



Project: Mary Prospect
 Site: ZMBG Pad
 Well: 5H
 Wellbore: OH
 Design: 5H As Drilled



WELL DETAILS: 5H

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	418364.00	1341.00 1628083.00	39° 38' 28.123 N	80° 49' 14.543 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well 5H, Grid North
 Vertical (TVD) Reference: GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 1341' & KB 18' @ 1341.00ft (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

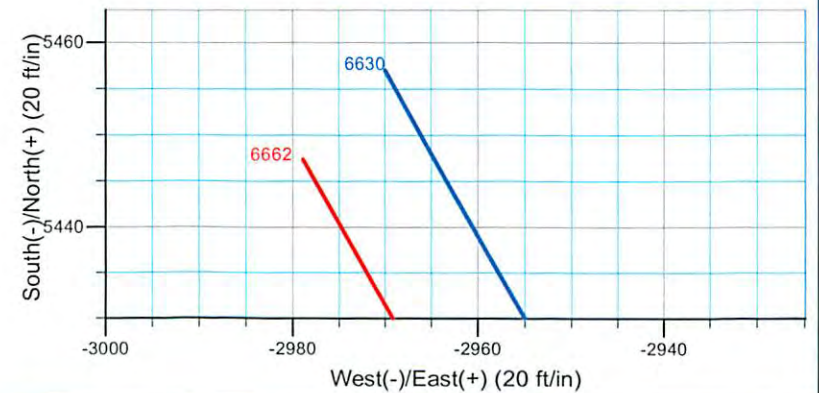
