

Job Number: 23D0910108	State/Country: WV
Company: Stone Energy	Declination:
Lease/Well: Mason-Conlon Unit 1 #2H	Grid:
Location: Wetzel County	File name: D:WINSERVE\JOBS\MCU-1-2H.SVY
Rig Name: Saxon 141	Date/Time: 20-Sep-10 / 02:02
RKB: ¶	Curve Name: Work Curve
G.L. or M.S.L.: ¶	

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 332.71
 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	.21	97.26	108.00	-.03	.20	-.11	.20	97.26	.19
208.00	.15	350.64	208.00	.08	.36	-.09	.37	77.21	.29
308.00	.16	248.54	308.00	.16	.21	.05	.26	52.27	.24
408.00	.13	48.54	408.00	.18	.16	.09	.24	41.27	.29
508.00	.20	312.63	508.00	.38	.12	.28	.39	17.31	.25
608.00	.17	222.73	608.00	.39	-.11	.39	.40	343.83	.26
708.00	.18	101.29	708.00	.25	-.06	.25	.25	346.64	.31
808.00	.16	58.31	808.00	.29	.21	.16	.36	36.62	.13
908.00	.17	26.99	908.00	.49	.40	.26	.64	39.04	.09
1008.00	.16	319.90	1008.00	.73	.38	.48	.82	27.28	.18
1108.00	.15	218.70	1108.00	.74	.21	.56	.77	15.62	.24
1208.00	.13	156.80	1208.00	.53	.17	.39	.56	17.65	.15
1308.00	.26	73.68	1308.00	.49	.43	.24	.65	41.32	.28
1408.00	.45	359.69	1407.99	.95	.65	.55	1.15	34.34	.45
1508.00	.19	358.44	1507.99	1.51	.64	1.04	1.64	23.04	.26
1608.00	.23	31.61	1607.99	1.84	.74	1.30	1.99	21.92	.13
1708.00	.19	51.97	1707.99	2.12	.98	1.43	2.33	24.79	.08
1808.00	.35	36.81	1807.99	2.46	1.29	1.60	2.78	27.66	.17
1908.00	.39	355.66	1907.99	3.05	1.45	2.04	3.37	25.42	.26
2008.00	.42	86.71	2007.99	3.41	1.79	2.21	3.85	27.70	.58
2108.00	.47	95.97	2107.98	3.38	2.56	1.83	4.24	37.12	.09
2208.00	.82	98.40	2207.98	3.24	3.68	1.19	4.90	48.64	.35
2308.00	.72	97.70	2307.97	3.05	5.01	.41	5.86	58.67	.10
2408.00	1.04	93.98	2407.96	2.90	6.54	-.42	7.15	66.06	.32

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	.44	102.54	2507.95	2.76	7.82	-1.14	8.29	70.58	.61
2608.00	.82	105.11	2607.94	2.49	8.88	-1.86	9.22	74.37	.38
2708.00	.47	117.00	2707.94	2.11	9.94	-2.68	10.16	78.00	.37
2808.00	.29	151.53	2807.93	1.70	10.42	-3.27	10.56	80.72	.28
2908.00	.20	234.71	2907.93	1.38	10.40	-3.54	10.49	82.44	.33
3008.00	.43	276.69	3007.93	1.32	9.89	-3.36	9.98	82.38	.31
3108.00	.32	289.21	3107.93	1.46	9.25	-2.94	9.37	81.04	.14
3208.00	.23	322.74	3207.93	1.71	8.87	-2.54	9.03	79.08	.18
3308.00	.40	269.53	3307.93	1.87	8.40	-2.19	8.60	77.46	.32
3408.00	.64	287.54	3407.92	2.03	7.51	-1.64	7.78	74.86	.29
3508.00	.62	291.16	3507.92	2.40	6.48	-.84	6.91	69.69	.04
3608.00	.19	283.15	3607.91	2.63	5.81	-.33	6.38	65.65	.43
3708.00	.45	278.60	3707.91	2.73	5.26	.01	5.93	62.61	.26
