



# Stone Energy Corporation

Mary Prospect  
Conley Pad  
Conley 5H - Slot Conley 5H

OH

Design: As Drilled

## Standard Survey Report

25 September, 2014



[www.scientificdrilling.com](http://www.scientificdrilling.com)

06/02/2017



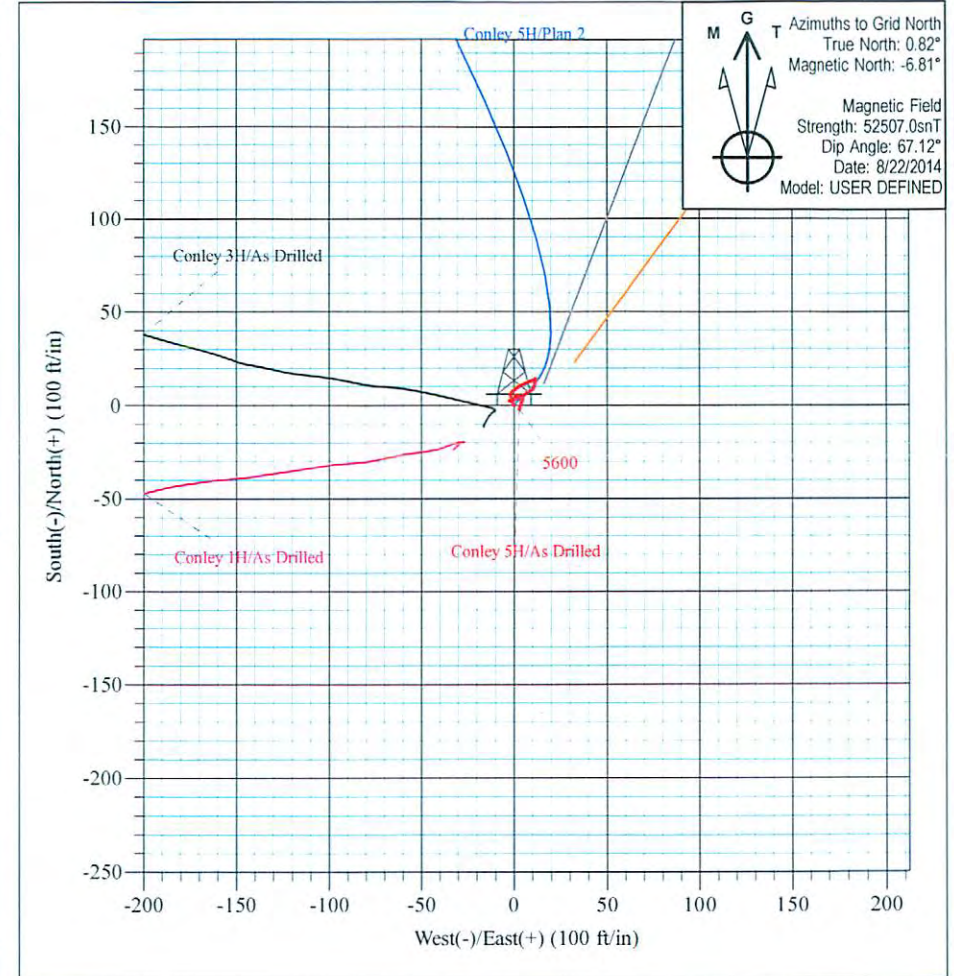
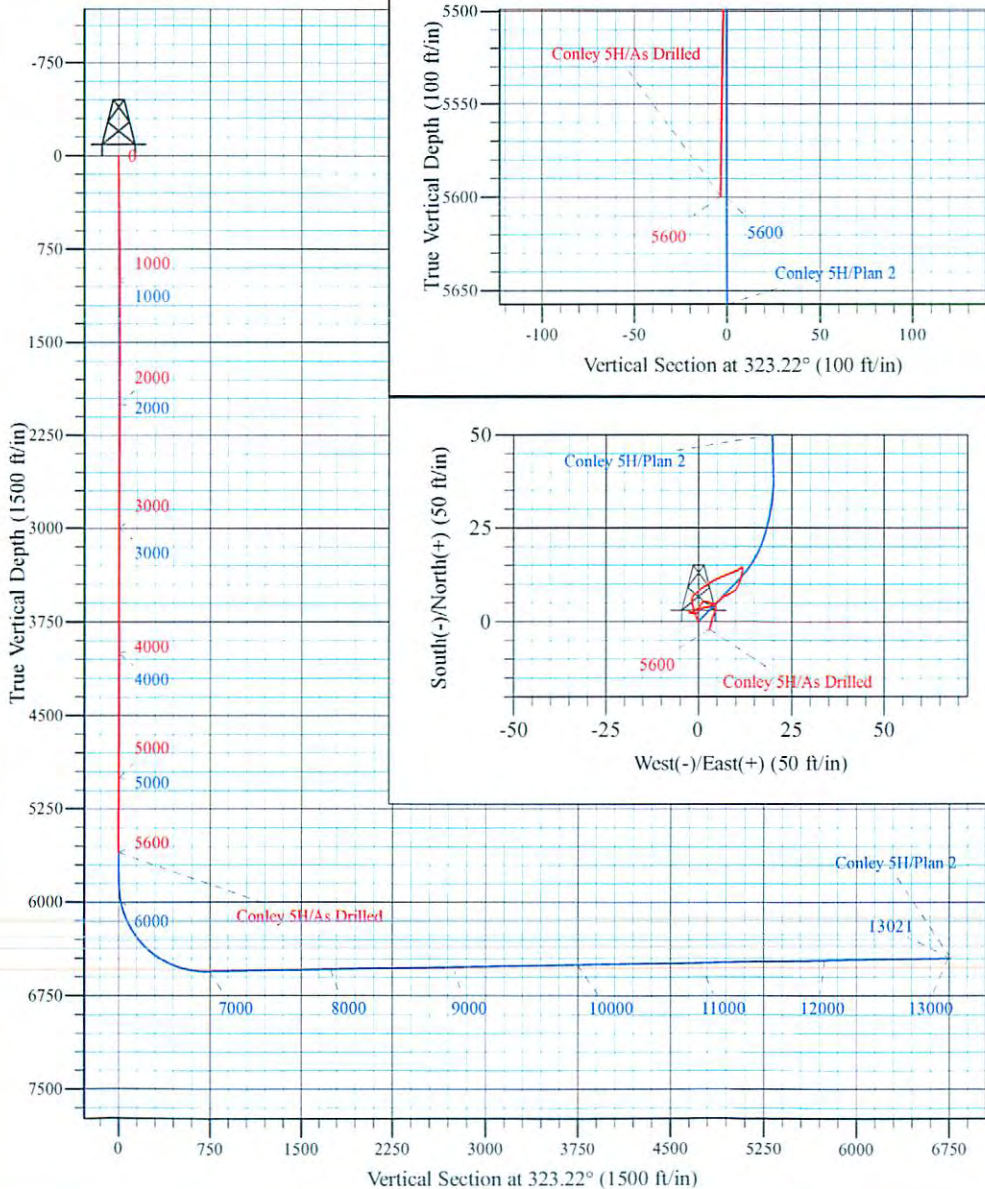
Conley Pad  
 Conley 5H  
 As Drilled  
 GL 855' KB 10' @ 865.00ft (Highlands 2)  
 Mary Prospect