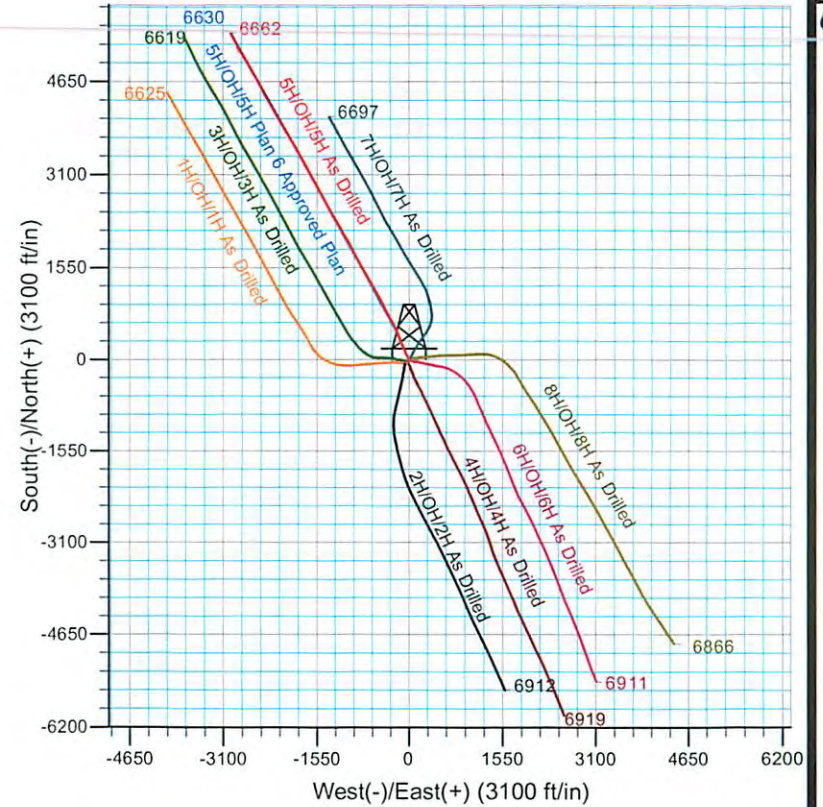
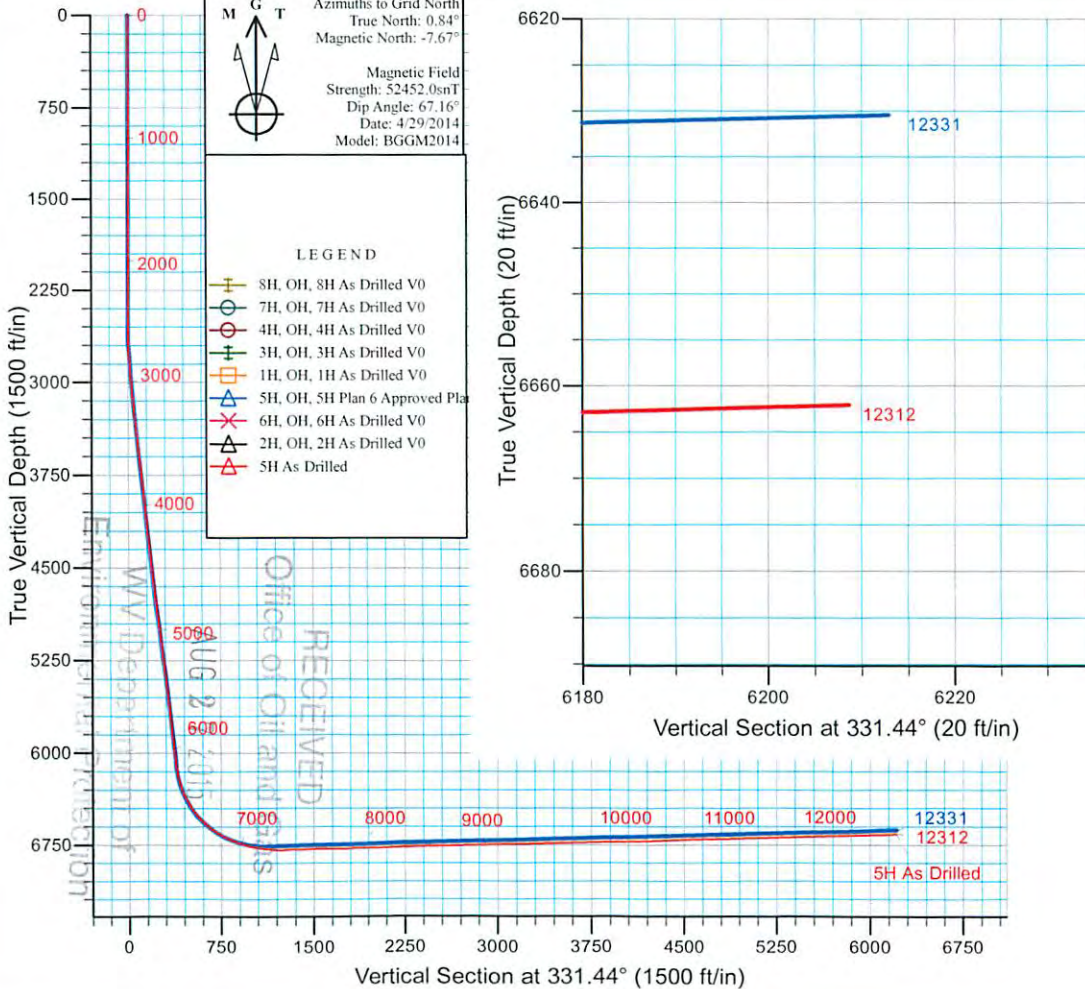
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	6013.00	6.81	335.41	5991.99	336.92	-154.93	0.00	0.00	370.00	
2	6143.00	6.81	335.41	6121.07	350.94	-161.35	0.00	0.00	385.37	
3	6156.69	6.81	344.71	6134.66	352.46	-161.90	8.05	94.54	386.97	
4	7211.31	91.50	331.00	6764.00	996.10	-497.70	8.05	-13.76	1112.84	ZMBG 5H_LP2
5	12313.25	91.50	331.00	6630.45	5457.01	-2970.01	0.00	0.00	6212.88	ZMBG 5H_BHL2