3808.00	.38	329.12	3807.91	3.07	4.70	.57	5.62	56.86	.36
3908.00	.54	306.98	3907.91	3.64	4.16	1.33	5.52	48.80	.24
4008.00	.49	319.59	4007.90	4.25	3.50	2.17	5.50	39.51	.12
4108.00	.36	284.55	4107.90	4.65	2.92	2.79	5.49	32.13	.28
4208.00	.22	265.33	4207.90	4.71	2.43	3.08	5.30	27.22	.17
4308.00	.23	261.94	4307.90	4.67	2.04	3.22	5.10	23.55	.02
4408.00	.38	322.90	4407.90	4.91	1.64	3.61	5.17	18.44	.34
4508.00	.26	21.31	4507.90	5.38	1.52	4.09	5.59	15.76	.33
4608.00	.42	318.37	4607.89	5.87	1.36	4.59	6.02	13.03	.38
4708.00	.43	359.59	4707.89	6.52	1.11	5.28	6.61	9.68	.30
4808.00	.14	345.76	4807.89	7.01	1.08	5.74	7.09	8.75	.30
4908.00	.21	8.64	4907.89	7.31	1.08	6.00	7.39	8.38	.10
5008.00	.49	339.08	5007.89	7.89	.95	6.58	7.95	6.88	.32
5108.00	.50	315.43	5107.88	8.60	.49	7.42	8.62	3.28	.20
5158.00	.45	348.76	5157.88	8.95	.30	7.82	8.95	1.93	.55
5783.00	.40	358.31	5782.86	13.54	-.24	12.14	13.54	358.98	.01
5814.00	.20	266.31	5813.86	13.64	-.30	12.26	13.65	358.74	1.46
5877.00	.60	342.71	5876.86	13.95	-.51	12.63	13.96	357.92	.93
5939.00	.40	33.21	5938.86	14.44	-.48	13.06	14.45	358.08	.75
6002.00	1.40	28.01	6001.85	15.30	.00	13.60	15.30	359.99	1.59
6065.00	2.10	43.71	6064.82	16.82	1.16	14.42	16.86	3.93	1.34
6127.00	1.90	31.21	6126.79	18.52	2.47	15.32	18.68	7.61	.77
6190.00	1.50	30.11	6189.76	20.13	3.43	16.31	20.42	9.67	.64
6252.00	1.70	28.21	6251.73	21.64	4.27	17.27	22.06	11.16	.33
6315.00	1.10	2.71	6314.72	23.07	4.74	18.33	23.55	11.61	1.35
6346.00	1.10	14.21	6345.71	23.65	4.83	18.81	24.14	11.54	.71
6378.00	1.40	351.41	6377.70	24.34	4.84	19.41	24.81	11.26	1.80
6409.00	2.90	333.41	6408.68	25.41	4.44	20.55	25.80	9.90	5.25
6441.00	5.10	326.31	6440.60	27.32	3.28	22.77	27.52	6.86	7.03
6472.00	7.70	326.11	6471.40	30.19	1.36	26.20	30.22	2.58	8.39
6504.00	11.20	329.61	6502.97	34.65	-1.41	31.44	34.68	357.68	11.08
6535.00	14.80	332.31	6533.17	40.76	-4.77	38.41	41.03	353.32	11.77

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	
6566.00	17.60	333.61	6562.93	48.46	-8.70	47.05	49.24	349.83	9.11
6598.00	20.10	334.01	6593.21	57.74	-13.26	57.39	59.24	347.07	7.82
6629.00	22.70	335.21	6622.07	67.96	-18.10	68.69	70.33	345.09	8.50
6660.00	25.00	334.51	6650.42	79.30	-23.43	81.22	82.69	343.54	7.48
6691.00	27.40	333.81	6678.24	91.62	-29.40	94.90	96.22	342.21	7.81
6723.00	29.40	333.21	6706.39	105.24	-36.19	110.12	111.29	341.02	6.31
6754.00	32.40	333.11	6732.98	119.44	-43.38	126.03	127.07	340.04	9.68
6785.00	35.60	334.31	6758.68	134.98	-51.05	143.36	144.31	339.28	10.55
MWD Survey									
