



Project: Mary Prospect
 Site: ZMBG Pad
 Well: 8H
 Wellbore: OH
 Design: 8H As Drilled



WELL DETAILS: 8H

+N/-S	+E/-W	Northing	Ground Level: Easting	1341.00	Latitude	Longitude
0.00	0.00	418379.00	1628097.00		39° 38' 28.273 N	80° 49' 14.367 W

REFERENCE INFORMATION

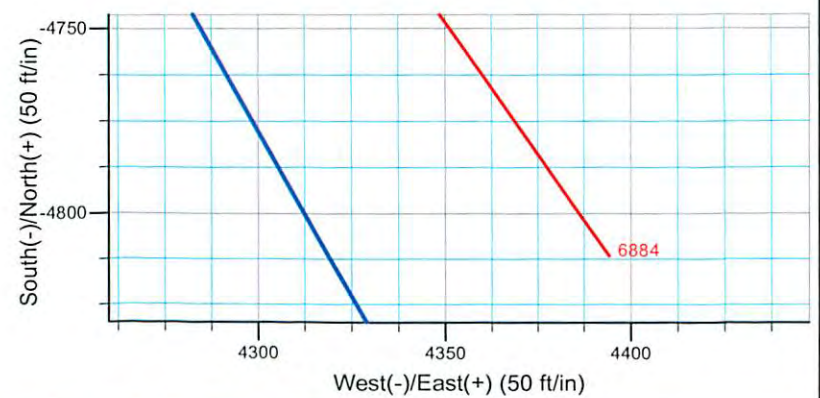
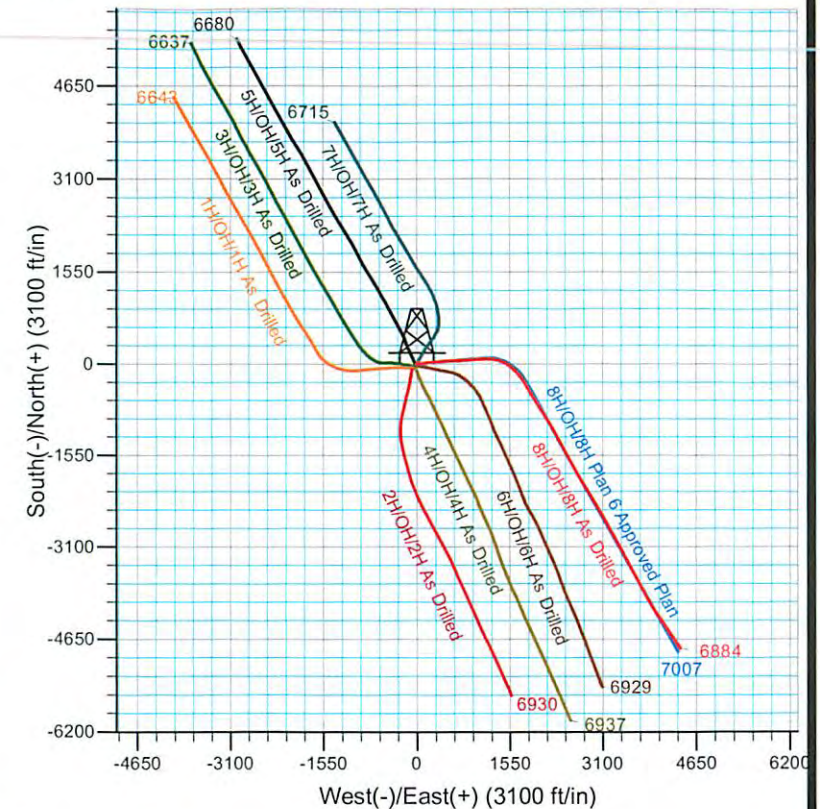
