

Job Number: 23D1211254
Company: Stone Energy
Lease/Well: Maury et al Unit 1 #3H
Location: Maury Pad
Rig Name: Saxon 141
RKB: 18
G.L. or M.S.L.: 734
State/Country: West Virginia
Declination: -8.43
Grid: 0.82
File name: D:\WINSERVE\JOBS\W1#3H.SVY
Date/Time: 12-Jan-12 / 06:27
Curve Name: Maury #3H As Drilled

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
 Vertical Section Plane 162.64
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108.00	.27	12.16	108.00	.25	.05	-.22	.25	12.16	.25
208.00	.27	121.97	208.00	.35	.30	-.25	.47	40.55	.44
308.00	.20	98.74	308.00	.20	.68	.01	.71	73.27	.12
408.00	.06	151.95	408.00	.13	.87	.14	.88	81.50	.17
508.00	.11	199.24	508.00	-.01	.87	.26	.87	90.43	.08
608.00	.21	291.47	608.00	-.03	.66	.23	.66	92.59	.24
708.00	.33	332.27	708.00	.29	.36	-.17	.46	50.88	.22
808.00	.38	40.78	807.99	.80	.44	-.63	.91	28.96	.40
908.00	.56	74.79	907.99	1.18	1.13	-.79	1.63	43.82	.32
1008.00	.24	111.28	1007.99	1.23	1.80	-.64	2.18	55.61	.39
1108.00	.15	127.31	1107.99	1.07	2.10	-.40	2.35	62.86	.10
1208.00	.06	60.21	1207.99	1.02	2.25	-.30	2.47	65.55	.14

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE			Dogleg Severity Deg/100
							Distance FT	Direction Deg		
1308.00	.13	81.58	1307.99	1.06	2.40	-30	2.63	66.13	.08	
1408.00	.31	59.99	1407.99	1.22	2.75	-34	3.01	66.15	.20	
1508.00	.71	92.57	1507.98	1.32	3.60	-19	3.84	69.84	.48	
1608.00	.73	97.56	1607.98	1.21	4.85	.29	5.00	75.99	.07	
1708.00	.53	100.42	1707.97	1.04	5.94	.78	6.03	80.03	.20	
1808.00	.64	91.40	1807.96	.95	6.95	1.17	7.02	82.25	.14	
1908.00	.73	45.41	1907.96	1.38	7.96	1.06	8.08	80.17	.54	
2008.00	.78	341.76	2007.95	2.47	8.21	.09	8.57	73.22	.80	
2108.00	1.13	321.21	2107.94	3.89	7.37	-1.51	8.34	62.20	.48	
2165.31	1.71	319.14	2165.23	4.98	6.46	-2.82	8.16	52.40	1.02	
Gyro MWD										
2224.00	.44	37.21	2223.91	5.82	6.02	-3.76	8.37	46.00	2.85	
Gyro MWD										
2288.00	1.58	119.12	2287.90	5.58	6.94	-3.26	8.91	51.19	2.47	
Gyro MWD										
2352.00	2.73	116.66	2351.85	4.47	9.08	-1.56	10.12	63.78	1.80	
Gyro MWD										
2416.00	2.64	113.14	2415.78	3.21	11.79	.46	12.22	74.79	.29	
Gyro MWD										
2479.00	3.17	107.43	2478.70	2.12	14.79	2.39	14.94	81.86	.96	
Gyro MWD										
2543.00	3.17	110.68	2542.61	.96	18.13	4.49	18.16	86.97	.28	
MWD Surveys										
2581.00	2.88	114.96	2580.55	.19	19.98	5.78	19.98	89.46	.97	
2644.00	2.48	107.89	2643.48	-.90	22.71	7.64	22.73	92.27	.82	
2708.00	2.77	112.50	2707.42	-1.92	25.46	9.43	25.53	94.31	.56	
2771.00	3.34	118.26	2770.33	-3.37	28.48	11.71	28.68	96.74	1.03	
2834.00	3.97	116.88	2833.20	-5.22	32.05	14.55	32.47	99.26	1.01	
2897.00	4.60	114.81	2896.02	-7.27	36.28	17.76	37.01	101.33	1.03	
Bottom Line CK.										
