

Job Number: 23D1111230

State/Country: West Virginia

Company: Stone Energy

Declination: -8.42

Lease/Well: Potts #4H

Grid: .84

Location: Wetzel County

File name: D:\WINSERVE\STONEJ~1\IP#4H.SVY

Rig Name: Saxon 141

Date/Time: 13-Nov-11 / 22:21

RKB: 18

Curve Name: Potts #4H As Drilled

G.L. or M.S.L.: 1326

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 342.17
 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	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108.00	.16	325.71	108.00	.12	-.08	.14	.15	325.72	.15
208.00	.19	355.02	208.00	.41	-.18	.44	.44	336.28	.09
308.00	.07	318.22	308.00	.62	-.23	.66	.66	339.27	.14
408.00	.22	312.62	408.00	.79	-.42	.88	.89	332.32	.15
508.00	.15	322.89	508.00	1.03	-.64	1.17	1.21	328.23	.08
608.00	.13	312.57	608.00	1.21	-.80	1.39	1.45	326.53	.03
708.00	.13	302.32	708.00	1.34	-.98	1.58	1.66	323.98	.02
808.00	.11	300.01	808.00	1.45	-1.16	1.74	1.86	321.49	.02
908.00	.04	321.80	908.00	1.53	-1.26	1.84	1.98	320.48	.07
1008.00	.08	57.79	1008.00	1.59	-1.22	1.89	2.01	322.48	.09
1108.00	.02	165.15	1108.00	1.61	-1.16	1.89	1.99	324.29	.09
1208.00	.16	281.68	1208.00	1.62	-1.29	1.94	2.08	321.51	.17
1308.00	.17	312.93	1308.00	1.75	-1.54	2.14	2.33	318.76	.09
1408.00	.60	294.23	1407.99	2.07	-2.12	2.62	2.97	314.27	.44
1508.00	1.03	290.12	1507.98	2.59	-3.45	3.52	4.31	306.98	.43
1608.00	1.23	293.43	1607.96	3.33	-5.27	4.78	6.24	302.27	.21
1708.00	1.66	292.33	1707.93	4.31	-7.60	6.43	8.73	299.55	.43
1808.00	1.84	309.11	1807.89	5.87	-10.18	8.71	11.75	299.96	.54
1908.00	1.06	347.93	1907.86	7.79	-11.62	10.97	13.99	303.82	1.21
2008.00	1.40	353.67	2007.83	9.91	-11.95	13.09	15.52	309.65	.36
2108.00	1.64	351.70	2107.80	12.54	-12.29	15.70	17.56	315.56	.25
2208.00	1.53	350.62	2207.76	15.27	-12.72	18.43	19.87	320.21	.11
2308.00	1.22	11.10	2307.73	17.63	-12.73	20.68	21.75	324.17	.58
2408.00	1.31	8.17	2407.71	19.81	-12.36	22.64	23.35	328.03	.11

