

Job Number: 23D0810100

State/Country: West Virginia

Company: Stone Energy

Declination: -8.35

Lease/Well: Maury et al Unit 1 #1H

Grid: .82

Location: West Virginia

File name: D:\WINSERVE\MAURY#1H.SVY

Rig Name: Saxon 141

Date/Time: 03-Sep-10 / 06:11

RKB: 18

Curve Name: Maury Unit 1 # 1H

G.L. or M.S.L.: I

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 176.42
 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	Distance FT	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00
108.00	.19	180.32	108.00	-.18	.00	.18	.18	.18
208.00	.22	190.32	208.00	-.53	-.04	.53	.53	.05
308.00	.11	44.05	308.00	-.65	.00	.65	.65	.32
408.00	.17	161.14	408.00	-.73	.11	.73	.73	.24
508.00	.18	160.05	508.00	-1.01	.21	1.02	1.04	.01
608.00	.14	322.36	608.00	-1.06	.19	1.07	1.08	.32
708.00	.16	153.78	708.00	-1.09	.18	1.10	1.11	.30
808.00	.14	350.96	808.00	-1.10	.22	1.11	1.12	.30
908.00	.37	137.16	908.00	-1.21	.42	1.24	1.28	.49
1008.00	.28	29.16	1008.00	-1.24	.76	1.28	1.45	.53
1108.00	.13	272.63	1108.00	-1.02	.77	1.06	1.27	.36
1208.00	.41	358.76	1208.00	-.66	.64	.69	.92	.42
1308.00	.37	51.61	1307.99	-.10	.89	.15	.90	.35
1408.00	.48	27.26	1407.99	.48	1.33	-.39	1.42	.21
1508.00	.23	65.66	1507.99	.93	1.71	-.82	1.95	.33
1608.00	.55	78.87	1607.99	1.11	2.36	-.96	2.61	.33
1708.00	1.12	78.91	1707.98	1.39	3.79	-1.15	4.04	.57
1808.00	1.48	81.11	1807.95	1.77	6.03	-1.39	6.28	.36
1908.00	1.52	68.33	1907.92	2.46	8.54	-1.93	8.89	.34
2008.00	1.48	47.26	2007.88	3.83	10.72	-3.15	11.38	.55
2108.00	1.49	19.32	2107.85	5.93	12.10	-5.17	13.47	.72
2208.00	1.42	11.80	2207.82	8.37	12.78	-7.56	15.28	.20
2308.00	.93	20.87	2307.80	10.34	13.32	-9.49	16.87	.52
2408.00	.34	6.39	2407.79	11.40	13.64	-10.52	17.78	.61

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	Dogleg Severity Deg/100
2508.00	.32	337.08	2507.79	11.95	13.57	-11.08	18.08	.17
2608.00	.50	10.45	2607.79	12.64	13.54	-11.77	18.52	.29
2708.00	.47	26.61	2707.78	13.43	13.80	-12.54	19.26	.14
2808.00	.25	25.04	2807.78	14.00	14.08	-13.09	19.85	.22
2908.00	.37	.86	2907.78	14.52	14.18	-13.60	20.29	.18
3008.00	.29	330.78	3007.78	15.06	14.06	-14.15	20.60	.19
3108.00	.12	14.87	3107.78	15.38	13.96	-14.48	20.77	.22
3208.00	.32	36.79	3207.78	15.71	14.15	-14.79	21.14	.21
3308.00	.20	16.21	3307.77	16.10	14.37	-15.17	21.58	.15
3408.00	.23	324.81	3407.77	16.43	14.30	-15.50	21.78	.19
3508.00	.35	17.53	3507.77	16.89	14.28	-15.96	22.11	.28
3608.00	.36	352.41	3607.77	17.49	14.33	-16.56	22.61	.15
3708.00	.72	352.09	3707.77	18.42	14.20	-17.50	23.26	.36
3808.00	.69	.08	3807.76	19.65	14.12	-18.73	24.19	.10
3908.00	.72	342.14	3907.75	20.85	13.93	-19.94	25.07	.22
4008.00	.65	330.75	4007.74	21.94	13.46	-21.06	25.74	.15
4108.00	.46	338.02	4107.74	22.81	13.03	-21.95	26.27	.20
4208.00	.47	348.61	4207.74	23.58	12.80	-22.74	26.83	.09
4308.00	.27	324.65	4307.73	24.17	12.58	-23.34	27.25	.25
4408.00	.47	347.34	4407.73	24.77	12.35	-23.95	27.68	.24
4508.00	.47	352.26	4507.73	25.57	12.21	-24.76	28.34	.04
4608.00	.58	344.34	4607.72	26.47	12.02	-25.67	29.07	.13
4708.00	.58	332.77	4707.72	27.40	11.65	-26.62	29.78	.12
4808.00	.50	335.99	4807.71	28.25	11.24	-27.50	30.41	.09
4908.00	.66	354.39	4907.71	29.23	11.01	-28.48	31.23	.24
5008.00	.69	12.13	5007.70	30.39	11.08	-29.64	32.34	.21
5108.00	.31	21.14	5107.70	31.23	11.30	-30.46	33.21	.39
5208.00	.46	11.93	5207.70	31.87	11.48	-31.09	33.88	.16
5308.00	.47	55.39	5307.69	32.50	11.90	-31.69	34.61	.34
5408.00	.44	22.33	5407.69	33.09	12.38	-32.25	35.33	.26
5543.00	.31	32.30	5542.69	33.88	12.78	-33.01	36.20	.11
5581.00	.34	187.72	5580.69	33.85	12.82	-32.98	36.20	1.67
5612.00	1.97	191.41	5611.68	33.24	12.70	-32.38	35.58	5.26
5644.00	4.21	195.70	5643.63	31.57	12.27	-30.74	33.87	7.03
5675.00	5.75	197.66	5674.51	28.99	11.49	-28.22	31.19	5.00
5707.00	6.78	197.85	5706.32	25.67	10.43	-24.96	27.70	3.22
5738.00	8.62	196.47	5737.04	21.70	9.21	-21.08	23.57	5.96
5769.00	10.60	196.01	5767.60	16.73	7.76	-16.21	18.44	6.39
5801.00	12.74	195.37	5798.94	10.49	6.02	-10.10	12.10	6.70
5832.00	14.77	194.94	5829.05	3.38	4.09	-3.12	5.31	6.56
5864.00	16.80	194.56	5859.84	-5.04	1.88	5.15	5.38	6.35
5900.00	20.23	194.60	5893.97	-16.10	-1.00	16.01	16.13	9.53
5925.00	22.45	194.58	5917.26	-24.90	-3.29	24.65	25.12	8.88
5957.00	24.90	195.18	5946.56	-37.32	-6.59	36.84	37.90	7.69
5988.00	26.28	193.69	5974.52	-50.29	-9.92	49.57	51.26	4.91