2960.00	4.78	114.76	2958.81	-9.43	40.96	21.22	42.03	102.96	.29	
3024.00	4.58	121.27	3022.60	-11.87	45.57	24.93	47.09	104.60	.89	
3088.00	4.55	126.23	3086.39	-14.70	49.80	28.89	51.92	106.44	.62	
3151.00	4.37	121.58	3149.20	-17.43	53.86	32.71	56.61	107.94	.64	
3215.00	4.31	118.48	3213.02	-19.86	58.05	36.27	61.35	108.88	.38	

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
Bottom Line CK.									
3279.00	5.31	119.33	3276.79	-22.45	62.75	40.15	66.64	109.69	1.57
3342.00	5.14	121.51	3339.53	-25.36	67.69	44.40	72.29	110.54	.41
3406.00	4.20	116.28	3403.32	-27.89	72.24	48.18	77.44	111.11	1.61
3470.00	4.50	114.98	3467.14	-29.99	76.62	51.48	82.28	111.38	.49
3533.00	5.36	115.42	3529.90	-32.30	81.51	55.15	87.68	111.61	1.37
bottom line check									
3597.00	5.26	113.92	3593.63	-34.77	86.90	59.11	93.59	111.81	.27
3661.00	5.14	118.71	3657.36	-37.34	92.09	63.11	99.37	112.07	.70
3725.00	4.99	118.66	3721.11	-40.05	97.05	67.18	104.99	112.42	.23
3788.00	5.15	116.61	3783.87	-42.63	101.98	71.12	110.53	112.69	.38
3852.00	5.06	128.25	3847.62	-45.66	106.77	75.44	116.12	113.16	1.62
Bottom Line CK.									
3916.00	3.63	152.74	3911.44	-49.21	109.91	79.76	120.42	114.12	3.61
3980.00	3.49	144.50	3975.31	-52.60	111.97	83.61	123.71	115.16	.83
4043.00	4.24	133.80	4038.17	-55.77	114.76	87.47	127.60	115.92	1.65
4107.00	4.17	130.29	4102.00	-58.91	118.25	91.51	132.11	116.48	.42
4171.00	4.30	122.87	4165.82	-61.72	122.04	95.32	136.76	116.83	.88
Bottom Line CK.									
4234.00	5.29	118.47	4228.60	-64.39	126.57	99.22	142.01	116.96	1.68
4298.00	5.03	115.10	4292.34	-66.98	131.71	103.23	147.76	116.96	.62
4362.00	4.71	111.28	4356.11	-69.13	136.70	106.77	153.18	116.83	.71
4426.00	5.30	112.63	4419.87	-71.22	141.87	110.31	158.75	116.66	.94
4490.00	5.58	113.54	4483.58	-73.60	147.45	114.24	164.80	116.53	.46
Bottom Line CK.									
4553.00	5.05	117.60	4546.31	-76.11	152.72	118.21	170.63	116.49	1.03
4617.00	4.54	122.01	4610.08	-78.75	157.36	122.12	175.97	116.59	.98
4680.00	4.86	119.78	4672.87	-81.40	161.79	125.97	181.12	116.71	.58
4743.00	5.37	122.12	4735.62	-84.29	166.61	130.17	186.72	116.84	.87
4807.00	5.24	122.69	4799.35	-87.47	171.60	134.68	192.61	117.01	.22
Bottom Line CK.									
4870.00	4.53	122.05	4862.12	-90.34	176.13	138.78	197.95	117.15	1.13
4934.00	4.67	119.99	4925.91	-92.98	180.53	142.61	203.07	117.25	.34
4997.00	5.45	120.79	4988.67	-95.80	185.32	146.73	208.62	117.34	1.24
5061.00	5.18	119.23	5052.39	-98.76	190.46	151.09	214.54	117.41	.48
5107.00	4.72	116.43	5098.22	-100.62	193.96	153.91	218.51	117.42	1.13

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5139.00	5.46	122.47	5130.09	-102.02	196.43	155.98	221.34	117.45	2.85
Bottom Line CK.									