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	
2508.00	1.98	6.90	2507.66	22.65	-11.99	25.24	25.63	332.11	.67
2608.00	2.11	6.32	2607.60	26.20	-11.58	28.49	28.64	336.15	.13
2708.00	1.99	.67	2707.54	29.76	-11.36	31.81	31.86	339.11	.23
2808.00	2.49	346.54	2807.46	33.61	-11.84	35.63	35.64	340.59	.74
2908.00	2.63	337.31	2907.36	37.84	-13.23	40.08	40.09	340.72	.43
3008.00	4.08	332.42	3007.19	43.11	-15.77	45.87	45.91	339.91	1.48
3108.00	4.66	334.88	3106.90	49.94	-19.14	53.41	53.49	339.03	.61
3208.00	4.77	332.88	3206.56	57.32	-22.76	61.54	61.68	338.35	.20
3308.00	4.59	333.37	3306.23	64.60	-26.45	69.60	69.80	337.74	.18
3408.00	4.09	332.52	3405.94	71.34	-29.89	77.07	77.35	337.27	.50
3508.00	3.72	333.18	3505.71	77.40	-33.00	83.79	84.14	336.91	.37
3608.00	3.31	335.88	3605.52	82.93	-35.64	89.86	90.26	336.74	.44
3708.00	3.18	335.22	3705.36	88.08	-37.98	95.48	95.92	336.67	.14
3808.00	3.24	339.04	3805.20	93.24	-40.15	101.06	101.52	336.70	.22
3908.00	2.91	358.91	3905.06	98.42	-41.21	106.31	106.70	337.28	1.11
4008.00	1.65	14.58	4004.98	102.35	-40.90	109.96	110.22	338.22	1.39
4108.00	.62	8.75	4104.96	104.28	-40.45	111.66	111.85	338.80	1.04
4208.00	.68	29.52	4204.95	105.33	-40.08	112.54	112.70	339.17	.24
4308.00	.67	34.49	4304.94	106.33	-39.46	113.30	113.41	339.64	.06
4408.00	.73	42.78	4404.94	107.28	-38.69	113.97	114.04	340.17	.12
4508.00	.97	46.40	4504.93	108.33	-37.65	114.65	114.68	340.84	.25
4608.00	1.19	50.00	4604.91	109.58	-36.24	115.41	115.41	341.70	.23
4708.00	3.34	36.40	4704.82	112.59	-33.71	117.51	117.53	343.33	2.20
4808.00	3.53	33.60	4804.65	117.50	-30.28	121.13	121.34	345.55	.25
4908.00	2.61	40.76	4904.50	121.79	-27.09	124.23	124.77	347.46	.99
5008.00	2.29	22.57	5004.41	125.36	-24.84	126.94	127.79	348.79	.84
5108.00	.50	69.25	5104.38	127.36	-23.66	128.49	129.54	349.47	1.98
5208.00	.99	123.65	5204.37	127.03	-22.54	127.83	129.02	349.94	.81
5308.00	1.32	101.47	5304.35	126.33	-20.69	126.59	128.01	350.70	.55
5408.00	1.76	111.02	5404.32	125.55	-18.13	125.07	126.85	351.78	.51
5508.00	.51	175.02	5504.30	124.55	-16.65	123.67	125.66	352.38	1.60
5533.95	.47	209.10	5530.25	124.34	-16.70	123.48	125.46	352.35	1.12
5558.48	.59	203.13	5554.77	124.14	-16.79	123.32	125.27	352.30	.54
5583.10	.65	212.05	5579.39	123.90	-16.92	123.13	125.05	352.22	.46
5608.26	.66	209.64	5604.55	123.66	-17.07	122.94	124.83	352.14	.12
5632.56	.61	209.97	5628.85	123.42	-17.20	122.76	124.62	352.07	.21
MWD Surveys									
5710.00	.57	225.95	5706.29	122.80	-17.68	122.31	124.07	351.81	.22
5742.00	.43	239.89	5738.28	122.63	-17.90	122.22	123.93	351.70	.58
5774.00	1.73	314.07	5770.28	122.90	-18.35	122.62	124.27	351.51	5.20
5806.00	3.94	325.97	5802.24	124.15	-19.31	124.10	125.64	351.16	7.11
5838.00	6.27	330.17	5834.11	126.58	-20.80	126.87	128.28	350.67	7.37
5869.00	8.49	331.23	5864.85	130.05	-22.74	130.77	132.03	350.08	7.17
5901.00	10.67	329.15	5896.40	134.67	-25.40	135.98	137.04	349.32	6.90
5933.00	12.90	329.46	5927.73	140.29	-28.73	142.35	143.20	348.43	6.97
5965.00	13.96	328.97	5958.85	146.67	-32.54	149.59	150.24	347.49	3.33

