

WELL DETAILS: 3H

+N/-S	+E/-W	Ground Level:	Longitude
0.00	0.00	1215.00	80° 46' 56.219 W
421817.60	1638954.00	Latitude	Co-ordinate (N/E) Reference: Well 3H, Grid North
		39° 39' 3.804 N	Vertical (TVD) Reference: GL 1215' & KB 18' @ 1233.00ft (Saxon 141)

REFERENCE INFORMATION

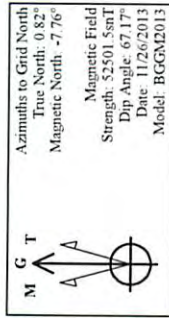
Section (VS) Reference: Slot - (0.00N, 0.00E)	Section (VS) Reference: GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
Measured Depth Reference: GL 1215' & KB 18' @ 1233.00ft (Saxon 141)	Calculated Method: Minimum Curvature

PROJECT DETAILS: Heather Prospect (NAD 27)

Geoidic System: US State Plane 1927 (Exact solution)	Ellipsoid: Clarke 1866
Datum: NAD 1927 (NADCON CONUS)	Zone: West Virginia North 4701
System Datum: Mean Sea Level	

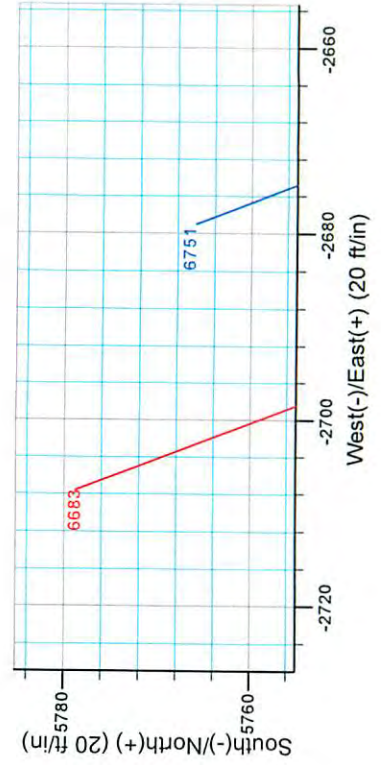
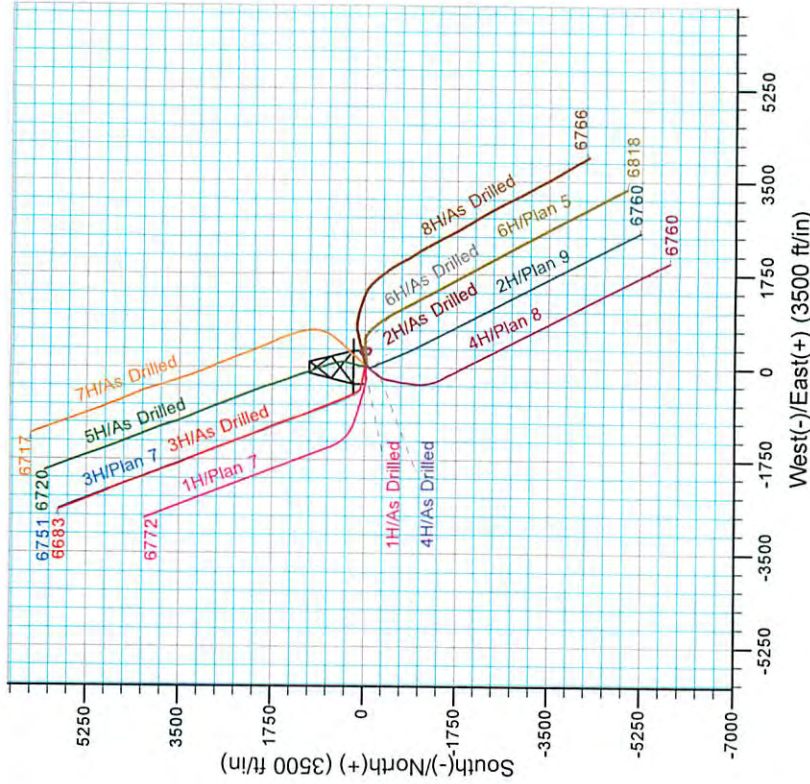
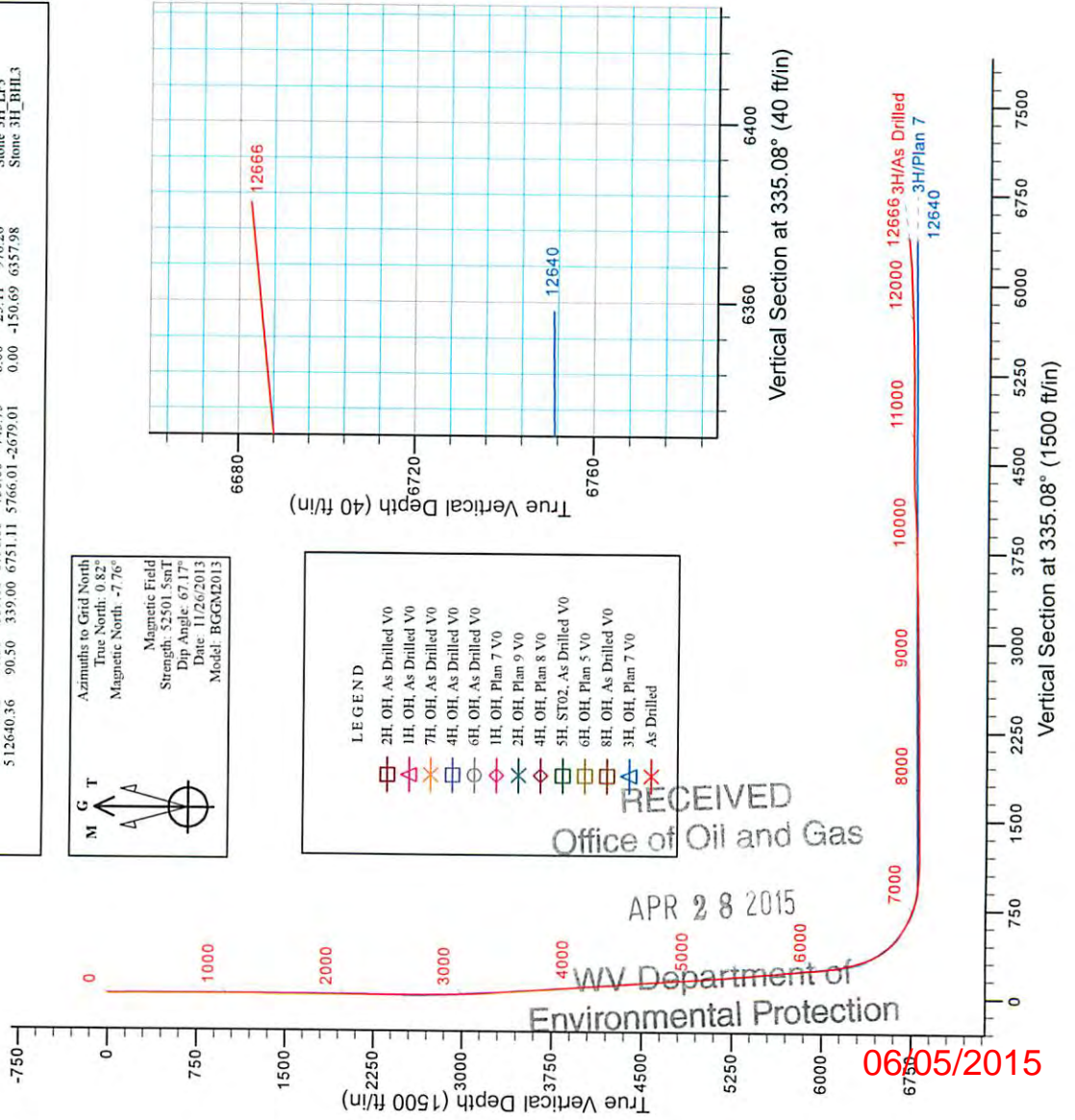
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	5897.00	9.84	278.64	5872.43	74.05	-372.75	0.00	0.00	224.22	
2	6135.00	9.84	278.64	6106.93	80.16	-412.96	0.00	0.00	246.70	
3	6280.04	14.33	314.55	6248.86	94.81	-438.23	6.00	76.68	270.64	Stone 3H_LP3
4	7245.82	90.50	339.00	6798.00	730.00	-745.75	8.00	25.11	976.26	Stone 3H_BHL3
5	512640.36	90.50	339.00	6751.11	5766.01	-2679.01	0.00	-150.69	6357.98	



