



Project: Mary Prospect  
 Site: Smith Pad  
 Well: 3H  
 Wellbore: OH  
 Design: Smith 3H As Drilled



WELL DETAILS 3H

+N/S 0.00    Northing 420271.00    +E/W 0.00    Easting 1630829.00  
 Ground Level 1321.00    Latitude 39° 38' 47.366 N    Longitude 80° 48' 39.800 W

REFERENCE INFORMATION

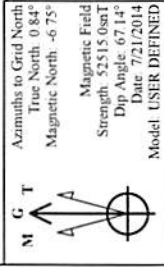
Co-ordinate (N/E) Reference: Well 3H, Grid North  
 Vertical (TVD) Reference: GL 1321' & KB 18' @ 1339 00R (Saxon 141)  
 Section (VS) Reference: Slat - (0.00N, 0.00E)  
 Measured Depth Reference: GL 1321' & KB 18' @ 1339 00R (Saxon 141)  
 Calculation Method: Minimum Curvature

PROJECT DETAILS Mary Prospect

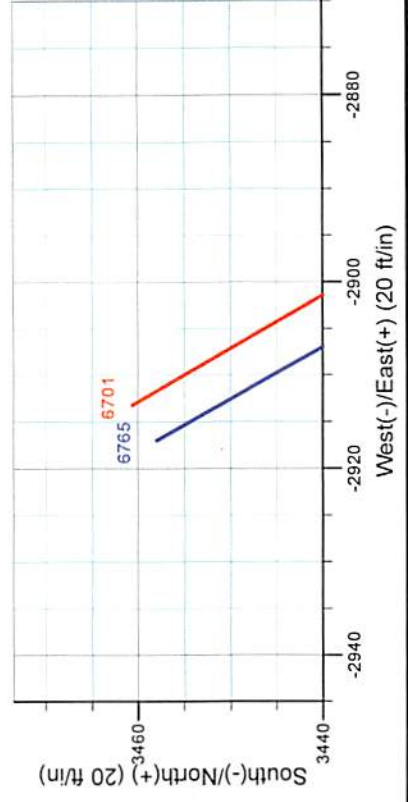
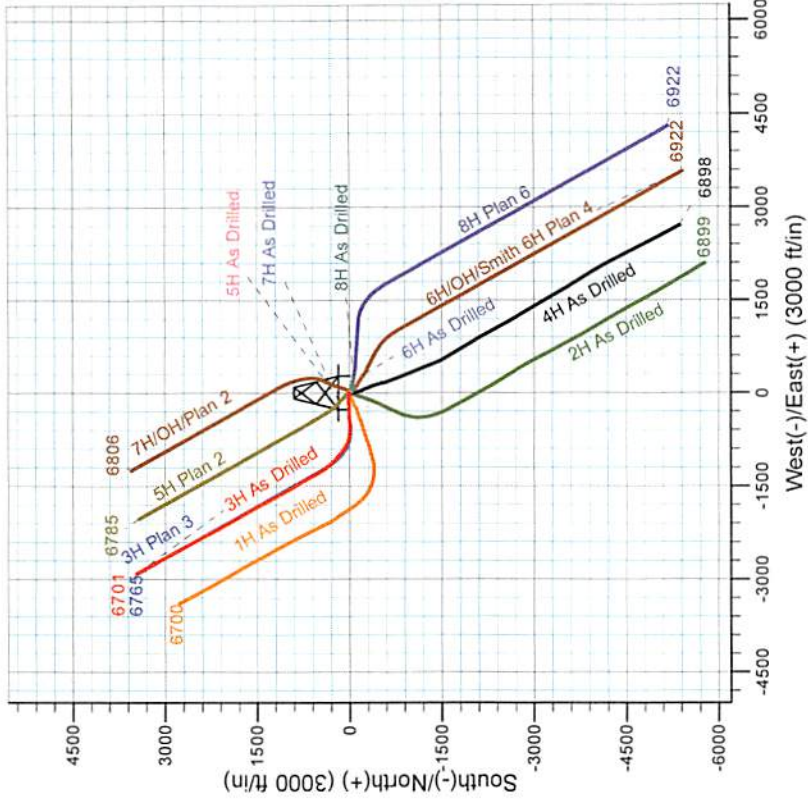
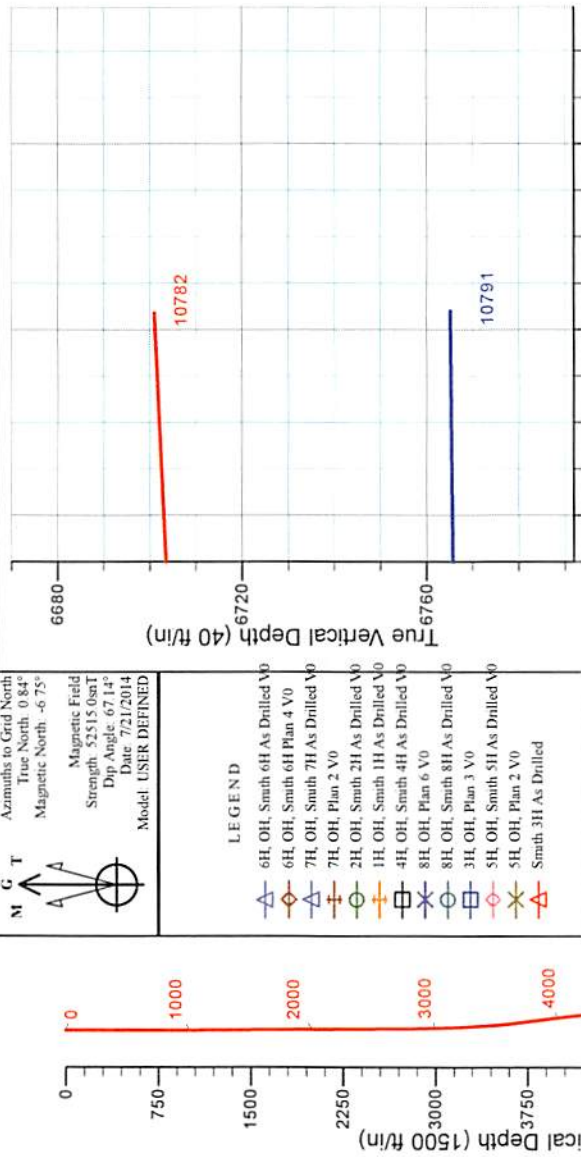
Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: West Virginia North 4701  
 System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	Tface	Vsect	Target
1	5811.00	11.08	259.16	5767.61	-3.67	-486.34	0.00	0.00	310.78	
2	6058.00	11.08	259.16	6010.00	-12.60	-532.96	0.00	0.00	334.01	
3	6502.68	38.17	276.84	6410.88	-4.11	-714.95	6.25	23.74	457.85	Smith 3H LP4
4	7367.72	90.50	331.00	6795.00	-464.40	-1257.70	8.00	60.13	1165.92	Smith 3H_BHL3
5	10790.57	90.50	331.00	6765.13	3458.01	-2917.01	0.00	0.00	4524.02	



