
5,624.00	6.71	101.87	5,605.50	-60.53	318.68	212.09	0.36	0.25	-2.28
5,716.00	6.74	96.03	5,696.87	-62.21	329.31	218.86	0.74	0.03	-6.35
5,807.00	6.81	97.83	5,787.23	-63.50	339.97	225.33	0.25	0.08	1.98
5,869.00	6.66	93.98	5,848.80	-64.25	347.19	229.60	0.77	-0.24	-6.21
5,898.00	6.82	95.73	5,877.60	-64.54	350.58	231.55	0.90	0.55	6.03
5,930.00	7.78	97.08	5,909.35	-65.00	354.62	233.97	3.05	3.00	4.22
5,962.00	9.12	99.36	5,941.00	-65.68	359.28	236.89	4.32	4.19	7.13
5,994.00	10.58	101.18	5,972.52	-66.66	364.66	240.43	4.66	4.56	5.69
6,026.00	12.11	101.94	6,003.90	-67.92	370.83	244.62	4.80	4.78	2.38
6,057.00	13.49	103.40	6,034.13	-69.43	377.53	249.28	4.57	4.45	4.71
6,089.00	15.08	103.58	6,065.14	-71.28	385.20	254.72	4.97	4.97	0.56
6,121.00	17.11	104.82	6,095.88	-73.46	393.80	260.92	6.43	6.34	3.88
6,153.00	19.44	105.10	6,126.27	-76.05	403.50	268.02	7.29	7.28	0.88
6,185.00	21.79	105.15	6,156.21	-78.99	414.37	276.02	7.34	7.34	0.16
6,216.00	24.18	103.26	6,184.75	-81.95	426.11	284.46	8.07	7.71	-6.10
6,249.00	26.55	101.28	6,214.57	-84.94	439.92	293.97	7.63	7.18	-6.00
6,279.00	28.54	100.37	6,241.17	-87.54	453.55	303.05	6.78	6.63	-3.03
6,309.00	30.39	99.91	6,267.29	-90.14	468.07	312.58	6.21	6.17	-1.53
6,339.00	31.76	100.94	6,292.98	-92.95	483.30	322.64	4.90	4.57	3.43
6,370.00	33.99	101.33	6,319.01	-96.20	499.81	333.72	7.23	7.19	1.26
6,400.00	35.24	101.24	6,343.70	-99.53	516.52	344.98	4.17	4.17	-0.30
6,430.00	36.91	100.24	6,367.95	-102.82	533.88	356.53	5.90	5.57	-3.33
6,459.00	37.12	100.27	6,391.11	-105.93	551.06	367.83	0.73	0.72	0.10
6,490.00	37.55	99.87	6,415.75	-109.21	569.57	379.95	1.59	1.39	-1.29
6,520.00	38.06	100.87	6,439.46	-112.53	587.65	391.88	2.66	1.70	3.33
6,550.00	38.91	102.68	6,462.94	-116.34	605.93	404.34	4.70	2.83	6.03
6,580.00	39.78	106.51	6,486.14	-121.13	624.33	417.71	8.60	2.90	12.77
6,611.00	40.97	109.39	6,509.76	-127.33	643.42	432.64	7.14	3.84	9.29
6,641.00	42.97	111.47	6,532.07	-134.34	662.22	448.12	8.12	6.67	6.93
6,672.00	44.34	113.76	6,554.50	-142.57	681.97	465.14	6.75	4.42	7.39

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Survey Report



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Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	6H 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)
6,702.00	45.81	115.88	6,575.68	-151.49	701.24	482.52	7.00	4.90	7.07
6,732.00	47.46	118.11	6,596.28	-161.39	720.67	500.82	7.71	5.50	7.43
6,762.00	49.00	120.34	6,616.27	-172.32	740.19	520.06	7.56	5.13	7.43
6,792.00	51.03	122.21	6,635.54	-184.26	759.83	540.24	8.28	6.77	6.23
6,822.00	53.14	124.38	6,653.98	-197.25	779.61	561.39	9.06	7.03	7.23
6,852.00	55.61	125.84	6,671.45	-211.28	799.55	583.53	9.13	8.23	4.87
6,882.00	57.51	127.77	6,687.99	-226.28	819.59	606.55	8.30	6.33	6.43
6,913.00	58.95	129.18	6,704.31	-242.68	840.22	631.08	6.04	4.65	4.55