LEGEND

- 2H, OH, As Drilled V0
- 1H, OH, As Drilled V0
- 7H, OH, As Drilled V0
- 4H, OH, As Drilled V0
- 6H, OH, As Drilled V0
- 1H, OH, Plan 7 V0
- 2H, OH, Plan 9 V0
- 4H, OH, Plan 8 V0
- 5H, ST02, As Drilled V0
- 6H, OH, Plan 5 V0
- 8H, OH, As Drilled V0
- 3H, OH, Plan 7 V0
- As Drilled



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## Stone Energy

Heather Prospect (NAD 27)

Stone

3H

OH

Design: As Drilled

## Standard Survey Report

24 January, 2014



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Survey Report



<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 3H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Site:</b>	Stone	<b>MD Reference:</b>	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Well:</b>	3H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	Northeast District

<b>Project</b>	Heather Prospect (NAD 27), Wetzel County, West Virginia		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	West Virginia North 4701		

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

<b>Well</b>	3H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	421,817.00 usft	<b>Latitude:</b>	39° 39' 3.804 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	1,638,954.00 usft	<b>Longitude:</b>	80° 46' 56.219 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	1,215.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/15/2013	-8.51	67.21	52,620
	IGRF2010	6/26/2013	-8.52	67.19	52,596
	IGRF2010	7/19/2013	-8.52	67.18	52,589
	BGGM2013	11/26/2013	-8.57	67.17	52,501

<b>Design</b>	As Drilled				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	335.08	

<b>Survey Program</b>	<b>Date</b>	1/24/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
15.00	2,400.00	Survey 1 - Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,448.98	5,897.00	Survey 2 - MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,923.00	12,666.00	Survey 3 SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
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	
<b>Ground Level</b>										
100.00	0.93	329.78	100.00	0.60	-0.35	0.69	1.09	1.09	0.00	
<b>First SDI Gyro Survey</b>										
200.00	0.45	317.64	199.99	1.59	-1.02	1.87	0.50	-0.48	-12.14	

