



## Stone Energy

Mary Prospect  
Smith Pad  
8H

OH

Design: Smith 8H As Drilled

## Standard Survey Report

18 August, 2014



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

06/02/2017



Project: Mary Prospect  
 Site: Smith Pad  
 Well: 8H  
 Wellbore: OH  
 Design: Smith 8H As Drilled



WELL DETAILS: 8H

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	420230.00	1321.00 1630846.00	39° 38' 46.964 N	80° 48' 39.575 W

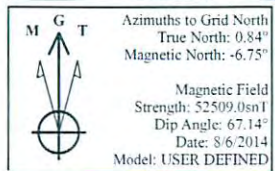
REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well 8H, Grid North  
 Vertical (TVD) Reference: GL 1321' & KB 18' @ 1339.00ft (Saxon 141)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: GL 1321' & KB 18' @ 1339.00ft (Saxon 141)  
 Calculation Method: Minimum Curvature

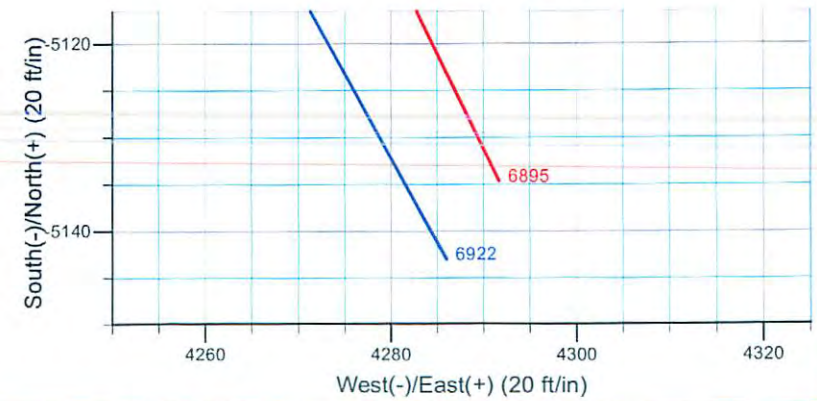
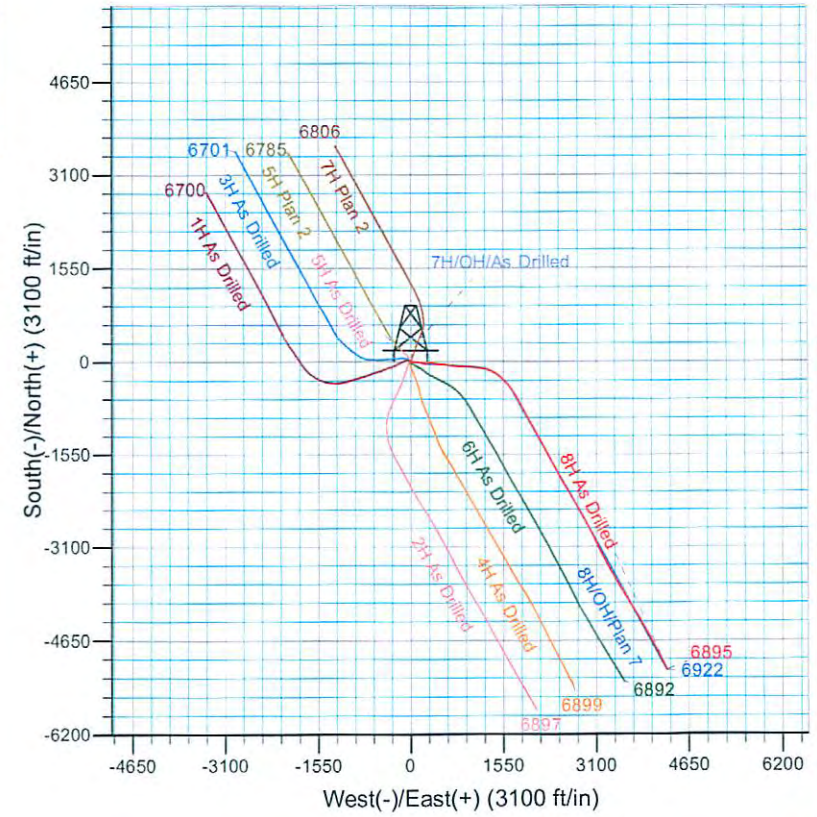
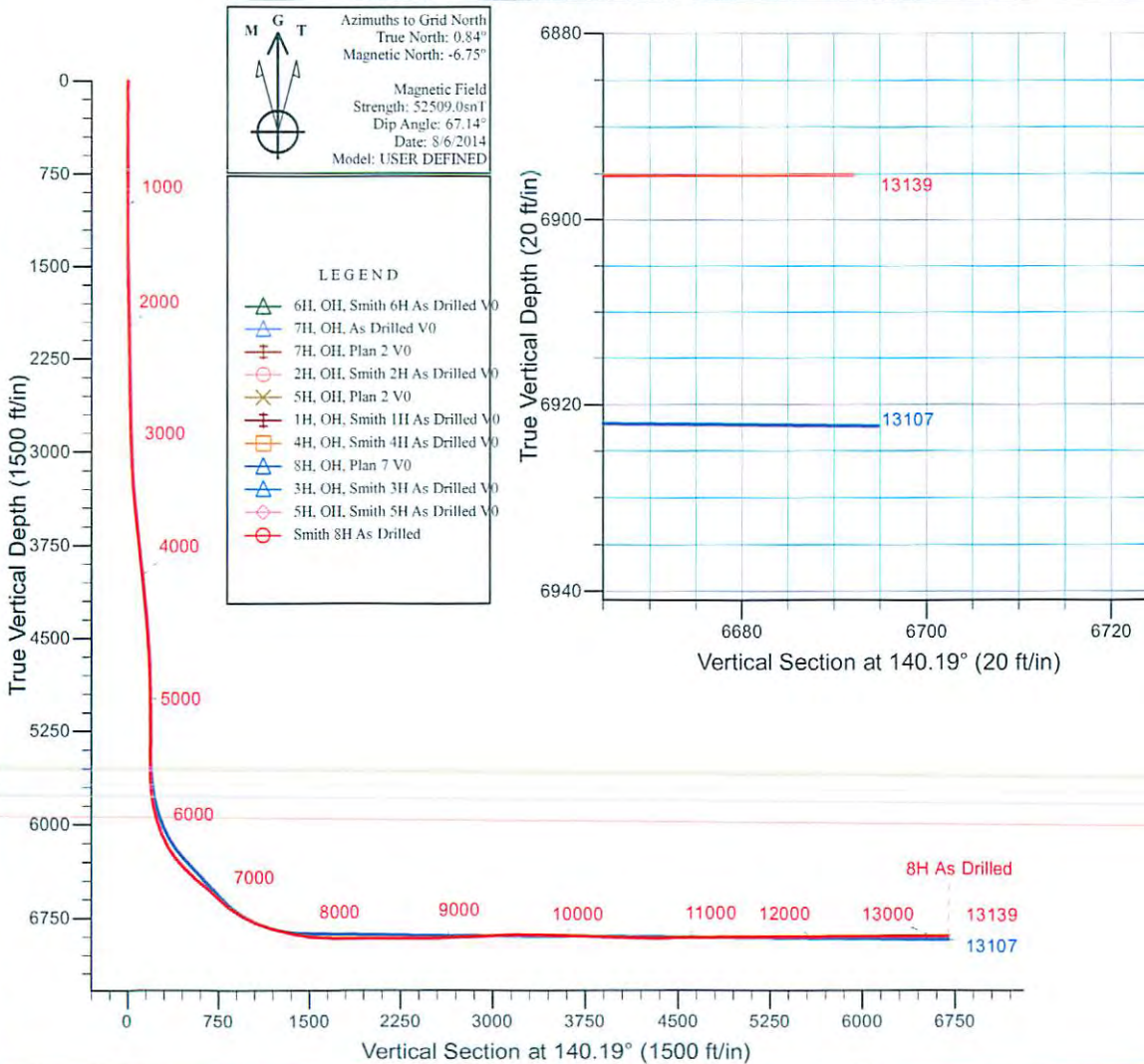
PROJECT DETAILS: Mary Prospect

