



Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Howell 8H-R
Project:	Mary Prospect	TVD Reference:	GL 1302' & KB 18' @ 1320.0usft (Saxon 141)
Site:	Howell Pad	MD Reference:	GL 1302' & KB 18' @ 1320.0usft (Saxon 141)
Well:	Howell 8H-R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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	Howell Pad				
Site Position:		Northing:	401,702.68 usft	Latitude:	39° 35' 44.492 N
From:	Map	Easting:	1,635,235.83 usft	Longitude:	80° 47' 40.046 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.83 °

Well	Howell 8H-R					
Well Position	+N/-S	0.0 usft	Northing:	401,665.00 usft	Latitude:	39° 35' 44.123 N
	+E/-W	0.0 usft	Easting:	1,635,260.00 usft	Longitude:	80° 47' 39.731 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	1,302.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	10/28/2013	-8.55	67.14	52,485

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	140.68	

Survey Program	Date	12/7/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,320.5	Survey 1 - SDI Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
1,320.5	13,173.0	Survey 2 - MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.77	209.44	100.0	-0.6	-0.3	0.2	0.77	0.77	0.00	
First SDI Gyro Survey										
200.0	0.20	175.52	200.0	-1.3	-0.6	0.6	0.61	-0.57	-33.92	
300.0	0.26	163.72	300.0	-1.7	-0.6	1.0	0.08	0.06	-11.80	
400.0	0.14	175.11	400.0	-2.1	-0.5	1.3	0.13	-0.12	11.39	
500.0	0.13	212.22	500.0	-2.3	-0.5	1.4	0.09	-0.01	37.11	
600.0	0.20	156.98	600.0	-2.5	-0.5	1.6	0.17	0.07	-55.24	
700.0	0.17	194.28	700.0	-2.9	-0.5	1.9	0.12	-0.03	37.28	
800.0	0.28	96.54	800.0	-3.0	-0.3	2.2	0.35	0.11	-97.72	

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
900.0	0.07	178.59	900.0	-3.1	-0.1	2.4	0.28	-0.21	82.05	
1,000.0	0.10	237.94	1,000.0	-3.2	-0.1	2.4	0.09	0.03	59.35	
1,100.0	0.01	167.38	1,100.0	-3.3	-0.2	2.4	0.10	-0.09	-70.56	
1,200.0	0.20	146.31	1,200.0	-3.4	-0.1	2.6	0.19	0.19	-21.07	
1,300.0	0.24	182.96	1,300.0	-3.8	0.0	2.9	0.14	0.04	36.65	
1,320.5	0.29	173.30	1,320.5	-3.9	0.0	3.0	0.33	0.24	-47.12	
Last SDI Gyro Survey										
1,399.0	0.99	139.26	1,399.0	-4.6	0.5	3.8	0.98	0.89	-43.36	
First SDI MWD Survey										
1,462.0	1.93	120.55	1,462.0	-5.5	1.7	5.4	1.65	1.49	-29.70	
1,526.0	2.69	104.58	1,525.9	-6.5	4.1	7.6	1.55	1.19	-24.95	
1,590.0	3.83	96.23	1,589.8	-7.1	7.7	10.3	1.92	1.78	-13.05	
1,654.0	4.91	91.66	1,653.6	-7.4	12.5	13.7	1.77	1.69	-7.14	
1,717.0	5.28	89.43	1,716.4	-7.4	18.1	17.2	0.67	0.59	-3.54	