Azimuths to Grid North
 True North: 0.84°
 Magnetic North: -7.67°

Magnetic Field
 Strength: 52452.0snT
 Dip Angle: 67.16°
 Date: 4/29/2014
 Model: BGGM2014

LEGEND

- 5H, OH, 5H As Drilled V0
- 7H, OH, 7H As Drilled V0
- 4H, OH, 4H As Drilled V0
- 3H, OH, 3H As Drilled V0
- 1H, OH, 1H As Drilled V0
- 5H, OH, 5H Plan 6 Approved Plan
- 6H, OH, 6H As Drilled V0
- 2H, OH, 2H As Drilled V0
- 5H As Drilled



103-02895

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Stone Energy

Mary Prospect
ZMBG Pad
5H

OH

Design: 5H As Drilled

Standard Survey Report

22 July, 2014



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10/09/2015

103-02895



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 5H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	5H 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	5H					
Well Position	+N/-S	0.00 ft	Northing:	418,364.00 usft	Latitude:	39° 38' 28.123 N
	+E/-W	0.00 ft	Easting:	1,628,083.00 usft	Longitude:	80° 49' 14.543 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
	BGGM2013	10/2/2013	-8.54	67.19	52,520
	BGGM2013	3/7/2014	-8.55	67.14	52,464
	BGGM2013	4/24/2014	-8.56	67.13	52,447
	BGGM2014	4/29/2014	-8.51	67.16	52,452

Design	5H 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	331.44	

Survey Program	Date	7/22/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
4.00	4,721.00	Survey 1 - SDI Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,593.00	6,013.00	Survey 2 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
6,038.00	12,312.00	Survey 3 - 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
4.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00
Ground Level									
89.00	0.23	24.69	89.00	0.16	0.07	0.10	0.27	0.27	0.00
First SDI Gyro Survey									

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 5H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	5H 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)
189.00	0.17	19.18	189.00	0.48	0.20	0.32	0.06	-0.06	-5.51
289.00	0.06	305.63	289.00	0.65	0.21	0.47	0.16	-0.11	-73.55
389.00	0.02	309.67	389.00	0.69	0.15	0.53	0.04	-0.04	4.04
489.00	0.13	8.58	489.00	0.81	0.16	0.64	0.12	0.11	58.91
589.00	0.02	310.77	589.00	0.94	0.16	0.75	0.12	-0.11	-57.81
689.00	0.11	303.72	689.00	1.00	0.07	0.85	0.09	0.09	-7.05