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										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	
4324.00	7.25	98.51	4311.29	-21.40	218.20	0.00	0.00	156.13		
5048.77	0.00	0.00	5034.13	-28.17	263.47	1.00	180.00	190.32		
5510.77	0.00	0.00	5496.13	-28.17	263.47	0.00	0.00	190.32		
6417.60	54.41	93.93	6272.68	-55.50	661.72	6.00	93.93	466.27		
7004.94	54.41	93.93	6614.50	-88.20	1138.22	0.00	0.00	796.44		
7797.96	89.50	151.00	6876.00	-500.00	1712.00	8.00	69.77	1480.13	Smith 8H LP3	
13106.93	89.50	151.00	6922.33	-5143.01	4286.01	0.00	0.00	6694.81	Smith 8H_BHL3	



LEGEND	
	6H, OH, Smith 6H As Drilled V0
	7H, OH, As Drilled V0
	7H, OH, Plan 2 V0
	2H, OH, Smith 2H As Drilled V0
	5H, OH, Plan 2 V0
	1H, OH, Smith 1H As Drilled V0
	4H, OH, Smith 4H As Drilled V0
	8H, OH, Plan 7 V0
	3H, OH, Smith 3H As Drilled V0
	5H, OH, Smith 5H As Drilled V0
	Smith 8H As Drilled





