



Stone Energy

Mary Prospect
Smith Pad
2H

OH

Design: Smith 2H As Drilled

Standard Survey Report

28 July, 2014



www.scientificdrilling.com

06/02/2017



Project: Mary Prospect
 Site: Smith Pad
 Well: 2H
 Wellbore: OH
 Design: Smith 2H As Drilled



WELL DETAILS: 2H

+N/-S	+E/-W	Northing	Ground Level: Easting	1321.00	Latitude	Longitude
0.00	0.00	420232.00	1630826.00	39° 38' 46.980 N	80° 48' 39.831 W	

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well 2H, 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

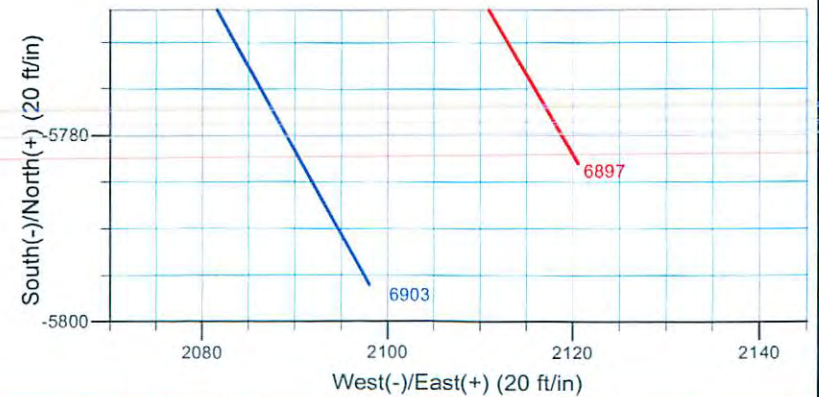
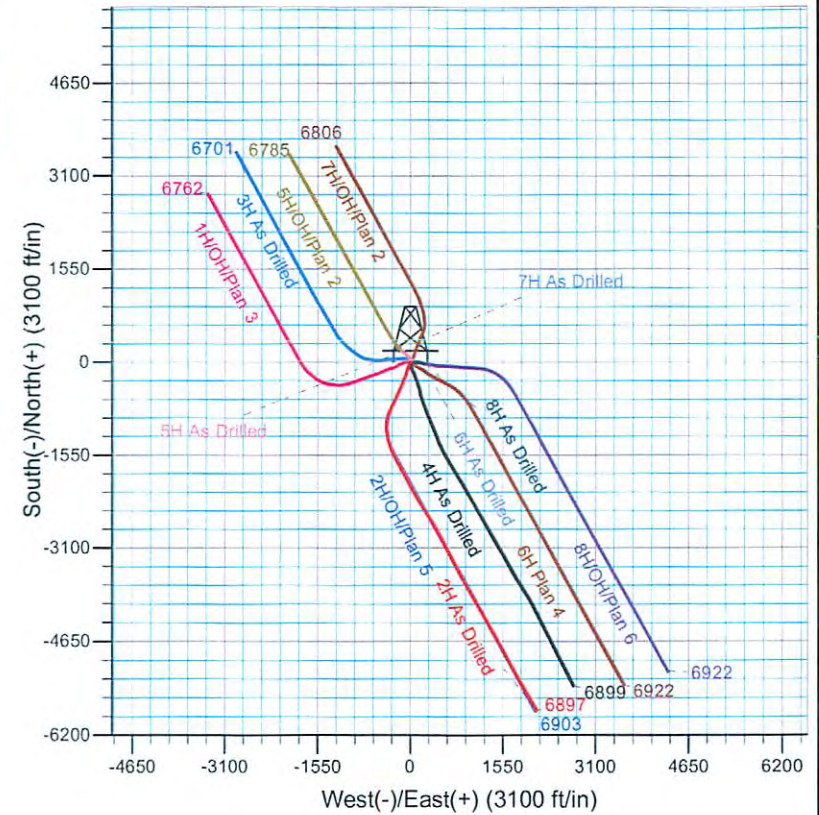
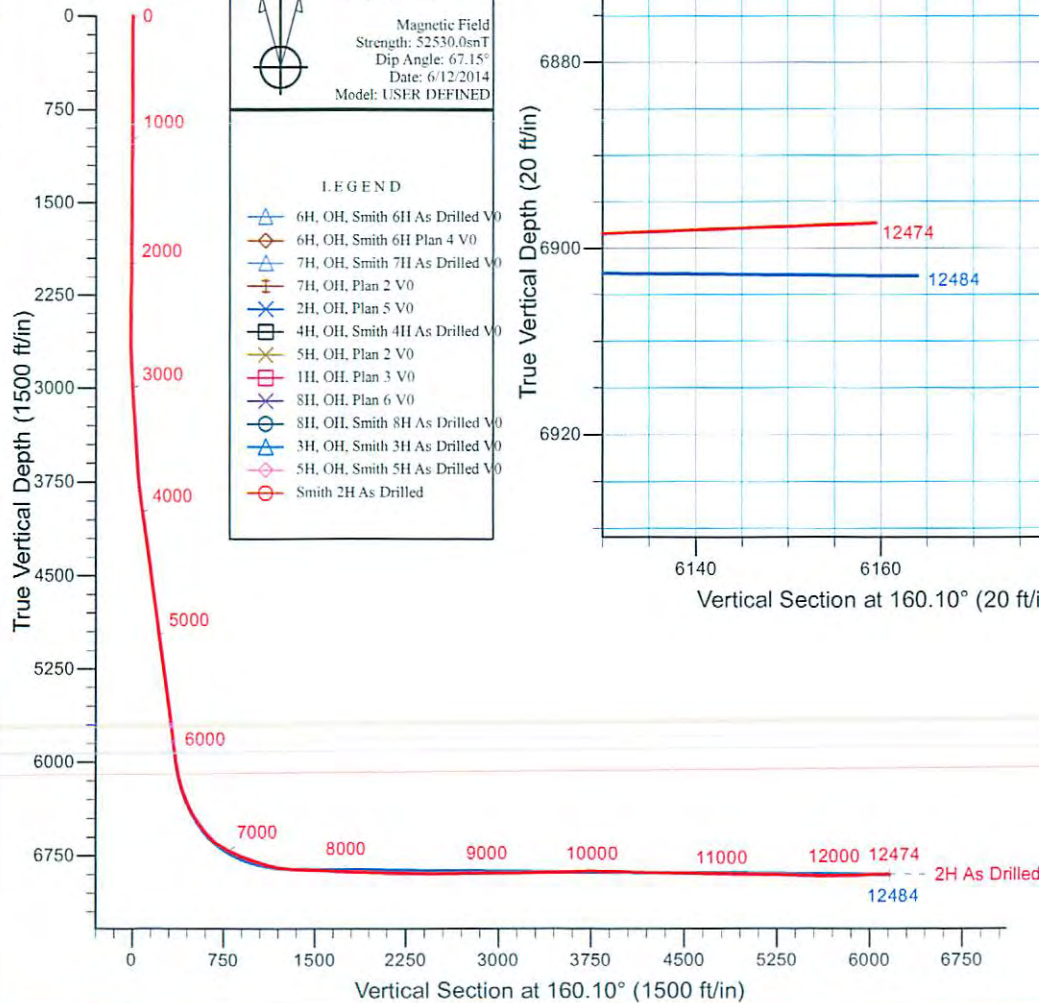
Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: West Virginia North 4701
 System Datum: Mean Sea Level