1,844.0	6.18	87.22	1,842.7	-7.0	30.8	25.0	0.73	0.71	-1.74	
1,972.0	7.01	85.00	1,969.9	-6.0	45.5	33.5	0.68	0.65	-1.73	
2,035.0	6.16	83.87	2,032.5	-5.3	52.7	37.5	1.36	-1.35	-1.79	
2,098.0	5.21	74.17	2,095.2	-4.2	58.8	40.5	2.14	-1.51	-15.40	
2,162.0	4.80	56.02	2,158.9	-1.9	63.8	41.9	2.54	-0.64	-28.36	
2,225.0	3.68	45.93	2,221.7	1.0	67.4	42.0	2.13	-1.78	-16.02	
2,289.0	3.07	16.53	2,285.6	4.0	69.4	40.8	2.83	-0.95	-45.94	
2,352.0	3.55	350.16	2,348.5	7.6	69.5	38.2	2.51	0.76	-41.86	
2,483.0	3.13	331.57	2,479.3	14.7	67.1	31.2	0.88	-0.32	-14.19	
2,546.0	2.89	336.13	2,542.2	17.7	65.7	27.9	0.54	-0.38	7.24	
2,609.0	1.67	349.01	2,605.2	20.0	64.9	25.6	2.09	-1.94	20.44	
2,673.0	1.14	0.76	2,669.2	21.6	64.7	24.3	0.94	-0.83	18.36	
2,736.0	0.64	77.40	2,732.2	22.3	65.0	24.0	1.86	-0.79	121.65	
2,799.0	1.05	90.42	2,795.2	22.4	66.0	24.5	0.71	0.65	20.67	
2,863.0	0.63	120.57	2,859.1	22.2	66.9	25.2	0.93	-0.66	47.11	
2,927.0	1.19	172.32	2,923.1	21.4	67.3	26.1	1.47	0.88	80.86	
2,990.0	1.01	169.13	2,986.1	20.2	67.4	27.1	0.30	-0.29	-5.06	
3,054.0	1.05	178.39	3,050.1	19.0	67.6	28.1	0.27	0.06	14.47	
3,119.0	0.91	170.63	3,115.1	17.9	67.7	29.0	0.30	-0.22	-11.94	
3,183.0	0.90	171.85	3,179.1	16.9	67.8	29.9	0.03	-0.02	1.91	
3,246.0	0.87	166.24	3,242.1	16.0	68.0	30.7	0.15	-0.05	-8.90	
3,310.0	0.93	184.59	3,306.1	15.0	68.1	31.6	0.46	0.09	28.67	
3,373.0	0.83	184.77	3,369.1	14.0	68.0	32.2	0.16	-0.16	0.29	
3,437.0	1.07	184.53	3,433.1	12.9	67.9	33.0	0.38	0.38	-0.38	
3,501.0	1.13	189.77	3,497.1	11.7	67.8	33.9	0.18	0.09	8.19	
3,565.0	1.12	177.51	3,561.0	10.5	67.7	34.8	0.38	-0.02	-19.16	
3,627.0	1.34	176.28	3,623.0	9.2	67.8	35.8	0.36	0.35	-1.98	
3,691.0	1.49	171.84	3,687.0	7.6	67.9	37.2	0.29	0.23	-6.94	
3,755.0	1.52	190.50	3,751.0	5.9	67.9	38.4	0.76	0.05	29.16	

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3,818.0	1.45	220.46	3,814.0	4.5	67.2	39.1	1.22	-0.11	47.56
3,882.0	1.55	221.19	3,877.9	3.2	66.1	39.4	0.16	0.16	1.14
3,946.0	1.69	216.29	3,941.9	1.8	65.0	39.8	0.31	0.22	-7.66
4,009.0	1.06	218.11	4,004.9	0.6	64.1	40.1	1.00	-1.00	2.89
4,073.0	0.24	223.70	4,068.9	0.0	63.6	40.3	1.28	-1.28	8.73
4,136.0	0.09	356.30	4,131.9	0.0	63.5	40.3	0.49	-0.24	210.48
4,199.0	0.15	48.08	4,194.9	0.1	63.6	40.2	0.19	0.10	82.19
4,263.0	0.32	86.06	4,258.9	0.2	63.8	40.3	0.35	0.27	59.34
4,326.0	0.36	84.72	4,321.9	0.2	64.2	40.5	0.06	0.06	-2.13
4,390.0	0.54	89.15	4,385.9	0.2	64.7	40.8	0.29	0.28	6.92
4,454.0	0.89	58.92	4,449.9	0.5	65.4	41.1	0.79	0.55	-47.23