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



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## Stone Energy

Mary Prospect  
Smith Pad  
3H

OH

Design: Smith 3H As Drilled

## Standard Survey Report

27 July, 2014

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Scientific Drilling  
Survey Report



<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 3H
<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>	3H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 3H 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>	3H					
<b>Well Position</b>	+N/-S	0.00 ft	<b>Northing:</b>	420,271.00 usft	<b>Latitude:</b>	39° 38' 47.366 N
	+E/-W	0.00 ft	<b>Easting:</b>	1,630,829.00 usft	<b>Longitude:</b>	80° 48' 39.800 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	11/20/2013	-8.55	67.18	52,504
	BGGM2014	6/11/2014	-8.52	67.15	52,439
	User Defined	6/12/2014	-7.56	67.15	52,541
	User Defined	7/21/2014	-7.59	67.14	52,515

<b>Design</b>	Smith 3H 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	319.85	

<b>Survey Program</b>	Date 7/27/2014				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
103.00	2,571.00	Survey 1 - Vaughn Gyro (OH)	VES GyroFlex		
2,632.01	5,811.00	Survey 2 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,843.00	10,782.00	Survey 3 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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<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
103.00	0.15	136.52	103.00	-0.10	0.09	-0.13	0.15	0.15	0.00	0.00
<b>First Vaughn Gyro Survey</b>										
203.00	0.32	159.48	203.00	-0.45	0.28	-0.53	0.19	0.17	22.96	
303.00	0.28	184.37	303.00	-0.96	0.36	-0.97	0.14	-0.04	24.89	
403.00	0.04	218.23	403.00	-1.23	0.32	-1.15	0.25	-0.24	33.86	