6,943.00	59.56	130.46	6,719.64	-259.19	860.02	655.29	4.19	2.03	4.27
6,973.00	60.11	132.35	6,734.72	-276.34	879.47	679.88	5.75	1.83	6.30
7,003.00	60.88	133.81	6,749.50	-294.17	898.54	704.87	4.95	2.57	4.87
7,034.00	62.03	135.43	6,764.31	-313.30	917.92	731.14	5.90	3.71	5.23
7,064.00	63.06	136.99	6,778.14	-332.52	936.34	757.00	5.75	3.43	5.20
7,095.00	64.20	139.89	6,791.91	-353.30	954.76	784.21	9.15	3.68	9.35
7,125.00	65.40	141.89	6,804.69	-374.36	971.88	811.02	7.24	4.00	6.67
7,155.00	67.87	143.26	6,816.58	-396.23	988.61	838.33	9.24	8.23	4.57
7,186.00	69.62	144.60	6,827.82	-419.59	1,005.62	867.06	6.94	5.65	4.32
7,216.00	71.60	146.50	6,837.78	-442.92	1,021.63	895.27	8.90	6.60	6.33
7,246.00	73.38	148.17	6,846.81	-467.01	1,037.06	923.85	7.96	5.93	5.57
7,277.00	75.56	149.52	6,855.11	-492.56	1,052.51	953.71	8.19	7.03	4.35
7,308.00	77.77	151.52	6,862.26	-518.82	1,067.35	983.87	9.50	7.13	6.45
7,340.00	80.02	153.02	6,868.42	-546.61	1,081.96	1,015.24	8.40	7.03	4.69
7,372.00	82.54	154.53	6,873.27	-574.99	1,095.94	1,046.80	9.15	7.88	4.72
7,404.00	84.86	155.94	6,876.79	-603.86	1,109.26	1,078.46	8.47	7.25	4.41
7,436.00	88.76	157.76	6,878.57	-633.24	1,121.82	1,110.17	13.45	12.19	5.69
7,468.00	89.87	157.99	6,878.95	-662.88	1,133.87	1,141.86	3.54	3.47	0.72
7,499.00	90.64	157.73	6,878.81	-691.59	1,145.55	1,172.57	2.62	2.48	-0.84
7,531.00	91.27	157.59	6,878.28	-721.18	1,157.71	1,204.27	2.02	1.97	-0.44
7,593.00	88.36	157.41	6,878.48	-778.46	1,181.43	1,265.72	4.70	-4.69	-0.29
7,657.00	87.55	157.47	6,880.76	-837.52	1,205.97	1,329.13	1.27	-1.27	0.09
7,720.00	87.82	157.73	6,883.31	-895.72	1,229.96	1,391.52	0.59	0.43	0.41
7,784.00	87.05	157.26	6,886.17	-954.79	1,254.43	1,454.89	1.41	-1.20	-0.73
7,847.00	86.78	156.79	6,889.56	-1,012.71	1,278.99	1,517.32	0.86	-0.43	-0.75
7,911.00	87.32	156.68	6,892.85	-1,071.42	1,304.23	1,580.78	0.86	0.84	-0.17
7,974.00	87.38	155.76	6,895.77	-1,129.01	1,329.61	1,643.34	1.46	0.10	-1.46
8,037.00	89.23	156.11	6,897.63	-1,186.51	1,355.29	1,705.96	2.99	2.94	0.56
8,101.00	89.90	156.11	6,898.12	-1,245.02	1,381.20	1,769.58	1.05	1.05	0.00
8,164.00	89.40	155.84	6,898.50	-1,302.57	1,406.85	1,832.23	0.90	-0.79	-0.43
8,228.00	89.63	155.70	6,899.04	-1,360.93	1,433.12	1,895.90	0.42	0.36	-0.22
8,292.00	88.93	155.58	6,899.85	-1,419.22	1,459.51	1,959.57	1.11	-1.09	-0.19
8,356.00	87.89	156.26	6,901.62	-1,477.63	1,485.62	2,023.20	1.94	-1.63	1.06
8,419.00	88.36	156.71	6,903.68	-1,535.37	1,510.74	2,085.75	1.03	0.75	0.71
8,480.00	88.26	155.69	6,905.48	-1,591.15	1,535.34	2,146.36	1.68	-0.16	-1.67

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 6H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	6H 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)
8,544.00	87.32	155.70	6,907.95	-1,649.44	1,561.67	2,209.99	1.47	-1.47	0.02
