



Scientific Drilling International
Survey Report



103-02816

Company:	Stone Energy	Local Co-ordinate Reference:	Well Mason-Conlon 3H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Site:	Mason-Conlon Pad	MD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Well:	Mason-Conlon 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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	Mason-Conlon Pad				
Site Position:		Northing:	412,527.00 usft	Latitude:	39° 37' 34.138 N
From:	Map	Easting:	1,654,495.00 usft	Longitude:	80° 43' 35.920 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.78 °

Well	Mason-Conlon 3H					
Well Position	+N/-S	0.00 ft	Northing:	412,579.00 usft	Latitude:	39° 37' 34.645 N
	+E/-W	0.00 ft	Easting:	1,654,447.00 usft	Longitude:	80° 43' 36.543 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	1,202.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/9/2013	-8.54	67.18	52,604

Design	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	325.77	

Survey Program	Date	4/24/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
108.00	6,141.00	Survey 3 - Top Hole Gyro (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
6,172.00	7,468.00	Survey 4 - Curve (OH)	MWD SDI	MWD - Standard ver 1.0.1	
7,529.00	13,181.00	Survey 5 - Lateral (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	
108.00	0.70	136.07	108.00	-0.48	0.46	-0.65	0.65	0.65	0.00	
First Gyro Survey										
208.00	0.51	142.92	207.99	-1.27	1.15	-1.70	0.20	-0.19	6.85	
308.00	0.31	136.59	307.99	-1.82	1.60	-2.41	0.20	-0.20	-6.33	
408.00	0.16	137.05	407.99	-2.12	1.89	-2.81	0.15	-0.15	0.46	
508.00	0.13	135.74	507.99	-2.30	2.06	-3.06	0.03	-0.03	-1.31	
608.00	0.17	145.51	607.99	-2.51	2.22	-3.32	0.05	0.04	9.77	
708.00	0.05	147.25	707.99	-2.67	2.33	-3.52	0.12	-0.12	1.74	

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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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)
808.00	0.09	175.55	807.99	-2.78	2.36	-3.63	0.05	0.04	28.30
908.00	0.15	172.07	907.99	-2.99	2.38	-3.81	0.06	0.06	-3.48
1,008.00	0.23	173.61	1,007.99	-3.32	2.42	-4.11	0.08	0.08	1.54
1,108.00	0.22	177.84	1,107.99	-3.71	2.45	-4.45	0.02	-0.01	4.23
1,208.00	0.07	167.13	1,207.99	-3.96	2.47	-4.67	0.15	-0.15	-10.71
1,308.00	0.06	83.88	1,307.99	-4.02	2.54	-4.75	0.09	-0.01	-83.25
1,408.00	0.06	219.45	1,407.99	-4.05	2.56	-4.79	0.11	0.00	135.57
1,508.00	0.03	130.86	1,507.99	-4.11	2.55	-4.83	0.07	-0.03	-88.59
1,608.00	0.23	92.67	1,607.99	-4.13	2.77	-4.97	0.21	0.20	-38.19
1,708.00	0.24	65.30	1,707.98	-4.06	3.16	-5.13	0.11	0.01	-27.37
1,808.00	0.26	29.98	1,807.98	-3.77	3.46	-5.07	0.15	0.02	-35.32
1,908.00	0.25	13.96	1,907.98	-3.36	3.63	-4.82	0.07	-0.01	-16.02
2,008.00	0.33	359.12	2,007.98	-2.86	3.67	-4.44	0.11	0.08	-14.84
2,108.00	0.20	339.65	2,107.98	-2.41	3.61	-4.03	0.16	-0.13	-19.47
2,208.00	0.07	249.78	2,207.98	-2.27	3.49	-3.84	0.21	-0.13	-89.87
2,308.00	0.16	303.68	2,307.98	-2.21	3.32	-3.70	0.13	0.09	53.90
2,408.00	0.09	292.99	2,407.98	-2.11	3.13	-3.50	0.07	-0.07	-10.69
2,508.00	0.20	336.82	2,507.98	-1.91	2.99	-3.26	0.15	0.11	43.83
2,608.00	0.43	321.99	2,607.98	-1.46	2.69	-2.72	0.24	0.23	-14.83
2,708.00	0.51	279.13	2,707.97	-1.09	2.02	-2.04	0.35	0.08	-42.86
2,808.00	3.84	227.90	2,807.89	-3.27	-0.91	-2.19	3.54	3.33	-51.23
2,908.00	7.28	225.49	2,907.41	-9.96	-7.91	-3.78	3.45	3.44	-2.41
3,008.00	9.72	223.87	3,006.30	-20.48	-18.28	-6.65	2.45	2.44	-1.62
3,108.00	9.71	224.29	3,104.87	-32.61	-30.02	-10.07	0.07	-0.01	0.42
3,208.00	10.06	223.34	3,203.38	-45.00	-41.90	-13.63	0.39	0.35	-0.95
3,308.00	10.15	224.74	3,301.83	-57.61	-54.10	-17.19	0.26	0.09	1.40
3,408.00	10.81	227.43	3,400.16	-70.21	-67.21	-20.23	0.82	0.66	2.69
3,508.00	11.19	225.64	3,498.33	-83.34	-81.05	-23.30	0.51	0.38	-1.79
3,608.00	10.77	224.94	3,596.50	-96.74	-94.59	-26.76	0.44	-0.42	-0.70
3,708.00	11.41	223.78	3,694.63	-110.49	-108.03	-30.57	0.68	0.64	-1.16
3,808.00	10.77	222.31	3,792.76	-124.54	-121.17	-34.80	0.70	-0.64	-1.47
3,908.00	10.28	223.09	3,891.08	-137.97	-133.55	-38.93	0.51	-0.49	0.78
4,008.00	11.17	224.04	3,989.33	-151.45	-146.38	-42.86	0.91	0.89	0.95
4,108.00	10.72	222.60	4,087.51	-165.26	-159.41	-46.94	0.53	-0.45	-1.44
4,208.00	10.52	221.48	4,185.80	-178.94	-171.75	-51.31	0.29	-0.20	-1.12
4,308.00	10.27	221.60	4,284.16	-192.45	-183.72	-55.75	0.25	-0.25	0.12
4,408.00	10.40	225.77	4,382.53	-205.41	-196.10	-59.50	0.76	0.13	4.17
4,508.00	10.93	225.22	4,480.81	-218.38	-209.30	-62.80	0.54	0.53	-0.55
4,608.00	10.56	223.91	4,579.05	-231.66	-222.38	-66.42	0.44	-0.37	-1.31
4,708.00	11.09	222.52	4,677.27	-245.35	-235.24	-70.50	0.59	0.53	-1.39
4,808.00	11.02	224.28	4,775.42	-259.28	-248.41	-74.61	0.34	-0.07	1.76
4,908.00	10.21	226.41	4,873.71	-272.24	-261.50	-77.95	0.90	-0.81	2.13
5,008.00	10.50	225.45	4,972.08	-284.74	-274.42	-81.03	0.34	0.29	-0.96



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)
5,108.00	11.20	222.87	5,070.29	-298.25	-287.52	-84.82	0.85	0.70	-2.58
5,208.00	11.89	223.41	5,168.27	-312.85	-301.21	-89.20	0.70	0.69	0.54
5,308.00	11.45	224.37	5,266.20	-327.43	-315.23	-93.36	0.48	-0.44	0.96
5,408.00	10.32	225.10	5,364.40	-340.85	-328.51	-96.98	1.14	-1.13	0.73
5,508.00	9.53	222.31	5,462.90	-353.29	-340.43	-100.57	0.92	-0.79	-2.79
5,608.00	9.73	224.35	5,561.49	-365.46	-351.91	-104.16	0.40	0.20	2.04
5,708.00	10.66	225.48	5,659.91	-377.99	-364.41	-107.49	0.95	0.93	1.13
5,808.00	10.49	225.85	5,758.21	-390.81	-377.54	-110.71	0.18	-0.17	0.37
5,908.00	10.26	226.19	5,856.58	-403.32	-390.50	-113.76	0.24	-0.23	0.34
6,008.00	10.56	227.94	5,954.93	-415.62	-403.73	-116.49	0.44	0.30	1.75
6,108.00	11.39	225.63	6,053.10	-428.67	-417.59	-119.47	0.94	0.83	-2.31
Last Gyro Survey									
6,141.00	11.64	227.93	6,085.44	-433.18	-422.39	-120.50	1.58	0.76	6.97
6,172.00	12.09	229.08	6,115.78	-437.40	-427.16	-121.30	1.64	1.45	3.71
First SDI MWD Survey									
6,204.00	11.86	229.10	6,147.08	-441.75	-432.18	-122.07	0.72	-0.72	0.06
6,236.00	10.81	238.15	6,178.46	-445.48	-437.22	-122.33	6.44	-3.28	28.28
6,267.00	10.09	254.21	6,208.95	-447.76	-442.30	-121.35	9.65	-2.32	51.81
6,299.00	10.25	271.76	6,240.46	-448.43	-447.84	-118.79	9.66	0.50	54.84
6,331.00	10.20	280.21	6,271.95	-447.84	-453.48	-115.13	4.69	-0.16	26.41
6,362.00	10.06	281.82	6,302.47	-446.80	-458.83	-111.26	1.02	-0.45	5.19
6,394.00	9.96	286.08	6,333.98	-445.46	-464.22	-107.12	2.33	-0.31	13.31
6,426.00	9.91	288.55	6,365.50	-443.82	-469.49	-102.80	1.34	-0.16	7.72
6,458.00	11.12	292.89	6,396.96	-441.74	-474.95	-98.01	4.52	3.78	13.56
6,489.00	12.92	297.80	6,427.28	-438.96	-480.77	-92.44	6.67	5.81	15.84
6,521.00	14.68	301.95	6,458.36	-435.15	-487.37	-85.57	6.31	5.50	12.97
6,553.00	16.33	307.61	6,489.20	-430.26	-494.38	-77.58	6.99	5.16	17.69
6,584.00	18.34	312.46	6,518.79	-424.30	-501.43	-68.70	7.98	6.48	15.65
6,616.00	20.54	315.75	6,548.96	-416.88	-509.06	-58.27	7.68	6.88	10.28
6,648.00	21.70	316.63	6,578.81	-408.56	-517.04	-46.90	3.76	3.63	2.75
6,680.00	22.81	316.52	6,608.43	-399.76	-525.37	-34.93	3.47	3.47	-0.34
6,712.00	25.76	316.98	6,637.59	-390.17	-534.39	-21.94	9.24	9.22	1.44
6,744.00	28.24	317.16	6,666.10	-379.54	-544.28	-7.58	7.75	7.75	0.56
6,776.00	30.96	318.03	6,693.92	-367.86	-554.94	8.07	8.61	8.50	2.72
6,808.00	34.42	319.88	6,720.85	-354.82	-566.27	25.23	11.25	10.81	5.78
6,839.00	38.32	321.90	6,745.81	-340.55	-577.85	43.54	13.16	12.58	6.52
6,871.00	41.93	323.82	6,770.28	-324.11	-590.29	64.13	11.92	11.28	6.00
6,903.00	44.63	324.93	6,793.57	-306.28	-603.06	86.06	8.77	8.44	3.47
6,935.00	46.59	325.52	6,815.95	-287.49	-616.10	108.92	6.27	6.13	1.84
6,966.00	49.43	326.23	6,836.69	-268.42	-629.03	131.96	9.32	9.16	2.29
6,998.00	52.27	327.28	6,856.89	-247.67	-642.62	156.77	9.23	8.88	3.28
7,030.00	54.85	327.48	6,875.90	-225.99	-656.50	182.50	8.08	8.06	0.63
7,062.00	57.07	327.52	6,893.81	-203.62	-670.75	209.00	6.94	6.94	0.13
7,091.00	59.37	328.06	6,909.08	-182.77	-683.88	233.64	8.09	7.93	1.86

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)
7,123.00	62.84	329.41	6,924.54	-158.82	-698.42	261.61	11.46	10.84	4.22
7,154.00	65.78	330.28	6,937.98	-134.67	-712.45	289.47	9.82	9.48	2.81
7,186.00	68.01	330.57	6,950.54	-109.07	-726.97	318.81	7.02	6.97	0.91
7,217.00	70.48	331.38	6,961.52	-83.72	-741.03	347.67	8.33	7.97	2.61
7,249.00	73.02	332.42	6,971.54	-56.92	-755.35	377.89	8.52	7.94	3.25
7,281.00	75.49	332.57	6,980.22	-29.60	-769.57	408.47	7.73	7.72	0.47
7,312.00	77.38	332.64	6,987.50	-2.85	-783.43	438.39	6.10	6.10	0.23
7,344.00	79.50	333.41	6,993.91	25.09	-797.65	469.49	7.03	6.63	2.41
7,376.00	81.42	334.26	6,999.21	53.42	-811.57	500.73	6.55	6.00	2.66
7,407.00	83.78	333.76	7,003.20	81.05	-825.04	531.15	7.78	7.61	-1.61
7,468.00	87.92	333.33	7,007.62	135.50	-852.14	591.42	6.82	6.79	-0.70
7,529.00	89.83	333.09	7,008.81	189.94	-879.62	651.89	3.16	3.13	-0.39
7,590.00	90.27	331.34	7,008.76	243.91	-908.06	712.50	2.96	0.72	-2.87
7,650.00	90.87	329.42	7,008.16	296.06	-937.71	772.30	3.35	1.00	-3.20
7,711.00	90.23	328.11	7,007.58	348.22	-969.34	833.21	2.39	-1.05	-2.15
7,773.00	90.07	329.54	7,007.42	401.26	-1,001.43	895.12	2.32	-0.26	2.31
7,834.00	90.24	328.46	7,007.25	453.55	-1,032.85	956.03	1.79	0.28	-1.77
7,895.00	91.01	330.01	7,006.59	505.96	-1,064.05	1,016.91	2.84	1.26	2.54
7,955.00	90.94	331.07	7,005.57	558.19	-1,093.55	1,076.69	1.77	-0.12	1.77
8,016.00	91.54	330.75	7,004.25	611.48	-1,123.20	1,137.43	1.11	0.98	-0.52
8,076.00	91.64	329.24	7,002.58	663.42	-1,153.19	1,197.24	2.52	0.17	-2.52
8,137.00	91.78	329.27	7,000.76	715.82	-1,184.37	1,258.10	0.23	0.23	0.05
8,197.00	91.91	329.08	6,998.83	767.32	-1,215.09	1,317.96	0.38	0.22	-0.32
8,258.00	90.81	326.62	6,997.38	818.95	-1,247.54	1,378.90	4.42	-1.80	-4.03
8,319.00	90.40	324.14	6,996.74	869.14	-1,282.19	1,439.89	4.12	-0.67	-4.07
8,380.00	92.35	325.00	6,995.27	918.83	-1,317.54	1,500.86	3.49	3.20	1.41
8,441.00	94.40	325.95	6,991.68	968.99	-1,352.06	1,561.75	3.70	3.36	1.56
8,501.00	92.62	327.13	6,988.01	1,018.95	-1,385.07	1,621.63	3.56	-2.97	1.97
8,565.00	90.27	327.28	6,986.39	1,072.73	-1,419.72	1,685.58	3.68	-3.67	0.23
8,627.00	91.34	327.82	6,985.52	1,125.04	-1,452.99	1,747.54	1.93	1.73	0.87
8,691.00	90.94	328.63	6,984.25	1,179.44	-1,486.68	1,811.47	1.41	-0.63	1.27
8,754.00	91.21	329.53	6,983.07	1,233.48	-1,519.05	1,874.35	1.49	0.43	1.43
8,817.00	91.17	329.63	6,981.76	1,287.79	-1,550.94	1,937.20	0.17	-0.06	0.16
8,880.00	91.41	329.64	6,980.34	1,342.14	-1,582.78	2,000.04	0.38	0.38	0.02
8,943.00	90.77	328.67	6,979.14	1,396.22	-1,615.07	2,062.92	1.84	-1.02	-1.54
9,006.00	90.30	329.23	6,978.55	1,450.19	-1,647.57	2,125.82	1.16	-0.75	0.89
9,070.00	90.97	329.29	6,977.85	1,505.19	-1,680.28	2,189.69	1.05	1.05	0.09
9,133.00	91.07	328.96	6,976.72	1,559.25	-1,712.60	2,252.58	0.55	0.16	-0.52
9,196.00	91.21	329.42	6,975.47	1,613.35	-1,744.86	2,315.45	0.76	0.22	0.73
9,259.00	90.60	329.26	6,974.48	1,667.54	-1,776.98	2,378.32	1.00	-0.97	-0.25
9,322.00	90.34	329.41	6,973.96	1,721.73	-1,809.11	2,441.20	0.48	-0.41	0.24
9,386.00	91.37	329.92	6,973.00	1,776.96	-1,841.43	2,505.04	1.80	1.61	0.80
9,449.00	91.04	330.43	6,971.68	1,831.60	-1,872.76	2,567.84	0.96	-0.52	0.81

103.02816



Scientific Drilling International
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Mason-Conlon 3H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Site:	Mason-Conlon Pad	MD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Well:	Mason-Conlon 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)
9,513.00	90.77	329.51	6,970.67	1,887.00	-1,904.78	2,631.66	1.50	-0.42	-1.44
9,576.00	90.27	329.75	6,970.10	1,941.35	-1,936.63	2,694.51	0.88	-0.79	0.38
9,639.00	90.67	331.90	6,969.58	1,996.36	-1,967.34	2,757.26	3.47	0.63	3.41
9,702.00	90.50	333.86	6,968.94	2,052.42	-1,996.06	2,819.77	3.12	-0.27	3.11
9,766.00	90.20	334.57	6,968.54	2,110.05	-2,023.90	2,883.07	1.20	-0.47	1.11
9,829.00	90.64	334.57	6,968.08	2,166.94	-2,050.95	2,945.33	0.70	0.70	0.00
9,892.00	90.74	334.14	6,967.32	2,223.73	-2,078.21	3,007.62	0.70	0.16	-0.68
9,956.00	91.18	333.30	6,966.25	2,281.11	-2,106.55	3,070.99	1.48	0.69	-1.31
10,019.00	91.51	332.91	6,964.77	2,337.28	-2,135.04	3,133.46	0.81	0.52	-0.62
10,083.00	91.07	332.34	6,963.33	2,394.10	-2,164.46	3,196.98	1.12	-0.69	-0.89
10,145.00	91.31	332.06	6,962.04	2,448.93	-2,193.37	3,258.58	0.59	0.39	-0.45
10,209.00	91.65	331.88	6,960.39	2,505.40	-2,223.43	3,322.18	0.60	0.53	-0.28
10,273.00	90.50	331.83	6,959.19	2,561.83	-2,253.62	3,385.81	1.80	-1.80	-0.08
10,336.00	90.47	332.23	6,958.66	2,617.47	-2,283.16	3,448.43	0.64	-0.05	0.63
10,399.00	91.01	332.49	6,957.84	2,673.27	-2,312.39	3,511.01	0.95	0.86	0.41
10,462.00	91.91	332.31	6,956.24	2,729.08	-2,341.56	3,573.57	1.46	1.43	-0.29
10,526.00	91.28	332.40	6,954.46	2,785.75	-2,371.25	3,637.12	0.99	-0.98	0.14
10,589.00	90.24	333.18	6,953.62	2,841.78	-2,400.05	3,699.64	2.06	-1.65	1.24
10,652.00	90.54	332.97	6,953.19	2,897.95	-2,428.58	3,762.13	0.58	0.48	-0.33
10,715.00	91.81	333.52	6,951.90	2,954.19	-2,456.93	3,824.57	2.20	2.02	0.87
10,779.00	91.28	332.94	6,950.18	3,011.31	-2,485.75	3,888.01	1.23	-0.83	-0.91
10,842.00	91.38	333.32	6,948.71	3,067.49	-2,514.22	3,950.47	0.62	0.16	0.60
10,905.00	90.74	333.02	6,947.55	3,123.70	-2,542.64	4,012.94	1.12	-1.02	-0.48
10,968.00	90.44	332.78	6,946.90	3,179.78	-2,571.34	4,075.44	0.61	-0.48	-0.38
11,032.00	90.81	332.72	6,946.20	3,236.67	-2,600.64	4,138.97	0.59	0.58	-0.09
11,095.00	91.21	332.21	6,945.09	3,292.53	-2,629.76	4,201.53	1.03	0.63	-0.81
11,158.00	90.81	332.09	6,943.98	3,348.22	-2,659.19	4,264.13	0.66	-0.63	-0.19
11,221.00	90.54	332.59	6,943.24	3,404.02	-2,688.43	4,326.71	0.90	-0.43	0.79
11,285.00	90.94	332.65	6,942.41	3,460.84	-2,717.86	4,390.24	0.63	0.63	0.09
11,348.00	91.65	332.29	6,940.99	3,516.69	-2,746.98	4,452.80	1.26	1.13	-0.57
11,412.00	91.28	332.38	6,939.35	3,573.36	-2,776.68	4,516.35	0.59	-0.58	0.14
11,476.00	90.23	332.10	6,938.51	3,629.99	-2,806.49	4,579.94	1.70	-1.64	-0.44
11,539.00	89.60	331.78	6,938.60	3,685.58	-2,836.12	4,642.57	1.12	-1.00	-0.51
11,602.00	90.27	331.58	6,938.67	3,741.04	-2,866.01	4,705.24	1.11	1.06	-0.32
11,665.00	90.60	330.04	6,938.19	3,796.04	-2,896.73	4,767.99	2.50	0.52	-2.44
11,729.00	90.74	329.17	6,937.45	3,851.24	-2,929.11	4,831.84	1.38	0.22	-1.36
11,792.00	90.97	328.22	6,936.51	3,905.06	-2,961.84	4,894.75	1.55	0.37	-1.51
11,855.00	91.31	327.16	6,935.25	3,958.29	-2,995.51	4,957.70	1.77	0.54	-1.68
11,919.00	91.51	325.51	6,933.68	4,011.54	-3,030.97	5,021.68	2.60	0.31	-2.58
11,982.00	92.02	325.13	6,931.74	4,063.32	-3,066.80	5,084.65	1.01	0.81	-0.60
12,046.00	91.51	324.63	6,929.77	4,115.65	-3,103.60	5,148.61	1.12	-0.80	-0.78
12,109.00	90.54	324.37	6,928.64	4,166.93	-3,140.18	5,211.58	1.59	-1.54	-0.41
12,173.00	90.91	323.84	6,927.83	4,218.77	-3,177.70	5,275.55	1.01	0.58	-0.83
12,235.00	91.34	323.38	6,926.61	4,268.67	-3,214.48	5,337.49	1.02	0.69	-0.74



Company:	Stone Energy	Local Co-ordinate Reference:	Well Mason-Conlon 3H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Site:	Mason-Conlon Pad	MD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Well:	Mason-Conlon 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)
12,299.00	91.58	323.40	6,924.98	4,320.03	-3,252.63	5,401.42	0.38	0.38	0.03
12,362.00	91.48	324.05	6,923.30	4,370.80	-3,289.89	5,464.35	1.04	-0.16	1.03
12,426.00	91.81	323.75	6,921.46	4,422.49	-3,327.59	5,528.29	0.70	0.52	-0.47
12,489.00	91.01	323.90	6,919.91	4,473.33	-3,364.76	5,591.24	1.29	-1.27	0.24
12,552.00	91.78	323.89	6,918.38	4,524.21	-3,401.87	5,654.19	1.22	1.22	-0.02
12,616.00	91.74	324.44	6,916.41	4,576.07	-3,439.33	5,718.13	0.86	-0.06	0.86
12,679.00	91.34	325.20	6,914.72	4,627.55	-3,475.61	5,781.10	1.36	-0.63	1.21
12,742.00	90.81	325.09	6,913.54	4,679.23	-3,511.61	5,844.08	0.86	-0.84	-0.17
12,806.00	91.14	325.91	6,912.45	4,731.97	-3,547.85	5,908.07	1.38	0.52	1.28
12,869.00	91.88	327.43	6,910.79	4,784.59	-3,582.45	5,971.04	2.68	1.17	2.41
12,932.00	92.92	328.51	6,908.15	4,837.95	-3,615.84	6,033.94	2.38	1.65	1.71
12,995.00	93.12	328.27	6,904.83	4,891.53	-3,648.81	6,096.78	0.50	0.32	-0.38
13,059.00	93.63	327.51	6,901.06	4,945.64	-3,682.77	6,160.63	1.43	0.80	-1.19
13,122.00	94.50	327.35	6,896.60	4,998.60	-3,716.60	6,223.44	1.40	1.38	-0.25
Last SDI MWD Survey									
13,181.00	94.50	327.35	6,891.97	5,048.12	-3,748.33	6,282.24	0.00	0.00	0.00
Projection to Bit									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
108.00	108.00	-0.48	0.46	First Gyro Survey
6,108.00	6,053.10	-428.67	-417.59	Last Gyro Survey
6,172.00	6,115.78	-437.40	-427.16	First SDI MWD Survey
13,122.00	6,896.60	4,998.60	-3,716.60	Last SDI MWD Survey
13,181.00	6,891.97	5,048.12	-3,748.33	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____