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Survey Report



<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 8H
<b>Project:</b>	Mary Prospect	<b>TVD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Site:</b>	Smith Pad	<b>MD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Well:</b>	8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 8H As Drilled	<b>Database:</b>	Northeast District

<b>Project</b>	Mary Prospect, 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>	Smith Pad				
<b>Site Position:</b>		<b>Northing:</b>	420,251.00 usft	<b>Latitude:</b>	39° 38' 47.168 N
<b>From:</b>	Map	<b>Easting:</b>	1,630,827.00 usft	<b>Longitude:</b>	80° 48' 39.822 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.84 °

<b>Well</b>	8H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	420,230.00 usft	<b>Latitude:</b>	39° 38' 46.964 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	1,630,846.00 usft	<b>Longitude:</b>	80° 48' 39.575 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	0.00 ft	<b>Ground Level:</b>	1,321.00 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	8/21/2013	-8.54	67.20	52,536
	BGGM2013	12/9/2013	-8.55	67.17	52,497
	BGGM2014	6/11/2014	-8.52	67.15	52,439
	User Defined	6/12/2014	-7.56	67.15	52,542
	User Defined	8/6/2014	-7.59	67.14	52,509

<b>Design</b>	Smith 8H 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		140.19

<b>Survey Program</b>	<b>Date</b>	8/18/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
18.00	2,484.47	Survey 1 - Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,685.00	13,139.00	Survey 2 - 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	0.00
18.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ground Level</b>										
103.00	0.57	46.53	103.00	0.29	0.31	-0.03	0.67	0.67	0.00	
<b>First SDI Gyro Survey</b>										
203.00	0.12	180.70	203.00	0.53	0.67	0.02	0.66	-0.45	134.17	



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<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 8H
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<b>Site:</b>	Smith Pad	<b>MD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Well:</b>	8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 8H 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)	
303.00	0.18	272.76	303.00	0.43	0.51	-0.01	0.22	0.06	92.06	
403.00	0.13	310.20	403.00	0.51	0.26	-0.22	0.11	-0.05	37.44	
503.00	0.13	226.23	503.00	0.51	0.10	-0.33	0.17	0.00	-83.97	
603.00	0.14	277.04	603.00	0.44	-0.11	-0.41	0.12	0.01	50.81	
703.00	0.09	233.77	703.00	0.41	-0.29	-0.50	0.10	-0.05	-43.27	
803.00	0.13	290.56	803.00	0.41	-0.46	-0.61	0.11	0.04	56.79	
903.00	0.16	255.33	903.00	0.41	-0.70	-0.76	0.09	0.03	-35.23	
1,003.00	0.17	275.34	1,003.00	0.39	-0.99	-0.93	0.06	0.01	20.01	
1,103.00	0.32	279.49	1,103.00	0.45	-1.41	-1.25	0.15	0.15	4.15	
1,203.00	0.38	296.06	1,202.99	0.64	-1.98	-1.76	0.12	0.06	16.57	
1,303.00	0.32	259.27	1,302.99	0.73	-2.55	-2.20	0.23	-0.06	-36.79	
1,403.00	0.83	80.43	1,402.99	0.80	-2.11	-1.97	1.15	0.51	-178.84	
1,503.00	2.85	77.31	1,502.93	1.47	1.03	-0.47	2.02	2.02	-3.12	
1,603.00	4.35	70.05	1,602.73	3.31	7.02	1.95	1.56	1.50	-7.26	
1,703.00	4.23	68.97	1,702.45	5.93	14.02	4.43	0.14	-0.12	-1.08	
1,803.00	3.22	69.15	1,802.24	8.25	20.09	6.52	1.01	-1.01	0.18	
1,903.00	2.42	68.61	1,902.12	10.02	24.68	8.10	0.80	-0.80	-0.54	
2,003.00	1.98	62.99	2,002.05	11.57	28.19	9.15	0.49	-0.44	-5.62	
2,103.00	1.21	144.12	2,102.02	11.50	30.34	10.59	2.16	-0.77	81.13	
2,203.00	1.63	162.87	2,201.99	9.29	31.38	12.96	0.62	0.42	18.75	
2,303.00	1.49	180.01	2,301.95	6.63	31.80	15.27	0.49	-0.14	17.14	
2,403.00	1.80	185.80	2,401.91	3.77	31.64	17.36	0.35	0.31	5.79	
2,484.48	1.37	192.32	2,483.35	1.54	31.30	18.86	0.57	-0.53	8.00	
<b>Last SDI Gyro Survey</b>										
2,685.00	2.08	70.08	2,683.83	0.44	34.22	21.57	1.52	0.35	-60.96	
<b>First SDI MWD Survey @ 2685.00 MD</b>										
2,778.00	3.90	72.53	2,776.70	1.96	38.82	23.34	1.96	1.96	2.63	
2,869.00	4.54	74.29	2,867.45	3.87	45.24	25.99	0.72	0.70	1.93	
2,962.00	4.88	85.98	2,960.14	5.14	52.73	29.81	1.09	0.37	12.57	
3,055.00	4.68	91.36	3,052.81	5.33	60.47	34.62	0.53	-0.22	5.78	
3,148.00	4.50	89.75	3,145.52	5.26	67.91	39.44	0.24	-0.19	-1.73	
3,241.00	4.86	97.01	3,238.21	4.79	75.47	44.63	0.74	0.39	7.81	
3,333.00	5.99	98.31	3,329.79	3.62	84.08	51.05	1.24	1.23	1.41	
3,429.00	6.89	102.46	3,425.19	1.65	94.66	59.33	1.05	0.94	4.32	
3,524.00	8.41	103.99	3,519.34	-1.25	106.97	69.45	1.61	1.60	1.61	
3,617.00	8.16	101.00	3,611.37	-4.16	120.05	80.05	0.54	-0.27	-3.22	
3,711.00	8.72	102.50	3,704.35	-6.97	133.55	90.86	0.64	0.60	1.60	
3,802.00	8.63	99.86	3,794.31	-9.64	147.01	101.52	0.45	-0.10	-2.90	
3,895.00	7.94	97.71	3,886.34	-11.69	160.25	111.58	0.81	-0.74	-2.31	
3,987.00	8.11	99.27	3,977.44	-13.59	172.96	121.17	0.30	0.18	1.70	
4,077.00	7.67	98.61	4,066.59	-15.51	185.16	130.46	0.50	-0.49	-0.73	
4,169.99	8.14	101.17	4,158.69	-17.72	197.75	140.21	0.63	0.51	2.75	
4,208.00	7.92	101.86	4,196.33	-18.78	202.96	144.36	0.63	-0.58	1.82	