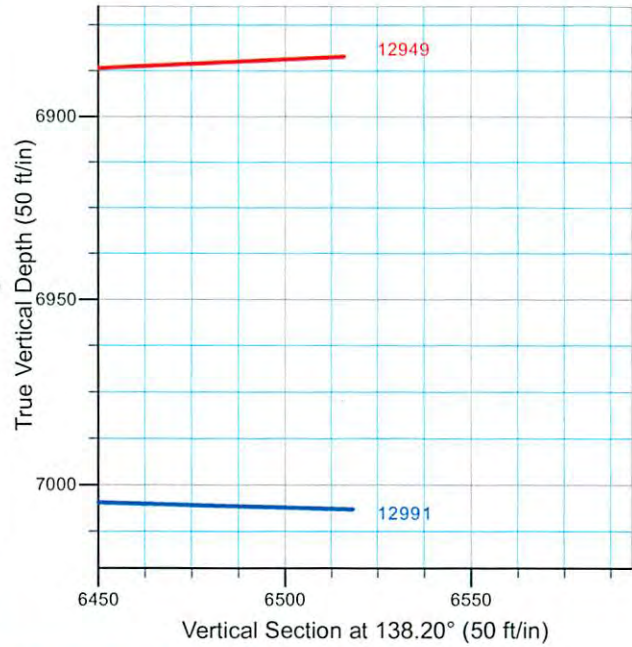
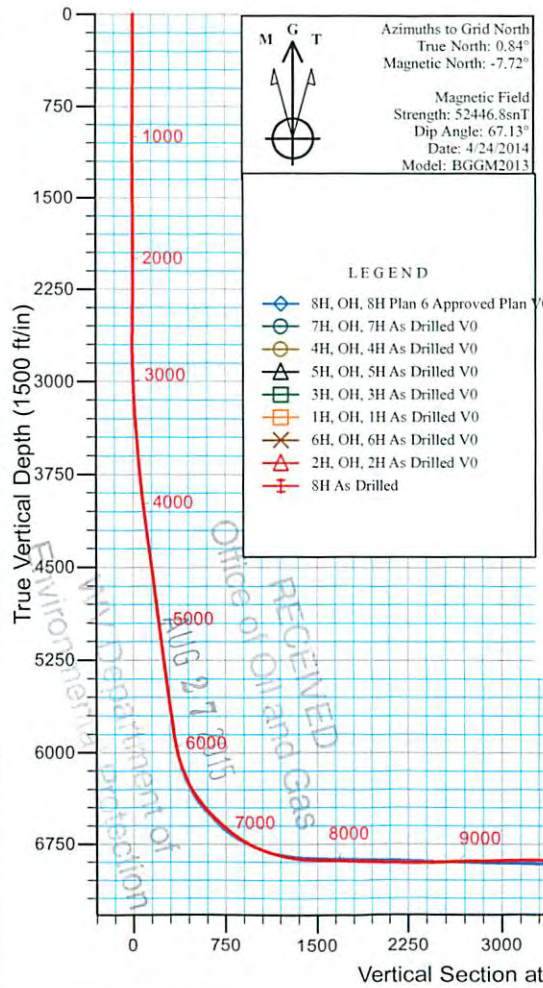
Co-ordinate (N/E) Reference: Well 8H, Grid North
 Vertical (TVD) Reference: GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
 Section (V/S) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 1341' & KB 18' @ 1359.00ft (Saxon 141)
 Calculation Method: Minimum Curvature