PROJECT DETAILS:  
 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



WELL DETAILS: Conley 5H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	405629.30	1636875.25	39° 36' 23.531 N	80° 47' 19.825 W



Shane Rhodes  
 14:24, September 25 2014  
 Scientific Drilling International  
 124 Vista Drive  
 Charleroi, PA 15022



**Scientific Drilling International**  
Survey Report



<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Conley 5H - Slot Conley 5H
<b>Project:</b>	Mary Prospect	<b>TVD Reference:</b>	GL 855' KB 10' @ 865.00ft (Highlands 2)
<b>Site:</b>	Conley Pad	<b>MD Reference:</b>	GL 855' KB 10' @ 865.00ft (Highlands 2)
<b>Well:</b>	Conley 5H	<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>	Mary Prospect, 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>	Conley Pad				
<b>Site Position:</b>		<b>Northing:</b>	405,606.05 usft	<b>Latitude:</b>	39° 36' 23.297 N
<b>From:</b>	Map	<b>Easting:</b>	1,636,842.70 usft	<b>Longitude:</b>	80° 47' 20.236 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.82 °

<b>Well</b>	Conley 5H - Slot Conley 5H					
<b>Well Position</b>	<b>+N-S</b>	0.00 ft	<b>Northing:</b>	405,629.30 usft	<b>Latitude:</b>	39° 36' 23.531 N
	<b>+E-W</b>	0.00 ft	<b>Easting:</b>	1,636,875.25 usft	<b>Longitude:</b>	80° 47' 19.825 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	0.00 ft	<b>Ground Level:</b>	855.00 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>
	BGGM2013	5/2/2014	-8.57	67.10	52,434
	HDGM	6/11/2014	-7.62	66.87	52,542
	User Defined	8/22/2014	-7.63	67.12	52,507