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<b>Project:</b>	Mary Prospect	<b>TVD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Site:</b>	Smith Pad	<b>MD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Well:</b>	8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 8H 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)
4,272.00	7.71	99.12	4,259.73	-20.36	211.51	151.05	0.67	-0.33	-4.28
4,335.00	7.15	98.37	4,322.21	-21.60	219.56	157.16	0.90	-0.89	-1.19
4,399.00	6.65	95.67	4,385.74	-22.55	227.19	162.77	0.93	-0.78	-4.22
4,463.00	6.17	93.40	4,449.34	-23.12	234.31	167.77	0.85	-0.75	-3.55
4,526.00	5.62	94.26	4,512.01	-23.55	240.77	172.23	0.88	-0.87	1.37
4,590.00	5.08	91.84	4,575.73	-23.87	246.72	176.29	0.91	-0.84	-3.78
4,653.00	4.67	90.05	4,638.50	-23.96	252.08	179.79	0.69	-0.65	-2.84
4,717.00	3.98	85.69	4,702.32	-23.80	256.90	182.75	1.19	-1.08	-6.81
4,781.00	3.56	83.49	4,766.18	-23.41	261.09	185.13	0.69	-0.66	-3.44
4,844.00	3.26	82.19	4,829.07	-22.94	264.80	187.15	0.49	-0.48	-2.06
4,907.00	2.61	83.68	4,891.99	-22.54	268.00	188.89	1.04	-1.03	2.37
4,971.00	1.83	82.60	4,955.94	-22.25	270.47	190.24	1.22	-1.22	-1.69
5,034.00	1.24	77.23	5,018.91	-21.97	272.13	191.09	0.96	-0.94	-8.52
5,098.00	1.09	69.83	5,082.90	-21.61	273.38	191.61	0.33	-0.23	-11.56
5,162.00	0.67	44.37	5,146.89	-21.13	274.21	191.78	0.88	-0.66	-39.78
5,226.00	0.57	39.60	5,210.89	-20.62	274.67	191.68	0.18	-0.16	-7.45
5,289.00	0.62	1.21	5,273.89	-20.03	274.88	191.37	0.63	0.08	-60.94
5,353.00	0.68	350.98	5,337.88	-19.31	274.83	190.78	0.20	0.09	-15.98
5,416.00	0.48	340.22	5,400.88	-18.69	274.68	190.21	0.36	-0.32	-17.08
5,480.00	0.62	323.97	5,464.88	-18.16	274.39	189.61	0.33	0.22	-25.39
5,543.00	0.90	333.41	5,527.87	-17.44	273.96	188.79	0.49	0.44	14.98
5,575.00	0.92	313.84	5,559.87	-17.04	273.67	188.29	0.97	0.06	-61.16
5,607.00	0.81	32.08	5,591.86	-16.67	273.60	187.97	3.42	-0.34	244.50
5,637.00	2.90	74.23	5,621.85	-16.29	274.44	188.21	7.88	6.97	140.50
5,669.00	5.67	81.68	5,653.76	-15.84	276.79	189.37	8.81	8.66	23.28
5,701.00	7.91	82.02	5,685.53	-15.30	280.53	191.35	7.00	7.00	1.06
5,733.00	9.85	83.50	5,717.14	-14.69	285.43	194.02	6.10	6.06	4.63
5,764.00	11.23	86.08	5,747.62	-14.18	291.08	197.24	4.70	4.45	8.32
5,796.00	12.48	89.98	5,778.94	-13.97	297.65	201.28	4.64	3.91	12.19
5,828.00	13.99	91.50	5,810.09	-14.07	304.97	206.05	4.84	4.72	4.75
5,860.00	15.60	92.20	5,841.03	-14.33	313.14	211.48	5.06	5.03	2.19
5,892.00	17.25	94.57	5,871.72	-14.88	322.17	217.68	5.56	5.16	7.41
5,924.00	18.93	97.03	5,902.14	-15.89	332.05	224.78	5.77	5.25	7.69
5,956.00	20.17	98.01	5,932.29	-17.29	342.66	232.66	4.01	3.88	3.06
5,987.00	22.04	97.71	5,961.21	-18.82	353.72	240.91	6.04	6.03	-0.97
6,019.00	24.12	97.12	5,990.65	-20.43	366.16	250.11	6.54	6.50	-1.84
6,051.00	26.26	95.78	6,019.60	-21.96	379.69	259.95	6.92	6.69	-4.19
6,083.00	28.43	94.96	6,048.03	-23.33	394.33	270.37	6.88	6.78	-2.56
6,115.00	30.58	94.42	6,075.87	-24.62	410.03	281.41	6.77	6.72	-1.69
6,147.00	32.88	94.99	6,103.09	-26.00	426.80	293.21	7.25	7.19	1.78
6,178.00	35.33	96.28	6,128.76	-27.71	444.10	305.60	8.24	7.90	4.16
6,210.00	37.08	97.26	6,154.58	-29.94	462.87	319.33	5.76	5.47	3.06
6,242.00	38.21	97.71	6,179.91	-32.49	482.25	333.69	3.63	3.53	1.41
6,274.00	39.70	97.48	6,204.80	-35.15	502.19	348.50	4.68	4.66	-0.72