5170.00	6.45	125.77	5160.93	-103.83	199.08	158.50	224.53	117.54	3.38
5202.00	8.20	125.87	5192.66	-106.22	202.39	161.77	228.57	117.69	5.47
5233.00	9.72	128.30	5223.28	-109.14	206.24	165.70	233.33	117.89	5.05
5265.00	10.83	128.65	5254.77	-112.69	210.70	170.43	238.95	118.14	3.47
5296.00	11.20	131.19	5285.20	-116.49	215.24	175.41	244.75	118.42	1.97
5328.00	12.32	136.10	5316.53	-121.00	219.95	181.11	251.04	118.82	4.69
5360.00	13.89	144.41	5347.70	-126.58	224.55	187.82	257.77	119.41	7.65
5391.00	14.99	146.65	5377.72	-132.96	228.92	195.21	264.73	120.15	3.98
5423.00	15.99	147.90	5408.55	-140.15	233.54	203.45	272.37	120.97	3.29
5455.00	17.31	149.38	5439.21	-147.98	238.31	212.34	280.52	121.84	4.33
5485.00	19.33	148.55	5467.69	-156.06	243.17	221.50	288.94	122.69	6.79
5516.00	20.62	148.68	5496.82	-165.10	248.69	231.78	298.50	123.58	4.16
5546.00	21.44	146.96	5524.83	-174.21	254.42	242.18	308.35	124.40	3.42
5577.00	22.00	146.94	5553.63	-183.82	260.68	253.23	318.97	125.19	1.81
Bottom Line CK.									
5608.00	23.03	148.50	5582.26	-193.86	267.02	264.70	329.97	125.98	3.84
5638.00	24.10	149.06	5609.76	-204.12	273.23	276.34	341.06	126.76	3.64
5669.00	25.23	150.37	5637.93	-215.29	279.75	288.95	353.00	127.58	4.05
5700.00	26.77	149.18	5665.79	-227.03	286.60	302.20	365.62	128.38	5.24
5731.00	27.83	146.83	5693.34	-239.08	294.13	315.95	379.04	129.11	4.88
5761.00	28.69	146.35	5719.77	-250.94	301.95	329.60	392.61	129.73	2.97
5792.00	29.61	145.37	5746.84	-263.43	310.43	344.06	407.14	130.32	3.34
5822.00	31.29	146.38	5772.70	-276.02	318.96	358.62	421.81	130.87	5.85
5853.00	32.76	147.71	5798.98	-289.82	327.89	374.45	437.62	131.47	5.26
5884.00	35.11	148.06	5824.70	-304.47	337.09	391.18	454.24	132.09	7.61
5914.00	37.26	148.46	5848.91	-319.54	346.41	408.34	471.28	132.69	7.21
5945.00	38.31	149.74	5873.41	-335.83	356.16	426.80	489.52	133.32	4.23
5976.00	39.07	150.27	5897.61	-352.62	365.85	445.71	508.12	133.95	2.67
6007.00	40.39	149.95	5921.45	-369.80	375.72	465.06	527.18	134.54	4.32
6038.00	42.27	151.17	5944.73	-387.63	385.78	485.08	546.88	135.14	6.59
6068.00	43.51	151.00	5966.70	-405.50	395.65	505.08	566.54	135.70	4.15
6099.00	44.54	151.14	5988.99	-424.35	406.07	526.18	587.34	136.26	3.34

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6130.00	45.84	151.54	6010.84	-443.65	416.62	547.75	608.60	136.80	4.29
6160.00	47.15	151.57	6031.49	-462.78	426.98	569.10	629.67	137.30	4.37
6191.00	48.22	150.69	6052.36	-482.86	438.05	591.56	651.95	137.79	4.04
6222.00	49.04	151.30	6072.85	-503.20	449.33	614.35	674.62	138.24	3.03
6253.00	49.91	152.02	6092.99	-523.94	460.52	637.48	697.56	138.69	3.32
6284.00	51.00	151.93	6112.73	-545.04	471.75	660.97	720.85	139.12	3.52
6315.00	52.31	152.03	6131.96	-566.51	483.17	684.87	744.57	139.54	4.23
6345.00	53.54	152.16	6150.05	-587.66	494.37	708.40	767.95	139.93	4.11
6376.00	54.34	151.86	6168.30	-609.79	506.13	733.03	792.47	140.31	2.70
Bottom Line CK.									