4,517.0	0.72	81.40	4,512.9	0.8	66.2	41.3	0.56	-0.27	35.68
4,581.0	0.95	85.97	4,576.9	0.9	67.2	41.9	0.37	0.36	7.14
4,645.0	1.00	73.71	4,640.9	1.1	68.2	42.4	0.33	0.08	-19.16
4,707.0	1.07	64.11	4,702.9	1.5	69.3	42.7	0.30	0.11	-15.48
4,771.0	1.21	41.83	4,766.8	2.3	70.3	42.8	0.72	0.22	-34.81
4,834.0	0.74	96.88	4,829.8	2.7	71.1	43.0	1.58	-0.75	87.38
4,898.0	0.75	194.23	4,893.8	2.3	71.4	43.5	1.75	0.02	152.11
4,961.0	0.97	208.68	4,956.8	1.4	71.1	44.0	0.49	0.35	22.94
5,025.0	1.17	210.81	5,020.8	0.3	70.5	44.4	0.32	0.31	3.33
5,090.0	1.19	207.50	5,085.8	-0.8	69.8	44.9	0.11	0.03	-5.09
5,154.0	1.40	198.21	5,149.8	-2.2	69.3	45.5	0.46	0.33	-14.52
5,217.0	1.52	217.14	5,212.8	-3.5	68.5	46.2	0.78	0.19	30.05
5,281.0	1.39	256.89	5,276.7	-4.4	67.2	46.0	1.56	-0.20	62.11
5,345.0	1.52	248.79	5,340.7	-4.9	65.7	45.4	0.38	0.20	-12.66
5,409.0	1.25	256.62	5,404.7	-5.4	64.2	44.8	0.51	-0.42	12.23
5,472.0	0.65	289.73	5,467.7	-5.4	63.2	44.2	1.25	-0.95	52.56
5,536.0	0.57	293.69	5,531.7	-5.1	62.6	43.6	0.14	-0.13	6.19
5,600.0	0.47	254.16	5,595.7	-5.1	62.0	43.2	0.57	-0.16	-61.77
5,663.0	0.55	258.04	5,658.7	-5.2	61.5	43.0	0.14	0.13	6.16
5,727.0	0.65	265.12	5,722.7	-5.3	60.8	42.7	0.19	0.16	11.06
5,791.0	1.26	245.65	5,786.7	-5.6	59.8	42.3	1.07	0.95	-30.42
5,831.0	1.25	261.11	5,826.7	-5.9	59.0	41.9	0.84	-0.03	38.65
5,862.0	0.24	189.47	5,857.7	-6.0	58.7	41.8	3.86	-3.26	-231.10
5,894.0	1.97	92.99	5,889.7	-6.1	59.2	42.2	6.29	5.41	-301.50
5,926.0	4.08	92.10	5,921.6	-6.2	60.9	43.3	6.60	6.59	-2.78
5,957.0	6.03	90.29	5,952.5	-6.2	63.6	45.1	6.31	6.29	-5.84
5,989.0	8.30	84.39	5,984.2	-6.0	67.6	47.5	7.45	7.09	-18.44
6,019.0	9.93	83.43	6,013.9	-5.5	72.3	50.1	5.46	5.43	-3.20
6,051.0	11.75	83.48	6,045.3	-4.8	78.3	53.3	5.69	5.69	0.16
6,082.0	13.31	85.86	6,075.5	-4.2	85.0	57.1	5.30	5.03	7.68
6,114.0	15.50	86.83	6,106.5	-3.7	92.9	61.7	6.88	6.84	3.03
6,146.0	18.02	87.97	6,137.5	-3.2	102.2	67.2	7.91	7.88	2.63
6,177.0	19.73	89.95	6,166.5	-3.0	112.2	73.4	5.68	5.52	4.13

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6,209.0	21.56	90.51	6,196.5	-2.9	123.5	80.5	5.97	5.72	4.88
6,240.0	23.03	93.20	6,225.1	-3.3	135.2	88.2	5.77	4.74	8.68
6,272.0	24.99	95.54	6,254.4	-4.3	148.2	97.2	6.81	6.13	7.31
6,304.0	26.94	96.64	6,283.1	-5.8	162.1	107.2	6.28	6.09	3.44
6,336.0	28.53	95.47	6,311.5	-7.4	176.9	117.8	5.25	4.97	-3.66
6,368.0	29.56	94.44	6,339.4	-8.7	192.4	128.6	3.58	3.22	-3.22
6,399.0	31.41	94.03	6,366.1	-9.9	208.1	139.5	6.01	5.97	-1.32