<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		323.22

<b>Survey Program</b>	<b>Date</b>	9/25/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
10.00	2,176.00	Survey #1 - VES Gyro(Vaughn) (OH)	VES GyroFlex		
2,267.00	5,600.00	Survey #2 - SDI MWD (OH)	SDI 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	0.00
10.00	0.00	360.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>First VES Gyro @ 10 MD</b>										
100.00	0.81	333.73	100.00	0.57	-0.28	0.63	0.90	0.90	0.00	0.00
200.00	0.33	344.69	199.99	1.48	-0.67	1.59	0.49	-0.48	10.96	
300.00	0.40	338.72	299.99	2.09	-0.87	2.19	0.08	0.07	-5.97	
400.00	0.61	343.70	399.99	2.92	-1.15	3.03	0.21	0.21	4.98	



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Survey Report



<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Conley 5H - Slot Conley 5H
<b>Project:</b>	Mary Prospect	<b>TVD Reference:</b>	GL 855' KB 10' @ 865.00ft (Highlands 2)
<b>Site:</b>	Conley Pad	<b>MD Reference:</b>	GL 855' KB 10' @ 865.00ft (Highlands 2)
<b>Well:</b>	Conley 5H	<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)	
500.00	0.65	346.98	499.98	3.98	-1.43	4.05	0.05	0.04	3.28	
600.00	0.58	340.04	599.97	5.01	-1.73	5.05	0.10	-0.07	-6.94	
700.00	0.78	7.19	699.97	6.16	-1.81	6.02	0.37	0.20	27.15	
800.00	0.61	46.03	799.96	7.21	-1.35	6.58	0.49	-0.17	38.84	
900.00	0.51	56.11	899.96	7.83	-0.59	6.62	0.14	-0.10	10.08	
1,000.00	0.43	44.25	999.95	8.34	0.04	6.66	0.13	-0.08	-11.86	
1,100.00	0.70	52.54	1,099.95	8.98	0.78	6.73	0.28	0.27	8.29	
1,200.00	0.62	65.13	1,199.94	9.58	1.76	6.62	0.17	-0.08	12.59	
1,300.00	0.32	47.16	1,299.94	10.00	2.46	6.54	0.33	-0.30	-17.97	
1,400.00	0.65	59.67	1,399.93	10.48	3.15	6.51	0.34	0.33	12.51	
1,500.00	0.30	45.96	1,499.93	10.95	3.83	6.47	0.37	-0.35	-13.71	
1,600.00	0.71	67.68	1,599.93	11.36	4.59	6.35	0.45	0.41	21.72	
1,700.00	0.29	66.24	1,699.92	11.70	5.39	6.14	0.42	-0.42	-1.44	
1,800.00	0.67	62.27	1,799.92	12.07	6.14	5.99	0.38	0.38	-3.97	
1,900.00	0.81	71.27	1,899.91	12.57	7.33	5.68	0.18	0.14	9.00	
2,000.00	0.59	74.53	1,999.90	12.94	8.50	5.28	0.22	-0.22	3.26	
2,100.00	0.71	60.09	2,099.90	13.38	9.53	5.01	0.20	0.12	-14.44	
2,176.00	0.85	66.69	2,175.89	13.84	10.45	4.83	0.22	0.18	8.68	
<b>Last VES Gyro @ 2176 MD</b>										
2,267.00	0.53	35.10	2,266.88	14.45	11.32	4.80	0.53	-0.35	-34.71	
<b>First SDI MWD @ 2267 MD</b>										
2,361.00	0.36	136.95	2,360.88	14.59	11.77	4.64	0.74	-0.18	108.35	
2,455.00	1.58	194.26	2,454.87	13.12	11.65	3.53	1.51	1.30	60.97	
2,548.00	1.56	193.86	2,547.83	10.65	11.03	1.92	0.02	-0.02	-0.43	
2,643.00	1.43	223.17	2,642.80	8.53	9.91	0.90	0.81	-0.14	30.85	
2,737.00	1.05	255.85	2,736.78	7.46	8.27	1.02	0.84	-0.40	34.77	
2,831.00	1.08	232.37	2,830.76	6.71	6.74	1.34	0.46	0.03	-24.98	
2,925.00	0.99	228.77	2,924.75	5.64	5.42	1.27	0.12	-0.10	-3.83	
3,019.00	0.99	237.09	3,018.73	4.66	4.13	1.26	0.15	0.00	8.85	
3,113.00	0.74	259.01	3,112.72	4.10	2.85	1.58	0.44	-0.27	23.32	
3,208.00	0.66	259.78	3,207.72	3.89	1.71	2.09	0.08	-0.08	0.81	
3,302.00	0.27	255.05	3,301.71	3.74	0.97	2.41	0.42	-0.41	-5.03	
3,396.00	0.39	248.20	3,395.71	3.56	0.46	2.58	0.13	0.13	-7.29	
3,491.00	0.53	207.95	3,490.71	3.05	-0.05	2.47	0.36	0.15	-42.37	
3,586.00	0.47	214.27	3,585.71	2.34	-0.48	2.16	0.09	-0.06	6.65	
3,680.00	0.29	340.37	3,679.70	2.25	-0.77	2.26	0.73	-0.19	134.15	
3,774.00	0.29	242.02	3,773.70	2.36	-1.06	2.53	0.47	0.00	-104.63	
3,868.00	0.07	247.07	3,867.70	2.22	-1.33	2.58	0.23	-0.23	5.37	
3,962.00	0.05	47.95	3,961.70	2.23	-1.35	2.59	0.13	-0.02	171.15	
4,056.00	0.35	292.73	4,055.70	2.37	-1.58	2.84	0.40	0.32	-122.57	
4,150.00	0.40	292.69	4,149.70	2.61	-2.15	3.37	0.05	0.05	-0.04	
4,244.00	0.15	162.14	4,243.70	2.62	-2.42	3.54	0.54	-0.27	-138.88	
4,338.00	0.29	309.16	4,337.70	2.65	-2.56	3.66	0.45	0.15	156.40	
4,433.00	0.24	127.76	4,432.70	2.68	-2.59	3.70	0.56	-0.05	188.00	



