



Project: Heather Prospect (NAD 27)
 Site: Stone
 Well: 8H
 Wellbore: OH
 Design: 8H As Drilled



WELL DETAILS: 8H

+N/-S 0.00 +E/W 0.00
 Northing 421803.80 Easting 1639013.00
 Ground Level: 1215.00
 Longitude 80° 46' 35.462" W

REFERENCE INFORMATION

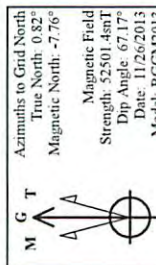
Co-ordinate (N/E) Reference: Well 8H, Grid North
 Vertical (TVD) Reference: GL 1215 & KB 18 @ 1233.00ft (Saxon 141)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 1215 & KB 18 @ 1233.00ft (Saxon 141)
 Calculation Method: Minimum Curvature

PROJECT DETAILS: Heather Prospect (NAD 27)

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

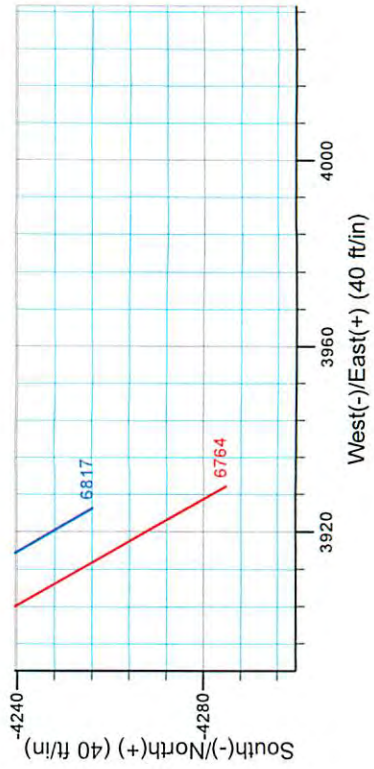
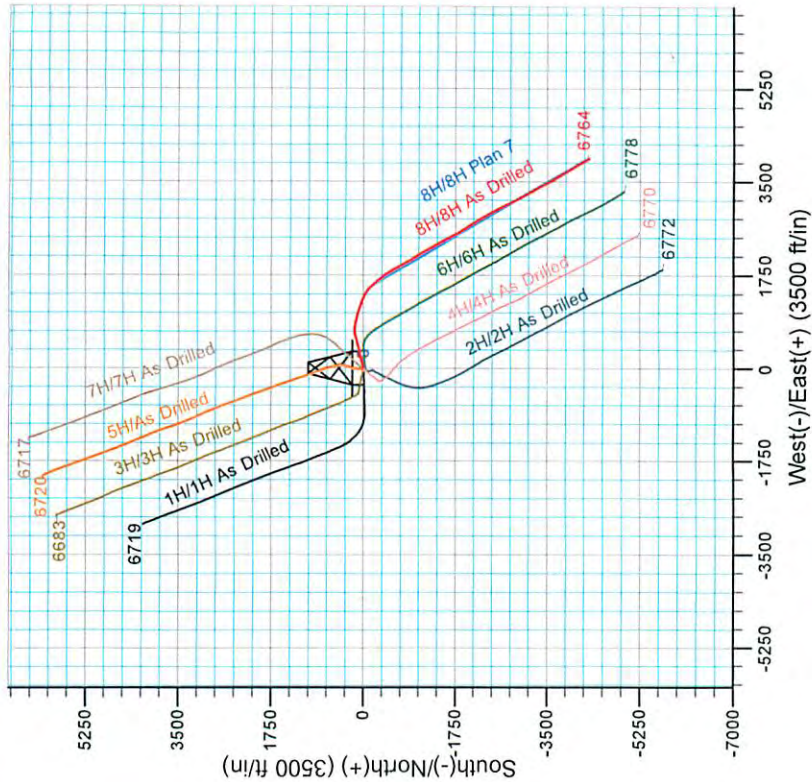
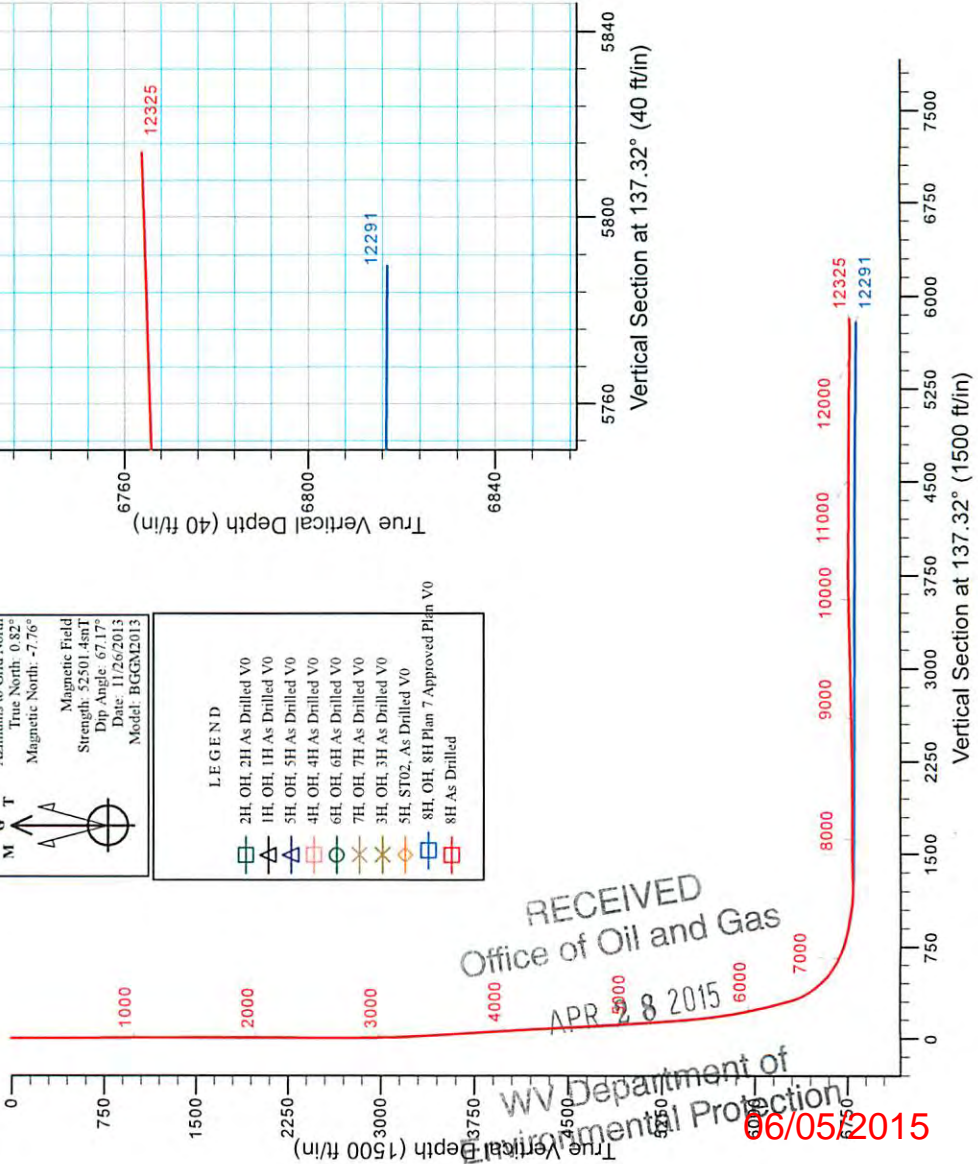
Sec	MD	Inc	Azi	TVD	+N/-S	+E/W	Dlgs	TFace	VSect	Target
1	7024.00	68.60	108.05	6695.08	82.74	1093.98	0.00	0.00	680.83	
2	7112.97	76.76	105.82	6727.50	52.51	1193.42	7.74	-14.96	770.47	Stone 8H LP3
3	7722.78	89.79	150.00	6800.00	-300.00	1641.00	7.74	77.02	1333.04	Stone 8H_BHL2
	412290.82	89.79	150.00	6817.03	-4256.01	3925.01	0.00	0.00	5789.59	
	512290.82	89.79	150.00	6817.03	-4256.01	3925.01	0.00	0.00	5789.59	BHL 2



Magnetic Field
 Strength: 52501.4srT
 Dip Angle: 67.17°
 Date: 11/26/2013
 Model: BGGM2013