6,431.0	33.77	95.15	6,393.1	-11.2	225.3	151.4	7.61	7.38	3.50
6,463.0	36.24	97.25	6,419.3	-13.2	243.5	164.5	8.59	7.72	6.56
6,495.0	37.80	98.62	6,444.9	-15.9	262.6	178.7	5.51	4.88	4.28
6,527.0	39.15	98.61	6,469.9	-18.9	282.3	193.5	4.22	4.22	-0.03
6,559.0	40.83	98.53	6,494.4	-21.9	302.6	208.7	5.25	5.25	-0.25
6,591.0	43.03	98.51	6,518.2	-25.1	323.8	224.6	6.88	6.88	-0.06
6,622.0	45.21	98.28	6,540.5	-28.3	345.1	240.5	7.05	7.03	-0.74
6,654.0	46.73	98.74	6,562.7	-31.7	367.9	257.6	4.86	4.75	1.44
6,685.0	47.84	98.27	6,583.8	-35.0	390.4	274.5	3.75	3.58	-1.52
6,748.0	48.48	97.78	6,625.8	-41.6	436.9	309.0	1.17	1.02	-0.78
6,812.0	48.67	97.36	6,668.1	-47.9	484.4	344.0	0.57	0.30	-0.66
6,875.0	51.27	96.24	6,708.6	-53.6	532.3	378.8	4.35	4.13	-1.78
6,907.0	52.92	95.64	6,728.3	-56.2	557.4	396.7	5.36	5.16	-1.88
6,939.0	53.06	95.47	6,747.6	-58.7	582.9	414.7	0.61	0.44	-0.53
6,970.0	52.83	95.85	6,766.2	-61.1	607.5	432.2	1.23	-0.74	1.23
7,000.0	53.72	98.76	6,784.2	-64.2	631.3	449.7	8.32	2.97	9.70
7,030.0	55.80	101.48	6,801.5	-68.5	655.5	468.3	10.14	6.93	9.07
7,060.0	58.37	104.53	6,817.8	-74.2	680.0	488.2	12.09	8.57	10.17
7,090.0	60.36	107.52	6,833.1	-81.3	704.8	509.5	10.84	6.63	9.97
7,120.0	62.01	110.39	6,847.6	-89.9	729.6	531.8	10.02	5.50	9.57
7,150.0	63.21	112.89	6,861.4	-99.7	754.4	555.1	8.41	4.00	8.33
7,179.0	63.64	115.28	6,874.3	-110.3	778.1	578.3	7.52	1.48	8.24
7,210.0	63.87	118.47	6,888.0	-122.8	802.9	603.7	9.26	0.74	10.29
7,241.0	64.03	121.07	6,901.7	-136.7	827.0	629.7	7.55	0.52	8.39
7,271.0	64.30	123.87	6,914.7	-151.2	849.8	655.4	8.45	0.90	9.33
7,301.0	65.26	125.98	6,927.5	-166.7	872.1	681.5	7.12	3.20	7.03
7,331.0	67.16	127.23	6,939.6	-183.1	894.1	708.1	7.39	6.33	4.17
7,362.0	69.78	128.79	6,951.0	-200.8	916.8	736.3	9.66	8.45	5.03
7,392.0	71.60	129.97	6,960.9	-218.8	938.7	764.0	7.11	6.07	3.93
7,422.0	73.10	130.16	6,970.0	-237.2	960.6	792.1	5.04	5.00	0.63
7,453.0	75.43	131.58	6,978.4	-256.7	983.1	821.5	8.71	7.52	4.58
7,483.0	77.08	132.67	6,985.5	-276.3	1,004.7	850.3	6.53	5.50	3.63
7,513.0	79.22	134.09	6,991.7	-296.4	1,026.1	879.5	8.51	7.13	4.73
7,543.0	80.84	135.26	6,996.9	-317.2	1,047.1	908.8	6.57	5.40	3.80
7,573.0	81.51	137.92	7,001.5	-338.5	1,067.7	938.4	6.00	2.23	5.63
7,604.0	82.14	138.60	7,005.9	-361.3	1,088.3	969.0	5.74	2.03	5.42

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Site:	Howell Pad	MD Reference:	GL 1302' & KB 18' @ 1320.0usft (Saxon 141)
Well:	Howell 8H-R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,634.0	83.20	139.88	7,009.7	-383.8	1,107.7	998.8	5.51	3.53	4.27