# Scientific Drilling

## Survey Report



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<b>Site:</b>	Smith Pad	<b>MD Reference:</b>	GL 1321' & KB 18' @ 1339.00ft (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>	Smith 3H 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)
503.00	0.10	196.63	503.00	-1.34	0.27	-1.20	0.06	0.06	-21.60
603.00	0.25	250.59	603.00	-1.50	0.04	-1.17	0.21	0.15	53.96
703.00	0.23	273.68	703.00	-1.56	-0.36	-0.96	0.10	-0.02	23.09
803.00	0.05	297.69	803.00	-1.52	-0.60	-0.78	0.19	-0.18	24.01
903.00	0.23	305.58	903.00	-1.39	-0.80	-0.54	0.18	0.18	7.89
1,003.00	0.43	307.64	1,002.99	-1.04	-1.26	0.02	0.20	0.20	2.06
1,103.00	0.33	318.11	1,102.99	-0.60	-1.75	0.67	0.12	-0.10	10.47
1,203.00	0.42	330.71	1,202.99	-0.06	-2.13	1.32	0.12	0.09	12.60
1,303.00	0.36	328.87	1,302.99	0.52	-2.47	1.99	0.06	-0.06	-1.84
1,403.00	0.27	331.89	1,402.99	1.00	-2.74	2.53	0.09	-0.09	3.02
1,503.00	0.30	328.57	1,502.98	1.43	-2.99	3.02	0.03	0.03	-3.32
1,603.00	0.43	335.06	1,602.98	2.00	-3.28	3.64	0.14	0.13	6.49
1,703.00	0.37	349.55	1,702.98	2.65	-3.50	4.29	0.12	-0.06	14.49
1,803.00	0.50	333.66	1,802.98	3.36	-3.75	4.99	0.18	0.13	-15.89
1,883.00	0.55	322.91	1,882.97	3.98	-4.14	5.71	0.14	0.06	-13.44
1,903.00	0.41	318.80	1,902.97	4.11	-4.24	5.88	0.72	-0.70	-20.55
2,003.00	0.48	314.42	2,002.97	4.67	-4.78	6.65	0.08	0.07	-4.38
2,103.00	0.60	329.91	2,102.97	5.42	-5.34	7.59	0.19	0.12	15.49
2,203.00	0.35	333.78	2,202.96	6.15	-5.74	8.40	0.25	-0.25	3.87
2,303.00	0.40	324.24	2,302.96	6.71	-6.08	9.04	0.08	0.05	-9.54
2,403.00	0.43	325.64	2,402.96	7.30	-6.49	9.76	0.03	0.03	3.87
2,503.00	0.54	351.52	2,502.95	8.07	-6.77	10.54	0.24	0.11	-9.54
2,571.00	0.38	355.80	2,570.95	8.62	-6.84	10.99	0.24	-0.24	3.87
<b>Last Vaughn Gyro Survey</b>									
2,632.01	0.61	4.16	2,631.95	9.14	-6.83	11.39	0.39	0.38	13.70
<b>First SDI MWD Survey</b>									
2,725.01	0.57	9.57	2,724.95	10.09	-6.72	12.04	0.07	-0.04	5.82
2,816.01	1.50	283.02	2,815.94	10.81	-7.80	13.29	1.73	1.02	-95.11
2,910.01	1.92	279.90	2,909.90	11.35	-10.55	15.48	0.46	0.45	-3.32
3,000.01	1.94	278.88	2,999.84	11.85	-13.54	17.79	0.04	0.02	-1.13
3,093.01	3.64	273.36	3,092.73	12.26	-18.04	21.01	1.85	1.83	-5.94
3,186.01	4.21	273.00	3,185.51	12.62	-24.40	25.38	0.61	0.61	-0.39
3,279.01	4.12	264.84	3,278.27	12.49	-31.14	29.63	0.64	-0.10	-8.77
3,372.01	5.46	269.88	3,370.94	12.18	-38.89	34.39	1.51	1.44	5.42
3,467.01	6.98	274.67	3,465.38	12.65	-49.16	41.36	1.69	1.60	5.04
3,560.01	8.29	275.61	3,557.55	13.76	-61.47	50.15	1.41	1.41	1.01
3,650.01	9.49	277.97	3,646.47	15.42	-75.27	60.32	1.39	1.33	2.62
3,743.01	10.55	275.89	3,738.05	17.36	-91.33	72.16	1.20	1.14	-2.24
3,833.01	10.96	273.52	3,826.47	18.73	-108.07	84.00	0.67	0.46	-2.63
3,926.00	10.91	269.84	3,917.78	19.25	-125.69	95.76	0.75	-0.05	-3.96
4,019.00	11.59	267.21	4,008.99	18.77	-143.83	107.08	0.92	0.73	-2.83
4,114.00	11.45	265.79	4,102.08	17.61	-162.76	118.41	0.33	-0.15	-1.49
4,207.00	11.25	261.00	4,193.26	15.52	-180.93	128.52	1.04	-0.22	-5.15