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	VSec	Target
1	5724.00	11.97	86.53	5673.21	48.85	510.26	0.00	0.00	303.72	
2	5924.00	11.97	86.53	5868.86	51.36	551.66	0.00	0.00	329.45	
3	6689.43	57.89	85.23	6479.74	84.91	976.98	6.00	-1.53	587.94	
4	6909.09	57.89	85.23	6596.49	100.37	1162.39	0.00	0.00	700.01	
5	7769.16	88.50	151.00	6870.00	-293.90	1814.10	8.00	77.87	1428.33	ZMBG 8H_LP3
6	12990.69	88.50	151.00	7006.68	-4859.01	4345.01	0.00	0.00	6518.36	ZMBG 8H_BHL3



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Stone Energy

Mary Prospect
ZMBG Pad
8H

OH

Design: 8H As Drilled

Standard Survey Report

22 July, 2014



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Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
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:	8H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	8H 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	8H					
Well Position	+N/-S	0.00 ft	Northing:	418,379.00 usft	Latitude:	39° 38' 28.273 N
	+E/-W	0.00 ft	Easting:	1,628,097.00 usft	Longitude:	80° 49' 14.367 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	8/28/2013	-8.54	67.19	52,532
	BGGM2013	10/8/2013	-8.54	67.18	52,518
	BGGM2013	3/7/2014	-8.55	67.14	52,464
	BGGM2013	4/24/2014	-8.56	67.13	52,447