6820.00	40.79	335.89	6786.18	154.61	-60.14	164.98	165.90	338.74	15.09
6852.00	43.96	337.63	6809.82	174.43	-68.64	186.49	187.45	338.52	10.56
6884.00	46.78	338.81	6832.29	195.58	-77.08	209.15	210.22	338.49	9.19
6916.00	49.55	338.14	6853.64	217.75	-85.83	232.87	234.06	338.49	8.80
6948.00	50.82	337.94	6874.13	240.55	-95.03	257.34	258.64	338.44	4.00
6979.00	53.74	336.88	6893.09	263.18	-104.45	281.78	283.15	338.35	9.80
7011.00	56.41	335.73	6911.41	287.20	-114.99	307.96	309.37	338.18	8.85
7043.00	59.62	335.27	6928.36	311.90	-126.25	335.07	336.48	337.96	10.11
7075.00	62.84	336.15	6943.76	337.46	-137.78	363.07	364.51	337.79	10.35
7107.00	65.84	336.22	6957.61	363.85	-149.43	391.86	393.34	337.67	9.38
7138.00	68.27	336.61	6969.70	390.01	-160.85	420.35	421.88	337.59	7.92
7170.00	71.63	337.26	6980.67	417.66	-172.62	450.32	451.93	337.54	10.67
7202.00	75.17	336.71	6989.81	445.88	-184.61	480.90	482.59	337.51	11.18
7234.00	78.60	336.95	6997.07	474.53	-196.87	511.98	513.75	337.47	10.74
7266.00	82.48	336.55	7002.32	503.53	-209.33	543.46	545.30	337.43	12.19
7330.00	89.26	335.21	7006.93	561.75	-235.40	607.16	609.08	337.26	10.80
7394.00	91.11	333.29	7006.72	619.39	-263.20	671.13	672.99	336.98	4.17
7457.00	92.32	332.34	7004.84	675.40	-291.97	734.10	735.81	336.62	2.44
7521.00	90.94	330.06	7003.02	731.46	-322.79	798.04	799.52	336.19	4.16
7585.00	90.57	328.85	7002.18	786.57	-355.31	861.93	863.10	335.69	1.98
7648.00	90.97	328.00	7001.33	840.24	-388.30	924.75	925.62	335.20	1.49
7712.00	91.31	329.58	7000.06	894.96	-421.45	988.59	989.23	334.78	2.52
7776.00	90.50	330.89	6999.04	950.51	-453.22	1052.52	1053.03	334.51	2.41
7839.00	90.51	331.05	6998.49	1005.59	-483.79	1115.48	1115.92	334.31	.25
7903.00	90.81	330.99	6997.75	1061.58	-514.80	1179.45	1179.81	334.13	.48
7966.00	91.01	330.19	6996.75	1116.45	-545.73	1242.40	1242.69	333.95	1.31
8030.00	90.27	330.82	6996.04	1172.15	-577.24	1306.35	1306.58	333.78	1.52
8094.00	89.97	330.81	6995.90	1228.03	-608.45	1370.31	1370.40	333.64	.47
8158.00	90.81	331.71	6995.47	1284.14	-639.22	1434.29	1434.44	333.54	1.92
8221.00	91.08	331.69	6994.43	1339.60	-669.08	1497.27	1497.40	333.46	.43
8285.00	91.41	332.10	6993.04	1396.04	-699.22	1561.25	1561.36	333.40	.82
8349.00	91.88	331.64	6991.20	1452.46	-729.39	1625.22	1625.31	333.34	1.03
8413.00	91.21	332.36	6989.47	1508.95	-759.42	1689.19	1689.27	333.28	1.54
8476.00	90.97	332.67	6988.28	1564.83	-788.49	1752.18	1752.26	333.26	.62
8540.00	90.57	332.75	6987.42	1621.70	-817.83	1816.17	1816.25	333.24	.64