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Scientific Drilling  
Survey Report



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<b>Well:</b>	3H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 3H 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)	
4,298.00	10.83	258.86	4,282.58	12.48	-198.08	137.26	0.64	-0.46	-2.35	
4,390.00	10.80	259.38	4,372.94	9.22	-215.04	145.70	0.11	-0.03	0.57	
4,484.00	10.69	263.45	4,465.30	6.60	-232.35	154.86	0.82	-0.12	4.33	
4,578.00	11.40	271.78	4,557.56	5.89	-250.30	165.90	1.86	0.76	8.86	
4,669.00	11.13	270.58	4,646.81	6.26	-268.07	177.64	0.39	-0.30	-1.32	
4,762.00	10.70	269.42	4,738.12	6.27	-285.68	188.99	0.52	-0.46	-1.25	
4,856.00	11.11	272.33	4,830.43	6.55	-303.46	200.67	0.73	0.44	3.10	
4,950.00	10.94	272.06	4,922.69	7.23	-321.42	212.78	0.19	-0.18	-0.29	
5,040.00	10.76	268.56	5,011.08	7.33	-338.35	223.77	0.76	-0.20	-3.89	
5,135.00	10.63	268.67	5,104.43	6.90	-355.98	234.81	0.14	-0.14	0.12	
5,227.00	10.31	268.36	5,194.90	6.47	-372.69	245.25	0.35	-0.35	-0.34	
5,319.00	11.31	266.96	5,285.27	5.76	-389.93	255.82	1.12	1.09	-1.52	
5,411.00	11.78	268.23	5,375.41	4.99	-408.33	267.09	0.58	0.51	1.38	
5,502.00	11.52	266.55	5,464.53	4.16	-426.68	278.29	0.47	-0.29	-1.85	
5,596.00	11.30	264.27	5,556.68	2.67	-445.21	289.11	0.53	-0.23	-2.43	
5,688.00	11.19	261.87	5,646.91	0.51	-463.02	298.94	0.52	-0.12	-2.61	
5,749.00	11.08	259.16	5,706.76	-1.43	-474.64	304.94	0.88	-0.18	-4.44	
5,811.00	11.08	259.16	5,767.61	-3.67	-486.34	310.78	0.00	0.00	0.00	
5,843.00	10.54	258.65	5,799.04	-4.83	-492.23	313.69	1.71	-1.69	-1.59	
5,874.00	10.08	258.77	5,829.54	-5.91	-497.67	316.37	1.49	-1.48	0.39	
5,906.00	11.04	261.78	5,861.00	-6.90	-503.45	319.34	3.46	3.00	9.41	
5,938.00	11.57	264.78	5,892.37	-7.63	-509.68	322.80	2.47	1.66	9.38	
5,970.00	11.07	265.46	5,923.75	-8.16	-515.94	326.43	1.62	-1.56	2.13	
6,002.00	10.41	264.89	5,955.19	-8.66	-521.88	329.88	2.09	-2.06	-1.78	
6,034.00	11.26	266.09	5,986.62	-9.13	-527.87	333.38	2.75	2.66		
6,066.00	13.19	266.96	6,017.89	-9.54	-534.64	337.43	6.06	6.03		
6,098.00	14.48	268.14	6,048.96	-9.86	-542.28	342.12	4.13	4.03		
6,129.00	15.42	269.50	6,078.92	-10.02	-550.28	347.15	3.24	3.03		
6,161.00	17.10	271.58	6,109.63	-9.93	-559.23	352.99	5.56	5.25		
6,193.00	18.87	273.25	6,140.07	-9.51	-569.10	359.68	5.76	5.53		
6,224.00	20.33	274.13	6,169.27	-8.84	-579.48	366.89	4.80	4.71		
6,256.00	21.58	274.51	6,199.16	-7.97	-590.89	374.90	3.93	3.91		
6,288.00	24.12	275.38	6,228.64	-6.90	-603.27	383.71	8.01	7.94		
6,320.00	26.54	276.14	6,257.56	-5.52	-616.89	393.54	7.63	7.56		
6,352.00	28.91	276.62	6,285.89	-3.86	-631.68	404.35	7.44	7.41		
6,384.00	30.62	276.94	6,313.66	-1.99	-647.46	415.95	5.37	5.34		
6,416.00	32.50	277.13	6,340.93	0.07	-664.08	428.24	5.88	5.88		
6,448.00	35.15	277.63	6,367.51	2.36	-681.74	441.38	8.33	8.28		
6,479.00	37.84	278.24	6,392.43	4.90	-700.00	455.10	8.76	8.68		
6,511.00	39.73	279.45	6,417.37	7.99	-719.81	470.23	6.36	5.91		
6,543.00	41.38	283.48	6,441.69	12.14	-740.18	486.53	9.67	5.16		
6,575.00	42.90	286.87	6,465.42	17.76	-760.90	504.19	8.55	4.75		
6,607.00	43.27	290.31	6,488.80	24.73	-781.61	522.87	7.43	1.16		
6,639.00	44.39	293.60	6,511.88	33.02	-802.15	542.45	7.93	3.50		