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Survey Report



<b>Company:</b> Stone Energy	<b>Local Co-ordinate Reference:</b> Well 3H
<b>Project:</b> Heather Prospect (NAD 27)	<b>TVD Reference:</b> GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Site:</b> Stone	<b>MD Reference:</b> GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Well:</b> 3H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> As Drilled	<b>Database:</b> 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)	
300.00	0.09	183.97	299.99	1.80	-1.29	2.18	0.52	-0.36	-133.67	
400.00	0.16	271.93	399.99	1.73	-1.44	2.17	0.18	0.07	87.96	
500.00	0.14	242.85	499.99	1.67	-1.68	2.23	0.08	-0.02	-29.08	
600.00	0.07	57.13	599.99	1.65	-1.74	2.23	0.21	-0.07	174.28	
700.00	0.15	117.69	699.99	1.62	-1.57	2.14	0.13	0.08	60.56	
800.00	0.27	147.84	799.99	1.36	-1.33	1.80	0.16	0.12	30.15	
900.00	0.17	111.96	899.99	1.11	-1.07	1.46	0.17	-0.10	-35.88	
1,000.00	0.17	149.01	999.99	0.93	-0.86	1.20	0.11	0.00	37.05	
1,100.00	0.13	77.33	1,099.99	0.82	-0.67	1.03	0.18	-0.04	-71.68	
1,200.00	0.25	83.19	1,199.98	0.87	-0.34	0.94	0.12	0.12	5.86	
1,300.00	0.21	101.73	1,299.98	0.86	0.06	0.76	0.08	-0.04	18.54	
1,400.00	0.22	170.33	1,399.98	0.64	0.27	0.47	0.24	0.01	68.60	
1,500.00	0.34	160.96	1,499.98	0.17	0.40	-0.02	0.13	0.12	-9.37	
1,600.00	0.10	156.27	1,599.98	-0.19	0.53	-0.40	0.24	-0.24	-4.69	
1,700.00	0.21	194.49	1,699.98	-0.45	0.52	-0.63	0.15	0.11	38.22	
1,800.00	0.23	149.38	1,799.98	-0.80	0.57	-0.97	0.17	0.02	-45.11	
1,900.00	0.27	140.74	1,899.98	-1.16	0.82	-1.40	0.05	0.04	-8.64	
2,000.00	0.39	167.25	1,999.98	-1.67	1.05	-1.96	0.19	0.12	26.51	
2,100.00	0.28	196.97	2,099.98	-2.24	1.05	-2.47	0.20	-0.11	29.72	
2,200.00	0.36	146.37	2,199.97	-2.73	1.16	-2.96	0.28	0.08	-50.60	
2,300.00	0.30	180.61	2,299.97	-3.25	1.33	-3.51	0.20	-0.06	34.24	
2,400.00	0.19	131.92	2,399.97	-3.63	1.45	-3.90	0.23	-0.11	-48.69	
<b>Last SDI Gyro Survey</b>										
2,448.98	0.17	182.06	2,448.95	-3.75	1.50	-4.04	0.31	-0.04	102.37	
<b>First SDI MWD Survey</b>										
2,563.00	0.40	107.32	2,562.97	-4.04	1.88	-4.46	0.34	0.20	-65.55	
2,655.00	1.42	248.58	2,654.96	-4.55	1.12	-4.60	1.90	1.11	153.54	
2,746.00	1.91	273.70	2,745.93	-4.87	-1.44	-3.81	0.95	0.54	27.60	
2,838.00	2.57	292.53	2,837.86	-3.98	-4.87	-1.55	1.07	0.72	20.47	
2,931.00	3.32	292.24	2,930.73	-2.16	-9.29	1.96	0.81	0.81	-0.31	
3,023.00	3.48	284.67	3,022.57	-0.44	-14.46	5.69	0.52	0.17	-8.23	
3,115.00	4.19	288.56	3,114.36	1.33	-20.35	9.78	0.82	0.77	4.23	
3,207.00	5.56	288.36	3,206.03	3.81	-27.76	15.15	1.49	1.49	-0.22	
3,300.00	6.35	285.89	3,298.53	6.63	-36.99	21.60	0.89	0.85	-2.66	
3,395.00	7.76	281.71	3,392.81	9.37	-48.32	28.86	1.58	1.48	-4.40	
3,486.00	7.80	279.34	3,482.97	11.62	-60.43	36.00	0.36	0.04	-2.60	
3,577.00	7.74	276.32	3,573.13	13.30	-72.61	42.66	0.45	-0.07	-3.32	
3,669.00	7.01	281.86	3,664.37	15.14	-84.26	49.23	1.11	0.79	6.02	
3,759.00	7.20	281.94	3,753.68	17.43	-95.16	55.90	0.21	0.12	0.09	
3,849.00	7.75	283.40	3,842.92	20.00	-106.58	63.05	0.65	0.61	1.62	
3,946.00	7.63	281.97	3,939.04	22.86	-119.24	70.97	0.23	-0.12	-1.47	
4,041.00	7.21	277.59	4,033.25	24.95	-131.32	77.96	0.24	-0.12	-4.61	
4,131.00	7.08	282.86	4,122.55	26.93	-142.33	84.39	0.74	-0.14	5.86	