789.00	0.14	309.01	789.00	1.13	-0.11	1.04	0.03	0.03	5.29
889.00	0.21	10.91	889.00	1.39	-0.17	1.30	0.19	0.07	61.90
989.00	0.25	26.37	988.99	1.76	-0.04	1.57	0.07	0.04	15.46
1,089.00	0.10	92.84	1,088.99	1.95	0.15	1.65	0.23	-0.15	66.47
1,189.00	0.09	94.19	1,188.99	1.94	0.31	1.56	0.01	-0.01	1.35
1,289.00	0.18	96.63	1,288.99	1.92	0.55	1.43	0.09	0.09	2.44
1,389.00	0.06	103.50	1,388.99	1.89	0.76	1.30	0.12	-0.12	6.87
1,489.00	0.08	228.50	1,488.99	1.83	0.75	1.25	0.12	0.02	125.00
1,589.00	0.11	224.20	1,588.99	1.72	0.63	1.20	0.03	0.03	-4.30
1,689.00	0.12	233.69	1,688.99	1.59	0.48	1.16	0.02	0.01	9.49
1,789.00	0.13	208.04	1,788.99	1.42	0.35	1.09	0.06	0.01	-25.65
1,889.00	0.02	236.89	1,888.99	1.31	0.28	1.02	0.11	-0.11	28.85
1,989.00	0.28	203.37	1,988.99	1.08	0.17	0.87	0.26	0.26	-33.52
2,089.00	0.17	117.33	2,088.99	0.79	0.20	0.60	0.32	-0.11	-86.04
2,189.00	0.07	103.17	2,188.99	0.71	0.39	0.43	0.10	-0.10	-14.16
2,289.00	0.11	102.17	2,288.99	0.67	0.55	0.33	0.04	0.04	-1.00
2,389.00	0.14	103.71	2,388.99	0.62	0.76	0.18	0.03	0.03	1.54
2,489.00	0.24	335.64	2,488.99	0.78	0.79	0.31	0.34	0.10	-128.07
2,548.00	0.29	334.37	2,547.99	1.03	0.68	0.58	0.09	0.08	-2.15
Last Gyro Survey									
2,593.00	0.36	327.28	2,592.99	1.25	0.55	0.84	0.18	0.16	-15.76
2,593.00	0.36	327.28	2,592.99	1.25	0.55	0.84	0.02	0.00	0.00
First SDI MWD Survey									
2,686.00	1.93	332.05	2,685.97	2.88	-0.34	2.70	1.69	1.69	5.13
2,777.00	3.85	328.52	2,776.85	6.84	-2.66	7.28	2.12	2.11	-3.88
2,871.00	4.65	329.92	2,870.59	12.83	-6.21	14.24	0.86	0.85	1.49
2,965.00	4.98	324.43	2,964.26	19.45	-10.50	22.10	0.60	0.35	-5.84
3,058.00	5.33	319.27	3,056.88	26.00	-15.66	30.33	0.62	0.38	-5.55
3,152.00	5.65	331.63	3,150.45	33.38	-20.71	39.22	1.30	0.34	13.15
3,244.00	5.76	330.36	3,242.00	41.38	-25.15	48.37	0.18	0.12	-1.38
3,337.00	6.34	339.47	3,334.48	50.25	-29.26	58.12	1.20	0.62	9.80
3,431.00	6.51	339.72	3,427.89	60.10	-32.92	68.53	0.18	0.18	0.27
3,523.00	6.69	337.04	3,519.28	69.93	-36.82	79.03	0.39	0.20	-2.91
3,613.00	7.03	333.79	3,608.64	79.70	-41.30	89.75	0.57	0.38	-3.61
3,705.00	6.35	336.32	3,700.01	89.41	-45.83	100.44	0.81	-0.74	2.75
3,798.00	6.14	331.62	3,792.46	98.50	-50.26	110.54	0.59	0.23	-5.05
3,889.00	6.14	331.94	3,882.94	107.07	-54.86	120.27	0.04	0.00	0.35
3,980.00	6.40	341.13	3,973.40	116.17	-58.79	130.14	1.14	0.29	10.10