Design	8H 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		138.20

Survey Program	Date	7/22/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
22.00	2,507.00	Survey 1 - SDI Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,562.00	5,724.00	Survey 2 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,725.00	12,949.00	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
22.00	0.00	360.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00
Ground Level									
107.00	0.28	251.36	107.00	-0.07	-0.20	-0.08	0.33	0.33	0.00
First SDI Gyro Survey									

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Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
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:	8H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	8H 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)	
207.00	0.23	299.48	207.00	-0.05	-0.60	-0.37	0.21	-0.05	48.12	
307.00	0.23	268.81	307.00	0.05	-0.98	-0.69	0.12	0.00	-30.67	
407.00	0.18	275.25	406.99	0.06	-1.34	-0.93	0.05	-0.05	6.44	
507.00	0.29	320.31	506.99	0.27	-1.65	-1.30	0.21	0.11	45.06	
607.00	0.24	327.81	606.99	0.64	-1.93	-1.76	0.06	-0.05	7.50	
707.00	0.21	327.52	706.99	0.97	-2.14	-2.15	0.03	-0.03	-0.29	
807.00	0.23	333.24	806.99	1.31	-2.33	-2.52	0.03	0.02	5.72	
907.00	0.19	27.61	906.99	1.63	-2.34	-2.78	0.20	-0.04	54.37	
1,007.00	0.14	57.61	1,006.99	1.84	-2.16	-2.81	0.10	-0.05	30.00	
1,107.00	0.06	102.76	1,106.99	1.90	-2.00	-2.75	0.11	-0.08	45.15	
1,207.00	0.14	113.63	1,206.99	1.84	-1.84	-2.60	0.08	0.08	10.87	
1,307.00	0.17	119.57	1,306.99	1.72	-1.60	-2.35	0.03	0.03	5.94	
1,407.00	0.22	99.10	1,406.99	1.61	-1.28	-2.06	0.08	0.05	-20.47	
1,507.00	0.23	108.01	1,506.99	1.52	-0.90	-1.73	0.04	0.01	8.91	
1,607.00	0.16	142.51	1,606.99	1.35	-0.63	-1.42	0.13	-0.07	34.50	
1,707.00	0.13	161.41	1,706.99	1.13	-0.50	-1.18	0.06	-0.03	18.90	
1,807.00	0.19	229.36	1,806.99	0.91	-0.59	-1.08	0.19	0.06	67.95	
1,907.00	0.16	228.66	1,906.99	0.71	-0.83	-1.08	0.03	-0.03	-0.70	
2,007.00	0.22	236.09	2,006.99	0.51	-1.09	-1.11	0.06	0.06	7.43	
2,107.00	0.15	274.66	2,106.99	0.42	-1.38	-1.23	0.14	-0.07	38.57	
2,207.00	0.08	262.31	2,206.99	0.42	-1.58	-1.36	0.07	-0.07	-12.35	
2,307.00	0.04	309.23	2,306.99	0.43	-1.67	-1.44	0.06	-0.04	46.92	
2,407.00	0.04	274.64	2,406.99	0.46	-1.74	-1.50	0.02	0.00	-34.59	
2,507.00	0.32	253.96	2,506.98	0.38	-2.04	-1.64	0.28	0.28	-20.68	
Last SDI Gyro Survey										
2,562.00	0.48	249.98	2,561.98	0.26	-2.40	-1.80	0.30	0.29	-7.24	
2,562.00	0.48	249.98	2,561.99	0.26	-2.40	-1.80	0.00	0.00	0.00	
First SDI MWD Survey										
2,612.00	0.43	296.76	2,611.98	0.27	-2.77	-2.05	0.73	-0.10	93.57	
2,704.00	1.25	36.78	2,703.97	1.23	-2.48	-2.57	1.51	0.89	108.72	
2,797.00	2.82	56.72	2,796.91	3.30	0.04	-2.43	1.83	1.69	21.44	
2,890.00	4.49	63.96	2,889.72	6.15	5.23	-1.10	1.86	1.80	7.78	
2,983.00	6.18	63.12	2,982.32	10.02	12.96	1.18	1.82	1.82	-0.90	
3,075.00	6.24	79.75	3,073.78	13.14	22.30	5.07	1.95	0.07	18.08	
3,170.00	5.37	93.82	3,168.30	13.77	31.82	10.95	1.75	-0.92	14.81	
3,264.00	4.70	115.43	3,261.95	11.82	39.69	17.64	2.12	-0.71	22.99	
3,359.00	4.47	111.19	3,356.64	8.81	46.65	24.53	0.43	-0.24	-4.46	
3,450.00	5.09	107.06	3,447.32	6.34	53.82	31.15	0.78	0.68	-4.54	
3,541.00	6.21	95.22	3,537.88	4.71	62.58	38.20	1.77	1.23	-13.01	
3,633.00	7.65	85.08	3,629.21	4.78	73.64	45.52	2.05	1.57	-11.02	
3,725.00	9.47	80.17	3,720.19	6.60	87.20	53.20	2.13	1.98	-5.34	
3,814.00	10.93	81.54	3,807.78	9.09	102.76	61.72	1.66	1.64	1.54	
3,908.00	12.76	82.30	3,899.77	11.80	121.86	72.44	1.95	0.95	0.81	
3,999.00	12.63	81.34	3,988.55	14.64	141.66	83.51	0.27	-0.14	-1.05	

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	8H As Drilled	Database:	Northeast District

Survey

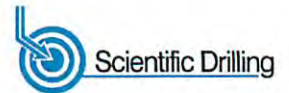
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,090.00	12.36	79.53	4,077.39	17.91	161.07	94.02	0.52	-0.30	-1.99
4,184.00	13.16	81.06	4,169.07	21.40	181.53	105.05	0.92	0.85	1.63
4,274.00	13.21	83.62	4,256.70	24.13	201.87	116.57	0.65	0.06	2.84
4,364.00	12.68	88.48	4,344.41	25.54	221.97	128.92	1.34	-0.59	5.40
4,458.00	11.91	86.09	4,436.26	26.47	241.96	141.55	0.98	-0.82	-2.54
4,551.00	12.10	85.41	4,527.22	27.91	261.25	153.34	0.25	0.20	-0.73
4,643.00	12.86	86.83	4,617.05	29.25	281.08	165.56	0.89	0.83	1.54
4,736.00	12.39	84.93	4,707.80	30.70	301.35	177.99	0.67	-0.51	-2.04
4,829.00	11.56	82.06	4,798.78	32.87	320.52	189.15	1.10	-0.89	-3.09
4,924.00	12.29	81.45	4,891.73	35.69	339.95	200.00	0.78	0.77	-0.64
5,015.00	13.14	82.34	4,980.49	38.51	359.78	211.12	0.96	0.93	0.98
5,110.00	13.27	85.67	5,072.98	40.77	381.35	223.81	0.81	0.14	3.51
5,202.00	12.21	83.36	5,162.72	42.69	401.55	235.84	1.28	-1.15	-2.51
5,295.00	12.10	85.08	5,253.63	44.66	421.03	247.35	0.41	-0.12	1.85
5,386.00	11.33	84.93	5,342.74	46.27	439.43	258.42	0.85	-0.85	-0.16
5,477.00	11.97	89.52	5,431.86	47.14	457.77	270.00	1.24	0.70	5.04
5,569.00	12.80	89.28	5,521.72	47.35	477.50	283.00	0.90	0.90	-0.26
5,661.00	11.97	86.53	5,611.58	48.05	497.22	295.61	1.11	-0.90	-2.99
5,724.00	11.97	86.53	5,673.21	48.85	510.26	303.72	0.00	0.00	0.00
5,725.00	12.18	86.84	5,674.19	48.86	510.47	303.85	21.92	20.94	30.92
5,788.00	12.30	87.45	5,735.76	49.52	523.81	312.24	0.28	0.19	0.97
5,852.00	12.35	86.43	5,798.28	50.25	537.45	320.79	0.35	0.08	-1.59
5,884.00	12.28	83.64	5,829.55	50.84	544.25	324.88	1.87	-0.22	-8.72
5,916.00	12.63	84.12	5,860.79	51.58	551.11	328.91	1.14	1.09	1.50
5,947.00	14.10	85.51	5,890.95	52.22	558.25	333.19	4.85	4.74	4.48
5,979.00	15.91	85.99	5,921.86	52.83	566.51	338.24	5.67	5.66	1.50
6,011.00	17.48	87.69	5,952.51	53.33	575.69	343.98	5.14	4.91	5.31
6,043.00	19.08	87.99	5,982.90	53.71	585.72	350.39	5.01	5.00	0.94
6,074.00	20.89	87.59	6,012.03	54.12	596.30	357.14	5.86	5.84	-1.29
6,106.00	23.23	88.09	6,041.68	54.57	608.31	364.81	7.34	7.31	1.56
6,138.00	26.11	89.40	6,070.76	54.85	621.66	373.50	9.16	9.00	4.09
6,170.00	27.75	89.89	6,099.29	54.94	636.15	383.09	5.17	5.13	1.53
6,202.00	29.14	89.48	6,127.43	55.03	651.40	393.19	4.39	4.34	-1.28
6,234.00	30.77	88.06	6,155.15	55.38	667.37	403.58	5.55	5.09	-4.44
6,265.00	32.27	86.80	6,181.58	56.11	683.56	413.82	5.28	4.84	-4.06
6,297.00	35.05	86.45	6,208.21	57.15	701.26	424.84	8.71	8.69	-1.09
6,329.00	37.28	85.84	6,234.04	58.42	720.10	436.45	7.06	6.97	-1.91
6,360.00	40.01	85.99	6,258.25	59.80	739.41	448.30	8.81	8.81	0.48
6,392.00	41.96	86.95	6,282.41	61.09	760.36	461.30	6.40	6.09	3.00
6,424.00	43.22	86.78	6,305.96	62.28	781.98	474.83	3.95	3.94	-0.53
6,456.00	43.81	86.98	6,329.17	63.47	803.98	488.60	1.89	1.84	0.63
6,488.00	46.69	86.06	6,351.70	64.86	826.66	502.69	9.23	9.00	-2.88
6,520.00	49.06	86.82	6,373.16	66.33	850.35	517.38	7.61	7.41	2.38