7,664.0	84.75	141.84	7,012.9	-406.9	1,126.5	1,028.6	8.30	5.17	6.53
7,694.0	86.54	143.65	7,015.2	-430.7	1,144.6	1,058.5	8.47	5.97	6.03
7,725.0	88.02	144.75	7,016.6	-455.9	1,162.8	1,089.4	5.95	4.77	3.55
7,786.0	89.23	144.99	7,018.1	-505.7	1,197.8	1,150.2	2.02	1.98	0.39
7,847.0	89.66	144.62	7,018.7	-555.6	1,233.0	1,211.1	0.93	0.70	-0.61
7,907.0	90.13	145.11	7,018.8	-604.6	1,267.5	1,270.9	1.13	0.78	0.82
7,968.0	90.67	145.58	7,018.4	-654.8	1,302.2	1,331.7	1.17	0.89	0.77
8,031.0	90.77	145.38	7,017.6	-706.7	1,337.9	1,394.5	0.35	0.16	-0.32
8,094.0	89.90	145.41	7,017.2	-758.6	1,373.7	1,457.3	1.38	-1.38	0.05
8,158.0	89.63	146.37	7,017.5	-811.6	1,409.6	1,521.0	1.56	-0.42	1.50
8,222.0	89.43	148.38	7,018.0	-865.5	1,444.1	1,584.5	3.16	-0.31	3.14
8,285.0	90.30	149.65	7,018.2	-919.5	1,476.5	1,646.9	2.44	1.38	2.02
8,349.0	91.58	150.88	7,017.1	-975.0	1,508.3	1,710.0	2.77	2.00	1.92
8,411.0	91.65	151.87	7,015.4	-1,029.4	1,537.9	1,770.9	1.60	0.11	1.60
8,474.0	91.48	152.73	7,013.6	-1,085.2	1,567.2	1,832.6	1.39	-0.27	1.37
8,537.0	91.31	151.44	7,012.1	-1,140.8	1,596.7	1,894.3	2.06	-0.27	-2.05
8,601.0	90.87	149.49	7,010.9	-1,196.5	1,628.2	1,957.4	3.12	-0.69	-3.05
8,665.0	91.25	148.43	7,009.7	-1,251.3	1,661.2	2,020.7	1.76	0.59	-1.66
8,728.0	90.91	148.00	7,008.5	-1,304.9	1,694.4	2,083.1	0.87	-0.54	-0.68
8,792.0	90.67	147.61	7,007.6	-1,359.0	1,728.5	2,146.6	0.72	-0.38	-0.61
8,855.0	91.45	147.83	7,006.5	-1,412.3	1,762.2	2,209.1	1.29	1.24	0.35
8,919.0	91.58	147.25	7,004.8	-1,466.3	1,796.5	2,272.7	0.93	0.20	-0.91
8,983.0	91.28	145.07	7,003.2	-1,519.4	1,832.1	2,336.3	3.44	-0.47	-3.41
9,046.0	90.91	144.96	7,002.0	-1,571.0	1,868.2	2,399.1	0.61	-0.59	-0.17
9,110.0	89.87	145.25	7,001.5	-1,623.5	1,904.8	2,463.0	1.69	-1.63	0.45
9,174.0	90.77	146.24	7,001.2	-1,676.4	1,940.9	2,526.7	2.09	1.41	1.55
9,238.0	91.65	147.03	6,999.8	-1,729.8	1,976.1	2,590.3	1.85	1.38	1.23
9,301.0	91.58	146.42	6,998.1	-1,782.5	2,010.6	2,653.0	0.97	-0.11	-0.97
9,365.0	90.07	144.40	6,997.1	-1,835.2	2,046.9	2,716.7	3.94	-2.36	-3.16
9,429.0	89.29	143.01	6,997.5	-1,886.7	2,084.8	2,780.6	2.49	-1.22	-2.17
9,493.0	89.70	142.55	6,998.1	-1,937.7	2,123.5	2,844.6	0.96	0.64	-0.72
9,556.0	89.97	142.31	6,998.2	-1,987.6	2,161.9	2,907.6	0.57	0.43	-0.38
9,620.0	90.17	141.99	6,998.2	-2,038.2	2,201.2	2,971.5	0.59	0.31	-0.50
9,683.0	90.87	143.47	6,997.6	-2,088.3	2,239.4	3,034.5	2.60	1.11	2.35