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Survey Report



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Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	5H 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)
4,075.00	6.40	340.36	4,067.80	126.16	-62.28	140.59	0.09	0.00	-0.81
4,165.00	6.56	338.80	4,157.23	135.68	-65.83	150.64	0.26	0.18	-1.73
4,257.00	6.52	336.31	4,248.63	145.36	-69.83	161.06	0.31	-0.04	-2.71
4,348.00	6.63	334.22	4,339.03	154.82	-74.19	171.45	0.29	0.12	-2.30
4,442.00	6.49	335.03	4,432.42	164.53	-78.79	182.17	0.18	-0.15	0.86
4,535.00	6.40	334.89	4,524.83	173.99	-83.21	192.59	0.10	-0.10	-0.15
4,628.00	6.33	336.12	4,617.26	183.37	-87.48	202.88	0.16	-0.08	1.32
4,721.00	7.33	335.23	4,709.59	193.44	-92.04	213.91	1.08	1.08	-0.96
4,814.00	7.22	339.48	4,801.85	204.30	-96.58	225.61	0.59	-0.12	4.57
4,907.00	7.43	339.52	4,894.09	215.41	-100.73	237.35	0.23	0.23	0.04
4,998.00	7.69	340.57	4,984.30	226.66	-104.81	249.19	0.32	0.29	1.15
5,090.00	7.16	333.69	5,075.53	237.61	-109.40	261.00	1.12	-0.58	-7.48
5,181.00	7.28	332.34	5,165.80	247.80	-114.59	272.43	0.23	0.13	-1.48
5,272.00	7.45	332.70	5,256.05	258.15	-119.98	284.09	0.19	0.19	0.40
5,365.00	7.75	331.81	5,348.24	269.03	-125.70	296.39	0.35	0.32	-0.96
5,459.00	6.35	339.44	5,441.53	279.49	-130.52	307.88	1.79	-1.49	8.12
5,551.00	6.20	340.46	5,532.97	288.93	-133.97	317.82	0.20	-0.16	1.11
5,642.00	6.24	341.94	5,623.44	298.26	-137.15	327.54	0.18	0.04	1.63
5,734.00	6.52	334.91	5,714.87	307.75	-140.91	337.67	0.90	0.30	-7.64
5,827.00	6.55	331.62	5,807.27	317.20	-145.67	348.24	0.40	0.03	-3.54
5,920.00	6.77	336.50	5,899.64	326.89	-150.38	359.01	0.65	0.24	5.25
5,950.00	6.81	335.41	5,929.43	330.13	-151.83	362.54	0.45	0.13	-3.63
6,013.00	6.81	335.41	5,991.99	336.92	-154.93	370.00	0.00	0.00	0.00
6,038.00	6.56	334.26	6,016.82	339.56	-156.17	372.90	1.13	-1.00	-4.60
6,069.00	6.39	336.31	6,047.62	342.73	-157.63	376.39	0.93	-0.55	6.61
6,099.00	6.06	332.13	6,077.44	345.66	-159.04	379.64	1.87	-1.10	-13.93
6,129.00	6.81	335.91	6,107.25	348.68	-160.51	382.99	2.87	2.50	12.60
6,160.00	9.00	339.63	6,137.96	352.63	-162.11	387.23	7.25	7.06	12.00
6,190.00	11.50	340.30	6,167.48	357.65	-163.93	392.50	8.34	8.33	2.23
6,220.00	13.50	342.00	6,196.76	363.80	-166.02	398.90	6.78	6.67	5.67
6,250.00	15.97	341.67	6,225.78	371.05	-168.40	406.41	8.24	8.23	-1.10
6,280.00	18.13	342.97	6,254.46	379.43	-171.07	415.04	7.31	7.20	4.33
6,310.00	20.34	342.71	6,282.78	388.87	-173.98	424.73	7.37	7.37	-0.87
6,341.00	22.46	342.64	6,311.64	399.67	-177.35	435.82	6.84	6.84	-0.23
6,370.00	24.65	342.53	6,338.22	410.72	-180.82	447.19	7.55	7.55	-0.38
6,400.00	26.90	341.18	6,365.24	423.12	-184.89	460.02	7.75	7.50	-4.50
6,431.00	29.23	339.37	6,392.59	436.84	-189.82	474.44	8.00	7.52	-5.84
6,461.00	31.33	337.95	6,418.50	450.93	-195.33	489.44	7.40	7.00	-4.73
6,491.00	33.50	335.59	6,443.82	465.70	-201.68	505.45	8.37	7.23	-7.87
6,521.00	35.83	334.26	6,468.49	481.15	-208.91	522.48	8.17	7.77	-4.43
6,552.00	38.61	334.37	6,493.18	498.05	-217.04	541.21	8.97	8.97	0.35
6,582.00	40.48	334.75	6,516.31	515.29	-225.24	560.28	6.29	6.23	1.27
6,612.00	42.80	334.59	6,538.73	533.31	-233.77	580.18	7.74	7.73	-0.53