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Survey Report



<b>Company:</b> Stone Energy	<b>Local Co-ordinate Reference:</b> Well 3H
<b>Project:</b> Heather Prospect (NAD 27)	<b>TVD Reference:</b> GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Site:</b> Stone	<b>MD Reference:</b> GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Well:</b> 3H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> As Drilled	<b>Database:</b> 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)
4,226.00	6.84	283.20	4,216.85	29.53	-153.54	91.47	0.26	-0.25	0.36
4,318.00	7.15	283.05	4,308.17	32.07	-164.45	98.38	0.34	0.34	-0.16
4,411.00	7.10	281.42	4,400.45	34.52	-175.72	105.34	0.22	-0.05	-1.75
4,502.00	6.77	278.04	4,490.78	36.38	-186.55	111.60	0.58	-0.36	-3.71
4,594.00	6.88	282.13	4,582.13	38.30	-197.30	117.87	0.54	0.12	4.45
4,688.00	6.63	280.91	4,675.48	40.51	-208.14	124.43	0.31	-0.27	-1.30
4,779.00	7.06	279.63	4,765.83	42.44	-218.81	130.68	0.50	0.47	-1.41
4,872.00	7.15	276.10	4,858.12	44.01	-230.20	136.91	0.48	0.10	-3.80
4,968.00	6.84	274.15	4,953.40	45.05	-241.84	142.76	0.41	-0.32	-2.03
5,059.00	6.45	278.60	5,043.79	46.21	-252.30	148.22	0.71	-0.43	4.89
5,153.00	6.71	287.00	5,137.17	48.61	-262.77	154.80	1.06	0.28	8.94
5,247.00	7.38	285.53	5,230.46	51.83	-273.84	162.39	0.74	0.71	-1.56
5,341.00	8.17	287.33	5,323.60	55.43	-286.03	170.80	0.88	0.84	1.91
5,433.00	8.19	283.75	5,414.66	58.94	-298.64	179.29	0.55	0.02	-3.89
5,525.00	8.81	283.27	5,505.65	62.11	-311.86	187.74	0.68	0.67	-0.52
5,618.00	9.31	282.03	5,597.49	65.32	-326.15	196.66	0.58	0.54	-1.33
5,709.00	10.01	282.37	5,687.20	68.55	-341.08	205.88	0.77	0.77	0.37
5,802.00	9.74	279.50	5,778.82	71.58	-356.73	215.22	0.60	-0.29	-3.09
5,832.00	9.84	278.64	5,808.39	72.38	-361.77	218.07	0.59	0.33	-2.87
5,897.00	9.84	278.64	5,872.43	74.05	-372.75	224.22	0.00	0.00	0.00
5,923.00	10.15	279.90	5,898.04	74.78	-377.20	226.75	1.46	1.19	4.85
5,987.00	9.90	279.46	5,961.06	76.65	-388.18	233.08	0.41	-0.39	-0.69
6,051.00	9.81	281.15	6,024.11	78.61	-398.96	239.40	0.47	-0.14	2.64
6,081.00	9.74	281.62	6,053.68	79.61	-403.95	242.41	0.35	-0.23	1.57
6,112.00	9.50	282.04	6,084.24	80.67	-409.02	245.51	0.81	-0.77	1.35
6,142.00	9.66	289.62	6,113.83	82.04	-413.82	248.76	4.24	0.53	25.27
6,172.00	10.76	304.37	6,143.36	84.46	-418.50	252.94	9.42	3.67	49.17
6,203.00	12.31	312.10	6,173.73	88.31	-423.34	258.47	7.05	5.00	24.94
6,233.00	13.73	311.80	6,202.96	92.83	-428.37	264.68	4.74	4.73	-1.00
6,264.00	15.51	312.13	6,232.95	98.06	-434.19	271.88	5.75	5.74	1.06
6,294.00	17.23	314.90	6,261.74	103.89	-440.31	279.75	6.29	5.73	9.23
6,324.00	17.63	319.37	6,290.36	110.47	-446.41	288.29	4.66	1.33	14.90
6,355.00	18.21	322.69	6,319.86	117.89	-452.41	297.54	3.79	1.87	10.71
6,385.00	20.06	324.67	6,348.20	125.82	-458.22	307.18	6.53	6.17	6.60
6,416.00	22.33	327.59	6,377.10	135.13	-464.46	318.25	8.07	7.32	9.42
6,446.00	24.32	329.77	6,404.65	145.28	-470.62	330.05	7.23	6.63	7.27
6,476.00	27.02	331.27	6,431.68	156.59	-477.01	343.01	6.26	9.00	5.00
6,506.00	29.79	332.75	6,458.07	169.20	-483.70	357.25	9.53	9.23	4.93
6,536.00	32.56	332.92	6,483.74	183.01	-490.79	372.77	9.24	9.23	0.57
6,566.00	35.08	333.07	6,508.66	197.89	-498.37	389.46	8.40	8.40	0.50
6,596.00	37.83	333.36	6,532.79	213.80	-506.40	407.27	9.18	9.17	0.97
6,627.00	40.90	333.92	6,556.75	231.42	-515.12	426.92	9.97	9.90	1.81
6,657.00	43.98	334.27	6,578.89	249.63	-523.97	447.16	10.30	10.17	1.17
6,687.00	46.67	334.83	6,599.98	268.89	-533.13	468.49	9.06	8.97	1.87