<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 8H
<b>Project:</b>	Mary Prospect	<b>TVD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Site:</b>	Smith Pad	<b>MD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Well:</b>	8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 8H 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)
6,304.00	42.28	97.39	6,227.44	-37.69	521.70	362.95	8.60	8.60	-0.30
6,336.00	45.81	97.53	6,250.44	-40.58	543.75	379.29	11.04	11.03	0.44
6,368.00	48.63	97.76	6,272.17	-43.71	567.03	396.59	8.83	8.81	0.72
6,400.00	49.80	97.46	6,293.07	-46.92	591.04	414.43	3.72	3.66	-0.94
6,431.00	51.66	97.27	6,312.69	-49.99	614.85	432.03	6.02	6.00	-0.61
6,463.00	53.57	96.46	6,332.12	-53.03	640.09	450.52	6.30	5.97	-2.53
6,495.00	55.55	96.41	6,350.68	-55.95	665.99	469.35	6.19	6.19	-0.16
6,527.00	56.62	96.11	6,368.53	-58.85	692.39	488.47	3.43	3.34	-0.94
6,559.00	57.26	96.14	6,385.99	-61.71	719.06	507.74	2.00	2.00	0.09
6,622.00	57.97	95.33	6,419.73	-67.02	771.99	545.71	1.56	1.13	-1.29
6,686.00	59.04	95.96	6,453.17	-72.39	826.30	584.61	1.87	1.67	0.98
6,749.00	58.99	95.49	6,485.60	-77.78	880.04	623.15	0.64	-0.08	-0.75
6,813.00	59.30	94.85	6,518.42	-82.73	934.75	661.98	0.99	0.48	-1.00
6,876.00	59.52	94.28	6,550.48	-87.05	988.81	699.91	0.85	0.35	-0.90
6,939.00	59.24	93.83	6,582.57	-90.88	1,042.89	737.47	0.76	-0.44	-0.71
7,003.00	58.88	93.55	6,615.48	-94.41	1,097.67	775.26	0.68	-0.56	-0.44
7,033.00	58.66	93.57	6,631.03	-96.01	1,123.28	792.87	0.74	-0.73	0.07
7,064.00	59.04	93.95	6,647.07	-97.75	1,149.75	811.16	1.61	1.23	1.23
7,094.00	59.61	96.62	6,662.37	-100.12	1,175.44	829.43	7.89	1.90	8.90
7,124.00	60.65	99.82	6,677.32	-103.85	1,201.18	848.77	9.88	3.47	10.67
7,155.00	61.91	103.26	6,692.22	-109.29	1,227.81	870.00	10.55	4.06	11.10
7,185.00	62.89	106.50	6,706.12	-116.12	1,253.50	891.69	10.11	3.27	10.80
7,215.00	63.59	108.73	6,719.63	-124.22	1,279.03	914.26	7.04	2.33	7.43
7,245.00	64.40	111.36	6,732.78	-133.47	1,304.35	937.58	8.33	2.70	8.77
7,275.00	64.92	113.25	6,745.62	-143.76	1,329.43	961.54	5.95	1.73	6.30
7,305.00	65.25	115.42	6,758.26	-154.97	1,354.22	986.02	6.65	1.10	7.23
7,335.00	66.36	117.70	6,770.56	-167.21	1,378.70	1,011.09	7.86	3.70	7.60
7,366.00	67.83	120.75	6,782.63	-181.15	1,403.61	1,037.75	10.23	4.74	9.84
7,396.00	68.31	123.79	6,793.83	-196.01	1,427.14	1,064.23	9.54	1.60	10.13
7,426.00	69.60	125.49	6,804.61	-211.92	1,450.17	1,091.20	6.82	4.30	5.67
7,456.00	71.55	127.71	6,814.58	-228.79	1,472.88	1,118.69	9.54	6.50	7.40
7,487.00	72.50	129.84	6,824.15	-247.26	1,495.86	1,147.60	7.22	3.06	6.87
7,517.00	73.45	131.17	6,832.94	-265.89	1,517.67	1,175.87	5.29	3.17	4.43
7,548.00	74.93	132.74	6,841.38	-285.83	1,539.85	1,205.39	6.82	4.77	5.06
7,577.00	76.10	134.64	6,848.64	-305.22	1,560.15	1,233.28	7.52	4.03	6.55
7,608.00	77.24	136.51	6,855.78	-326.77	1,581.27	1,263.35	6.93	3.68	6.03
7,638.00	77.86	137.92	6,862.25	-348.27	1,601.16	1,292.60	5.03	2.07	4.70
7,669.00	78.16	139.49	6,868.69	-371.05	1,621.17	1,322.92	5.05	0.97	5.06
7,699.00	78.36	140.66	6,874.80	-393.57	1,640.02	1,352.29	3.88	0.67	3.90
7,729.00	78.69	141.88	6,880.77	-416.51	1,658.42	1,381.68	4.13	1.10	4.07
7,759.00	79.41	143.20	6,886.46	-439.89	1,676.33	1,411.11	4.94	2.40	4.40
7,790.00	80.37	144.41	6,891.91	-464.51	1,694.35	1,441.57	4.94	3.10	3.90
7,820.00	81.57	145.86	6,896.61	-488.82	1,711.29	1,471.08	6.23	4.00	4.83

