

103-02651

Job Number: 23D0611092
 Company: Stone Energy
 Lease/Well: Nice Talkington #4 H
 Location: Mary Prospect
 Rig Name: Saxon 141
 RKB: 18
 G.L. or M.S.L.: 1300

State/Country: West Virginia
 Declination: -8.4
 Grid: 0.85
 File name: D:\WINSERVE\JOBS\ITN#4H.SVY
 Date/Time: 13-Jun-11 / 08:14
 Curve Name: TALKington Nice #4H As Drilled

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 336.20
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.56	60.54	100.00	.24	.43	.05	.49	60.54	.56
200.00	.14	270.40	200.00	.49	.74	.15	.88	56.58	.69
300.00	.14	278.03	300.00	.50	.49	.26	.70	44.14	.02
400.00	.15	260.48	400.00	.50	.24	.36	.55	25.33	.04
500.00	.13	252.11	500.00	.44	.00	.41	.44	359.97	.03
600.00	.12	262.06	600.00	.39	-.21	.45	.45	331.51	.02
700.00	.15	254.96	700.00	.35	-.44	.49	.56	308.03	.03
800.00	.11	273.10	800.00	.32	-.66	.56	.74	295.55	.05
900.00	.07	294.46	900.00	.35	-.82	.65	.89	293.07	.05
1000.00	.06	359.74	1000.00	.43	-.88	.74	.98	295.86	.07
1100.00	.09	286.04	1100.00	.50	-.96	.84	1.08	297.52	.09
1200.00	.31	18.72	1199.99	.78	-.95	1.09	1.23	309.43	.33

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WV GEOLOGICAL SURVEY
 MORRISTOWN, WV
 CLOSURE

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	Direction Deg	Dip Deg	Severity Deg/100
1300.00	.44	24.03	1299.99	1.39	-.70	1.55	1.56	333.15		.13
1400.00	.44	32.41	1399.99	2.06	-.34	2.03	2.09	350.65		.06
1500.00	.52	53.27	1499.99	2.66	.23	2.34	2.67	4.94		.19
1600.00	.56	69.70	1599.98	3.10	1.05	2.41	3.27	18.70		.16
1700.00	.57	66.09	1699.98	3.47	1.96	2.38	3.98	29.44		.04
1800.00	.88	40.97	1799.97	4.25	2.91	2.71	5.15	34.45		.44
1900.00	1.00	33.85	1899.96	5.55	3.90	3.51	6.79	35.11		.17
2000.00	.98	34.69	1999.94	6.98	4.88	4.42	8.52	34.94		.02
2100.00	1.15	40.61	2099.92	8.45	6.02	5.30	10.37	35.46		.20
2200.00	1.20	43.37	2199.90	9.97	7.38	6.14	12.40	36.54		.08
2300.00	1.23	43.38	2299.88	11.50	8.84	6.96	14.51	37.53		.03
2400.00	1.16	41.56	2399.86	13.04	10.24	7.80	16.58	38.16		.08
2499.99	1.19	35.61	2499.83	14.63	11.51	8.74	18.62	38.20		.13
2599.99	1.06	27.80	2599.81	16.29	12.55	9.84	20.57	37.60		.20
2699.99	.47	280.84	2699.80	17.19	12.58	10.65	21.30	36.20		1.28
2799.99	1.57	225.02	2799.79	16.30	11.21	10.39	19.78	34.53		1.36
2899.99	2.18	218.49	2899.73	13.84	9.06	9.01	16.54	33.21		.65
2999.99	2.61	213.02	2999.65	10.44	6.64	6.88	12.37	32.43		.48
3099.99	3.98	204.42	3099.48	5.38	3.96	3.32	6.68	36.39		1.46
3199.99	5.25	198.01	3199.15	-2.13	1.11	-2.40	2.41	152.45		1.37
3299.99	6.44	199.50	3298.63	-11.77	-2.17	-9.90	11.97	190.46		1.21
3399.99	7.75	205.53	3397.86	-23.15	-6.95	-18.38	24.17	196.72		1.50
3499.99	8.55	204.97	3496.85	-35.98	-13.00	-27.67	38.25	199.87		.80
3599.99	8.39	204.67	3595.76	-49.34	-19.18	-37.41	52.94	201.24		.17
3699.99	7.78	204.25	3694.77	-62.14	-25.01	-46.77	66.99	201.92		.61
3799.99	8.40	201.79	3793.77	-75.10	-30.50	-56.41	81.06	202.10		.71
3899.99	8.75	200.58	3892.65	-89.01	-35.88	-66.96	95.97	201.96		.40
3999.99	9.09	196.95	3991.44	-103.69	-40.86	-78.38	111.45	201.51		.66
4099.99	9.02	196.34	4090.20	-118.77	-45.37	-90.36	127.14	200.91		.12
4199.99	9.02	194.15	4188.96	-133.89	-49.49	-102.53	142.74	200.29		.34
4299.99	9.22	191.07	4287.70	-149.35	-52.94	-115.29	158.46	199.52		.53
4399.99	8.84	190.13	4386.46	-164.78	-55.83	-128.23	173.98	198.72		.41
4499.99	8.89	190.53	4485.26	-179.93	-58.60	-140.99	189.24	198.04		.08
4599.99	9.04	191.53	4584.04	-195.23	-61.58	-153.78	204.71	197.51		.21