LEGEND

- 2H, OH, 2H As Drilled V0
- 1H, OH, 1H As Drilled V0
- 3H, OH, 3H As Drilled V0
- 4H, OH, 4H As Drilled V0
- 6H, OH, 6H As Drilled V0
- 7H, OH, 7H As Drilled V0
- 3H, OH, 3H As Drilled V0
- 5H, ST02, As Drilled V0
- 8H, OH, 8H Plan 7 Approved Plain V0
- 8H As Drilled



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 WV Department of Environmental Protection
 06/05/2015



Stone Energy

Heather Prospect (NAD 27)

Stone

8H

OH

Design: 8H As Drilled

Standard Survey Report

28 March, 2014



www.scientificdrilling.com

06/05/2015



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
Site:	Stone	MD Reference:	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
Well:	8H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	8H As Drilled	Database:	Northeast District

Project	Heather Prospect (NAD 27), 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	Stone				
Site Position:		Northing:	421,797.00 usft	Latitude:	39° 39' 3.606 N
From:	Map	Easting:	1,638,950.00 usft	Longitude:	80° 46' 56.267 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.82 °

Well	8H					
Well Position	+N/-S	0.00 ft	Northing:	421,803.00 usft	Latitude:	39° 39' 3.674 N
	+E/-W	0.00 ft	Easting:	1,639,013.00 usft	Longitude:	80° 46' 55.462 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	1,215.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/15/2013	-8.51	67.21	52,620
	BGGM2013	11/26/2013	-8.57	67.17	52,501

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	137.32	

Survey Program	Date	3/28/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
15.00	2,400.00	Survey 1 - Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,484.00	12,325.00	Survey 2 - 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	0.00
15.00	0.00	360.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ground Level										
100.00	0.30	187.64	100.00	-0.22	-0.03	0.14	0.35	0.35	0.00	
First SDI Gyro Survey										
200.00	0.14	220.31	200.00	-0.57	-0.14	0.32	0.20	-0.16	32.67	
300.00	0.17	142.19	300.00	-0.78	-0.13	0.49	0.20	0.03	-78.12	
400.00	0.35	173.27	400.00	-1.20	0.00	0.88	0.22	0.18	31.08	



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
Site:	Stone	MD Reference:	GL 1215' & KB 18' @ 1233.00ft (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)
500.00	0.16	168.98	500.00	-1.64	0.06	1.25	0.19	-0.19	-4.29
600.00	0.21	151.59	600.00	-1.94	0.17	1.54	0.07	0.05	-17.39
700.00	0.24	76.81	700.00	-2.06	0.46	1.83	0.27	0.03	-74.78
800.00	0.27	122.97	799.99	-2.14	0.86	2.16	0.20	0.03	46.16
900.00	0.22	60.66	899.99	-2.17	1.23	2.43	0.26	-0.05	-62.31
1,000.00	0.33	142.90	999.99	-2.31	1.57	2.76	0.37	0.11	82.24
1,100.00	0.26	61.02	1,099.99	-2.43	1.94	3.10	0.39	-0.07	-81.88
1,200.00	0.37	108.51	1,199.99	-2.42	2.45	3.44	0.27	0.11	47.49
1,300.00	0.26	111.23	1,299.99	-2.60	2.96	3.92	0.11	-0.11	2.72
1,400.00	0.27	100.61	1,399.99	-2.73	3.41	4.32	0.05	0.01	-10.62
1,500.00	0.25	95.72	1,499.99	-2.79	3.86	4.67	0.03	-0.02	-4.89
1,600.00	0.22	104.50	1,599.99	-2.86	4.26	4.99	0.05	-0.03	8.78
1,700.00	0.08	129.98	1,699.99	-2.96	4.50	5.22	0.15	-0.14	25.48
1,800.00	0.08	178.69	1,799.99	-3.07	4.55	5.35	0.07	0.00	48.71
1,900.00	0.02	116.16	1,899.99	-3.15	4.57	5.41	0.07	-0.06	-62.53
2,000.00	0.10	315.90	1,999.99	-3.09	4.53	5.34	0.12	0.08	-160.26
2,100.00	0.15	294.59	2,099.99	-2.98	4.35	5.13	0.07	0.05	-21.31
2,200.00	0.17	304.81	2,199.99	-2.84	4.11	4.87	0.03	0.02	10.22
2,300.00	0.19	261.40	2,299.98	-2.78	3.82	4.63	0.13	0.02	-43.41
2,400.00	0.15	301.89	2,399.98	-2.73	3.54	4.41	0.12	-0.04	40.49
Last SDI Gyro Survey									
2,484.00	0.24	220.68	2,483.98	-2.81	3.34	4.33	0.31	0.11	-96.68
First SDI MWD Survey									
2,576.00	0.29	286.26	2,575.98	-2.89	2.99	4.15	0.32	0.05	71.28
2,668.00	1.12	35.35	2,667.98	-2.09	3.28	3.76	1.35	0.90	118.58
2,763.00	1.48	39.29	2,762.95	-0.38	4.60	3.40	0.39	0.38	4.15
2,856.00	2.04	53.23	2,855.91	1.54	6.68	3.40	0.75	0.60	14.99
2,950.00	3.10	64.72	2,949.81	3.62	10.32	4.34	1.25	1.13	12.22
3,040.00	4.35	72.87	3,039.62	5.67	15.79	6.54	1.50	1.39	9.06
3,133.00	5.57	73.80	3,132.27	7.97	23.49	10.07	1.31	1.31	1.00
3,225.00	6.50	73.43	3,223.76	10.70	32.77	14.35	1.01	1.01	-0.40
3,318.00	6.93	75.52	3,316.12	13.60	43.25	19.32	0.53	0.46	2.25
3,410.00	7.30	74.28	3,407.41	16.57	54.25	24.59	0.44	0.40	-1.35
3,500.00	7.46	71.13	3,496.67	20.01	65.28	29.55	0.48	0.18	-3.50
3,591.00	7.44	78.71	3,586.90	23.08	76.65	35.00	1.08	-0.02	8.33
3,684.00	7.61	78.27	3,679.10	25.51	88.58	41.30	0.19	0.18	-0.47
3,776.00	7.84	75.94	3,770.27	28.27	100.63	47.44	0.42	0.25	-2.53
3,869.00	6.90	80.01	3,862.50	30.78	112.29	53.50	1.16	-1.01	4.38
3,962.00	6.70	79.95	3,954.84	32.69	123.13	59.44	0.22	-0.22	-0.06
4,057.00	6.83	77.33	4,049.18	34.90	134.10	65.26	0.35	0.14	-2.76
4,148.00	6.87	75.84	4,139.53	37.42	144.66	70.56	0.20	0.04	-1.64
4,242.00	6.75	74.12	4,232.87	40.31	155.42	75.74	0.25	-0.13	-1.83
4,335.00	6.88	70.46	4,325.21	43.66	165.93	80.39	0.49	0.14	-3.94
4,426.00	6.86	66.42	4,415.56	47.66	176.05	84.31	0.53	-0.02	-4.44



Scientific Drilling
Survey Report



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Site:	Stone	MD Reference:	GL 1215' & KB 18' @ 1233.00ft (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)
4,520.00	6.70	74.49	4,508.91	51.37	186.47	88.65	1.03	-0.17	8.59
4,610.00	6.55	75.19	4,598.31	54.09	196.50	93.45	0.19	-0.17	0.78
4,704.00	6.58	74.75	4,691.69	56.88	206.88	98.44	0.06	0.03	-0.47
4,798.00	6.28	74.29	4,785.10	59.69	217.02	103.25	0.32	-0.32	-0.49
4,891.00	6.61	78.67	4,877.51	62.11	227.17	108.34	0.64	0.35	4.71
4,984.00	6.77	80.39	4,969.88	64.08	237.82	114.12	0.28	0.17	1.85
5,074.00	6.67	80.72	5,059.26	65.81	248.21	119.89	0.12	-0.11	0.37
5,165.00	6.67	81.06	5,149.64	67.48	258.64	125.74	0.04	0.00	0.37
5,258.00	6.58	83.54	5,242.02	68.92	269.27	131.89	0.32	-0.10	2.67
5,351.00	6.74	84.36	5,334.39	70.06	280.00	138.32	0.20	0.17	0.88
5,442.00	8.17	81.37	5,424.62	71.55	291.71	145.16	1.63	1.57	-3.29
5,535.00	10.59	79.02	5,516.37	74.17	306.63	153.35	2.63	2.60	-2.53
5,628.00	12.97	76.60	5,607.41	78.22	325.18	162.95	2.61	2.56	-2.60
5,721.00	17.12	74.20	5,697.20	84.37	348.51	174.25	4.51	4.46	-2.58
5,812.00	21.26	73.64	5,783.13	92.67	377.24	187.63	4.55	4.55	-0.62
5,877.00	24.22	73.64	5,843.07	99.74	401.35	198.77	4.55	4.55	0.00
5,926.00	21.63	74.55	5,888.19	104.98	419.70	207.36	5.33	-5.29	1.86
5,956.00	20.61	74.37	5,916.18	107.88	430.11	212.29	3.41	-3.40	-0.60
5,986.00	20.59	75.26	5,944.26	110.64	440.30	217.17	1.05	-0.07	2.97
6,016.00	21.55	77.38	5,972.25	113.19	450.78	222.40	4.09	3.20	7.07
6,047.00	23.15	77.82	6,000.92	115.72	462.29	228.34	5.19	5.16	1.42
6,077.00	24.80	78.60	6,028.34	118.20	474.22	234.60	5.60	5.50	2.60
6,108.00	26.05	78.66	6,056.33	120.83	487.27	241.52	4.03	4.03	0.19
6,138.00	26.71	78.46	6,083.21	123.47	500.34	248.43	2.22	2.20	-0.67
6,168.00	27.65	77.85	6,109.90	126.29	513.75	255.46	3.27	3.13	-2.03
6,199.00	28.66	76.84	6,137.23	129.49	528.02	262.78	3.60	3.26	-3.26
6,230.00	29.88	75.73	6,164.27	133.09	542.74	270.11	4.31	3.94	-3.58
6,260.00	30.63	74.32	6,190.18	137.00	557.34	277.14	3.44	2.50	-4.70
6,290.00	30.84	73.65	6,215.97	141.23	572.08	284.02	1.34	0.70	-2.23
6,321.00	30.67	73.52	6,242.61	145.71	587.29	291.04	0.59	-0.55	-0.42
6,351.00	30.83	73.46	6,268.39	150.06	601.99	297.80	0.54	0.53	-0.20
6,381.00	31.72	75.26	6,294.03	154.26	616.99	304.88	4.30	2.97	6.00
6,412.00	33.35	79.18	6,320.17	157.93	633.24	313.20	8.59	5.26	12.65
6,442.00	35.20	82.58	6,344.96	160.60	649.92	322.55	8.87	6.17	11.33
6,473.00	37.20	86.84	6,369.98	162.27	668.14	333.68	10.36	6.45	13.74
6,503.00	39.63	88.85	6,393.48	162.96	686.77	345.79	9.11	8.10	6.70
6,533.00	41.62	90.43	6,416.25	163.08	706.30	358.95	7.47	6.63	5.27
6,563.00	42.87	92.19	6,438.46	162.61	726.46	372.96	5.74	4.17	5.87
6,594.00	44.34	93.34	6,460.91	161.58	747.81	388.19	5.39	4.74	3.71
6,624.00	45.86	95.26	6,482.09	159.98	769.00	403.73	6.80	5.07	6.40
6,654.00	47.47	97.04	6,502.67	157.64	790.69	420.16	6.89	5.37	5.93
6,685.00	48.75	98.76	6,523.37	154.47	813.55	437.99	5.84	4.13	5.55
6,715.00	49.93	99.67	6,542.92	150.82	836.01	455.90	4.56	3.93	3.03

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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)
6,745.00	51.49	100.59	6,561.92	146.73	858.86	474.40	5.72	5.20	3.07
6,776.00	53.26	101.80	6,580.84	141.96	882.95	494.23	6.49	5.71	3.90
6,806.00	55.89	104.06	6,598.23	136.49	906.77	514.40	10.70	8.77	7.53
6,836.00	58.80	104.48	6,614.42	130.26	931.24	535.57	9.77	9.70	1.40
6,866.00	61.01	104.81	6,629.46	123.70	956.35	557.42	7.43	7.37	1.10
6,896.00	63.22	105.06	6,643.49	116.86	981.97	579.81	7.40	7.37	0.83
6,928.00	65.37	106.22	6,657.37	109.09	1,009.74	604.35	7.47	6.72	3.63
6,961.00	66.63	107.09	6,670.79	100.45	1,038.62	630.28	4.51	3.82	2.64
6,992.00	67.01	107.89	6,682.99	91.88	1,065.80	655.00	2.67	1.23	2.58
7,024.00	68.60	108.05	6,695.08	82.74	1,093.98	680.83	4.99	4.97	0.50
7,056.00	70.86	108.37	6,706.17	73.36	1,122.49	707.06	7.12	7.06	1.00
7,088.00	72.76	108.75	6,716.16	63.68	1,151.31	733.71	6.04	5.94	1.19
7,118.00	74.59	108.90	6,724.59	54.39	1,178.56	759.01	6.12	6.10	0.50
7,150.00	76.97	109.37	6,732.45	44.23	1,207.86	786.35	7.57	7.44	1.47
7,182.00	79.01	110.16	6,739.11	33.64	1,237.32	814.10	6.82	6.38	2.47
7,214.00	79.41	110.63	6,745.10	22.69	1,266.78	842.13	1.91	1.25	1.47
7,245.00	79.60	111.66	6,750.74	11.69	1,295.21	869.48	3.32	0.61	3.32
7,277.00	80.22	113.09	6,756.35	-0.30	1,324.34	898.05	4.81	1.94	4.47
7,309.00	81.31	116.08	6,761.49	-13.44	1,353.06	927.18	9.83	3.41	9.34
7,341.00	81.44	118.83	6,766.29	-28.03	1,381.13	956.93	8.51	0.41	8.59
7,372.00	80.83	122.01	6,771.07	-43.53	1,407.54	986.23	10.32	-1.97	10.26
7,404.00	80.02	125.13	6,776.39	-60.98	1,433.83	1,016.88	9.94	-2.53	9.75
7,435.00	79.69	128.35	6,781.85	-79.23	1,458.28	1,046.87	10.28	-1.06	10.39
7,466.00	81.48	131.63	6,786.92	-98.88	1,481.70	1,077.20	11.93	5.77	10.58
7,498.00	84.15	134.84	6,790.93	-120.62	1,504.83	1,108.86	12.99	8.34	10.03
7,530.00	87.28	137.92	6,793.32	-143.72	1,526.83	1,140.76	13.70	9.78	9.63
7,594.00	89.90	140.71	6,794.89	-192.23	1,568.54	1,204.69	5.98	4.09	4.36
7,658.00	90.84	140.94	6,794.48	-241.84	1,608.96	1,268.57	1.51	1.47	0.36
7,721.00	91.01	141.57	6,793.46	-290.97	1,648.39	1,331.41	1.04	0.27	1.00
7,785.00	90.64	141.78	6,792.54	-341.17	1,688.07	1,395.22	0.66	-0.58	0.33
7,848.00	91.18	142.49	6,791.54	-390.90	1,726.73	1,457.99	1.42	0.86	1.13
7,912.00	90.74	144.25	6,790.47	-442.25	1,764.91	1,521.62	2.83	-0.69	2.75
7,976.00	89.46	148.54	6,790.36	-495.54	1,800.32	1,584.80	7.00	-2.00	6.70
8,039.00	89.60	150.32	6,790.87	-549.78	1,832.36	1,646.39	2.83	0.22	2.83
8,102.00	90.00	150.21	6,791.09	-604.49	1,863.61	1,707.79	0.66	0.63	-0.17
8,165.00	90.71	150.60	6,790.70	-659.27	1,894.72	1,769.15	1.29	1.13	0.62
8,228.00	90.74	150.67	6,789.91	-714.17	1,925.61	1,830.45	0.12	0.05	0.11
8,292.00	90.44	151.56	6,789.25	-770.20	1,956.53	1,892.60	1.47	-0.47	1.39
8,356.00	90.13	151.44	6,788.93	-826.45	1,987.07	1,954.65	0.52	-0.48	-0.19
8,419.00	89.63	150.12	6,789.06	-881.43	2,017.82	2,015.92	2.24	-0.79	-2.10
8,483.00	89.80	148.68	6,789.38	-936.51	2,050.40	2,078.50	2.27	0.27	-2.25
8,547.00	90.54	148.84	6,789.19	-991.23	2,083.59	2,141.22	1.18	1.16	0.25
8,610.00	91.61	149.16	6,788.01	-1,045.22	2,116.03	2,202.91	1.77	1.70	0.51
8,673.00	91.58	149.42	6,786.25	-1,099.37	2,148.19	2,264.51	0.42	-0.05	0.41



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
Site:	Stone	MD Reference:	GL 1215' & KB 18' @ 1233.00ft (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)
8,737.00	91.07	149.54	6,784.77	-1,154.49	2,180.68	2,327.06	0.82	-0.80	0.19
8,801.00	91.14	149.36	6,783.54	-1,209.59	2,213.21	2,389.62	0.30	0.11	-0.28
8,864.00	91.41	150.68	6,782.14	-1,264.15	2,244.68	2,451.06	2.14	0.43	2.10
8,927.00	91.27	151.64	6,780.66	-1,319.32	2,275.06	2,512.21	1.54	-0.22	1.52
8,991.00	90.47	152.48	6,779.69	-1,375.85	2,305.04	2,574.10	1.81	-1.25	1.31
9,055.00	90.57	152.82	6,779.11	-1,432.69	2,334.45	2,635.82	0.55	0.16	0.53
9,118.00	90.47	153.13	6,778.54	-1,488.81	2,363.07	2,696.47	0.52	-0.16	0.49
9,182.00	91.41	153.64	6,777.49	-1,546.02	2,391.74	2,757.97	1.67	1.47	0.80
9,245.00	91.68	153.46	6,775.79	-1,602.41	2,419.79	2,818.43	0.52	0.43	-0.29
9,308.00	90.64	151.34	6,774.51	-1,658.22	2,448.97	2,879.24	3.75	-1.65	-3.37
9,371.00	90.54	150.19	6,773.87	-1,713.19	2,479.73	2,940.51	1.83	-0.16	-1.83
9,435.00	91.14	149.98	6,772.93	-1,768.66	2,511.65	3,002.92	0.99	0.94	-0.33
9,498.00	91.91	149.29	6,771.25	-1,823.00	2,543.48	3,064.45	1.64	1.22	-1.10
9,562.00	91.74	148.31	6,769.21	-1,877.71	2,576.62	3,127.14	1.55	-0.27	-1.53
9,625.00	90.34	147.88	6,768.07	-1,931.19	2,609.91	3,189.01	2.32	-2.22	-0.68
9,689.00	90.54	146.94	6,767.58	-1,985.11	2,644.38	3,252.02	1.50	0.31	-1.47
9,753.00	91.44	147.95	6,766.47	-2,039.04	2,678.81	3,315.01	2.11	1.41	1.58
9,817.00	91.88	149.21	6,764.62	-2,093.63	2,712.16	3,377.75	2.08	0.69	1.97
9,880.00	92.42	149.83	6,762.25	-2,147.89	2,744.10	3,439.28	1.30	0.86	0.98
9,944.00	91.21	150.84	6,760.23	-2,203.47	2,775.75	3,501.61	2.46	-1.89	1.58
10,007.00	91.54	150.62	6,758.72	-2,258.41	2,806.55	3,562.87	0.63	0.52	-0.35
10,071.00	90.47	150.78	6,757.59	-2,314.21	2,837.86	3,625.12	1.69	-1.67	0.25
10,134.00	90.67	151.23	6,756.97	-2,369.31	2,868.40	3,686.33	0.78	0.32	0.71
10,198.00	91.38	151.61	6,755.82	-2,425.51	2,899.01	3,748.39	1.26	1.11	0.59
10,262.00	89.80	152.19	6,755.16	-2,481.96	2,929.15	3,810.32	2.63	-2.47	0.91
10,326.00	88.66	152.35	6,756.02	-2,538.60	2,958.93	3,872.15	1.80	-1.78	0.25
10,389.00	89.16	152.17	6,757.22	-2,594.35	2,988.25	3,933.01	0.84	0.79	-0.29
10,453.00	89.23	153.09	6,758.12	-2,651.18	3,017.67	3,994.73	1.44	0.11	1.44
10,517.00	88.86	153.88	6,759.19	-2,708.44	3,046.24	4,056.19	1.36	-0.58	1.23
10,580.00	89.73	154.32	6,759.96	-2,765.11	3,073.75	4,116.50	1.55	1.38	0.70
10,644.00	90.20	154.10	6,760.00	-2,822.73	3,101.60	4,177.74	0.81	0.73	-0.34
10,708.00	90.27	153.02	6,759.74	-2,880.04	3,130.09	4,239.18	1.69	0.11	-1.69
10,771.00	90.54	153.23	6,759.29	-2,936.23	3,158.57	4,299.80	0.54	0.43	0.33
10,835.00	89.30	152.46	6,759.38	-2,993.17	3,187.78	4,361.46	2.28	-1.94	-1.20
10,899.00	88.83	151.89	6,760.43	-3,049.77	3,217.65	4,423.31	1.15	-0.73	-0.89
10,962.00	89.63	151.55	6,761.27	-3,105.24	3,247.49	4,484.32	1.38	1.27	-0.54
11,026.00	90.30	150.81	6,761.31	-3,161.31	3,278.34	4,546.46	1.56	1.05	-1.16
11,089.00	90.47	150.31	6,760.89	-3,216.18	3,309.31	4,607.78	0.84	0.27	-0.79
11,152.00	89.77	150.78	6,760.76	-3,271.03	3,340.29	4,669.11	1.34	-1.11	0.75
11,216.00	90.81	151.69	6,760.43	-3,327.13	3,371.09	4,731.23	2.16	1.63	1.42
11,279.00	89.77	151.94	6,760.12	-3,382.66	3,400.84	4,792.22	1.70	-1.65	0.40
11,343.00	89.40	152.39	6,760.58	-3,439.26	3,430.72	4,854.08	0.91	-0.58	0.70
11,407.00	90.54	151.59	6,760.61	-3,495.76	3,460.78	4,915.99	2.18	1.78	-1.25



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 8H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
Site:	Stone	MD Reference:	GL 1215' & KB 18' @ 1233.00ft (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)
11,471.00	90.74	150.63	6,759.90	-3,551.79	3,491.70	4,978.14	1.53	0.31	-1.50
11,532.00	89.93	149.56	6,759.54	-3,604.66	3,522.11	5,037.63	2.20	-1.33	-1.75
11,596.00	89.03	148.83	6,760.12	-3,659.63	3,554.88	5,100.25	1.81	-1.41	-1.14
11,660.00	89.13	148.82	6,761.15	-3,714.38	3,588.01	5,162.96	0.16	0.16	-0.02
11,724.00	88.89	149.19	6,762.25	-3,769.24	3,620.96	5,225.62	0.69	-0.38	0.58
11,787.00	89.50	148.62	6,763.14	-3,823.18	3,653.49	5,287.33	1.33	0.97	-0.90
11,851.00	89.33	147.71	6,763.79	-3,877.55	3,687.25	5,350.19	1.45	-0.27	-1.42
11,914.00	88.42	147.54	6,765.03	-3,930.74	3,720.98	5,412.16	1.47	-1.44	-0.27
11,978.00	89.43	147.61	6,766.23	-3,984.75	3,755.29	5,475.12	1.58	1.58	0.11
12,041.00	90.00	149.08	6,766.54	-4,038.38	3,788.35	5,536.95	2.50	0.90	2.33
12,105.00	89.26	150.01	6,766.96	-4,093.55	3,820.79	5,599.50	1.86	-1.16	1.45
12,168.00	90.10	150.35	6,767.31	-4,148.20	3,852.11	5,660.92	1.44	1.33	0.54
12,231.00	91.21	150.49	6,766.59	-4,202.99	3,883.21	5,722.27	1.78	1.76	0.22
12,262.00	91.74	150.41	6,765.79	-4,229.95	3,898.49	5,752.45	1.73	1.71	-0.26
Last SDI MWD Survey									
12,325.00	91.74	150.41	6,763.88	-4,284.71	3,929.59	5,813.79	0.00	0.00	0.00
Projection to Bit									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
15.00	15.00	0.00	0.00	Ground Level
100.00	100.00	-0.22	-0.03	First SDI Gyro Survey
2,400.00	2,399.98	-2.73	3.54	Last SDI Gyro Survey
2,484.00	2,483.98	-2.81	3.34	First SDI MWD Survey
12,262.00	6,765.79	-4,229.95	3,898.49	Last SDI MWD Survey
12,325.00	6,763.88	-4,284.71	3,929.59	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____