<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 8H
<b>Project:</b>	Mary Prospect	<b>TVD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Site:</b>	Smith Pad	<b>MD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Well:</b>	8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 8H 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)	
7,850.00	82.87	147.37	6,900.68	-513.64	1,727.64	1,500.62	6.61	4.33	5.03	
7,881.00	84.26	148.61	6,904.15	-539.76	1,743.97	1,531.14	5.99	4.48	4.00	
7,911.00	85.49	149.73	6,906.83	-565.42	1,759.28	1,560.65	5.53	4.10	3.73	
7,971.00	88.62	152.08	6,909.91	-617.77	1,788.41	1,619.52	6.52	5.22	3.92	
8,032.00	89.90	153.01	6,910.70	-671.89	1,816.53	1,679.10	2.59	2.10	1.52	
8,095.00	88.46	151.45	6,911.60	-727.63	1,845.88	1,740.70	3.37	-2.29	-2.48	
8,159.00	88.93	150.88	6,913.06	-783.68	1,876.74	1,803.52	1.15	0.73	-0.89	
8,223.00	89.53	151.24	6,913.92	-839.68	1,907.71	1,866.36	1.09	0.94	0.56	
8,286.00	90.64	151.55	6,913.83	-894.99	1,937.87	1,928.16	1.83	1.76	0.49	
8,350.00	91.41	151.71	6,912.68	-951.29	1,968.27	1,990.88	1.23	1.20	0.25	
8,414.00	91.14	151.32	6,911.26	-1,007.53	1,998.79	2,053.62	0.74	-0.42	-0.61	
8,477.00	89.06	149.39	6,911.15	-1,062.28	2,029.95	2,115.62	4.50	-3.30	-3.06	
8,541.00	90.74	152.19	6,911.26	-1,118.13	2,061.18	2,178.52	5.10	2.63	4.38	
8,604.00	90.30	151.48	6,910.69	-1,173.67	2,090.91	2,240.23	1.33	-0.70	-1.13	
8,668.00	91.08	150.69	6,909.92	-1,229.69	2,121.85	2,303.07	1.73	1.22	-1.23	
8,731.00	91.21	151.05	6,908.66	-1,284.71	2,152.52	2,364.96	0.61	0.21	0.57	
8,795.00	90.34	151.26	6,907.79	-1,340.76	2,183.39	2,427.79	1.40	-1.36	0.33	
8,859.00	89.60	151.29	6,907.83	-1,396.89	2,214.15	2,490.60	1.16	-1.16	0.05	
8,922.00	89.93	151.29	6,908.08	-1,452.14	2,244.41	2,552.42	0.52	0.52	0.00	
8,986.00	90.17	151.31	6,908.03	-1,508.28	2,275.14	2,615.22	0.38	0.38	0.03	
9,049.00	93.09	153.11	6,906.24	-1,563.98	2,304.50	2,676.80	5.44	4.63	2.86	
9,112.00	93.60	152.90	6,902.56	-1,620.02	2,333.05	2,738.13	0.88	0.81	-0.33	
9,176.00	92.89	152.29	6,898.94	-1,676.75	2,362.46	2,800.54	1.46	-1.11	-0.95	
9,239.00	92.65	151.58	6,895.89	-1,732.27	2,392.06	2,862.15	1.19	-0.38	-1.13	
9,303.00	93.36	152.05	6,892.54	-1,788.61	2,422.25	2,924.75	1.33	1.11	0.73	
9,366.00	92.49	151.89	6,889.32	-1,844.14	2,451.82	2,986.34	1.40	-1.38	-0.25	
9,430.00	92.02	151.37	6,886.81	-1,900.41	2,482.21	3,049.02	1.09	-0.73	-0.81	
9,492.00	91.78	151.30	6,884.75	-1,954.78	2,511.93	3,109.82	0.40	-0.39	-0.11	
9,556.00	90.07	150.11	6,883.72	-2,010.59	2,543.24	3,172.73	3.26	-2.67	-1.86	
9,620.00	90.30	150.28	6,883.51	-2,066.12	2,575.05	3,235.76	0.45	0.36	0.27	
9,684.00	89.50	149.93	6,883.62	-2,121.61	2,606.95	3,298.80	1.36	-1.25	-0.55	
9,747.00	88.76	149.56	6,884.58	-2,176.02	2,638.69	3,360.92	1.31	-1.17	-0.59	
9,811.00	88.29	148.59	6,886.23	-2,230.90	2,671.57	3,424.13	1.68	-0.73	-1.52	
9,875.00	88.72	148.38	6,887.90	-2,285.44	2,705.01	3,487.44	0.75	0.67	-0.33	
9,938.00	88.86	148.64	6,889.23	-2,339.15	2,737.91	3,549.77	0.47	0.22	0.41	
10,001.00	89.13	150.56	6,890.33	-2,393.48	2,769.78	3,611.91	3.08	0.43	3.05	
10,065.00	88.32	150.05	6,891.75	-2,449.06	2,801.48	3,674.90	1.50	-1.27	-0.80	
10,129.00	87.95	150.42	6,893.84	-2,504.59	2,833.23	3,737.88	0.82	-0.58	0.58	
10,193.00	87.81	150.72	6,896.20	-2,560.29	2,864.66	3,800.79	0.52	-0.22	0.47	
10,257.00	88.05	152.16	6,898.52	-2,616.47	2,895.24	3,863.52	2.28	0.38	2.25	
10,320.00	88.76	153.16	6,900.27	-2,672.41	2,924.16	3,925.01	1.95	1.13	1.59	
10,384.00	88.52	153.10	6,901.79	-2,729.48	2,953.08	3,987.37	0.39	-0.38	-0.09	
10,448.00	87.85	153.02	6,903.82	-2,786.50	2,982.06	4,049.73	1.05	-1.05	-0.13	