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	8H 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)
6,552.00	49.87	87.22	6,393.96	67.59	874.63	532.63	2.70	2.53	1.25
6,583.00	50.54	86.58	6,413.80	68.88	898.42	547.52	2.68	2.16	-2.06
6,615.00	51.38	86.79	6,433.95	70.32	923.23	562.99	2.67	2.63	0.66
6,647.00	52.98	86.89	6,453.57	71.71	948.47	578.77	5.01	5.00	0.31
6,678.00	54.98	86.69	6,471.80	73.12	973.50	594.41	6.47	6.45	-0.65
6,709.00	56.44	87.43	6,489.27	74.43	999.08	610.48	5.11	4.71	2.39
6,739.00	57.20	87.57	6,505.69	75.52	1,024.16	626.39	2.56	2.53	0.47
6,769.00	57.57	87.41	6,521.86	76.63	1,049.41	642.39	1.31	1.23	-0.53
6,799.00	58.17	87.84	6,537.81	77.68	1,074.79	658.53	2.34	2.00	1.43
6,830.00	58.74	87.82	6,554.03	78.68	1,101.19	675.38	1.84	1.84	-0.06
6,860.00	59.12	87.47	6,569.51	79.74	1,126.87	691.71	1.61	1.27	-1.17
6,890.00	59.28	87.58	6,584.87	80.85	1,152.61	708.04	0.62	0.53	0.37
6,920.00	59.33	89.06	6,600.19	81.61	1,178.39	724.66	4.25	0.17	4.93
6,950.00	59.84	90.96	6,615.38	81.60	1,204.26	741.91	5.72	1.70	6.33
6,981.00	59.71	92.29	6,630.98	80.84	1,231.04	760.32	3.73	-0.42	4.29
7,011.00	60.50	94.85	6,645.94	79.22	1,256.99	778.83	7.85	2.63	8.53
7,041.00	60.91	97.68	6,660.62	76.37	1,283.00	798.29	8.34	1.37	9.43
7,072.00	61.29	100.88	6,675.60	71.99	1,309.77	819.41	9.12	1.23	10.32
7,102.00	61.82	103.93	6,689.89	66.32	1,335.53	840.80	9.11	1.77	10.17
7,132.00	61.47	107.29	6,704.15	59.22	1,360.95	863.04	9.92	-1.17	11.20
7,162.00	61.31	110.09	6,718.51	50.78	1,385.90	885.96	8.21	-0.53	9.33
7,192.00	61.21	112.63	6,732.94	41.20	1,410.39	909.43	7.43	-0.33	8.47
7,222.00	62.06	114.88	6,747.19	30.57	1,434.55	933.46	7.18	2.83	7.50
7,252.00	63.37	117.63	6,760.95	18.77	1,458.46	958.19	9.24	4.37	9.17
7,282.00	64.46	119.82	6,774.14	5.82	1,482.08	983.59	7.50	3.63	7.30
7,312.00	65.95	122.43	6,786.72	-8.26	1,505.39	1,009.62	9.33	4.97	8.70
7,343.00	68.44	125.25	6,798.74	-24.17	1,529.12	1,037.30	11.61	8.03	9.10
7,373.00	71.21	127.43	6,809.09	-40.86	1,551.79	1,064.85	11.48	9.23	7.27
7,403.00	73.48	129.55	6,818.19	-58.65	1,574.16	1,093.03	10.13	7.57	7.07
7,433.00	73.88	131.99	6,826.62	-77.45	1,595.97	1,121.58	7.92	1.33	8.13
7,463.00	73.89	133.67	6,834.94	-97.05	1,617.10	1,150.27	5.38	0.03	5.60
7,494.00	74.11	134.74	6,843.49	-117.82	1,638.46	1,180.00	3.39	0.71	3.45
7,525.00	75.84	136.08	6,851.53	-139.14	1,659.48	1,209.90	6.97	5.58	4.32
7,555.00	77.44	137.86	6,858.46	-160.48	1,679.40	1,239.08	7.86	5.33	5.93
7,585.00	79.43	140.73	6,864.47	-182.76	1,698.56	1,268.46	11.48	6.63	9.57
7,616.00	80.24	142.96	6,869.95	-206.75	1,717.41	1,298.91	7.55	2.61	7.19
7,646.00	81.39	145.33	6,874.73	-230.75	1,734.75	1,328.36	8.69	3.83	7.90
7,676.00	83.45	147.25	6,878.69	-255.49	1,751.25	1,357.80	9.35	6.87	6.40
7,707.00	86.01	149.09	6,881.54	-281.71	1,767.53	1,388.20	10.15	8.26	5.94
7,738.00	87.58	150.48	6,883.27	-308.46	1,783.10	1,418.52	6.76	5.06	4.48
7,740.21	87.62	150.46	6,883.37	-310.38	1,784.20	1,420.68	2.17	1.91	-1.03
ZMBG 8H_LP3									
7,770.00	88.19	150.15	6,884.45	-336.24	1,798.94	1,449.78	2.17	1.91	-1.03