6407.00	54.57	151.60	6186.32	-632.00	518.08	757.79	817.21	140.66	1.01
6438.00	55.58	152.05	6204.07	-654.41	530.08	782.76	842.16	140.99	3.47
6468.00	56.79	151.96	6220.76	-676.41	541.78	807.26	866.64	141.31	4.04
6499.00	57.43	152.29	6237.59	-699.43	553.95	832.85	892.22	141.62	2.25
6529.00	58.91	152.82	6253.42	-722.05	565.70	857.94	917.26	141.92	5.16
6560.00	61.36	153.44	6268.85	-746.02	577.84	884.46	943.64	142.24	8.09
6592.00	63.24	153.94	6283.73	-771.42	590.40	912.44	971.42	142.57	6.04
6624.00	64.60	154.44	6297.79	-797.30	602.91	940.87	999.59	142.90	4.48
6655.00	66.18	155.36	6310.70	-822.82	614.87	968.80	1027.18	143.23	5.77
6687.00	66.92	156.55	6323.44	-849.63	626.83	997.95	1055.83	143.58	4.12
6719.00	68.35	156.66	6335.61	-876.79	638.58	1027.38	1084.68	143.93	4.48
6751.00	70.24	157.34	6346.93	-904.34	650.27	1057.17	1113.86	144.28	6.23
6782.00	72.63	157.17	6356.80	-931.44	661.63	1086.42	1142.51	144.61	7.73
6814.00	74.55	157.99	6365.84	-959.81	673.34	1117.00	1172.44	144.95	6.48
6846.00	76.60	158.16	6373.81	-988.56	684.91	1147.89	1202.65	145.28	6.43
6878.00	77.76	159.76	6380.91	-1017.68	696.11	1179.03	1232.98	145.63	6.08
6909.00	78.76	161.28	6387.22	-1046.30	706.23	1209.36	1262.34	145.98	5.78
6941.00	78.99	163.56	6393.39	-1076.23	715.71	1240.75	1292.48	146.38	7.03
6973.00	79.40	163.65	6399.39	-1106.38	724.59	1272.18	1322.54	146.78	1.31
7005.00	81.18	164.85	6404.79	-1136.74	733.15	1303.71	1352.65	147.18	6.68
7037.00	83.41	166.30	6409.08	-1167.44	741.04	1335.38	1382.78	147.59	8.29
7069.00	84.62	166.74	6412.41	-1198.39	748.46	1367.13	1412.92	148.01	4.02
7133.00	87.71	167.24	6416.69	-1260.60	762.84	1430.79	1473.44	148.82	4.89
7196.00	90.37	168.10	6417.75	-1322.14	776.28	1493.53	1533.19	149.58	4.44

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
Bottom Line CK.									
7260.00	91.08	167.79	6416.94	-1384.72	789.65	1557.25	1594.05	150.31	1.21
7323.00	90.64	167.60	6415.99	-1446.26	803.07	1620.00	1654.27	150.96	.76
7386.00	89.43	167.64	6415.96	-1507.80	816.58	1682.76	1714.72	151.56	1.92
7450.00	88.18	166.98	6417.29	-1570.22	830.64	1746.54	1776.39	152.12	2.21
7513.00	87.98	166.83	6419.40	-1631.55	844.90	1809.33	1837.34	152.62	.40
7577.00	88.32	167.26	6421.47	-1693.88	859.24	1873.10	1899.35	153.10	.86
7641.00	88.09	167.15	6423.47	-1756.26	873.41	1936.87	1961.46	153.56	.40
7705.00	88.73	167.55	6425.25	-1818.69	887.42	2000.63	2023.64	153.99	1.18
7768.00	88.45	168.64	6426.80	-1880.31	900.41	2063.32	2084.78	154.41	1.79
7832.00	87.11	167.62	6429.28	-1942.89	913.57	2126.98	2146.96	154.82	2.63
7895.00	87.28	166.85	6432.36	-2004.26	927.47	2189.70	2208.45	155.17	1.25
7958.00	87.88	165.86	6435.02	-2065.43	942.32	2252.51	2270.23	155.48	1.84
8022.00	88.69	166.33	6436.94	-2127.53	957.69	2316.36	2333.14	155.77	1.46
8085.00	88.22	166.53	6438.63	-2188.74	972.47	2379.20	2395.06	156.04	.81
8149.00	87.88	165.92	6440.81	-2250.87	987.70	2443.04	2458.04	156.31	1.09
8213.00	88.69	166.04	6442.73	-2312.93	1003.19	2506.90	2521.12	156.55	1.28
8277.00	89.66	165.41	6443.65	-2374.95	1018.97	2570.80	2584.32	156.78	1.81
8340.00	89.39	165.84	6444.17	-2435.97	1034.61	2633.72	2646.58	156.99	.81
8404.00	89.53	164.93	6444.77	-2497.90	1050.76	2697.64	2709.91	157.19	1.44
8468.00	89.40	165.10	6445.37	-2559.72	1067.31	2761.58	2773.32	157.37	.33
8532.00	89.36	167.54	6446.06	-2621.90	1082.44	2825.44	2836.55	157.57	3.81
Bottom Line CK.									