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	Dogleg Severity Deg/100
6019.00	27.89	190.52	6002.12	-64.09	-12.87	63.16	65.37	6.97
6051.00	30.02	188.14	6030.12	-79.37	-15.37	78.26	80.85	7.57
6082.00	32.13	186.44	6056.67	-95.24	-17.39	93.97	96.82	7.37
6114.00	34.23	185.17	6083.45	-112.66	-19.16	111.25	114.28	6.91
6145.00	35.94	183.71	6108.82	-130.43	-20.53	128.89	132.03	6.14
6176.00	38.20	183.67	6133.55	-149.07	-21.73	147.43	150.65	7.29
6208.00	40.74	184.12	6158.25	-169.37	-23.11	167.59	170.94	7.99
6248.00	44.39	184.97	6187.71	-196.33	-25.26	194.37	197.95	9.24
6279.00	47.86	185.40	6209.19	-218.58	-27.29	216.45	220.28	11.24
6311.00	51.20	184.30	6229.96	-242.84	-29.34	240.53	244.60	10.76
6342.00	54.53	184.41	6248.67	-267.48	-31.21	265.01	269.29	10.75
6374.00	57.39	184.97	6266.58	-293.90	-33.38	291.24	295.79	9.05
6406.00	60.19	184.93	6283.16	-321.17	-35.75	318.31	323.15	8.75
6438.00	62.52	185.14	6298.50	-349.14	-38.21	346.07	351.22	7.30
6469.00	64.99	184.27	6312.21	-376.85	-40.49	373.58	379.02	8.36
6501.00	67.68	183.75	6325.05	-406.08	-42.54	402.63	408.30	8.54
6533.00	70.52	182.69	6336.47	-435.93	-44.21	432.31	438.16	9.40
6565.00	72.94	182.11	6346.50	-466.28	-45.48	462.53	468.50	7.76
6597.00	74.67	181.59	6355.42	-497.00	-46.48	493.12	499.16	5.63
6629.00	76.57	181.12	6363.37	-527.98	-47.21	524.00	530.09	6.11
6660.00	78.75	180.67	6370.00	-558.26	-47.68	554.19	560.29	7.17
6692.00	79.43	180.41	6376.05	-589.68	-47.98	585.53	591.63	2.27
6724.00	79.64	180.37	6381.86	-621.15	-48.19	616.93	623.01	.67
6756.00	80.37	180.95	6387.42	-652.66	-48.55	648.35	654.46	2.90
6787.00	82.43	181.24	6392.05	-683.30	-49.14	678.90	685.07	6.71
6819.00	86.88	181.48	6395.03	-715.15	-49.90	710.64	716.89	13.93
6851.00	89.23	181.19	6396.12	-747.12	-50.64	742.50	748.83	7.40
6883.00	90.03	181.75	6396.33	-779.11	-51.46	774.37	780.80	3.05
6915.00	90.57	180.87	6396.16	-811.10	-52.19	806.26	812.78	3.23
6947.00	90.74	180.68	6395.79	-843.09	-52.63	838.16	844.73	.80
6978.00	90.64	179.54	6395.42	-874.09	-52.69	869.09	875.68	3.69
7010.00	90.40	179.11	6395.13	-906.09	-52.31	901.05	907.60	1.53
7042.00	89.77	177.61	6395.08	-938.07	-51.39	933.03	939.48	5.09
7074.00	89.43	176.95	6395.30	-970.04	-49.88	965.03	971.32	2.32
7138.00	90.54	177.22	6395.32	-1033.95	-46.62	1029.02	1035.00	1.78
7202.00	90.70	174.83	6394.63	-1097.79	-42.19	1093.01	1098.60	3.74
7265.00	90.77	172.91	6393.82	-1160.42	-35.46	1155.94	1160.96	3.05
7329.00	89.19	171.62	6393.84	-1223.84	-26.85	1219.77	1224.13	3.19
7393.00	88.32	169.88	6395.23	-1286.98	-16.56	1283.44	1287.09	3.04
7457.00	88.42	170.50	6397.05	-1350.02	-5.66	1347.04	1350.04	.98
7520.00	89.03	170.25	6398.46	-1412.12	4.87	1409.67	1412.13	1.05
7584.00	89.26	169.81	6399.41	-1475.15	15.95	1473.26	1475.23	.78
7647.00	88.26	167.28	6400.77	-1536.87	28.46	1535.65	1537.14	4.32
7711.00	87.42	167.11	6403.19	-1599.24	42.63	1598.78	1599.80	1.34
7775.00	87.22	168.55	6406.18	-1661.73	56.11	1661.99	1662.67	2.27