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
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:	8H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	8H 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)
7,834.00	83.76	150.10	6,886.16	-391.71	1,830.81	1,512.38	0.89	0.89	-0.08
7,898.00	89.06	149.76	6,887.37	-447.09	1,862.87	1,575.03	0.71	0.47	-0.53
7,961.00	89.33	149.19	6,888.26	-501.35	1,894.87	1,636.80	1.00	0.43	-0.90
8,025.00	88.42	147.98	6,889.52	-555.96	1,928.22	1,699.74	2.37	-1.42	-1.89
8,089.00	88.26	147.58	6,891.37	-610.08	1,962.33	1,762.82	0.67	-0.25	-0.63
8,152.00	87.99	147.51	6,893.43	-663.21	1,996.12	1,824.95	0.44	-0.43	-0.11
8,216.00	88.39	146.95	6,895.45	-717.00	2,030.74	1,888.13	1.07	0.63	-0.88
8,280.00	87.71	147.28	6,897.63	-770.71	2,065.47	1,951.32	1.18	-1.06	0.52
8,343.00	87.69	147.84	6,900.16	-823.84	2,099.24	2,013.43	0.89	-0.03	0.89
8,407.00	88.26	147.72	6,902.42	-877.95	2,133.34	2,076.49	0.91	0.89	-0.19
8,471.00	88.49	149.15	6,904.24	-932.46	2,166.82	2,139.45	2.26	0.36	2.23
8,535.00	88.99	149.03	6,905.64	-987.35	2,199.69	2,202.28	0.80	0.78	-0.19
8,598.00	89.70	148.76	6,906.36	-1,041.29	2,232.24	2,264.18	1.21	1.13	-0.43
8,662.00	91.27	150.40	6,905.82	-1,096.48	2,264.64	2,326.91	3.55	2.45	2.56
8,725.00	91.48	152.36	6,904.31	-1,151.76	2,294.81	2,388.23	3.13	0.33	3.11
8,788.00	91.68	152.99	6,902.57	-1,207.71	2,323.71	2,449.21	1.05	0.32	1.00
8,852.00	92.52	152.08	6,900.23	-1,264.46	2,353.21	2,511.17	1.93	1.31	-1.42
8,915.00	91.88	151.37	6,897.81	-1,319.90	2,383.03	2,572.38	1.52	-1.02	-1.13
8,979.00	91.17	151.64	6,896.10	-1,376.12	2,413.55	2,634.64	1.19	-1.11	0.42
9,043.00	91.51	151.70	6,894.61	-1,432.44	2,443.92	2,696.86	0.54	0.53	0.09
9,106.00	91.01	151.88	6,893.22	-1,487.95	2,473.69	2,758.08	0.84	-0.79	0.29
9,170.00	91.24	151.94	6,891.97	-1,544.40	2,503.82	2,820.24	0.37	0.36	0.09
9,233.00	90.17	151.03	6,891.19	-1,599.75	2,533.89	2,881.55	2.23	-1.70	-1.44
9,297.00	91.04	150.53	6,890.52	-1,655.60	2,565.13	2,944.01	1.57	1.36	-0.78
9,361.00	91.21	150.18	6,889.26	-1,711.21	2,596.78	3,006.56	0.61	0.27	-0.55
9,424.00	89.97	150.71	6,888.61	-1,766.01	2,627.85	3,068.12	2.14	-1.97	0.84
9,488.00	91.14	150.23	6,887.99	-1,821.70	2,659.40	3,130.65	1.98	1.83	-0.75
9,552.00	91.48	150.39	6,886.53	-1,877.28	2,691.09	3,193.21	0.59	0.53	0.25
9,615.00	89.56	149.42	6,885.96	-1,931.78	2,722.68	3,254.89	3.41	-3.05	-1.54
9,678.00	88.93	149.13	6,886.79	-1,985.93	2,754.86	3,316.71	1.10	-1.00	-0.46
9,742.00	90.10	149.38	6,887.33	-2,040.93	2,787.58	3,379.52	1.87	1.83	0.39
9,806.00	89.43	148.28	6,887.59	-2,095.69	2,820.70	3,442.42	2.01	-1.05	-1.72
9,869.00	86.81	147.73	6,889.66	-2,149.09	2,854.06	3,504.46	4.25	-4.16	-0.87
9,932.00	87.48	149.62	6,892.79	-2,202.84	2,886.77	3,566.33	3.18	1.06	3.00
9,996.00	88.25	150.52	6,895.18	-2,258.26	2,918.68	3,628.92	1.85	1.20	1.41
10,060.00	87.62	149.05	6,897.49	-2,313.53	2,950.86	3,691.57	2.50	-0.98	-2.30
10,123.00	88.69	149.57	6,899.51	-2,367.68	2,983.00	3,753.35	1.89	1.70	0.83
10,186.00	88.69	150.07	6,900.95	-2,422.12	3,014.67	3,815.05	0.79	0.00	0.79
10,250.00	88.59	151.27	6,902.47	-2,477.90	3,046.01	3,877.52	1.88	-0.16	1.88
10,313.00	89.30	151.84	6,903.63	-2,533.29	3,076.01	3,938.80	1.45	1.13	0.90
10,377.00	89.83	151.01	6,904.12	-2,589.49	3,106.62	4,001.10	1.54	0.83	-1.30
10,439.00	90.44	151.24	6,903.97	-2,643.78	3,136.56	4,061.53	1.05	0.98	0.37
10,503.00	88.69	151.81	6,904.46	-2,700.03	3,167.07	4,123.80	2.88	-2.73	0.89
10,566.00	88.52	152.38	6,905.99	-2,755.69	3,196.54	4,184.94	0.94	-0.27	0.90