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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)
6,670.00	45.17	296.79	6,533.89	42.32	-821.90	562.30	7.67	2.52	10.29
6,702.00	46.29	299.14	6,556.23	53.07	-842.14	583.56	6.32	3.50	7.34
6,734.00	47.61	300.84	6,578.07	64.76	-862.39	605.55	5.66	4.13	5.31
6,766.00	48.91	302.41	6,599.38	77.28	-882.72	628.23	5.47	4.06	4.91
6,798.00	50.89	304.89	6,619.99	90.85	-903.08	651.73	8.57	6.19	7.75
6,829.00	53.09	305.69	6,639.08	104.96	-923.02	675.37	7.38	7.10	2.58
6,861.00	55.87	307.06	6,657.67	120.41	-943.98	700.70	9.36	8.69	4.28
6,893.00	58.06	308.28	6,675.11	136.80	-965.21	726.92	7.55	6.84	3.81
6,925.00	60.69	309.54	6,691.41	154.10	-986.63	753.95	8.89	8.22	3.94
6,956.00	63.68	310.16	6,705.88	171.67	-1,007.68	780.95	9.81	9.65	2.00
6,988.00	66.89	310.31	6,719.26	190.44	-1,029.87	809.61	10.04	10.03	0.47
7,020.00	70.17	311.82	6,730.97	210.00	-1,052.31	839.03	11.15	10.25	4.72
7,051.00	72.74	312.88	6,740.83	229.80	-1,074.03	868.17	8.90	8.29	3.42
7,083.00	75.48	313.55	6,749.59	250.88	-1,096.46	898.74	8.80	8.56	2.09
7,115.00	77.60	314.74	6,757.03	272.55	-1,118.79	929.70	7.55	6.63	3.72
7,147.00	79.47	316.77	6,763.40	295.01	-1,140.66	960.98	8.53	5.84	6.34
7,179.00	80.25	318.27	6,769.03	318.25	-1,161.94	992.45	5.22	2.44	4.69
7,211.00	79.90	320.62	6,774.55	342.19	-1,182.43	1,023.97	7.32	-1.09	7.34
7,242.00	80.59	322.70	6,779.80	366.15	-1,201.38	1,054.51	6.98	2.23	6.71
7,274.00	82.15	324.48	6,784.60	391.62	-1,220.16	1,086.07	7.35	4.88	5.56
7,306.00	84.00	326.69	6,788.46	417.82	-1,238.11	1,117.68	8.97	5.78	6.91
7,337.00	85.23	328.94	6,791.37	443.94	-1,254.55	1,148.24	8.24	3.97	7.26
7,356.44	86.29	329.69	6,792.81	460.61	-1,264.44	1,167.37	6.65	5.44	3.85
<b>Smith 3H_LP4</b>									
7,369.00	86.97	330.17	6,793.55	471.46	-1,270.72	1,179.71	6.65	5.44	3.84
7,401.00	87.91	330.58	6,794.97	499.25	-1,286.52	1,211.14	3.20	2.94	3.84
7,464.00	90.24	331.25	6,795.99	554.29	-1,317.14	1,272.95	3.85	3.70	1.06
7,528.00	90.67	332.05	6,795.48	610.62	-1,347.53	1,335.60	1.42	0.67	1.25
7,591.00	91.41	332.38	6,794.34	666.34	-1,376.89	1,397.13	1.29	1.17	0.52
7,655.00	91.18	331.11	6,792.89	722.70	-1,407.18	1,459.73	2.02	-0.36	-1.98
7,716.00	91.04	329.28	6,791.71	775.62	-1,437.50	1,519.73	3.01	-0.23	-3.00
7,780.00	91.75	327.89	6,790.15	830.22	-1,470.84	1,582.97	2.44	1.11	-2.17
7,843.00	91.82	327.70	6,788.19	883.50	-1,504.40	1,645.33	0.32	0.11	-0.30
7,907.00	91.68	328.05	6,786.24	937.68	-1,538.42	1,708.68	0.59	-0.22	0.55
7,970.00	92.08	330.71	6,784.17	991.86	-1,570.49	1,770.77	4.27	0.63	4.22
8,034.00	92.96	333.00	6,781.36	1,048.23	-1,600.65	1,833.30	3.83	1.38	3.58
8,098.00	92.25	333.59	6,778.45	1,105.35	-1,629.38	1,895.48	1.44	-1.11	0.92
8,162.00	91.48	332.77	6,776.36	1,162.43	-1,658.24	1,957.73	1.76	-1.20	-1.28
8,225.00	92.01	333.17	6,774.45	1,218.52	-1,686.86	2,019.05	1.05	0.84	0.63
8,289.00	91.78	331.32	6,772.33	1,275.13	-1,716.64	2,081.52	2.91	-0.36	-2.89
8,353.00	91.65	330.10	6,770.41	1,330.92	-1,747.94	2,144.35	1.92	-0.20	-1.91
8,416.00	91.65	329.43	6,768.60	1,385.32	-1,779.65	2,206.38	1.06	0.00	-1.06
8,479.00	91.81	331.86	6,766.70	1,440.21	-1,810.52	2,268.23	3.86	0.25	3.86

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Scientific Drilling  
Survey Report



<b>Company:</b>	Stone Energy	<b>Local Co-ordinate Reference:</b>	Well 3H
<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>	3H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 3H 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)	
8,543.00	91.95	331.35	6,764.60	1,496.48	-1,840.94	2,330.86	0.83	0.22	-0.80	
8,607.00	92.69	331.87	6,762.01	1,552.73	-1,871.34	2,393.46	1.41	1.16	0.81	
8,670.00	91.98	331.31	6,759.44	1,608.10	-1,901.29	2,455.09	1.43	-1.13	-0.89	
8,734.00	91.38	331.22	6,757.56	1,664.19	-1,932.04	2,517.80	0.95	-0.94	-0.14	
8,797.00	92.05	331.53	6,755.68	1,719.47	-1,962.21	2,579.50	1.17	1.06	0.49	
8,861.00	91.41	331.31	6,753.75	1,775.64	-1,992.81	2,642.17	1.06	-1.00	-0.34	
8,925.00	91.01	330.58	6,752.39	1,831.57	-2,023.89	2,704.96	1.30	-0.63	-1.14	
8,989.00	91.78	330.56	6,750.84	1,887.30	-2,055.33	2,767.83	1.20	1.20	-0.03	
9,052.00	91.34	330.02	6,749.12	1,942.00	-2,086.54	2,829.76	1.11	-0.70	-0.86	
9,115.00	90.94	330.87	6,747.87	1,996.79	-2,117.61	2,891.67	1.49	-0.63	1.35	
9,179.00	91.01	331.34	6,746.78	2,052.81	-2,148.53	2,954.43	0.74	0.11	0.73	
9,242.00	91.04	331.21	6,745.65	2,108.05	-2,178.80	3,016.17	0.21	0.05	-0.21	
9,306.00	91.44	331.25	6,744.27	2,164.14	-2,209.60	3,078.90	0.63	0.63	0.06	
9,369.00	90.94	331.73	6,742.96	2,219.48	-2,239.66	3,140.59	1.10	-0.79	0.76	
9,433.00	90.54	332.04	6,742.13	2,275.93	-2,269.82	3,203.18	0.79	-0.63	0.48	
9,497.00	91.72	332.12	6,740.87	2,332.47	-2,299.78	3,265.72	1.85	1.84	0.13	
9,560.00	92.42	332.73	6,738.59	2,388.27	-2,328.92	3,327.16	1.47	1.11	0.97	
9,624.00	92.86	332.44	6,735.65	2,445.02	-2,358.36	3,389.52	0.82	0.69	-0.45	
9,687.00	91.95	332.38	6,733.00	2,500.81	-2,387.51	3,450.96	1.45	-1.44	-0.10	
9,750.00	91.58	332.13	6,731.06	2,556.54	-2,416.83	3,512.46	0.71	-0.59	0.55	
9,814.00	92.36	332.48	6,728.86	2,613.17	-2,446.55	3,574.92	1.34	1.22	-0.55	
9,877.00	91.95	331.74	6,726.49	2,668.82	-2,476.00	3,636.44	1.34	-0.65	-1.17	
9,941.00	91.41	330.76	6,724.62	2,724.90	-2,506.77	3,699.15	1.75	-0.84	-0.84	
10,004.00	90.37	330.93	6,723.64	2,779.91	-2,537.46	3,760.98	1.67	-1.65	0.27	
10,067.00	90.07	331.19	6,723.40	2,835.05	-2,567.94	3,822.78	0.63	-0.48	0.41	
10,131.00	90.40	331.59	6,723.13	2,891.23	-2,598.59	3,885.48	0.81	0.52	0.63	
10,194.00	90.64	331.18	6,722.56	2,946.53	-2,628.76	3,947.21	0.75	0.38	-0.65	
10,255.00	91.04	331.05	6,721.67	2,999.94	-2,658.22	4,007.03	0.69	0.66	-0.21	
10,319.00	91.71	331.53	6,720.13	3,056.05	-2,688.96	4,069.74	1.29	1.05	0.75	
10,382.00	92.49	331.63	6,717.82	3,111.42	-2,718.92	4,131.38	1.25	1.24	0.16	
10,446.00	92.38	331.33	6,715.10	3,167.61	-2,749.45	4,194.01	0.50	-0.17	-0.47	
10,510.00	92.96	330.38	6,712.12	3,223.44	-2,780.59	4,256.76	1.74	0.91	-1.48	
10,573.00	92.42	331.06	6,709.17	3,278.33	-2,811.36	4,318.56	1.38	-0.86	1.08	
10,636.00	91.88	331.37	6,706.80	3,333.51	-2,841.68	4,380.29	0.99	-0.86	0.49	
10,700.00	92.15	330.64	6,704.55	3,389.45	-2,872.68	4,443.04	1.22	0.42	-1.14	
10,724.00	92.55	330.28	6,703.57	3,410.31	-2,884.51	4,466.61	2.24	1.67	-1.50	
<b>Last SDI MWD Survey</b>										
10,778.74	92.55	330.28	6,701.13	3,457.80	-2,911.61	4,520.39	0.00	0.00	0.00	
<b>Smith 3H_BHL3</b>										
10,782.00	92.55	330.28	6,700.99	3,460.64	-2,913.23	4,523.59	0.00	0.00	0.00	
<b>Projection to Bit</b>										

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<b>Well:</b>	3H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Smith 3H As Drilled	<b>Database:</b>	Northeast District

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
103.00	103.00	-0.10	0.09	First Vaughn Gyro Survey
2,571.00	2,570.95	8.62	-6.84	Last Vaughn Gyro Survey
2,632.01	2,631.95	9.14	-6.83	First SDI MWD Survey
10,724.00	6,703.57	3,410.31	-2,884.51	Last SDI MWD Survey
10,782.00	6,700.99	3,460.64	-2,913.23	Projection to Bit

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

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