8595.00	89.83	168.18	6446.51	-2683.49	1095.69	2888.18	2898.56	157.79	1.26
8659.00	89.19	166.53	6447.06	-2745.93	1109.70	2951.96	2961.68	158.00	2.77
8723.00	88.39	166.87	6448.41	-2808.20	1124.42	3015.78	3024.95	158.18	1.36
8786.00	88.72	167.68	6450.00	-2869.63	1138.29	3078.55	3087.15	158.36	1.39
8850.00	88.56	168.38	6451.52	-2932.22	1151.56	3142.25	3150.24	158.56	1.12
8913.00	88.66	170.13	6453.05	-2994.10	1163.30	3204.81	3212.15	158.77	2.78
8976.00	89.06	169.89	6454.30	-3056.13	1174.23	3267.28	3273.95	158.98	.74
9040.00	89.19	169.49	6455.28	-3119.09	1185.68	3330.79	3336.85	159.19	.66
9104.00	90.17	169.11	6455.63	-3181.97	1197.57	3394.35	3399.87	159.38	1.64
9168.00	89.93	168.57	6455.58	-3244.76	1209.95	3457.98	3463.01	159.55	.92
9231.00	90.10	168.04	6455.56	-3306.45	1222.72	3520.67	3525.29	159.71	.88

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
9295.00	89.10	168.06	6456.01	-3369.06	1235.98	3584.38	3588.62	159.85	1.56
9358.00	89.70	167.37	6456.67	-3430.62	1249.38	3647.13	3651.04	159.99	1.45
9422.00	88.79	168.59	6457.51	-3493.21	1262.71	3710.85	3714.42	160.13	2.38
9486.00	87.85	168.58	6459.39	-3555.91	1275.37	3774.47	3777.71	160.27	1.47
9550.00	88.56	168.33	6461.39	-3618.59	1288.17	3838.11	3841.04	160.40	1.18
9613.00	88.49	167.90	6463.01	-3680.22	1301.14	3900.81	3903.45	160.53	.69
9677.00	88.29	167.77	6464.81	-3742.75	1314.62	3964.52	3966.92	160.65	.37
9741.00	88.56	166.80	6466.57	-3805.16	1328.70	4028.28	4030.47	160.75	1.57
Bottom Line CK.									
9804.00	89.46	167.01	6467.66	-3866.51	1342.97	4091.10	4093.10	160.85	1.47
9868.00	90.00	167.82	6467.96	-3928.97	1356.92	4154.87	4156.69	160.95	1.52
9931.00	90.44	168.43	6467.72	-3990.62	1369.88	4217.58	4219.20	161.05	1.19
9995.00	90.34	167.58	6467.28	-4053.22	1383.18	4281.30	4282.74	161.16	1.34
10058.00	90.34	166.83	6466.91	-4114.66	1397.13	4344.10	4345.39	161.25	1.19
10122.00	91.08	166.19	6466.12	-4176.89	1412.06	4407.95	4409.12	161.32	1.53
10185.00	90.44	166.75	6465.28	-4238.13	1426.80	4470.80	4471.86	161.39	1.35
10249.00	90.40	166.52	6464.81	-4300.40	1441.59	4534.64	4535.59	161.47	.36
10313.00	89.23	167.43	6465.02	-4362.75	1456.02	4598.46	4599.30	161.54	2.32
10376.00	88.86	166.83	6466.07	-4424.16	1470.05	4661.26	4662.00	161.62	1.12
10440.00	88.39	166.50	6467.60	-4486.41	1484.80	4725.08	4725.73	161.69	.90
10504.00	88.32	165.81	6469.44	-4548.53	1500.11	4788.93	4789.51	161.75	1.08
10567.00	88.25	166.48	6471.33	-4609.67	1515.19	4851.79	4852.30	161.80	1.07
10631.00	89.66	167.50	6472.49	-4672.01	1529.60	4915.59	4916.03	161.87	2.72
10695.00	89.30	169.58	6473.08	-4734.73	1542.31	4979.24	4979.60	161.96	3.30
10758.00	89.30	170.12	6473.84	-4796.74	1553.41	5041.74	5042.00	162.06	.86
10821.00	90.23	169.24	6474.10	-4858.72	1564.70	5104.26	5104.45	162.15	2.03
Bottom Line CK.									
10885.00	89.46	169.49	6474.28	-4921.62	1576.51	5167.82	5167.95	162.24	1.26
Proj. To Bit									
11098.00	89.46	169.49	6476.28	-5131.04	1615.36	5379.29	5379.30	162.52	.00