Scientific Drilling International  
Survey Report



<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 8H
<b>Project:</b>	Mary Prospect	<b>TVD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Site:</b>	Smith Pad	<b>MD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
<b>Well:</b>	8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 8H 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)	
10,511.00	88.25	153.18	6,905.96	-2,842.66	3,010.54	4,111.10	0.68	0.63	0.25	
10,574.00	88.72	153.55	6,907.63	-2,898.95	3,038.78	4,172.42	0.95	0.75	0.59	
10,638.00	89.13	153.95	6,908.83	-2,956.34	3,067.08	4,234.63	0.89	0.64	0.63	
10,702.00	88.86	152.25	6,909.95	-3,013.40	3,096.03	4,297.00	2.69	-0.42	-2.66	
10,765.00	92.22	155.96	6,909.36	-3,070.06	3,123.53	4,358.13	7.94	5.33	5.89	
10,829.00	92.65	155.81	6,906.64	-3,128.42	3,149.66	4,419.69	0.71	0.67	-0.23	
10,892.00	91.41	153.71	6,904.40	-3,185.36	3,176.50	4,480.62	3.87	-1.97	-3.33	
10,955.00	91.08	151.92	6,903.04	-3,241.39	3,205.28	4,542.08	2.89	-0.52	-2.84	
11,019.00	90.50	150.86	6,902.15	-3,297.57	3,235.92	4,604.86	1.89	-0.91	-1.66	
11,083.00	89.29	150.47	6,902.27	-3,353.36	3,267.27	4,667.79	1.99	-1.89	-0.61	
11,146.00	89.06	150.30	6,903.18	-3,408.12	3,298.40	4,729.79	0.45	-0.37	-0.27	
11,210.00	89.50	150.13	6,903.98	-3,463.67	3,330.19	4,792.81	0.74	0.69	-0.27	
11,273.00	90.50	150.82	6,903.98	-3,518.48	3,361.24	4,854.79	1.93	1.59	1.10	
11,337.00	90.77	150.47	6,903.27	-3,574.26	3,392.61	4,917.73	0.69	0.42	-0.55	
11,399.00	90.30	149.59	6,902.69	-3,627.97	3,423.58	4,978.81	1.61	-0.76	-1.42	
11,461.00	90.74	149.00	6,902.13	-3,681.27	3,455.24	5,040.03	1.19	0.71	-0.95	
11,525.00	89.80	147.92	6,901.83	-3,735.82	3,488.71	5,103.36	2.24	-1.47	-1.69	
11,589.00	90.67	147.93	6,901.57	-3,790.05	3,522.70	5,166.78	1.36	1.36	0.02	
11,652.00	91.01	147.93	6,900.64	-3,843.43	3,556.15	5,229.20	0.54	0.54	0.00	
11,716.00	90.37	148.17	6,899.87	-3,897.73	3,590.01	5,292.59	1.07	-1.00	0.38	
11,780.00	89.60	147.67	6,899.89	-3,951.96	3,624.00	5,356.01	1.43	-1.20	-0.78	
11,843.00	90.37	147.65	6,899.91	-4,005.18	3,657.70	5,418.48	1.22	1.22	-0.03	
11,907.00	91.08	148.12	6,899.10	-4,059.39	3,691.72	5,481.89	1.33	1.11	0.73	
11,970.00	91.75	148.00	6,897.54	-4,112.83	3,725.04	5,544.28	1.08	1.06	-0.19	
12,034.00	90.74	148.37	6,896.15	-4,167.20	3,758.77	5,607.64	1.68	-1.58	0.58	
12,098.00	90.37	149.43	6,895.53	-4,222.00	3,791.83	5,670.90	1.75	-0.58	1.66	
12,162.00	89.87	149.99	6,895.40	-4,277.26	3,824.11	5,734.02	1.17	-0.78	0.88	
12,225.00	90.20	149.63	6,895.36	-4,331.72	3,855.79	5,796.14	0.78	0.52	-0.57	
12,288.00	90.64	149.57	6,894.90	-4,386.05	3,887.67	5,858.29	0.70	0.70	-0.10	
12,351.00	90.84	149.68	6,894.08	-4,440.40	3,919.52	5,920.43	0.36	0.32	0.17	
12,414.00	89.40	149.26	6,893.95	-4,494.66	3,951.52	5,982.60	2.38	-2.29	-0.67	
12,478.00	90.03	149.66	6,894.27	-4,549.79	3,984.04	6,045.77	1.17	0.98	0.63	
12,542.00	90.17	150.60	6,894.16	-4,605.28	4,015.92	6,108.81	1.48	0.22	1.47	
12,605.00	89.19	151.95	6,894.51	-4,660.53	4,046.20	6,170.63	2.65	-1.56	2.14	
12,669.00	89.70	151.76	6,895.13	-4,716.96	4,076.38	6,233.31	0.85	0.80	-0.30	
12,732.00	90.07	151.41	6,895.25	-4,772.37	4,106.36	6,295.06	0.81	0.59	-0.56	
12,796.00	90.74	151.02	6,894.80	-4,828.46	4,137.18	6,357.88	1.21	1.05	-0.61	
12,860.00	90.03	152.71	6,894.37	-4,884.89	4,167.36	6,420.55	2.86	-1.11	2.64	
12,923.00	90.71	153.16	6,893.97	-4,940.99	4,196.02	6,482.00	1.29	1.08	0.71	
12,987.00	88.86	153.72	6,894.21	-4,998.23	4,224.63	6,544.29	3.02	-2.89	0.88	
13,051.00	89.46	153.51	6,895.14	-5,055.56	4,253.07	6,606.54	0.99	0.94	-0.33	
13,077.00	90.10	154.07	6,895.24	-5,078.89	4,264.56	6,631.81	3.27	2.46	2.15	
<b>Last SDI MWD Survey @ 13077 MD</b>										
13,139.00	90.10	154.07	6,895.14	-5,134.64	4,291.67	6,692.00	0.00	0.00	0.00	