8603.00	90.74	332.94	6986.70	1677.75	-846.58	1879.17	1879.24	333.22	.40
8667.00	90.71	333.48	6985.89	1734.88	-875.43	1943.16	1943.24	333.22	.84

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	
8730.00	90.24	333.56	6985.36	1791.26	-903.52	2006.15	2006.23	333.23	.76
8793.00	90.10	332.94	6985.18	1847.52	-931.87	2069.15	2069.23	333.23	1.01
8857.00	91.35	333.25	6984.37	1904.59	-960.83	2133.14	2133.23	333.23	2.01
8920.00	92.22	333.70	6982.40	1960.93	-988.95	2196.10	2196.19	333.24	1.55
8984.00	92.18	333.23	6979.95	2018.14	-1017.52	2260.05	2260.15	333.24	.74
9048.00	92.59	333.60	6977.28	2075.33	-1046.14	2323.99	2324.09	333.25	.86
9111.00	92.42	332.54	6974.53	2131.44	-1074.64	2386.92	2387.03	333.24	1.70
9175.00	92.59	332.55	6971.73	2188.18	-1104.12	2450.86	2450.96	333.23	.27
9237.00	92.25	332.59	6969.12	2243.16	-1132.66	2512.81	2512.90	333.21	.55
9301.00	92.12	332.71	6966.68	2299.96	-1162.04	2576.76	2576.85	333.20	.28
9365.00	91.88	333.02	6964.44	2356.89	-1191.21	2640.72	2640.81	333.19	.61
9428.00	91.95	333.00	6962.34	2412.99	-1219.79	2703.69	2703.78	333.18	.12
9492.00	91.11	332.76	6960.63	2469.93	-1248.95	2767.66	2767.75	333.18	1.36
9556.00	89.93	330.24	6960.05	2526.17	-1279.49	2831.64	2831.72	333.14	4.35
9619.00	90.27	331.08	6959.94	2581.09	-1310.35	2894.60	2894.66	333.08	1.44
9683.00	90.30	330.68	6959.62	2637.00	-1341.50	2958.56	2958.61	333.04	.63
9747.00	90.10	330.01	6959.40	2692.62	-1373.16	3022.51	3022.54	332.98	1.09
9811.00	90.50	329.73	6959.06	2747.97	-1405.29	3086.43	3086.45	332.92	.76
9874.00	90.94	329.88	6958.27	2802.42	-1436.97	3149.34	3149.35	332.85	.74
9937.00	90.87	329.17	6957.27	2856.70	-1468.92	3212.24	3212.24	332.79	1.13
10001.00	90.80	329.61	6956.34	2911.78	-1501.50	3276.12	3276.12	332.72	.70
10065.00	90.87	329.93	6955.41	2967.07	-1533.72	3340.03	3340.03	332.66	.51
10128.00	90.64	330.54	6954.58	3021.75	-1565.00	3402.97	3402.97	332.62	1.03
10191.00	91.41	332.60	6953.45	3077.14	-1594.98	3465.94	3465.95	332.60	3.49
10255.00	92.45	333.09	6951.30	3134.06	-1624.18	3529.90	3529.91	332.61	1.80
10319.00	92.29	333.58	6948.65	3191.20	-1652.87	3593.84	3593.85	332.62	.80
10382.00	92.73	333.12	6945.89	3247.45	-1681.10	3656.78	3656.78	332.63	1.01
10446.00	93.46	332.48	6942.43	3304.29	-1710.31	3720.69	3720.69	332.63	1.52
10510.00	93.46	332.41	6938.57	3360.93	-1739.87	3784.57	3784.57	332.63	.11
10559.00	94.01	331.94	6935.38	3404.17	-1762.69	3833.46	3833.47	332.62	1.48
Proj to bit.									
10614.00	94.01	331.94	6931.53	3452.59	-1788.50	3888.32	3888.33	332.62	.00