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	
5996.00	15.42	331.39	5988.84	153.50	-36.44	157.28	157.76	346.65	5.11
6028.00	17.27	333.68	6019.54	161.49	-40.58	166.16	166.51	345.89	6.12
6059.00	19.42	335.95	6048.97	170.32	-44.72	175.83	176.09	345.29	7.31
6090.00	21.36	338.04	6078.02	180.26	-48.94	186.59	186.79	344.81	6.68
6121.00	23.62	340.49	6106.66	191.35	-53.12	198.43	198.59	344.48	7.89
6152.00	25.83	342.57	6134.82	203.65	-57.22	211.39	211.54	344.31	7.66
6182.00	28.06	342.80	6161.56	216.63	-61.26	224.98	225.13	344.21	7.44
6213.00	30.21	343.17	6188.64	231.06	-65.68	240.08	240.22	344.13	6.96
6243.00	33.18	343.30	6214.16	246.15	-70.22	255.83	255.97	344.08	9.90
Bottom Line									
6274.00	34.90	342.51	6239.85	262.74	-75.33	273.18	273.32	344.00	5.73
6305.00	35.94	342.30	6265.11	279.86	-80.76	291.15	291.28	343.90	3.38
6336.00	37.72	341.48	6289.92	297.52	-86.54	309.73	309.85	343.78	5.96
6367.00	40.37	340.38	6314.00	315.98	-92.92	329.25	329.36	343.61	8.84
6397.00	42.74	339.28	6336.44	334.65	-99.79	349.13	349.21	343.40	8.27
6428.00	44.23	338.31	6358.94	354.54	-107.51	370.43	370.48	343.13	5.27
6459.00	46.25	339.07	6380.76	375.05	-115.50	392.40	392.43	342.88	6.74
Bottom Line									
6490.00	48.40	340.63	6401.78	396.44	-123.35	415.17	415.19	342.72	7.86
6520.00	50.37	340.64	6421.30	417.93	-130.90	437.93	437.94	342.61	6.57
6551.00	52.32	341.02	6440.67	440.79	-138.85	462.13	462.14	342.52	6.36
6582.00	55.47	341.62	6458.93	464.51	-146.86	487.17	487.18	342.45	10.28
6613.00	58.22	342.53	6475.88	489.21	-154.85	513.12	513.13	342.44	9.20
6644.00	59.52	342.67	6491.91	514.53	-162.78	539.66	539.66	342.44	4.21
6675.00	62.57	342.97	6506.92	540.44	-170.79	566.78	566.78	342.46	9.88
6706.00	66.11	343.72	6520.34	567.21	-178.80	594.71	594.72	342.50	11.63
6736.00	69.67	344.20	6531.63	593.91	-186.47	622.48	622.50	342.57	11.96
6767.00	70.74	343.87	6542.13	621.96	-194.50	651.64	651.66	342.63	3.59
6798.00	72.69	343.45	6551.85	650.20	-202.78	681.06	681.09	342.68	6.42
6829.00	75.52	343.82	6560.34	678.80	-211.18	710.86	710.90	342.72	9.20
6860.00	77.57	344.29	6567.55	707.79	-219.46	740.99	741.03	342.77	6.78
6890.00	78.02	344.38	6573.90	736.03	-227.38	770.29	770.35	342.83	1.53
6921.00	80.18	344.75	6579.76	765.37	-235.48	800.71	800.77	342.90	7.07
6952.00	84.41	345.50	6583.91	795.05	-243.36	831.38	831.46	342.98	13.85
6983.00	86.51	345.56	6586.37	824.97	-251.08	862.23	862.33	343.07	6.78
7014.00	86.64	345.49	6588.22	854.93	-258.82	893.12	893.25	343.16	.48
7075.00	87.68	344.80	6591.24	913.82	-274.44	953.96	954.14	343.28	2.05
7139.00	89.63	344.71	6592.74	975.55	-291.26	1017.87	1018.10	343.38	3.05
7202.00	91.31	344.84	6592.23	1036.33	-307.80	1080.80	1081.08	343.46	2.67
7266.00	92.25	344.37	6590.24	1098.01	-324.78	1144.72	1145.03	343.52	1.64
7330.00	93.36	342.89	6587.11	1159.34	-342.80	1208.61	1208.95	343.53	2.89
7393.00	93.30	341.76	6583.45	1219.26	-361.89	1271.51	1271.83	343.47	1.79
7457.00	92.69	341.72	6580.10	1279.95	-381.92	1335.42	1335.72	343.39	.96
Bottom Line CK.									
7520.00	92.83	342.16	6577.07	1339.78	-401.43	1398.34	1398.63	343.32	.73
7584.00	91.11	340.66	6574.87	1400.40	-421.82	1462.30	1462.55	343.24	3.56
7648.00	89.90	338.57	6574.31	1460.39	-444.11	1526.23	1526.42	343.09	3.77

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	
7711.00	90.51	339.16	6574.08	1519.15	-466.82	1589.12	1589.26	342.92	1.35
7774.00	89.56	340.20	6574.04	1578.22	-488.70	1652.06	1652.16	342.79	2.24
7838.00	89.29	340.22	6574.68	1638.44	-510.37	1716.02	1716.09	342.70	.42
7901.00	88.45	340.42	6575.93	1697.75	-531.58	1778.97	1779.03	342.61	1.37
7965.00	88.46	341.02	6577.65	1758.14	-552.70	1842.93	1842.97	342.55	.94
8028.00	89.16	340.72	6578.96	1817.65	-573.35	1905.90	1905.93	342.49	1.21
Bottom Line CK.									
8092.00	90.03	340.78	6579.41	1878.07	-594.44	1969.88	1969.90	342.44	1.36
8156.00	89.23	340.43	6579.83	1938.43	-615.70	2033.85	2033.86	342.38	1.36
8219.00	89.73	340.64	6580.40	1997.83	-636.69	2096.82	2096.83	342.32	.86
8282.00	90.54	340.67	6580.25	2057.27	-657.56	2159.80	2159.80	342.27	1.29
8346.00	90.44	340.97	6579.70	2117.72	-678.58	2223.78	2223.78	342.23	.49
8410.00	89.80	341.93	6579.57	2178.39	-698.94	2287.77	2287.77	342.21	1.80
8474.00	90.37	342.72	6579.47	2239.37	-718.38	2351.77	2351.77	342.21	1.52
8537.00	91.21	342.04	6578.60	2299.41	-737.44	2414.76	2414.76	342.22	1.72
8601.00	91.24	341.22	6577.24	2360.13	-757.61	2478.75	2478.75	342.20	1.28
8665.00	90.03	341.69	6576.53	2420.80	-777.96	2542.74	2542.74	342.18	2.03
8728.00	89.63	342.22	6576.71	2480.70	-797.48	2605.73	2605.73	342.18	1.05
8792.00	90.37	341.47	6576.71	2541.52	-817.42	2669.73	2669.73	342.17	1.65
8856.00	89.66	341.36	6576.70	2602.18	-837.82	2733.73	2733.73	342.15	1.12
8920.00	89.73	341.11	6577.04	2662.77	-858.40	2797.72	2797.72	342.13	.41
8983.00	90.67	341.00	6576.82	2722.36	-878.86	2860.70	2860.71	342.11	1.50
9047.00	90.03	342.23	6576.43	2783.09	-899.04	2924.70	2924.70	342.10	2.17
9111.00	89.87	340.99	6576.48	2843.82	-919.23	2988.69	2988.70	342.09	1.95
9174.00	90.54	340.61	6576.26	2903.32	-939.95	3051.68	3051.68	342.06	1.22
9237.00	90.57	341.03	6575.65	2962.82	-960.65	3114.65	3114.66	342.04	.67
9300.00	90.57	341.24	6575.02	3022.43	-981.02	3177.64	3177.65	342.02	.33
9364.00	90.30	341.04	6574.53	3082.99	-1001.70	3241.63	3241.64	342.00	.53
9428.00	90.07	341.32	6574.33	3143.57	-1022.35	3305.62	3305.64	341.98	.57
9492.00	90.10	341.61	6574.23	3204.25	-1042.69	3369.61	3369.63	341.97	.46
9555.00	90.60	341.78	6573.85	3264.06	-1062.48	3432.61	3432.63	341.97	.84
9618.00	90.07	342.23	6573.48	3323.98	-1081.94	3495.61	3495.63	341.97	1.10
9681.00	89.66	342.17	6573.63	3383.96	-1101.20	3558.61	3558.63	341.97	.66
9745.00	90.44	342.25	6573.57	3444.90	-1120.76	3622.61	3622.63	341.98	1.23
9809.00	90.40	342.57	6573.10	3505.91	-1140.10	3686.61	3686.62	341.99	.50
9873.00	90.44	342.64	6572.63	3566.98	-1159.23	3750.60	3750.62	342.00	.13
9936.00	90.00	342.63	6572.39	3627.11	-1178.03	3813.60	3813.61	342.01	.70
10000.00	89.87	342.63	6572.47	3688.19	-1197.14	3877.60	3877.61	342.02	.20
10064.00	90.84	343.08	6572.07	3749.34	-1216.00	3941.59	3941.60	342.03	1.67
10127.00	91.81	343.07	6570.61	3809.60	-1234.34	4004.56	4004.57	342.05	1.54
10191.00	91.58	343.05	6568.72	3870.79	-1252.98	4068.53	4068.54	342.06	.36
10254.00	91.14	342.62	6567.22	3930.97	-1271.57	4131.51	4131.51	342.07	.98
10318.00	90.97	343.34	6566.05	3992.15	-1290.30	4195.49	4195.49	342.09	1.16
10381.00	90.40	342.87	6565.29	4052.43	-1308.60	4258.48	4258.48	342.10	1.17
10445.00	90.07	343.02	6565.03	4113.62	-1327.37	4322.47	4322.47	342.12	.57
Bottom Line CK.									
10509.00	89.40	343.31	6565.33	4174.87	-1345.91	4386.46	4386.46	342.13	1.14