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WV GEOLOGICAL SURVEY
MORGANTOWN WV
CLOSURE

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	Direction Deg	Dogleg Severity Deg/100
4699.99	8.90	191.44	4682.82	-210.51	-64.68	-166.50	220.22	197.08	.14
4799.99	8.81	190.23	4781.63	-225.63	-67.58	-179.17	235.53	196.67	.21
4899.99	8.45	191.21	4880.50	-240.37	-70.37	-191.53	250.46	196.32	.39
4999.99	7.79	191.48	4979.49	-254.21	-73.14	-203.08	264.53	196.05	.67
5099.99	7.39	195.67	5078.62	-267.04	-76.23	-213.57	277.71	195.93	.68
5199.99	6.70	198.94	5177.86	-278.75	-79.86	-222.81	289.96	195.99	.80
5299.99	5.26	205.85	5277.32	-288.38	-83.75	-230.06	300.30	196.19	1.61
5399.99	3.17	229.13	5377.05	-294.32	-87.84	-233.84	307.15	196.62	2.66
5499.99	.86	207.09	5476.98	-296.80	-90.28	-235.13	310.23	196.92	2.39
5550.00	1.07	172.72	5526.99	-297.60	-90.39	-235.82	311.02	196.89	1.21
5582.00	1.95	222.74	5558.98	-298.30	-90.72	-236.32	311.79	196.92	4.70
5614.00	4.31	251.11	5590.93	-299.09	-92.23	-236.43	312.98	197.14	8.61
5646.00	6.54	254.77	5622.78	-299.95	-95.12	-236.06	314.68	197.60	7.05
5677.00	9.30	257.48	5653.48	-300.96	-99.27	-235.31	316.91	198.26	8.98
5709.00	11.79	256.73	5684.94	-302.27	-104.98	-234.20	319.98	199.15	7.79
5741.00	14.18	257.88	5716.12	-303.85	-112.00	-232.81	323.83	200.23	7.51
5773.00	16.20	258.33	5747.00	-305.57	-120.20	-231.08	328.36	201.47	6.32
5804.00	17.80	262.56	5776.65	-307.06	-129.13	-228.84	333.11	202.81	6.52
5836.00	20.32	264.93	5806.89	-308.18	-139.52	-225.67	338.29	204.36	8.24
5868.00	22.34	265.43	5836.70	-309.16	-151.12	-221.89	344.12	206.05	6.34
5900.00	24.40	266.04	5866.07	-310.10	-163.78	-217.64	350.69	207.84	6.48
5931.00	27.06	265.41	5893.99	-311.11	-177.19	-213.14	358.03	209.66	8.63
5963.00	28.43	269.48	5922.32	-311.76	-192.07	-207.74	366.18	211.64	7.30
5995.00	28.87	277.58	5950.41	-310.81	-207.35	-200.70	373.63	213.71	12.21
6027.00	30.26	282.93	5978.25	-307.99	-222.87	-191.86	380.17	215.89	9.32
6058.00	31.82	287.31	6004.81	-303.81	-238.29	-181.81	386.11	218.11	8.85
6090.00	32.82	291.47	6031.86	-298.12	-254.41	-170.10	391.92	220.48	7.62
6121.00	33.52	293.80	6057.81	-291.59	-270.06	-157.81	397.44	222.81	4.69
6153.00	34.80	296.81	6084.29	-283.91	-286.30	-144.23	403.20	225.24	6.62
6185.00	35.29	300.37	6110.49	-275.11	-302.43	-129.67	408.84	227.71	6.57
6217.00	36.99	304.08	6136.33	-265.04	-318.38	-114.02	414.26	230.22	8.66
6248.00	38.73	305.94	6160.81	-254.12	-333.96	-97.75	419.65	232.73	6.71
6280.00	40.71	308.01	6185.42	-241.82	-350.29	-79.90	425.65	235.38	7.44
6312.00	42.70	310.05	6209.31	-228.41	-366.82	-60.96	432.12	238.09	7.53