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Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
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:	8H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	8H 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)
10,630.00	89.50	152.10	6,907.10	-2,812.32	3,226.35	4,247.01	1.59	1.53	-0.44
10,694.00	90.40	151.99	6,907.15	-2,868.85	3,256.35	4,309.15	1.42	1.41	-0.17
10,757.00	91.41	151.58	6,906.16	-2,924.35	3,286.13	4,370.38	1.73	1.60	-0.65
10,821.00	91.74	151.63	6,904.40	-2,980.63	3,316.56	4,432.61	0.52	0.52	0.08
10,880.00	91.51	151.73	6,902.73	-3,032.55	3,344.53	4,489.96	0.43	-0.39	0.17
10,944.00	92.05	151.90	6,900.74	-3,088.93	3,374.75	4,552.13	0.88	0.84	0.27
11,008.00	91.75	151.62	6,898.62	-3,145.29	3,405.01	4,614.31	0.64	-0.47	-0.44
11,071.00	92.82	151.76	6,896.10	-3,200.71	3,434.87	4,675.53	1.71	1.70	0.22
11,135.00	93.37	151.75	6,892.65	-3,257.00	3,465.11	4,737.65	0.86	0.86	-0.02
11,198.00	92.65	152.02	6,889.34	-3,312.49	3,494.76	4,798.78	1.22	-1.14	0.43
11,262.00	92.99	151.00	6,886.19	-3,368.67	3,525.25	4,860.98	1.68	0.53	-1.59
11,325.00	92.92	150.51	6,882.94	-3,423.57	3,555.98	4,922.39	0.78	-0.11	-0.78
11,388.00	91.07	151.54	6,880.75	-3,478.65	3,586.48	4,983.78	3.36	-2.94	1.63
11,452.00	90.97	152.82	6,879.61	-3,535.24	3,616.35	5,045.87	2.01	-0.16	2.00
11,516.00	89.63	151.79	6,879.28	-3,591.90	3,646.09	5,107.94	2.64	-2.09	-1.61
11,579.00	90.07	152.21	6,879.44	-3,647.53	3,675.67	5,169.12	0.97	0.70	0.67
11,643.00	90.57	153.29	6,879.08	-3,704.42	3,704.97	5,231.06	1.86	0.78	1.69
11,706.00	89.87	154.19	6,878.84	-3,760.92	3,732.84	5,291.76	1.81	-1.11	1.43
11,769.00	89.73	152.22	6,879.06	-3,817.15	3,761.24	5,352.60	3.13	-0.22	-3.13
11,832.00	88.32	150.78	6,880.13	-3,872.51	3,791.30	5,413.90	3.20	-2.24	-2.29
11,896.00	89.03	150.54	6,881.61	-3,928.28	3,822.65	5,476.37	1.17	1.11	-0.38
11,959.00	88.62	149.43	6,882.91	-3,982.82	3,854.15	5,538.03	1.88	-0.65	-1.76
12,023.00	87.25	150.18	6,885.21	-4,038.10	3,886.32	5,600.68	2.44	-2.14	1.17
12,087.00	87.75	149.69	6,888.00	-4,093.44	3,918.35	5,663.28	1.09	0.78	-0.77
12,151.00	88.83	148.86	6,889.91	-4,148.43	3,951.04	5,726.06	2.13	1.69	-1.30
12,214.00	89.80	148.20	6,890.67	-4,202.16	3,983.92	5,788.03	1.86	1.54	-1.05
12,278.00	90.60	147.56	6,890.44	-4,256.36	4,017.95	5,851.12	1.60	1.25	-1.00
12,342.00	91.18	146.70	6,889.45	-4,310.11	4,052.68	5,914.33	1.62	0.91	-1.34
12,405.00	90.34	146.22	6,888.61	-4,362.61	4,087.49	5,976.67	1.54	-1.33	-0.76
12,468.00	90.47	145.01	6,888.17	-4,414.60	4,123.06	6,039.14	1.93	0.21	-1.92
12,532.00	88.52	144.81	6,888.73	-4,466.96	4,159.85	6,102.70	3.06	-3.05	-0.31
12,595.00	89.30	145.50	6,889.93	-4,518.66	4,195.84	6,165.22	1.65	1.24	1.10
12,659.00	89.36	147.31	6,890.68	-4,571.96	4,231.25	6,228.56	2.83	0.09	2.83
12,722.00	90.34	146.69	6,890.84	-4,624.80	4,265.56	6,290.82	1.84	1.56	-0.98
12,786.00	91.28	145.96	6,889.94	-4,678.05	4,301.04	6,354.17	1.86	1.47	-1.14
12,850.00	91.95	144.65	6,888.14	-4,730.65	4,337.46	6,417.65	2.30	1.05	-2.05
12,887.00	92.78	145.00	6,886.61	-4,760.87	4,358.75	6,454.37	2.43	2.24	0.95
Last SDI MWD Survey									
12,949.00	92.78	145.00	6,883.60	-4,811.60	4,394.27	6,515.86	0.00	0.00	0.00
Projection to Bit - ZMBG 8H_BHL3									

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