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	IFace	VSeet	Target
1	5914.00	10.02	203.96	5877.23	-421.31	-167.60	0.00	0.00	339.11	
2	6029.20	10.02	203.96	5990.67	-439.63	-175.74	0.00	0.00	353.56	
3	6789.37	55.22	205.58	6614.46	-800.56	-346.36	5.95	1.87	634.88	
4	7555.02	89.50	151.00	6860.00	-1485.50	-291.20	8.00	-68.36	1297.70	Smith 2H_LP3
5	12483.57	89.50	151.00	6903.01	-5796.01	2098.00	0.00	0.00	6164.04	Smith 2H_BHL3

Azimuths to Grid North
 True North: 0.84°
 Magnetic North: -6.74°

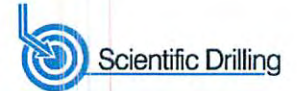
Magnetic Field
 Strength: 52530.0snT
 Dip Angle: 67.15°
 Date: 6/12/2014
 Model: USER DEFINED

- 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, Plan 5 V0
 - 4H, OH, Smith 4H As Drilled V0
 - × 5H, OH, Plan 2 V0
 - 11L, OH, Plan 3 V0
 - × 8H, OH, Plan 6 V0
 - 8H, OH, Smith 8H As Drilled V0
 - △ 3H, OH, Smith 3H As Drilled V0
 - ◇ 5H, OH, Smith 5H As Drilled V0
 - Smith 2H As Drilled





Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 2H
Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Smith 2H 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	Smith Pad				
Site Position:		Northing:	420,251.00 usft	Latitude:	39° 38' 47.168 N
From:	Map	Easting:	1,630,827.00 usft	Longitude:	80° 48' 39.822 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.84 °

Well	2H					
Well Position	+N/-S	0.00 ft	Northing:	420,232.00 usft	Latitude:	39° 38' 46.980 N
	+E/-W	0.00 ft	Easting:	1,630,826.00 usft	Longitude:	80° 48' 39.831 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	1,321.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	8/21/2013	-8.54	67.20	52,536
	BGGM2013	11/4/2013	-8.55	67.18	52,510
	BGGM2014	6/11/2014	-8.52	67.15	52,439
	User Defined	6/12/2014	-7.58	67.15	52,530

Design	Smith 2H 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	160.10	

Survey Program	Date	7/28/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
103.00	2,585.01	Survey 1 - Vaughn Gyro (OH)	VES GyroFlex		
2,585.01	12,474.00	Survey 2 - SDI MWD (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	
103.00	0.30	46.65	103.00	0.19	0.20	-0.11	0.29	0.29	0.00	
First Vaughn Gyro Survey										
203.00	0.17	40.43	203.00	0.48	0.48	-0.28	0.13	-0.13	-6.22	
303.00	0.18	35.57	303.00	0.72	0.67	-0.45	0.02	0.01	-4.86	
403.00	0.13	35.10	403.00	0.94	0.83	-0.60	0.05	-0.05	-0.47	

Company:	Stone Energy	Local Co-ordinate Reference:	Well 2H
Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Smith 2H 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)	
503.00	0.15	32.17	503.00	1.14	0.96	-0.75	0.02	0.02	-2.93	
603.00	0.16	35.93	603.00	1.37	1.11	-0.91	0.01	0.01	3.76	
703.00	0.05	34.48	703.00	1.52	1.22	-1.01	0.11	-0.11	-1.45	
803.00	0.04	17.78	803.00	1.58	1.26	-1.06	0.02	-0.01	-16.70	
903.00	0.31	346.02	903.00	1.88	1.20	-1.36	0.28	0.27	-31.76	
1,003.00	0.17	336.78	1,003.00	2.28	1.08	-1.78	0.14	-0.14	-9.24	
1,103.00	0.30	333.91	1,103.00	2.65	0.90	-2.19	0.13	0.13	-2.87	
1,203.00	0.24	283.89	1,203.00	2.94	0.58	-2.56	0.23	-0.06	-50.02	
1,303.00	0.32	282.16	1,303.00	3.05	0.11	-2.83	0.08	0.08	-1.73	
1,403.00	0.39	290.76	1,402.99	3.22	-0.48	-3.20	0.09	0.07	8.60	
1,503.00	0.29	289.73	1,502.99	3.43	-1.04	-3.58	0.10	-0.10	-1.03	
1,603.00	0.32	286.54	1,602.99	3.60	-1.55	-3.91	0.03	0.03	-3.19	
1,703.00	0.33	312.87	1,702.99	3.87	-2.02	-4.33	0.15	0.01	26.33	
1,803.00	0.39	315.53	1,802.99	4.31	-2.47	-4.89	0.06	0.06	2.66	
1,903.00	0.36	317.53	1,902.99	4.78	-2.92	-5.49	0.03	-0.03	2.00	
2,003.00	0.44	346.29	2,002.98	5.39	-3.23	-6.17	0.21	0.08	28.76	
2,103.00	0.60	343.66	2,102.98	6.26	-3.47	-7.07	0.16	0.16	-2.63	
2,203.00	0.58	1.79	2,202.97	7.27	-3.60	-8.06	0.19	-0.02	18.13	
2,303.00	0.81	6.14	2,302.97	8.48	-3.51	-9.17	0.24	0.23	4.35	
2,403.00	0.56	12.92	2,402.96	9.66	-3.32	-10.21	0.26	-0.25	6.78	
2,503.01	0.56	23.93	2,502.96	10.58	-3.01	-10.98	0.11	0.00	11.01	
2,585.01	0.71	25.03	2,584.95	11.41	-2.64	-11.63	0.18	0.18	1.34	
Last Vaughn Gyro Survey										
2,680.00	1.04	206.35	2,679.94	11.17	-2.77	-11.45	1.84	0.35	-188.09	
First SDI MWD Survey										
2,770.99	4.31	208.45	2,770.82	7.42	-4.77	-8.60	3.59	3.59	2.31	
2,864.99	4.67	205.24	2,864.53	0.86	-8.08	-3.56	0.47	0.38	-3.41	
2,956.99	4.44	199.64	2,956.24	-5.88	-10.87	1.83	0.54	-0.25	-6.09	
3,048.99	5.32	207.29	3,047.91	-13.03	-14.03	7.48	1.19	0.96	8.32	
3,141.99	5.24	207.23	3,140.51	-20.64	-17.95	13.30	0.09	-0.09	-0.06	
3,231.99	4.83	201.96	3,230.17	-27.80	-21.24	18.91	0.69	-0.46	-5.86	
3,324.99	4.45	197.12	3,322.86	-34.88	-23.77	24.71	0.59	-0.41	-5.20	
3,416.99	4.26	192.91	3,414.60	-41.63	-25.58	30.43	0.40	-0.21	-4.58	
3,510.99	5.19	207.78	3,508.28	-48.79	-28.35	36.23	1.63	0.99	15.82	
3,603.99	5.06	205.34	3,600.91	-56.22	-32.06	41.95	0.27	-0.14	-2.62	
3,695.99	6.10	203.07	3,692.47	-64.38	-35.71	48.38	1.16	1.13	-2.47	
3,788.99	8.04	196.32	3,784.76	-75.17	-39.48	57.25	2.27	2.09	-7.26	
3,883.99	9.82	194.47	3,878.61	-89.39	-43.37	69.30	1.90	1.87	-1.95	
3,975.99	9.63	194.80	3,969.28	-104.43	-47.29	82.10	0.22	-0.21	0.36	
4,065.99	10.29	197.42	4,057.93	-119.38	-51.62	94.68	0.89	0.73	2.91	
4,159.99	10.17	197.18	4,150.43	-135.32	-56.59	107.98	0.14	-0.13	-0.26	
4,251.99	9.55	192.62	4,241.07	-150.52	-60.66	120.89	1.08	-0.67	-4.96	
4,343.99	9.31	198.49	4,331.83	-165.03	-64.68	133.16	1.08	-0.26	6.38	
4,433.99	10.03	201.28	4,420.55	-179.24	-69.84	144.77	0.95	0.80	3.10	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Smith 2H As Drilled	Database:	Northeast District