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WV GEOLOGICAL SURVEY
CLOSURE
MCDONALD TOWN, WV

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	Direction Deg	Dogleg Severity Deg/100
6343.00	45.00	310.74	6231.67	-214.49	-383.17	-41.63	439.12	240.76	7.58
6375.00	47.30	311.19	6253.83	-199.36	-400.59	-20.75	447.46	243.54	7.26
6407.00	49.51	311.20	6275.07	-183.60	-418.60	.94	457.09	246.32	6.91
6439.00	51.77	311.90	6295.37	-167.19	-437.11	23.42	468.00	249.07	7.26
6471.00	54.03	312.92	6314.67	-149.98	-455.95	46.78	479.99	251.79	7.51
6503.00	55.10	315.39	6333.22	-131.81	-474.65	70.94	492.62	254.48	7.12
6534.00	56.55	317.19	6350.64	-113.27	-492.37	95.05	505.23	257.04	6.70
6566.00	58.06	319.60	6367.92	-93.14	-510.25	120.69	518.68	259.66	7.90
6598.00	58.93	321.32	6384.65	-72.10	-527.61	146.95	532.52	262.22	5.33
6630.00	60.04	324.58	6400.90	-50.10	-544.22	173.78	546.52	264.74	9.44
6662.00	61.45	325.67	6416.54	-27.19	-560.18	201.18	560.84	267.22	5.31
6693.00	63.55	327.17	6430.85	-4.29	-575.38	228.27	575.40	269.57	8.02
6725.00	66.30	329.47	6444.41	20.38	-590.59	256.98	590.95	271.98	10.78
6757.00	68.90	330.04	6456.61	45.94	-605.49	286.37	607.23	274.34	8.29
6789.00	71.35	332.31	6467.49	72.30	-620.00	316.35	624.20	276.65	10.15
6821.00	73.73	333.36	6477.09	99.46	-633.93	346.82	641.69	278.92	8.07
6853.00	77.20	334.67	6485.12	127.30	-647.50	377.77	659.89	281.12	11.54
6885.00	79.70	335.12	6491.52	155.68	-660.80	409.11	678.89	283.26	7.93
6917.00	82.38	335.35	6496.51	184.38	-674.04	440.71	698.80	285.30	8.41
6948.00	85.09	336.01	6499.89	212.46	-686.73	471.52	718.84	287.19	8.99
6980.00	86.37	336.47	6502.27	241.67	-699.58	503.43	740.15	289.06	4.25
7043.00	88.49	337.42	6505.10	299.57	-724.23	566.36	783.74	292.47	3.69
7107.00	88.72	337.20	6506.66	358.60	-748.91	630.33	830.34	295.59	.50
7171.00	89.60	338.45	6507.59	417.86	-773.06	694.29	878.77	298.39	2.39
7234.00	90.81	339.29	6507.37	476.62	-795.77	757.22	927.59	300.92	2.34
7297.00	91.51	341.25	6506.09	535.91	-817.03	820.05	977.11	303.26	3.30
7361.00	91.48	342.05	6504.42	596.63	-837.18	883.73	1028.02	305.48	1.25
7424.00	91.65	344.13	6502.70	656.88	-855.49	946.25	1078.59	307.52	3.31
7488.00	91.71	345.76	6500.83	718.66	-872.11	1009.48	1130.06	309.49	2.55
7551.00	91.98	345.61	6498.80	779.67	-887.68	1071.59	1181.46	311.29	.49
7615.00	91.54	347.34	6496.83	841.86	-902.64	1134.53	1234.30	313.00	2.79
7679.00	91.04	348.83	6495.39	904.47	-915.85	1197.14	1287.18	314.64	2.46
7742.00	91.88	348.46	6493.79	966.21	-928.25	1258.64	1339.85	316.15	1.46
7806.00	90.84	349.63	6492.27	1029.03	-940.40	1321.02	1394.01	317.58	2.45

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CLOSURE
Distance Direction
MORGANTOWN, WV Deg