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<b>Site:</b>	Conley Pad	<b>MD Reference:</b>	GL 855' KB 10' @ 865.00ft (Highlands 2)
<b>Well:</b>	Conley 5H	<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)	
4,527.00	0.26	115.16	4,526.70	2.47	-2.24	3.32	0.06	0.02	-13.40	
4,621.00	0.57	53.97	4,620.70	2.65	-1.67	3.12	0.53	0.33	-65.10	
4,715.00	0.65	57.71	4,714.69	3.21	-0.84	3.08	0.10	0.09	3.98	
4,809.00	0.78	54.25	4,808.68	3.87	0.13	3.02	0.15	0.14	-3.68	
4,903.00	0.81	12.26	4,902.68	4.89	0.79	3.45	0.61	0.03	-44.67	
4,998.00	0.37	79.84	4,997.67	5.60	1.23	3.75	0.79	-0.46	71.14	
5,091.00	0.60	106.70	5,090.67	5.52	1.99	3.22	0.34	0.25	28.88	
5,185.00	1.27	105.36	5,184.65	5.10	3.47	2.01	0.71	0.71	-1.43	
5,279.00	0.70	148.74	5,278.64	4.33	4.77	0.61	0.96	-0.61	46.15	
5,373.00	1.27	213.00	5,372.63	2.97	4.50	-0.32	1.23	0.61	68.36	
5,467.00	1.25	190.57	5,466.61	1.09	3.75	-1.37	0.52	-0.02	-23.86	
5,530.00	1.40	195.37	5,529.59	-0.33	3.42	-2.31	0.30	0.24	7.62	
<b>Last SDI MWD @ 5530 MD</b>										
5,600.00	1.40	195.37	5,599.57	-1.98	2.96	-3.36	0.00	0.00	0.00	
<b>Projection to Bit @ 5600 MD</b>										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
10.00	10.00	0.00	0.00	First VES Gyro @ 10 MD	
2,176.00	2,175.89	13.84	10.45	Last VES Gyro @ 2176 MD	
2,267.00	2,266.88	14.45	11.32	First SDI MWD @ 2267 MD	
5,530.00	5,529.59	-0.33	3.42	Last SDI MWD @ 5530 MD	
5,600.00	5,599.57	-1.98	2.96	Projection to Bit @ 5600 MD	

Checked By: _____	Approved By: _____	Date: _____
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