8,607.00	86.95	155.26	6,911.10	-1,706.68	1,587.78	2,272.61	0.91	-0.59	-0.70
8,670.00	88.49	157.07	6,913.61	-1,764.26	1,613.21	2,335.18	3.77	2.44	2.87
8,734.00	90.57	158.13	6,914.13	-1,823.43	1,637.60	2,398.60	3.65	3.25	1.66
8,798.00	90.27	158.48	6,913.66	-1,882.89	1,661.26	2,461.92	0.72	-0.47	0.55
8,861.00	88.76	159.47	6,914.20	-1,941.69	1,683.86	2,524.13	2.87	-2.40	1.57
8,924.00	89.06	159.82	6,915.39	-2,000.75	1,705.77	2,586.21	0.73	0.48	0.56
8,987.00	89.19	159.68	6,916.36	-2,059.85	1,727.57	2,648.28	0.30	0.21	-0.22
9,050.00	91.17	159.86	6,916.16	-2,118.96	1,749.36	2,710.35	3.16	3.14	0.29
9,114.00	90.00	157.25	6,915.50	-2,178.52	1,772.75	2,773.62	4.47	-1.83	-4.08
9,177.00	91.91	159.07	6,914.45	-2,236.98	1,796.18	2,835.95	4.19	3.03	2.89
9,241.00	90.60	156.02	6,913.05	-2,296.11	1,820.62	2,899.36	5.19	-2.05	-4.77
9,305.00	91.68	154.72	6,911.78	-2,354.27	1,847.28	2,963.06	2.64	1.69	-2.03
9,368.00	91.57	152.89	6,909.99	-2,410.77	1,875.08	3,025.89	2.91	-0.17	-2.90
9,400.00	91.08	151.33	6,909.25	-2,439.05	1,890.05	3,057.85	5.11	-1.53	-4.88
9,432.00	90.64	150.77	6,908.77	-2,467.05	1,905.53	3,089.84	2.23	-1.38	-1.75
9,496.00	91.34	150.66	6,907.67	-2,522.86	1,936.84	3,153.83	1.11	1.09	-0.17
9,559.00	93.85	151.87	6,904.81	-2,578.04	1,967.09	3,216.74	4.42	3.98	1.92
9,623.00	95.00	153.26	6,899.88	-2,634.67	1,996.49	3,280.48	2.81	1.80	2.17
9,687.00	94.30	153.93	6,894.69	-2,691.80	2,024.86	3,344.14	1.51	-1.09	1.05
9,750.00	92.38	154.81	6,891.02	-2,748.50	2,052.06	3,406.84	3.35	-3.05	1.40
9,814.00	90.47	155.69	6,889.43	-2,806.60	2,078.84	3,470.54	3.29	-2.98	1.38
9,877.00	87.95	155.84	6,890.29	-2,864.04	2,104.70	3,533.20	4.01	-4.00	0.24
9,941.00	86.95	155.95	6,893.14	-2,922.40	2,130.81	3,596.79	1.57	-1.56	0.17
10,005.00	87.92	155.84	6,896.01	-2,980.76	2,156.92	3,660.38	1.53	1.52	-0.17
10,068.00	87.85	156.52	6,898.33	-3,038.36	2,182.35	3,722.96	1.08	-0.11	1.08
10,132.00	86.91	157.13	6,901.26	-3,097.13	2,207.51	3,786.43	1.75	-1.47	0.95
10,195.00	86.78	156.97	6,904.72	-3,155.05	2,232.04	3,848.84	0.33	-0.21	-0.25
10,259.00	87.11	156.26	6,908.14	-3,213.71	2,257.40	3,912.32	1.22	0.52	-1.11
10,323.00	86.21	156.59	6,911.86	-3,272.27	2,282.96	3,975.80	1.50	-1.41	0.52
10,386.00	85.86	157.27	6,916.22	-3,330.09	2,307.58	4,038.18	1.21	-0.56	1.08
10,450.00	86.58	157.32	6,920.44	-3,389.01	2,332.23	4,101.51	1.13	1.13	0.08
10,514.00	87.22	157.40	6,923.90	-3,447.99	2,356.83	4,164.88	1.01	1.00	0.13
10,577.00	87.95	157.77	6,926.56	-3,506.18	2,380.83	4,227.26	1.30	1.16	0.59
10,641.00	91.11	161.28	6,927.08	-3,566.11	2,403.21	4,290.34	7.38	4.94	5.48
10,705.00	91.74	160.43	6,925.49	-3,626.55	2,424.20	4,353.16	1.65	-0.98	-1.33
10,768.00	91.68	160.41	6,923.61	-3,685.88	2,445.30	4,415.08	0.10	-0.10	-0.03
10,832.00	90.94	159.84	6,922.15	-3,746.06	2,467.05	4,478.05	1.46	-1.16	-0.89
10,895.00	90.17	159.18	6,921.54	-3,805.07	2,489.10	4,540.17	1.61	-1.22	-1.05