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Survey Report



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<b>Project:</b> Heather Prospect (NAD 27)	<b>TVD Reference:</b> GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Site:</b> Stone	<b>MD Reference:</b> GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Well:</b> 3H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> As Drilled	<b>Database:</b> 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)
6,717.00	49.37	335.36	6,620.04	289.11	-542.52	490.79	9.10	9.00	1.77
6,747.00	52.57	335.92	6,638.93	310.34	-552.13	514.09	10.76	10.67	1.87
6,777.00	55.78	335.75	6,656.49	332.53	-562.08	538.41	10.71	10.70	-0.57
6,808.00	57.97	336.17	6,673.43	356.24	-572.66	564.37	7.16	7.06	1.35
6,838.00	59.57	336.66	6,688.98	379.75	-582.92	590.01	5.51	5.33	1.63
6,869.00	61.56	337.12	6,704.21	404.58	-593.52	617.00	6.55	6.42	1.48
6,899.00	63.45	337.36	6,718.06	429.12	-603.81	643.59	6.34	6.30	0.80
6,930.00	65.59	337.22	6,731.40	454.93	-614.61	671.55	6.92	6.90	-0.45
6,960.00	67.90	336.89	6,743.24	480.31	-625.36	699.09	7.77	7.70	-1.10
6,990.00	69.54	336.96	6,754.13	506.03	-636.32	727.03	5.47	5.47	0.23
7,021.00	71.52	336.92	6,764.46	532.92	-647.76	756.24	6.39	6.39	-0.13
7,051.00	73.71	337.58	6,773.43	559.32	-658.83	784.85	7.60	7.30	2.20
7,081.00	75.57	337.89	6,781.37	586.09	-669.79	813.75	6.28	6.20	1.03
7,113.00	77.73	338.39	6,788.76	614.99	-681.38	844.84	6.92	6.75	1.56
7,144.00	80.61	338.40	6,794.58	643.29	-692.59	875.23	9.29	9.29	0.03
7,176.00	82.90	338.34	6,799.17	672.73	-704.27	906.84	7.16	7.16	-0.19
7,208.00	85.55	337.86	6,802.39	702.27	-716.14	938.64	8.41	8.28	-1.50
7,272.00	87.01	337.68	6,806.55	761.38	-740.30	1,002.43	2.30	2.28	-0.28
7,336.00	87.98	337.65	6,809.34	820.53	-764.60	1,066.30	1.52	1.52	-0.05
7,399.00	89.16	337.78	6,810.91	878.80	-788.48	1,129.21	1.88	1.87	0.21
7,462.00	90.20	337.10	6,811.27	936.98	-812.65	1,192.16	1.97	1.65	-1.08
7,526.00	90.91	336.18	6,810.65	995.73	-838.03	1,256.13	1.82	1.11	-1.44
7,653.00	89.97	338.40	6,809.67	1,112.87	-887.05	1,383.02	1.90	-0.74	1.75
7,717.00	90.74	339.09	6,809.27	1,172.51	-910.25	1,446.89	1.62	1.20	1.08
7,781.00	89.56	339.05	6,809.11	1,232.29	-933.11	1,510.73	1.84	-1.84	-0.06
7,844.00	88.86	338.92	6,809.98	1,291.09	-955.70	1,573.58	1.13	-1.11	-0.21
7,908.00	90.60	341.78	6,810.28	1,351.36	-977.22	1,637.30	5.23	2.72	4.47
7,971.00	91.75	343.94	6,808.99	1,411.54	-995.78	1,699.70	3.88	1.83	3.43
8,035.00	91.85	341.52	6,806.98	1,472.62	-1,014.77	1,763.10	3.78	0.16	-3.78
8,098.00	90.37	339.68	6,805.75	1,532.03	-1,035.69	1,825.79	3.75	-2.35	-2.92
8,162.00	90.57	339.01	6,805.23	1,591.91	-1,058.27	1,889.61	1.09	0.31	-1.05
8,225.00	90.71	337.64	6,804.53	1,650.45	-1,081.54	1,952.50	2.19	0.22	-2.17
8,289.00	91.14	337.46	6,803.49	1,709.60	-1,105.97	2,016.43	0.73	0.67	-0.28
8,353.00	90.24	337.54	6,802.72	1,768.72	-1,130.46	2,080.37	1.41	-1.41	0.13
8,416.00	90.17	337.68	6,802.50	1,826.97	-1,154.46	2,143.31	0.25	0.11	0.22
8,480.00	91.11	337.61	6,801.78	1,886.15	-1,178.80	2,207.24	1.47	1.47	-0.11
8,544.00	90.54	337.58	6,800.86	1,945.32	-1,203.19	2,271.17	0.89	-0.89	-0.05
8,607.00	89.90	338.56	6,800.62	2,003.76	-1,226.72	2,334.08	1.86	-1.02	1.56
8,671.00	90.47	338.25	6,800.41	2,063.26	-1,250.27	2,397.98	0.89	0.89	-0.48
8,735.00	90.71	337.79	6,799.75	2,122.61	-1,274.23	2,461.89	0.81	0.38	-0.72
8,799.00	89.73	337.71	6,799.51	2,181.84	-1,298.46	2,525.82	1.54	-1.54	-0.13
8,862.00	89.19	338.43	6,800.10	2,240.28	-1,321.99	2,588.73	1.43	0.89	1.14
8,924.00	90.71	339.56	6,800.15	2,298.16	-1,344.21	2,650.58	3.05	2.45	1.82