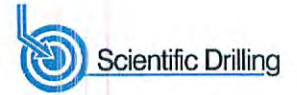
Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,525.99	10.59	206.05	4,511.07	-194.30	-76.46	156.67	1.11	0.61	5.18	
4,618.99	10.01	204.70	4,602.57	-209.32	-83.59	168.37	0.68	-0.62	-1.45	
4,711.99	9.57	199.74	4,694.22	-223.94	-89.58	180.08	1.02	-0.47	-5.33	
4,803.99	9.33	195.10	4,784.97	-238.34	-94.10	192.08	0.87	-0.26	-5.04	
4,898.99	9.98	199.86	4,878.63	-253.51	-98.90	204.72	1.08	0.68	5.01	
4,989.99	10.43	204.43	4,968.19	-268.43	-104.99	216.67	1.02	0.49	5.02	
5,082.99	10.47	204.10	5,059.65	-283.81	-111.92	228.77	0.08	0.04	-0.35	
5,175.99	10.24	199.04	5,151.13	-299.34	-118.07	241.28	1.01	-0.25	-5.44	
5,267.99	9.98	194.74	5,241.71	-314.78	-122.77	254.20	0.87	-0.28	-4.67	
5,359.99	10.19	198.40	5,332.29	-330.21	-127.36	267.14	0.73	0.23	3.98	
5,451.99	10.64	206.76	5,422.77	-345.52	-133.76	279.36	1.71	0.49	9.09	
5,543.99	10.70	207.42	5,513.18	-360.68	-141.51	290.98	0.15	0.07	0.72	
5,635.99	10.73	203.98	5,603.58	-376.09	-148.93	302.94	0.70	0.03	-3.74	
5,728.99	10.60	197.44	5,694.98	-392.16	-155.01	315.98	1.31	-0.14	-7.03	
5,821.99	9.77	205.18	5,786.52	-407.46	-160.93	328.36	1.72	-0.89	8.32	
5,851.99	9.60	206.28	5,816.09	-412.01	-163.12	331.89	0.84	-0.57	3.67	
5,896.00	9.45	205.82	5,859.49	-418.55	-166.32	336.95	0.38	-0.34	-1.05	
5,928.00	10.47	202.66	5,891.01	-423.60	-168.58	340.93	3.62	3.19	-9.88	
5,959.00	10.94	202.21	5,921.47	-428.92	-170.78	345.18	1.54	1.52	-1.45	
5,991.00	10.52	201.80	5,952.91	-434.44	-173.01	349.62	1.33	-1.31	-1.28	
6,023.00	10.59	201.77	5,984.37	-439.89	-175.19	354.00	0.22	0.22	-0.09	
6,055.00	12.38	203.96	6,015.73	-445.75	-177.67	358.67	5.76	5.59	6.84	
6,087.00	14.08	205.70	6,046.88	-452.40	-180.75	363.86	5.46	5.31	5.44	
6,119.00	15.99	206.30	6,077.78	-459.85	-184.40	369.64	5.99	5.97	1.88	
6,149.00	17.47	206.17	6,106.51	-467.60	-188.21	375.62	4.93	4.93	-0.43	
6,179.00	19.06	207.10	6,135.00	-476.00	-192.43	382.09	5.39	5.30	3.10	
6,209.00	20.63	207.68	6,163.21	-485.05	-197.12	388.99	5.27	5.23	1.93	
6,239.00	22.52	207.13	6,191.11	-494.84	-202.19	396.48	6.34	6.30	-1.83	
6,269.00	24.28	206.66	6,218.64	-505.47	-207.58	404.63	5.90	5.87	-1.57	
6,299.00	26.72	205.73	6,245.72	-517.05	-213.28	413.59	8.24	8.13	-3.10	
6,330.00	28.73	204.36	6,273.16	-530.12	-219.38	423.80	6.80	6.48	-4.42	
6,360.00	30.67	204.06	6,299.22	-543.68	-225.47	434.48	6.49	6.47	-1.00	
6,390.00	32.29	203.83	6,324.80	-558.00	-231.83	445.78	5.41	5.40	-0.77	
6,421.00	34.11	203.71	6,350.74	-573.53	-238.67	458.05	5.87	5.87	-0.39	
6,451.00	36.22	203.67	6,375.26	-589.35	-245.61	470.57	7.03	7.03	-0.13	
6,481.00	38.25	203.93	6,399.14	-605.96	-252.94	483.69	6.79	6.77	0.87	
6,511.00	40.27	204.36	6,422.37	-623.28	-260.70	497.33	6.79	6.73	1.43	
6,542.00	41.82	204.28	6,445.75	-641.83	-269.09	511.92	5.00	5.00	-0.26	
6,572.00	43.24	204.90	6,467.86	-660.27	-277.53	526.39	4.94	4.73	2.07	
6,602.00	44.97	204.77	6,489.40	-679.22	-286.29	541.22	5.77	5.77	-0.43	
6,632.00	46.43	203.97	6,510.35	-698.77	-295.15	556.60	5.23	4.87	-2.67	
6,662.00	47.07	204.78	6,530.91	-718.68	-304.17	572.24	2.90	2.13	2.70	
6,692.00	48.50	204.60	6,551.06	-738.86	-313.45	588.06	4.79	4.77	-0.60	

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Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
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Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Smith 2H 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)	
6,723.00	51.11	204.73	6,571.07	-760.38	-323.33	604.93	8.43	8.42	0.42	
6,753.00	52.77	204.28	6,589.56	-781.87	-333.13	621.81	5.66	5.53	-1.50	
6,783.00	54.04	201.61	6,607.45	-804.05	-342.51	639.47	8.30	4.23	-8.90	
6,813.00	55.67	199.35	6,624.72	-827.03	-351.09	658.16	8.21	5.43	-7.53	
6,844.00	57.89	196.75	6,641.71	-851.69	-359.12	678.61	10.02	7.16	-8.39	
6,874.00	60.20	194.62	6,657.14	-876.45	-366.06	699.53	9.82	7.70	-7.10	
6,904.00	61.61	193.04	6,671.72	-901.91	-372.33	721.33	6.58	4.70	-5.27	
6,935.00	63.13	192.23	6,686.10	-928.71	-378.33	744.49	5.42	4.90	-2.61	
6,965.00	64.49	191.15	6,699.34	-955.07	-383.79	767.42	5.57	4.53	-3.60	
6,997.00	66.61	189.41	6,712.59	-983.73	-388.98	792.60	8.27	6.63	-5.44	
7,027.00	67.23	187.77	6,724.35	-1,011.01	-393.10	816.85	5.44	2.07	-5.47	
7,059.00	68.82	185.30	6,736.32	-1,040.49	-396.48	843.43	8.71	4.97	-7.72	
7,091.00	70.05	182.72	6,747.56	-1,070.38	-398.57	870.81	8.47	3.84	-8.06	
7,122.00	70.60	179.55	6,758.00	-1,099.56	-399.14	898.05	9.79	1.77	-10.23	
7,154.00	70.78	176.54	6,768.59	-1,129.73	-398.11	926.78	8.89	0.56	-9.41	
7,186.00	70.32	174.04	6,779.25	-1,159.80	-395.64	955.90	7.51	-1.44	-7.81	
7,218.00	70.64	171.78	6,789.94	-1,189.73	-391.91	985.31	6.73	1.00	-7.06	
7,249.00	71.85	169.47	6,799.91	-1,218.69	-387.13	1,014.16	8.06	3.90	-7.45	
7,281.00	73.39	167.99	6,809.47	-1,248.64	-381.16	1,044.35	6.53	4.81	-4.63	
7,313.00	73.84	166.54	6,818.49	-1,278.58	-374.39	1,074.81	4.57	1.41	-4.53	
7,345.00	74.80	164.70	6,827.14	-1,308.42	-366.74	1,105.48	6.30	3.00	-5.75	
7,377.00	76.65	163.52	6,835.03	-1,338.25	-358.25	1,136.41	6.80	5.78	-3.69	
7,408.00	78.46	162.33	6,841.71	-1,367.18	-349.36	1,166.65	6.94	5.84	-3.84	
7,440.00	79.96	161.49	6,847.70	-1,397.06	-339.60	1,198.06	5.40	4.75	-2.63	
7,472.00	82.12	160.37	6,852.68	-1,426.94	-329.27	1,229.67	7.53	6.69	-3.50	
7,504.00	84.05	158.91	6,856.53	-1,456.72	-318.22	1,261.43	7.54	6.03	-4.56	
7,534.00	85.47	156.45	6,859.27	-1,484.35	-306.87	1,291.28	9.44	4.73	-8.20	
7,541.59	85.89	156.00	6,859.84	-1,491.27	-303.83	1,298.82	8.03	5.48	-5.89	
Smith 2H_LP3										
7,567.00	87.28	154.51	6,861.36	-1,514.31	-293.21	1,324.10	8.03	5.49	-5.88	
7,599.00	87.58	153.04	6,862.79	-1,542.99	-279.08	1,355.87	4.68	0.94	-4.59	
7,663.00	87.68	151.56	6,865.44	-1,599.60	-249.36	1,419.23	2.32	0.16	-2.31	
7,726.00	87.21	151.84	6,868.25	-1,655.02	-219.52	1,481.49	0.87	-0.75	0.44	
7,790.00	87.24	151.93	6,871.34	-1,711.40	-189.40	1,544.76	0.15	0.05	0.14	
7,853.00	87.38	151.73	6,874.30	-1,766.88	-159.69	1,607.03	0.39	0.22	-0.32	
7,916.00	87.75	151.91	6,876.98	-1,822.36	-129.96	1,669.32	0.65	0.59	0.29	
7,979.00	87.75	151.69	6,879.45	-1,877.84	-100.21	1,731.61	0.35	0.00	-0.35	
8,042.00	87.71	150.99	6,881.95	-1,933.08	-70.02	1,793.83	1.11	-0.06	-1.11	
8,106.00	87.75	151.06	6,884.48	-1,989.02	-39.04	1,856.98	0.13	0.06	0.11	
8,170.00	88.32	151.13	6,886.68	-2,045.01	-8.13	1,920.15	0.90	0.89	0.11	
8,233.00	88.96	151.08	6,888.17	-2,100.16	22.31	1,982.36	1.02	1.02	-0.08	
8,297.00	89.46	151.31	6,889.05	-2,156.23	53.14	2,045.58	0.86	0.78	0.36	
8,361.00	89.02	150.35	6,889.90	-2,212.11	84.33	2,108.74	1.65	-0.69	-1.50	
8,423.00	88.39	149.20	6,891.30	-2,265.67	115.53	2,169.72	2.11	-1.02	-1.85	



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 2H
Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Smith 2H 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)	
8,486.00	88.46	148.39	6,893.04	-2,319.53	148.16	2,231.47	1.29	0.11	-1.29	
8,550.00	88.79	148.25	6,894.57	-2,373.98	181.76	2,294.10	0.56	0.52	-0.22	
8,613.00	88.96	147.76	6,895.81	-2,427.40	215.14	2,355.69	0.82	0.27	-0.78	
8,677.00	89.33	147.94	6,896.76	-2,481.58	249.19	2,418.23	0.64	0.58	0.28	
8,740.00	90.91	147.89	6,896.63	-2,534.95	282.65	2,479.81	2.51	2.51	-0.08	
8,803.00	90.94	146.77	6,895.61	-2,587.98	316.65	2,541.24	1.78	0.05	-1.78	
8,867.00	90.17	146.77	6,894.99	-2,641.51	351.72	2,603.51	1.20	-1.20	0.00	
8,930.00	90.84	149.66	6,894.44	-2,695.05	384.90	2,665.15	4.71	1.06	4.59	
8,994.00	91.11	149.81	6,893.35	-2,750.32	417.15	2,728.10	0.48	0.42	0.23	
9,057.00	91.28	150.74	6,892.04	-2,805.02	448.39	2,790.16	1.50	0.27	1.48	
9,121.00	91.51	151.47	6,890.46	-2,861.03	479.30	2,853.35	1.20	0.36	1.14	
9,184.00	91.07	152.07	6,889.06	-2,916.53	509.09	2,915.67	1.18	-0.70	0.95	
9,248.00	88.45	151.71	6,889.33	-2,972.97	539.24	2,979.01	4.13	-4.09	-0.56	
9,311.00	89.53	152.51	6,890.44	-3,028.64	568.71	3,041.39	2.13	1.71	1.27	
9,374.00	90.24	152.88	6,890.56	-3,084.62	597.61	3,103.86	1.27	1.13	0.59	
9,438.00	91.51	153.97	6,889.59	-3,141.85	626.24	3,167.42	2.61	1.98	1.70	
9,502.00	91.08	152.91	6,888.14	-3,199.08	654.85	3,230.97	1.79	-0.67	-1.66	
9,566.00	91.44	152.76	6,886.73	-3,256.01	684.06	3,294.44	0.61	0.56	-0.23	
9,629.00	90.64	151.40	6,885.59	-3,311.67	713.55	3,356.81	2.50	-1.27	-2.16	
9,693.00	91.78	151.49	6,884.24	-3,367.87	744.14	3,420.06	1.79	1.78	0.14	
9,756.00	91.98	151.19	6,882.17	-3,423.12	774.33	3,482.30	0.57	0.32	-0.48	
9,820.00	92.02	150.91	6,879.94	-3,479.09	805.29	3,545.46	0.44	0.06	-0.44	
9,884.00	92.18	151.04	6,877.59	-3,535.01	836.33	3,608.61	0.32	0.25	0.20	
9,948.00	92.62	151.45	6,874.91	-3,591.07	867.09	3,671.79	0.94	0.69	0.64	
10,011.00	90.47	151.07	6,873.21	-3,646.29	897.37	3,734.01	3.47	-3.41	-0.60	
10,074.00	88.66	150.94	6,873.69	-3,701.39	927.90	3,796.22	2.88	-2.87	-0.21	
10,138.00	88.72	150.83	6,875.16	-3,757.29	959.04	3,859.37	0.20	0.09	-0.17	
10,202.00	88.22	150.07	6,876.86	-3,812.94	990.59	3,922.45	1.42	-0.78	-1.19	
10,266.00	88.05	149.75	6,878.95	-3,868.29	1,022.66	3,985.40	0.57	-0.27	-0.50	
10,329.00	88.19	149.50	6,881.01	-3,922.61	1,054.50	4,047.32	0.45	0.22	-0.40	
10,393.00	88.56	149.17	6,882.83	-3,977.64	1,087.12	4,110.17	0.77	0.58	-0.52	
10,457.00	88.56	148.60	6,884.44	-4,032.41	1,120.19	4,172.92	0.89	0.00	-0.89	
10,521.00	88.89	148.87	6,885.86	-4,087.10	1,153.39	4,235.65	0.67	0.52	0.42	
10,584.00	88.59	149.72	6,887.25	-4,141.26	1,185.55	4,297.52	1.43	-0.48	1.35	
10,648.00	88.42	150.72	6,888.92	-4,196.79	1,217.33	4,360.55	1.58	-0.27	1.56	
10,712.00	88.62	150.22	6,890.57	-4,252.45	1,248.86	4,423.63	0.84	0.31	-0.78	
10,775.00	88.79	150.38	6,891.99	-4,307.16	1,280.07	4,485.69	0.37	0.27	0.25	
10,840.00	89.03	150.44	6,893.23	-4,363.68	1,312.16	4,549.75	0.38	0.37	0.09	
10,903.00	89.29	150.34	6,894.15	-4,418.44	1,343.28	4,611.84	0.44	0.41	-0.16	
10,966.00	88.49	150.26	6,895.37	-4,473.16	1,374.49	4,673.91	1.28	-1.27	-0.13	
11,030.00	88.22	150.52	6,897.21	-4,528.78	1,406.10	4,736.97	0.59	-0.42	0.41	
11,093.00	88.69	150.69	6,898.91	-4,583.64	1,437.01	4,799.08	0.79	0.75	0.27	
11,157.00	89.60	151.43	6,899.86	-4,639.65	1,467.98	4,862.28	1.83	1.42	1.16	



Scientific Drilling
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well 2H
Project:	Mary Prospect	TVD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Site:	Smith Pad	MD Reference:	GL 1321' & KB 18' @ 1339.00ft (Saxon 141)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Smith 2H 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)
11,221.00	90.27	151.70	6,899.94	-4,695.92	1,498.45	4,925.57	1.13	1.05	0.42
11,284.00	90.70	151.91	6,899.40	-4,751.45	1,528.22	4,987.91	0.76	0.68	0.33
11,348.00	89.33	151.32	6,899.39	-4,807.75	1,558.64	5,051.20	2.33	-2.14	-0.92
11,411.00	88.99	151.02	6,900.31	-4,862.94	1,589.02	5,113.43	0.72	-0.54	-0.48
11,475.00	88.25	150.65	6,901.85	-4,918.81	1,620.20	5,176.58	1.29	-1.16	-0.58
11,539.00	87.95	150.48	6,903.97	-4,974.51	1,651.63	5,239.66	0.54	-0.47	-0.27
11,603.00	88.35	150.78	6,906.04	-5,030.26	1,683.00	5,302.75	0.78	0.63	0.47
11,666.00	88.79	150.59	6,907.61	-5,085.17	1,713.84	5,364.89	0.76	0.70	-0.30
11,730.00	89.06	151.06	6,908.81	-5,141.04	1,745.03	5,428.04	0.85	0.42	0.73
11,794.00	89.29	151.28	6,909.73	-5,197.11	1,775.89	5,491.25	0.50	0.36	0.34
11,857.00	89.33	150.53	6,910.49	-5,252.15	1,806.52	5,553.44	1.19	0.06	-1.19
11,921.00	90.10	150.16	6,910.81	-5,307.77	1,838.19	5,616.51	1.33	1.20	-0.58
11,984.00	90.47	149.37	6,910.50	-5,362.20	1,869.91	5,678.49	1.38	0.59	-1.25
12,048.00	90.77	149.10	6,909.81	-5,417.19	1,902.65	5,741.34	0.63	0.47	-0.42
12,112.00	91.14	149.03	6,908.74	-5,472.07	1,935.54	5,804.15	0.59	0.58	-0.11
12,175.00	91.31	149.03	6,907.39	-5,526.08	1,967.95	5,865.96	0.27	0.27	0.00
12,239.00	91.85	149.02	6,905.63	-5,580.93	2,000.88	5,928.74	0.84	0.84	-0.02
12,302.00	92.18	148.85	6,903.41	-5,634.86	2,033.37	5,990.51	0.59	0.52	-0.27
12,365.00	91.81	149.67	6,901.22	-5,688.98	2,065.55	6,052.35	1.43	-0.59	1.30
12,416.00	92.15	149.66	6,899.46	-5,732.97	2,091.29	6,102.48	0.67	0.67	-0.02
Last SDI MWD Survey									
12,473.63	92.15	149.66	6,897.30	-5,782.67	2,120.38	6,159.11	0.00	0.00	0.00
Smith 2H_BHL3									
12,474.00	92.15	149.66	6,897.28	-5,782.99	2,120.57	6,159.48	0.00	0.00	0.00
Projection to Bit									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
103.00	103.00	0.19	0.20	First Vaughn Gyro Survey
2,585.01	2,584.95	11.41	-2.64	Last Vaughn Gyro Survey
2,680.00	2,679.94	11.17	-2.77	First SDI MWD Survey
12,416.00	6,899.46	-5,732.97	2,091.29	Last SDI MWD Survey
12,474.00	6,897.28	-5,782.99	2,120.57	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____