9,747.0	91.48	144.31	6,996.3	-2,140.0	2,277.1	3,098.4	1.62	0.95	1.31
9,810.0	91.61	144.76	6,994.6	-2,191.3	2,313.6	3,161.2	0.74	0.21	0.71
9,874.0	91.18	145.61	6,993.0	-2,243.8	2,350.1	3,225.0	1.49	-0.67	1.33
9,938.0	91.38	145.66	6,991.6	-2,296.6	2,386.3	3,288.8	0.32	0.31	0.08
10,001.0	89.53	145.91	6,991.1	-2,348.7	2,421.7	3,351.5	2.96	-2.94	0.40
10,065.0	88.55	146.38	6,992.2	-2,401.9	2,457.3	3,415.2	1.70	-1.53	0.73
10,128.0	88.89	146.68	6,993.6	-2,454.4	2,492.1	3,477.9	0.72	0.54	0.48
10,192.0	89.90	147.83	6,994.2	-2,508.2	2,526.7	3,541.4	2.39	1.58	1.80

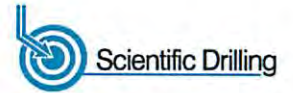
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Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Howell 8H-R
Project:	Mary Prospect	TVD Reference:	GL 1302' & KB 18' @ 1320.0usft (Saxon 141)
Site:	Howell Pad	MD Reference:	GL 1302' & KB 18' @ 1320.0usft (Saxon 141)
Well:	Howell 8H-R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,256.0	89.80	147.53	6,994.4	-2,562.3	2,560.9	3,604.9	0.49	-0.16	-0.47
10,320.0	89.60	147.03	6,994.7	-2,616.2	2,595.5	3,668.5	0.84	-0.31	-0.78
10,383.0	89.76	148.07	6,995.1	-2,669.3	2,629.3	3,731.1	1.67	0.25	1.65
10,447.0	89.16	147.81	6,995.7	-2,723.6	2,663.3	3,794.6	1.02	-0.94	-0.41
10,511.0	89.33	148.34	6,996.5	-2,777.9	2,697.1	3,858.0	0.87	0.27	0.83
10,575.0	89.06	148.17	6,997.4	-2,832.3	2,730.8	3,921.5	0.50	-0.42	-0.27
10,639.0	89.53	148.01	6,998.2	-2,886.6	2,764.6	3,984.9	0.78	0.73	-0.25
10,701.0	90.34	148.22	6,998.3	-2,939.3	2,797.3	4,046.4	1.35	1.31	0.34
10,765.0	90.94	148.22	6,997.6	-2,993.7	2,831.1	4,109.8	0.94	0.94	0.00
10,829.0	90.20	148.53	6,996.9	-3,048.2	2,864.6	4,173.3	1.25	-1.16	0.48
10,892.0	89.90	149.59	6,996.9	-3,102.2	2,897.0	4,235.6	1.75	-0.48	1.68
10,956.0	90.44	150.71	6,996.7	-3,157.7	2,928.9	4,298.7	1.94	0.84	1.75
11,019.0	89.66	150.63	6,996.6	-3,212.6	2,959.7	4,360.8	1.24	-1.24	-0.13
11,083.0	89.63	150.29	6,997.0	-3,268.3	2,991.3	4,423.8	0.53	-0.05	-0.53
11,147.0	88.99	148.98	6,997.8	-3,323.5	3,023.6	4,487.0	2.28	-1.00	-2.05
11,211.0	91.01	150.80	6,997.8	-3,378.9	3,055.7	4,550.2	4.25	3.16	2.84
11,272.0	91.14	150.26	6,996.7	-3,432.0	3,085.7	4,610.3	0.91	0.21	-0.89
11,335.0	90.17	148.98	6,995.9	-3,486.3	3,117.6	4,672.5	2.55	-1.54	-2.03
11,399.0	90.27	148.63	6,995.7	-3,541.1	3,150.7	4,735.9	0.57	0.16	-0.55
11,462.0	91.01	147.34	6,995.0	-3,594.5	3,184.1	4,798.4	2.36	1.17	-2.05
11,526.0	91.41	146.17	6,993.6	-3,648.0	3,219.2	4,862.0	1.93	0.63	-1.83
11,589.0	91.41	146.40	6,992.1	-3,700.4	3,254.2	4,924.7	0.36	0.00	0.37
11,653.0	90.67	146.27	6,990.9	-3,753.6	3,289.6	4,988.4	1.17	-1.16	-0.20
11,715.0	90.98	147.00	6,990.0	-3,805.4	3,323.7	5,050.0	1.28	0.50	1.18
11,779.0	90.81	146.78	6,989.0	-3,859.0	3,358.7	5,113.6	0.43	-0.27	-0.34
11,843.0	89.93	147.46	6,988.6	-3,912.8	3,393.4	5,177.2	1.74	-1.38	1.06
11,906.0	89.93	148.60	6,988.7	-3,966.2	3,426.8	5,239.7	1.81	0.00	1.81
11,969.0	89.29	148.40	6,989.1	-4,019.9	3,459.7	5,302.1	1.06	-1.02	-0.32
12,033.0	89.90	148.00	6,989.6	-4,074.3	3,493.4	5,365.6	1.14	0.95	-0.63
12,095.0	90.13	147.75	6,989.6	-4,126.8	3,526.4	5,427.1	0.55	0.37	-0.40
12,158.0	90.00	147.69	6,989.5	-4,180.1	3,560.0	5,489.6	0.23	-0.21	-0.10
12,222.0	90.24	148.69	6,989.4	-4,234.5	3,593.8	5,553.1	1.61	0.38	1.56
12,286.0	89.93	148.53	6,989.3	-4,289.1	3,627.1	5,616.4	0.55	-0.48	-0.25
12,350.0	90.10	148.99	6,989.3	-4,343.8	3,660.3	5,679.8	0.77	0.27	0.72
12,413.0	89.23	147.59	6,989.6	-4,397.4	3,693.4	5,742.3	2.62	-1.38	-2.22
12,475.0	89.87	147.41	6,990.1	-4,449.7	3,726.7	5,803.8	1.07	1.03	-0.29
12,539.0	90.67	147.34	6,989.8	-4,503.6	3,761.2	5,867.4	1.25	1.25	-0.11
12,603.0	90.81	147.77	6,989.0	-4,557.6	3,795.6	5,930.9	0.71	0.22	0.67
12,666.0	89.66	147.52	6,988.7	-4,610.8	3,829.3	5,993.4	1.87	-1.83	-0.40
12,730.0	90.44	148.47	6,988.7	-4,665.1	3,863.2	6,056.9	1.92	1.22	1.48
12,793.0	90.27	147.88	6,988.3	-4,718.6	3,896.4	6,119.4	0.97	-0.27	-0.94
12,856.0	89.13	146.61	6,988.6	-4,771.6	3,930.5	6,182.0	2.71	-1.81	-2.02
12,920.0	89.66	147.77	6,989.3	-4,825.1	3,965.7	6,245.6	0.85	0.83	0.20
12,983.0	90.27	146.59	6,989.3	-4,877.7	4,000.3	6,308.3	1.00	0.97	-0.24

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Company:	Stone Energy	Local Co-ordinate Reference:	Well Howell 8H-R
Project:	Mary Prospect	TVD Reference:	GL 1302' & KB 18' @ 1320.0usft (Saxon 141)
Site:	Howell Pad	MD Reference:	GL 1302' & KB 18' @ 1320.0usft (Saxon 141)
Well:	Howell 8H-R	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,047.0	90.40	146.62	6,988.9	-4,931.1	4,035.5	6,371.9	0.21	0.20	0.05
13,111.0	89.50	147.01	6,989.0	-4,984.7	4,070.5	6,435.6	1.53	-1.41	0.61
13,173.0	90.27	146.81	6,989.1	-5,036.6	4,104.4	6,497.2	1.28	1.24	-0.32

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.0	100.0	-0.6	-0.3	First SDI Gyro Survey
1,320.5	1,320.5	-3.9	0.0	Last SDI Gyro Survey
1,399.0	1,399.0	-4.6	0.5	First SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____

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