10,958.00	90.97	158.92	6,920.91	-3,863.90	2,511.63	4,602.37	1.34	1.27	-0.41
11,022.00	90.94	158.09	6,919.84	-3,923.44	2,535.07	4,665.84	1.30	-0.05	-1.30
11,086.00	91.54	156.53	6,918.46	-3,982.47	2,559.76	4,729.09	2.61	0.94	-2.44
11,150.00	89.87	155.74	6,917.67	-4,040.99	2,585.65	4,792.71	2.89	-2.61	-1.23

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 6H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	6H 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)
11,213.00	90.34	155.84	6,917.55	-4,098.45	2,611.48	4,855.38	0.76	0.75	0.16
11,276.00	92.15	157.46	6,916.18	-4,156.27	2,636.44	4,917.93	3.86	2.87	2.57
11,340.00	93.18	157.62	6,913.21	-4,215.35	2,660.87	4,981.29	1.63	1.61	0.25
11,404.00	93.32	157.80	6,909.58	-4,274.47	2,685.10	5,044.60	0.36	0.22	0.28
11,467.00	92.41	158.11	6,906.43	-4,332.79	2,708.72	5,106.90	1.53	-1.44	0.49
11,530.00	91.00	158.59	6,904.56	-4,391.32	2,731.95	5,169.19	2.36	-2.24	0.76
11,594.00	89.73	159.18	6,904.15	-4,451.02	2,755.01	5,232.41	2.19	-1.98	0.92
11,658.00	89.60	159.58	6,904.52	-4,510.92	2,777.54	5,295.54	0.66	-0.20	0.63
11,721.00	88.59	158.25	6,905.52	-4,569.69	2,800.20	5,357.76	2.65	-1.60	-2.11
11,784.00	87.89	158.04	6,907.45	-4,628.14	2,823.65	5,420.08	1.16	-1.11	-0.33
11,848.00	88.83	158.21	6,909.29	-4,687.51	2,847.48	5,483.40	1.49	1.47	0.27
11,912.00	89.03	159.50	6,910.48	-4,747.18	2,870.56	5,546.61	2.04	0.31	2.02
11,975.00	88.80	160.37	6,911.67	-4,806.35	2,892.17	5,608.64	1.43	-0.37	1.38
12,039.00	88.56	160.00	6,913.15	-4,866.54	2,913.86	5,671.60	0.69	-0.38	-0.58
12,102.00	88.09	160.50	6,914.99	-4,925.81	2,935.14	5,733.55	1.09	-0.75	0.79
12,166.00	88.52	160.08	6,916.88	-4,986.04	2,956.72	5,796.48	0.94	0.67	-0.66
12,230.00	88.49	159.52	6,918.55	-5,046.08	2,978.81	5,859.51	0.88	-0.05	-0.88
12,294.00	88.22	159.39	6,920.39	-5,105.98	3,001.26	5,922.60	0.47	-0.42	-0.20
12,358.00	88.99	159.68	6,921.95	-5,165.93	3,023.63	5,985.68	1.29	1.20	0.45
12,421.00	88.83	159.87	6,923.15	-5,225.03	3,045.41	6,047.74	0.39	-0.25	0.30
12,484.00	87.85	159.32	6,924.97	-5,284.05	3,067.36	6,109.82	1.78	-1.56	-0.87
12,548.00	88.32	158.68	6,927.11	-5,343.77	3,090.28	6,172.98	1.24	0.73	-1.00
12,580.00	88.56	158.97	6,927.98	-5,373.60	3,101.84	6,204.58	1.18	0.75	0.91
Last SDI MWD Survey									
12,635.00	88.56	158.97	6,929.36	-5,424.92	3,121.57	6,258.88	0.00	0.00	0.00
Projection to Bit									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
107.00	107.00	0.04	0.05	First Vaughn Gyro Survey
2,437.00	2,437.00	2.77	-0.17	Last Vaughn Gyro Survey
2,668.00	2,667.98	2.97	2.07	First SDI MWD Survey
12,580.00	6,927.98	-5,373.60	3,101.84	Last SDI MWD Survey
12,635.00	6,929.36	-5,424.92	3,121.57	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

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