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	
10573.00	90.13	343.35	6565.59	4236.18	-1364.27	4450.44	4450.44	342.15	1.14
10636.00	89.63	343.79	6565.72	4296.61	-1382.09	4513.43	4513.43	342.17	1.06
10700.00	89.50	344.08	6566.21	4358.11	-1399.80	4577.39	4577.39	342.19	.50
10763.00	90.40	344.48	6566.26	4418.75	-1416.87	4640.35	4640.35	342.22	1.56
10827.00	90.50	343.81	6565.76	4480.31	-1434.35	4704.31	4704.31	342.25	1.06
10890.00	90.30	343.20	6565.32	4540.72	-1452.24	4767.29	4767.30	342.26	1.02
10954.00	90.03	342.95	6565.13	4601.95	-1470.87	4831.28	4831.29	342.28	.57
11018.00	89.43	341.86	6565.44	4662.95	-1490.22	4895.28	4895.29	342.28	1.94
11081.00	89.23	340.64	6566.17	4722.60	-1510.46	4958.27	4958.27	342.26	1.96
11145.00	90.27	341.61	6566.45	4783.16	-1531.17	5022.25	5022.26	342.25	2.22
11209.00	90.67	341.67	6565.93	4843.90	-1551.33	5086.25	5086.25	342.24	.63
11272.00	88.59	339.87	6566.33	4903.38	-1572.07	5149.22	5149.22	342.22	4.37
11336.00	87.45	340.16	6568.54	4963.48	-1593.93	5213.14	5213.14	342.20	1.84
11400.00	88.05	339.25	6571.06	5023.46	-1616.11	5277.03	5277.03	342.17	1.70
11463.00	88.82	339.35	6572.78	5082.37	-1638.38	5339.92	5339.93	342.13	1.23
11527.00	89.23	339.03	6573.87	5142.19	-1661.11	5403.83	5403.83	342.10	.81
11591.00	90.20	338.89	6574.19	5201.92	-1684.09	5467.73	5467.74	342.06	1.53
11654.00	90.10	339.89	6574.02	5260.89	-1706.26	5530.65	5530.67	342.03	1.60
11718.00	89.87	340.95	6574.04	5321.19	-1727.71	5594.62	5594.64	342.01	1.69
11782.00	91.01	341.45	6573.55	5381.77	-1748.33	5658.61	5658.63	342.00	1.95
11845.00	92.25	341.41	6571.75	5441.46	-1768.39	5721.58	5721.60	342.00	1.97
11909.00	91.85	341.76	6569.46	5502.15	-1788.59	5785.53	5785.56	341.99	.83
11972.00	91.01	342.10	6567.89	5562.02	-1808.13	5848.51	5848.54	341.99	1.44
12036.00	91.55	341.84	6566.46	5622.86	-1827.93	5912.49	5912.52	341.99	.94
12100.00	91.34	342.46	6564.85	5683.76	-1847.54	5976.47	5976.50	341.99	1.02
12164.00	90.61	342.86	6563.76	5744.85	-1866.61	6040.46	6040.49	342.00	1.30
12227.00	91.65	343.03	6562.52	5805.06	-1885.09	6103.44	6103.47	342.01	1.67
Proj. to bit.									
12281.00	91.65	343.03	6560.96	5856.69	-1900.84	6157.41	6157.44	342.02	.00