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Survey Report



<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 3H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Site:</b>	Stone	<b>MD Reference:</b>	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Well:</b>	3H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	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)
8,987.00	92.79	339.46	6,798.23	2,357.14	-1,366.25	2,713.36	3.31	3.30	-0.16
9,051.00	92.08	338.81	6,795.51	2,416.89	-1,389.02	2,777.14	1.50	-1.11	-1.02
9,115.00	91.71	339.15	6,793.40	2,476.60	-1,411.97	2,840.96	0.78	-0.58	0.53
9,177.00	91.14	339.00	6,791.85	2,534.49	-1,434.10	2,902.79	0.95	-0.92	-0.24
9,241.00	90.51	338.36	6,790.93	2,594.10	-1,457.37	2,966.65	1.40	-0.98	-1.00
9,304.00	90.94	339.11	6,790.13	2,652.81	-1,480.22	3,029.52	1.37	0.68	1.19
9,368.00	91.55	339.40	6,788.74	2,712.65	-1,502.88	3,093.34	1.06	0.95	0.45
9,432.00	92.11	339.53	6,786.70	2,772.55	-1,525.32	3,157.11	0.90	0.88	0.20
9,494.00	92.01	337.95	6,784.47	2,830.29	-1,547.79	3,218.95	2.55	-0.16	-2.55
9,558.00	91.18	337.27	6,782.69	2,889.44	-1,572.15	3,282.86	1.68	-1.30	-1.06
9,621.00	91.54	337.80	6,781.20	2,947.64	-1,596.22	3,345.78	1.02	0.57	0.84
9,685.00	91.41	338.04	6,779.55	3,006.93	-1,620.27	3,409.68	0.43	-0.20	0.38
9,749.00	92.15	337.76	6,777.56	3,066.20	-1,644.34	3,473.57	1.24	1.16	-0.44
9,813.00	90.98	337.95	6,775.81	3,125.45	-1,668.45	3,537.47	1.85	-1.83	0.30
9,876.00	90.77	337.91	6,774.85	3,183.83	-1,692.12	3,600.39	0.34	-0.33	-0.06
9,940.00	90.94	337.60	6,773.89	3,243.06	-1,716.35	3,664.31	0.55	0.27	-0.48
10,004.00	91.21	336.54	6,772.69	3,301.99	-1,741.28	3,728.26	1.71	0.42	-1.66
10,068.00	90.54	335.31	6,771.72	3,360.42	-1,767.38	3,792.24	2.19	-1.05	-1.92
10,131.00	91.34	336.40	6,770.68	3,417.90	-1,793.15	3,855.23	2.15	1.27	1.73
10,195.00	92.08	336.24	6,768.77	3,476.48	-1,818.84	3,919.18	1.18	1.16	-0.25
10,258.00	93.66	338.47	6,765.62	3,534.55	-1,843.06	3,982.05	4.33	2.51	3.54
10,322.00	94.37	340.68	6,761.14	3,594.37	-1,865.34	4,045.69	3.62	1.11	3.45
10,385.00	94.98	341.01	6,756.00	3,653.68	-1,885.95	4,108.16	1.10	0.97	0.52
10,449.00	92.56	340.33	6,751.79	3,713.94	-1,907.08	4,171.72	3.93	-3.78	-1.06
10,513.00	92.49	340.39	6,748.97	3,774.16	-1,928.57	4,235.38	0.14	-0.11	0.09
10,577.00	92.08	339.95	6,746.42	3,834.32	-1,950.27	4,299.08	0.94	-0.64	-0.69
10,640.00	91.45	339.75	6,744.48	3,893.43	-1,971.96	4,361.83	1.05	-1.00	-0.32
10,704.00	90.70	339.73	6,743.28	3,953.46	-1,994.12	4,425.61	1.17	-1.17	-0.03
10,767.00	89.56	339.00	6,743.14	4,012.42	-2,016.32	4,488.43	2.15	-1.81	-1.16
10,830.00	90.07	338.88	6,743.34	4,071.21	-2,038.96	4,551.29	0.83	0.81	-0.19
10,893.00	90.91	339.33	6,742.80	4,130.06	-2,061.43	4,614.13	1.51	1.33	0.71
10,956.00	91.58	339.63	6,741.43	4,189.05	-2,083.50	4,676.93	1.17	1.06	0.48
11,020.00	90.91	339.76	6,740.04	4,249.06	-2,105.71	4,740.71	1.07	-1.05	0.20
11,083.00	90.34	340.08	6,739.36	4,308.23	-2,127.34	4,803.48	1.04	-0.90	0.51
11,146.00	90.57	339.57	6,738.86	4,367.36	-2,149.06	4,866.26	0.89	0.37	-0.81
11,210.00	90.70	339.00	6,738.15	4,427.22	-2,171.70	4,930.08	0.91	0.20	-0.89
11,273.00	91.31	339.42	6,737.04	4,486.11	-2,194.06	4,992.91	1.18	0.97	0.67
11,337.00	89.66	339.37	6,736.50	4,546.01	-2,216.58	5,055.72	2.58	-2.58	-0.08
11,401.00	89.77	339.34	6,736.82	4,605.90	-2,239.14	5,120.54	0.18	0.17	-0.05
11,465.00	90.23	338.03	6,736.82	4,665.52	-2,262.41	5,184.41	2.17	0.72	-2.05
11,528.00	90.30	336.12	6,736.53	4,723.54	-2,286.95	5,247.37	3.03	0.11	-3.03
11,592.00	91.08	335.87	6,735.76	4,782.00	-2,312.98	5,311.36	1.28	1.22	-0.39
11,655.00	91.75	334.92	6,734.20	4,839.26	-2,339.20	5,374.34	1.84	0.00	-1.51