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Survey Report



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Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	5H 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)
6,642.00	44.79	334.09	6,560.38	552.02	-242.76	600.91	6.73	6.63	-1.67
6,673.00	47.84	333.12	6,581.79	572.10	-252.73	623.31	10.10	9.84	-3.13
6,703.00	50.33	332.45	6,601.44	592.26	-263.10	645.97	8.47	8.30	-2.23
6,733.00	53.03	332.33	6,620.04	613.11	-274.01	669.51	9.01	9.00	-0.40
6,764.00	55.40	331.74	6,638.16	635.32	-285.80	694.65	7.80	7.65	-1.90
6,794.00	57.57	331.58	6,654.73	657.33	-297.68	719.66	7.25	7.23	-0.53
6,825.00	59.38	330.67	6,670.94	680.47	-310.44	746.08	6.35	5.84	-2.94
6,855.00	62.03	331.58	6,685.61	703.38	-323.07	772.24	9.22	8.83	3.03
6,887.00	64.17	330.96	6,700.09	728.40	-336.79	800.78	6.91	6.69	-1.94
6,919.00	66.13	331.71	6,713.54	753.88	-350.71	829.81	6.48	6.13	2.34
6,951.00	68.33	331.53	6,725.92	779.84	-364.74	859.32	6.89	6.88	-0.56
6,983.00	70.86	331.84	6,737.08	806.24	-378.96	889.31	7.96	7.91	0.97
7,014.00	73.07	331.56	6,746.68	832.19	-392.93	918.78	7.18	7.13	-0.90
7,046.00	75.34	332.37	6,755.39	859.37	-407.41	949.57	7.50	7.09	2.53
7,078.00	77.41	332.65	6,762.92	886.95	-421.76	980.66	6.52	6.47	0.88
7,110.00	78.82	333.16	6,769.51	914.83	-436.02	1,011.97	4.67	4.41	1.59
7,142.00	80.32	333.70	6,775.31	942.98	-450.10	1,043.42	4.97	4.69	1.69
7,174.00	82.10	333.37	6,780.20	971.29	-464.19	1,075.02	5.66	5.56	-1.03
7,206.00	83.43	332.40	6,784.23	999.54	-478.66	1,106.75	5.13	4.16	-3.03
7,209.51	83.49	332.41	6,784.63	1,002.64	-480.28	1,110.24	1.83	1.81	0.25
ZMBG 5H_LP2									
7,238.00	84.01	332.48	6,787.73	1,027.74	-493.38	1,138.56	1.83	1.81	0.25
7,270.00	85.86	332.25	6,790.55	1,055.98	-508.16	1,170.43	5.83	5.78	-0.72
7,301.00	88.92	331.49	6,791.96	1,083.28	-522.76	1,201.39	10.17	9.87	-2.45
7,333.00	90.30	331.81	6,792.18	1,111.44	-537.95	1,233.39	4.43	4.31	1.00
7,365.00	90.64	331.38	6,791.92	1,139.59	-553.18	1,265.39	1.71	1.06	-1.34
7,429.00	91.98	329.33	6,790.46	1,195.19	-584.82	1,329.35	3.83	2.09	-3.20
7,492.00	91.61	328.41	6,788.48	1,249.09	-617.37	1,392.26	1.57	-0.59	-1.46
7,556.00	92.18	328.72	6,786.37	1,303.67	-650.73	1,456.14	1.01	0.89	0.48
7,620.00	91.71	328.65	6,784.19	1,358.32	-683.98	1,520.03	0.74	-0.73	-0.11
7,683.00	90.64	328.46	6,782.90	1,412.05	-716.84	1,582.94	1.72	-1.70	-0.30
7,747.00	90.97	329.10	6,782.00	1,466.78	-750.01	1,646.86	1.13	0.52	1.00
7,811.00	91.41	330.01	6,780.67	1,521.94	-782.43	1,710.81	1.58	0.69	1.42
7,874.00	92.15	330.32	6,778.72	1,576.56	-813.75	1,773.76	1.27	1.17	0.49
7,938.00	91.61	330.54	6,776.62	1,632.20	-845.32	1,837.72	0.91	-0.84	0.34
8,002.00	91.24	331.75	6,775.03	1,688.23	-876.20	1,901.70	1.98	-0.58	1.89
8,065.00	91.78	331.70	6,773.37	1,743.70	-906.03	1,964.67	0.86	0.86	-0.08
8,129.00	91.41	332.02	6,771.58	1,800.11	-936.20	2,028.65	0.76	-0.58	0.50
8,193.00	91.34	331.97	6,770.05	1,856.60	-966.24	2,092.63	0.13	-0.11	-0.08
8,256.00	92.19	332.88	6,768.11	1,912.42	-995.39	2,155.59	1.98	1.35	1.44
8,320.00	91.75	332.06	6,765.91	1,969.14	-1,024.96	2,219.54	1.45	-0.69	-1.28
8,384.00	91.27	330.05	6,764.22	2,025.12	-1,055.92	2,283.51	3.23	-0.75	-3.14
8,448.00	91.95	329.28	6,762.42	2,080.33	-1,088.23	2,347.45	1.60	1.06	-1.20

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 5H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	5H 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)
8,511.00	91.48	329.73	6,760.54	2,134.59	-1,120.18	2,410.39	1.03	-0.75	0.71
8,574.00	90.67	330.13	6,759.36	2,189.11	-1,151.75	2,473.35	1.43	-1.29	0.63
8,638.00	91.41	329.53	6,758.19	2,244.43	-1,183.90	2,537.32	1.49	1.16	-0.94
8,701.00	92.08	329.50	6,756.28	2,298.69	-1,215.85	2,600.25	1.06	1.06	-0.05
8,764.00	90.87	328.84	6,754.65	2,352.77	-1,248.13	2,663.18	2.19	-1.92	-1.05
8,828.00	89.97	329.75	6,754.18	2,407.79	-1,280.80	2,727.13	2.00	-1.41	1.42
8,891.00	90.24	328.97	6,754.07	2,462.00	-1,312.91	2,790.09	1.31	0.43	-1.24
8,955.00	92.26	330.37	6,752.67	2,517.22	-1,345.22	2,854.04	3.84	3.16	2.19
9,018.00	91.68	329.59	6,750.51	2,571.74	-1,376.72	2,916.98	1.54	-0.92	-1.24
9,082.00	91.65	331.37	6,748.65	2,627.40	-1,408.24	2,980.94	2.78	-0.05	2.78
9,145.00	92.63	331.54	6,746.29	2,682.71	-1,438.32	3,043.90	1.58	1.56	0.27
9,209.00	91.48	330.83	6,744.00	2,738.74	-1,469.15	3,107.85	2.11	-1.80	-1.11
9,273.00	90.64	330.41	6,742.82	2,794.50	-1,500.54	3,171.84	1.47	-1.31	-0.66
9,337.00	91.34	330.90	6,741.71	2,850.28	-1,531.90	3,235.82	1.34	1.09	0.77
9,400.00	90.84	331.66	6,740.51	2,905.52	-1,562.17	3,298.81	1.44	-0.79	1.21
9,464.00	90.77	332.20	6,739.61	2,961.99	-1,592.28	3,362.80	0.85	-0.11	0.84
9,527.00	91.71	333.31	6,738.25	3,017.98	-1,621.11	3,425.77	2.31	1.49	1.76
9,591.00	92.52	333.30	6,735.89	3,075.12	-1,649.85	3,489.69	1.27	1.27	-0.02
9,655.00	91.78	333.27	6,733.49	3,132.25	-1,678.60	3,553.61	1.16	-1.16	-0.05
9,718.00	91.28	331.90	6,731.80	3,188.15	-1,707.59	3,616.57	2.31	-0.79	-2.17
9,782.00	91.68	331.89	6,730.15	3,244.59	-1,737.73	3,680.55	0.63	0.63	-0.02
9,846.00	92.12	332.27	6,728.03	3,301.11	-1,767.68	3,744.51	0.91	0.69	0.59
9,909.00	90.84	330.55	6,726.40	3,356.40	-1,797.82	3,807.49	3.40	-2.03	-2.73
9,973.00	90.10	330.69	6,725.88	3,412.17	-1,829.22	3,871.48	1.18	-1.16	0.22
10,036.00	90.60	331.07	6,725.49	3,467.20	-1,859.87	3,934.47	1.00	0.79	0.60
10,099.00	91.61	329.05	6,724.28	3,521.78	-1,891.31	3,997.44	3.58	1.60	-3.21
10,163.00	92.11	328.32	6,722.20	3,576.43	-1,924.55	4,061.33	1.38	0.78	-1.14
10,225.00	92.62	326.84	6,719.64	3,628.72	-1,957.76	4,123.13	2.52	0.82	-2.39
10,289.00	91.88	327.18	6,717.13	3,682.36	-1,992.59	4,186.89	1.27	-1.16	0.53
10,352.00	91.45	327.80	6,715.30	3,735.47	-2,026.43	4,249.72	1.20	-0.68	0.98
10,416.00	91.38	329.38	6,713.72	3,790.07	-2,059.77	4,313.62	2.47	-0.11	2.47
10,479.00	91.91	330.19	6,711.91	3,844.49	-2,091.46	4,376.56	1.54	0.84	1.29
10,543.00	91.27	330.57	6,710.13	3,900.10	-2,123.08	4,440.53	1.16	-1.00	0.59
10,607.00	90.97	330.39	6,708.88	3,955.78	-2,154.61	4,504.50	0.55	-0.47	-0.28
10,666.00	91.75	330.91	6,707.48	4,007.19	-2,183.52	4,563.48	1.59	1.32	0.88
10,730.00	92.29	330.98	6,705.23	4,063.10	-2,214.58	4,627.44	0.85	0.84	0.11
10,793.00	91.31	331.01	6,703.25	4,118.18	-2,245.12	4,690.41	1.56	-1.56	0.05
10,857.00	90.77	331.82	6,702.09	4,174.36	-2,275.73	4,754.39	1.52	-0.84	1.27
10,920.00	91.41	331.29	6,700.89	4,229.75	-2,305.73	4,817.38	1.32	1.02	-0.84
10,984.00	91.95	331.54	6,699.01	4,285.92	-2,336.34	4,881.35	0.93	0.84	0.39
11,048.00	91.28	331.20	6,697.21	4,342.07	-2,367.00	4,945.33	1.17	-1.05	-0.53
11,111.00	91.08	331.75	6,695.91	4,397.42	-2,397.07	5,008.31	0.93	-0.32	0.87
11,175.00	91.75	331.18	6,694.33	4,453.62	-2,427.64	5,072.29	1.37	1.05	-0.89
11,239.00	92.38	331.80	6,692.02	4,509.82	-2,458.17	5,136.25	1.38	0.98	0.97