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	Dogleg Severity Deg/100
7839.00	87.32	170.22	6409.23	-1724.56	67.88	1725.43	1725.89	2.61
7902.00	86.78	170.07	6412.47	-1786.55	78.65	1787.97	1788.28	.89
7966.00	86.85	171.74	6416.03	-1849.64	88.75	1851.57	1851.77	2.61
8029.00	87.21	174.13	6419.29	-1912.07	96.49	1914.37	1914.51	3.83
8092.00	87.59	175.25	6422.15	-1974.74	102.31	1977.27	1977.39	1.88
8156.00	88.46	175.21	6424.35	-2038.48	107.63	2041.22	2041.32	1.36
8219.00	88.49	176.08	6426.03	-2101.27	112.41	2104.19	2104.28	1.38
8283.00	89.70	177.01	6427.04	-2165.15	116.27	2168.18	2168.27	2.38
8347.00	90.37	177.68	6427.00	-2229.08	119.24	2232.17	2232.26	1.48
8411.00	90.54	176.87	6426.49	-2293.00	122.28	2296.16	2296.26	1.29
8474.00	90.50	177.62	6425.92	-2355.93	125.31	2359.15	2359.26	1.19
8538.00	90.44	177.73	6425.40	-2419.87	127.90	2423.14	2423.25	.20
8601.00	89.80	176.94	6425.27	-2482.80	130.83	2486.13	2486.25	1.61
8665.00	89.46	176.72	6425.68	-2546.70	134.37	2550.12	2550.25	.63
8729.00	89.13	176.05	6426.47	-2610.57	138.41	2614.12	2614.24	1.17
8793.00	88.93	175.98	6427.55	-2674.41	142.85	2678.11	2678.22	.33
8856.00	88.66	176.00	6428.88	-2737.24	147.26	2741.09	2741.20	.43
8920.00	88.89	175.87	6430.24	-2801.06	151.79	2805.08	2805.17	.41
8983.00	88.76	175.80	6431.54	-2863.88	156.37	2868.06	2868.15	.23
9047.00	88.99	175.66	6432.79	-2927.69	161.13	2932.04	2932.12	.42
9110.00	88.79	176.37	6434.01	-2990.53	165.51	2995.03	2995.11	1.17
9174.00	89.75	176.19	6434.83	-3054.39	169.66	3059.02	3059.10	1.53
9238.00	89.87	175.78	6435.04	-3118.23	174.14	3123.02	3123.09	.67
9301.00	89.90	175.60	6435.17	-3181.05	178.88	3186.01	3186.08	.29
9365.00	90.13	176.22	6435.15	-3244.89	183.44	3250.01	3250.07	1.03
9429.00	90.00	176.18	6435.08	-3308.75	187.68	3314.01	3314.07	.21
9493.00	88.35	176.26	6436.00	-3372.60	191.90	3378.00	3378.06	2.58
9556.00	88.46	176.98	6437.75	-3435.47	195.61	3440.98	3441.03	1.16
9620.00	88.39	177.84	6439.51	-3499.38	198.51	3504.94	3505.00	1.35
9684.00	87.99	177.25	6441.53	-3563.28	201.25	3568.90	3568.96	1.11
9747.00	88.76	177.71	6443.32	-3626.20	204.01	3631.86	3631.93	1.42
9811.00	88.69	177.65	6444.74	-3690.13	206.60	3695.83	3695.91	.14
9874.00	88.66	177.40	6446.20	-3753.05	209.32	3758.80	3758.89	.40
Projection To TD								
9929.00	88.63	177.18	6447.50	-3807.98	211.92	3813.78	3813.87	.40