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Survey Report



<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 3H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Site:</b>	Stone	<b>MD Reference:</b>	GL 1215' & KB 18' @ 1233.00ft (Saxon 141)
<b>Well:</b>	3H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	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)
11,718.00	91.68	335.33	6,732.32	4,896.39	-2,365.69	5,437.31	0.66	-0.11	0.65
11,782.00	91.91	338.61	6,730.31	4,955.25	-2,390.71	5,501.24	5.14	0.36	5.13
11,845.00	91.91	338.81	6,728.21	5,013.92	-2,413.57	5,564.07	0.32	0.00	0.32
11,908.00	92.62	338.02	6,725.72	5,072.45	-2,436.73	5,626.92	1.69	1.13	-1.25
11,972.00	92.05	337.69	6,723.11	5,131.68	-2,460.84	5,690.79	1.03	-0.89	-0.52
12,035.00	91.78	339.03	6,721.01	5,190.21	-2,484.06	5,753.65	2.17	-0.43	2.13
12,099.00	92.28	339.90	6,718.74	5,250.10	-2,506.49	5,817.42	1.57	0.78	1.36
12,163.00	92.79	339.37	6,715.91	5,310.04	-2,528.74	5,881.16	1.15	0.80	-0.83
12,226.00	92.22	339.10	6,713.16	5,368.90	-2,551.06	5,943.93	1.00	-0.90	-0.43
12,290.00	92.25	339.50	6,710.66	5,428.72	-2,573.66	6,007.71	0.63	0.05	0.63
12,354.00	92.72	339.35	6,707.89	5,488.58	-2,596.13	6,071.46	0.77	0.73	-0.23
12,417.00	93.83	339.13	6,704.29	5,547.39	-2,618.42	6,134.19	1.80	1.76	-0.35
12,481.00	94.30	339.04	6,699.75	5,607.02	-2,641.21	6,197.88	0.75	0.73	-0.14
12,545.00	95.01	338.67	6,694.56	5,666.52	-2,664.22	6,261.53	1.25	1.11	-0.58
12,608.00	95.89	338.91	6,688.57	5,724.98	-2,686.91	6,324.11	1.45	1.40	0.38
<b>Last SDI MWD Survey</b>									
12,666.00	95.89	338.91	6,682.62	5,778.81	-2,707.67	6,381.67	0.00	0.00	0.00
<b>Projection to Bit</b>									

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	0.60	-0.35	First SDI Gyro Survey
2,400.00	2,399.97	-3.63	1.45	Last SDI Gyro Survey
2,448.98	2,448.95	-3.75	1.50	First SDI MWD Survey
12,608.00	6,688.57	5,724.98	-2,686.91	Last SDI MWD Survey
12,666.00	6,682.62	5,778.81	-2,707.67	Projection to Bit

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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