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103-02895



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 5H
Project:	Mary Prospect	TVD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Site:	ZMBG Pad	MD Reference:	GL 1341' & KB 18' @ 1341.00ft (Saxon 141)
Well:	5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	5H 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)
11,302.00	91.75	331.53	6,689.75	4,565.24	-2,488.05	5,199.21	1.09	-1.00	-0.43
11,365.00	91.11	330.97	6,688.18	4,620.46	-2,518.34	5,262.19	1.35	-1.02	-0.89
11,429.00	91.38	330.38	6,686.79	4,676.24	-2,549.68	5,326.17	1.01	0.42	-0.92
11,492.00	91.61	330.37	6,685.15	4,730.99	-2,580.81	5,389.14	0.37	0.37	-0.02
11,556.00	91.14	330.02	6,683.61	4,786.51	-2,612.61	5,453.10	0.92	-0.73	-0.55
11,619.00	90.57	330.20	6,682.67	4,841.12	-2,644.00	5,516.08	0.95	-0.90	0.29
11,683.00	90.91	329.86	6,681.84	4,896.56	-2,675.97	5,580.05	0.75	0.53	-0.53
11,746.00	91.98	330.61	6,680.26	4,951.23	-2,707.24	5,643.02	2.07	1.70	1.19
11,810.00	91.81	330.50	6,678.14	5,006.93	-2,738.68	5,706.98	0.32	-0.27	-0.17
11,874.00	91.71	330.94	6,676.17	5,062.73	-2,769.97	5,770.94	0.70	-0.16	0.69
11,937.00	92.59	330.65	6,673.81	5,117.68	-2,800.68	5,833.89	1.47	1.40	-0.46
12,001.00	92.18	331.23	6,671.15	5,173.57	-2,831.74	5,897.83	1.11	-0.64	0.91
12,065.00	92.01	332.34	6,668.81	5,229.93	-2,861.98	5,961.79	1.75	-0.27	1.73
12,128.00	91.65	332.56	6,666.80	5,285.76	-2,891.10	6,024.75	0.67	-0.57	0.35
12,192.00	91.21	332.06	6,665.20	5,342.41	-2,920.84	6,088.72	1.04	-0.69	-0.78
12,255.00	91.54	330.67	6,663.69	5,397.69	-2,951.02	6,151.70	2.27	0.52	-2.21
Last SDI MWD Survey									
12,312.00	91.54	330.67	6,662.15	5,447.36	-2,978.93	6,208.67	0.00	0.00	0.00
Projection to Bit - ZMBG 5H_BHL2									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4.00	4.00	0.00	0.00	Ground Level
89.00	89.00	0.16	0.07	First SDI Gyro Survey
2,548.00	2,547.99	1.03	0.68	Last Gyro Survey
2,593.00	2,592.99	1.25	0.55	First SDI MWD Survey
12,255.00	6,663.69	5,397.69	-2,951.02	Last SDI MWD Survey
12,312.00	6,662.15	5,447.36	-2,978.93	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

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