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	Direction Deg	Dogleg Severity Deg/100
7870.00	91.28	349.85	6491.08	1091.99	-951.80	1383.23	1448.58	318.92	.77
7934.00	90.50	350.52	6490.09	1155.05	-962.71	1445.32	1503.65	320.19	1.61
7997.00	88.99	350.14	6490.37	1217.15	-973.29	1506.41	1558.45	321.35	2.47
8061.00	88.59	349.93	6491.72	1280.17	-984.36	1568.54	1614.87	322.44	.71
8125.00	88.82	349.67	6493.17	1343.14	-995.70	1630.73	1671.96	323.45	.54
8188.00	89.09	350.27	6494.32	1405.17	-1006.67	1691.91	1728.55	324.38	1.04
8252.00	88.62	348.43	6495.59	1468.05	-1018.49	1754.22	1786.76	325.25	2.97
8315.00	88.22	347.67	6497.33	1529.66	-1031.53	1815.85	1844.97	326.01	1.36
8379.00	88.46	346.69	6499.19	1592.04	-1045.73	1878.65	1904.77	326.70	1.58
8443.00	88.89	346.24	6500.67	1654.25	-1060.70	1941.61	1965.10	327.33	.97
8506.00	90.57	346.16	6500.96	1715.42	-1075.73	2003.65	2024.81	327.91	2.67
8570.00	91.68	347.08	6499.71	1777.67	-1090.53	2066.58	2085.52	328.47	2.25
8634.00	92.25	346.60	6497.51	1839.96	-1105.10	2129.44	2146.32	329.01	1.16
8697.00	91.14	345.81	6495.65	1901.11	-1120.11	2191.46	2206.55	329.49	2.16
8761.00	91.01	345.37	6494.45	1963.09	-1136.04	2254.59	2268.10	329.94	.72
8824.00	91.01	345.90	6493.34	2024.11	-1151.66	2316.72	2328.81	330.36	.84
8888.00	91.38	345.66	6492.00	2086.13	-1167.38	2379.82	2390.55	330.77	.69
8951.00	90.07	344.93	6491.20	2147.06	-1183.37	2442.02	2451.58	331.14	2.38
9015.00	89.97	344.47	6491.18	2208.79	-1200.26	2505.32	2513.84	331.48	.74
9078.00	90.13	344.65	6491.13	2269.52	-1217.03	2567.65	2575.24	331.80	.38
9142.00	90.03	344.57	6491.04	2331.22	-1234.02	2630.96	2637.69	332.11	.20
9206.00	90.27	344.66	6490.87	2392.93	-1251.00	2694.27	2700.21	332.40	.40
9269.00	90.64	343.82	6490.37	2453.56	-1268.11	2756.65	2761.89	332.67	1.46
9333.00	90.67	344.07	6489.64	2515.06	-1285.80	2820.06	2824.68	332.92	.39
9396.00	90.77	344.06	6488.85	2575.63	-1303.10	2882.46	2886.51	333.16	.16
9460.00	89.66	343.82	6488.61	2637.13	-1320.80	2945.88	2949.41	333.40	1.77
9524.00	89.43	343.49	6489.12	2698.55	-1338.81	3009.33	3012.40	333.61	.63
9588.00	89.60	342.95	6489.66	2759.82	-1357.29	3072.85	3075.52	333.81	.88
9652.00	89.56	343.02	6490.13	2821.02	-1376.02	3136.40	3138.72	334.00	.13
9716.00	89.87	343.75	6490.44	2882.34	-1394.32	3199.90	3201.88	334.18	1.24
9779.00	90.00	344.18	6490.52	2942.89	-1411.72	3262.32	3263.98	334.37	.71
9843.00	89.87	342.61	6490.59	3004.22	-1430.01	3325.81	3327.20	334.55	2.46
9906.00	91.01	341.91	6490.10	3064.22	-1449.20	3388.46	3389.64	334.69	2.12
9970.00	91.78	342.05	6488.55	3125.06	-1469.00	3452.11	3453.11	334.82	1.22

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	
10034.00	91.81	341.67	6486.54	3185.85	-1488.91	3515.77	3516.61	334.95	.60
10097.00	91.18	342.44	6484.90	3245.77	-1508.32	3578.42	3579.11	335.08	1.58
10161.00	91.07	342.82	6483.64	3306.84	-1527.42	3642.00	3642.55	335.21	.62
10224.00	90.77	342.96	6482.63	3367.04	-1545.95	3704.57	3704.99	335.34	.53
10288.00	90.84	343.75	6481.73	3428.35	-1564.28	3768.06	3768.36	335.47	1.24
10352.00	90.30	342.13	6481.09	3489.53	-1583.06	3831.61	3831.83	335.60	2.67
10415.00	89.63	340.74	6481.13	3549.25	-1603.11	3894.35	3894.50	335.69	2.45
10479.00	89.70	340.25	6481.51	3609.58	-1624.48	3958.17	3958.28	335.77	.77
10534.00	89.90	340.64	6481.70	3661.40	-1642.89	4013.02	4013.10	335.83	.80
Projection to Bit									
10590.00	90.10	341.04	6481.70	3714.30	-1661.27	4068.83	4068.89	335.90	.80

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV