

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: November 12, 2013  
API #: 47-103-02720

Farm name: WV Conservation Commission Operator Well No.: Mills-Wetzel #4H

LOCATION: Elevation: 1,331' Quadrangle: Pine Grove

District: Grant County: Wetzel  
Latitude: 5,220 Feet South of 39 Deg. 32 Min. 30 Sec.  
Longitude 2,070 Feet West of 80 Deg. 40 Min. 00 Sec.

Company: **Stone Energy Corporation**

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
6000 Hampton Center, Suite B Morgantown, WV 26505	20"	50'	50'	GTS
Agent: Tim McGregor	13.375"	1,276'	1,276'	1,188 - CTS
Inspector: Derek Haught	9.625"	2,765'	2,765'	1,156 - CTS
Date Permit Issued: 1/23/2012	5.5"		11,458'	2,750
Date Well Work Commenced: 2/28/2012	2.375"		7,780'	
Date Well Work Completed: 4/16/2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,332				
Total Measured Depth (ft): 11,465				
Fresh Water Depth (ft.): 55				
Salt Water Depth (ft.): 1,907				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): None Reported				
Void(s) encountered (N/Y) Depth(s) N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,900' to 11,381'

Gas: Initial open flow 420 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 2,400 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 140 Hours

Static rock Pressure 1,850 psig (surface pressure) after 1 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

01/10/2014

W. A. [Signature]  
Signature

11/12/2013  
Date

103.02720

Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes X No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma Ray, Mud Log, and CBL

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

Perforated 14 intervals from 11,381' to 7,900'. Performed 14 individual stages of slick water stimulation using 4,779,718 gals fresh water, Sand - 583,105 lbs 100 Mesh and 4,733,560 lbs 40/70. AvBDP = 6,873 psi, AvTP = 7,501 psi, AvMTP = 9,109 psi, AvInjRate = 81.8 bpm, and AvSIP = 4,503 psi.

See Attachment for FracFocus information.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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See attached sheet for formations encountered and their depths.

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MILLS-WETZEL #4H

API 47-103-02720

Stone Energy Corporation

	Horizontal			Horizontal	
	Top (ft TVD)	Top (ft MD)		Bottom (ft TVD)	Bottom (ft MD)
Sandstone & Shale	Surface		*	2300	
					FW @ 55'
Little Lime	2300		*	2330	
					SW @ 1907'
Big Lime	2330		*	2454	
Big Injun	2454		*	2554	
Sandstone & Shale	2654		*	2916	
Berea Sandstone	2916		*	2956	
Shale	2956		*	3130	
Gordon	3130		*	3194	
Undiff Devonian Shale	3194		*	5418	
Riley	5418		*	5474	
Undiff Devonian Shale	5474		*	5512	
Benson	5512		*	5550	
Undiff Devonian Shale	5550		*	5753	
Pipe Creek	5753		*	5765	
Lower Alexander	5765		*	5812	
Undiff Devonian Shale	5812		*	6640	6671
Rhinestreet	6640	6671	~	6952	7043
Cashaqua	6952	7043	~	7070	7222
Middlesex	7070	7222	~	7081	7241
West River	7081	7241	~	7161	7394
Geneseo	7161	7394	~	7193	7464
Tully Limestone	7193	7464	~	7260	7657
Hamilton	7260	7657	~	7285	7805
Marcellus	7285	7805	~	7332	11465
TD	7332	11465			

\* From Pilot Hole Log and Driller's Log  
 ~ From MWD Gamma Log

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

103-02720

Fracture Date:	2/25/2013
State:	West Virginia
County/Parish:	Wetzel County
API Number:	4710302720
Operator Name:	Stone Energy
Well Name and Number:	Mills Wetzel #4H
Longitude:	-80.67396
Latitude:	39.52762
Long/Lat Projection:	NAD27
Production Type:	Gas
True Vertical Depth (TVD):	7307
Total Water Volume (gal):	4779718

## Hydraulic Fracturing Fluid Composition

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Slickwater, HCl 15%, WF115, SAPPHIRE VF	Schlumberger	Corrosion Inhibitor, Bactericide (Myacide GA25), Scale Inhibitor, Surfactant, Acid, Breaker, Gelling Agent, Friction Reducer, Rheology Modifier ClearFRAC XT J589, Iron Control Agent, Clay Control Agent, Accelerator, Fluid Loss Additive, Propping Agent	Water (Including Mix Water Supplied by Client)*	-		87.29175%	
			Crystalline silica	14808-60-7	98.59764%	12.53003%	
			Hydrochloric acid	7647-01-0	0.68099%	0.08654%	
			Erucic amidopropyl dimethyl betaine	149879-98-1	0.49935%	0.06346%	
			Propan-2-ol	67-63-0	0.36402%	0.04626%	
			Ammonium sulfate	Proprietary	0.22567%	0.02868%	
			Glutaraldehyde	111-30-8	0.04433%	0.00563%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.04115%	0.00523%	
			Calcium chloride	10043-52-4	0.03628%	0.00461%	
			Carbohydrate polymer	Proprietary	0.01575%	0.00200%	
			Trisodium ortho phosphate	7601-54-9	0.00365%	0.00046%	
			Ethane-1,2-diol	107-21-1	0.00365%	0.00046%	
			Methanol	67-56-1	0.00321%	0.00041%	
			Sodium erythorbate	6381-77-7	0.00293%	0.00037%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00240%	0.00031%	
			Aliphatic acids	Proprietary	0.00240%	0.00031%	
			Prop-2-yn-1-ol	107-19-7	0.00080%	0.00010%	
			Diammonium peroxodisulphate	7727-54-0	0.00076%	0.00010%	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Report ID: RPT-11901 (Generated on 3/29/2013 10:01 AM)

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and

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Job Number: 23D0512108  
 Company: Stone Energy  
 Lease/Well: Mills Wetzel 4H  
 Location: Jacksonburg  
 Rig Name: Saxon 141  
 RKB: 18  
 G.L. or M.S.L.: 1331

State/Country: West Virginia 103-02720  
 Declination: -8.52  
 Grid: -7.77  
 File name: D:\WINSERVE\STONEJ~1\MW#4H.SVY  
 Date/Time: 29-May-12 / 04:14  
 Curve Name: MW#4H As Drilled

Scientific Drilling

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane 154.40  
 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 Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
108.00	.54	164.32	108.00	-.49	.14	.50	.51	164.32	.50
208.00	.47	187.11	207.99	-1.35	.21	1.31	1.37	170.99	.21
308.00	.45	172.06	307.99	-2.15	.22	2.03	2.16	174.21	.12
408.00	.35	183.60	407.99	-2.84	.25	2.67	2.85	174.92	.13
508.00	.24	185.82	507.99	-3.35	.21	3.12	3.36	176.38	.11
608.00	.22	211.96	607.99	-3.72	.09	3.40	3.73	178.62	.11
708.00	.18	153.25	707.99	-4.03	.06	3.66	4.03	179.17	.20
808.00	.23	144.24	807.99	-4.33	.25	4.01	4.34	176.74	.06
908.00	.23	153.35	907.98	-4.67	.45	4.41	4.70	174.45	.04
1008.00	.18	152.91	1007.98	-4.99	.62	4.77	5.03	172.97	.05
1108.00	.09	131.95	1107.98	-5.18	.75	5.00	5.24	171.82	.10
1208.00	.10	157.26	1207.98	-5.32	.84	5.16	5.38	171.05	.04
1308.00	.22	166.50	1307.98	-5.59	.92	5.43	5.66	170.69	.12
1408.00	.23	198.04	1407.98	-5.96	.90	5.77	6.03	171.43	.12
1508.00	.35	226.84	1507.98	-6.36	.61	6.00	6.39	174.49	.19
1608.00	.30	204.33	1607.98	-6.81	.28	6.26	6.82	177.62	.14
1708.00	.34	208.38	1707.98	-7.31	.03	6.61	7.31	179.73	.05
1808.00	.21	173.71	1807.98	-7.75	-.09	6.95	7.75	180.64	.21
1908.00	.36	176.41	1907.98	-8.25	-.05	7.42	8.25	180.33	.15
2008.00	.54	163.50	2007.97	-9.01	.11	8.17	9.01	179.82	.21
2108.00	.71	134.60	2107.97	-9.90	.68	9.22	9.92	176.06	.35
2208.00	.80	126.93	2207.96	-10.76	1.68	10.43	10.89	174.92	.14
2308.00	1.03	132.02	2307.95	-11.78	2.91	11.88	12.13	166.14	.24
2408.00	.97	128.91	2407.93	-12.91	4.23	13.47	13.59	161.85	.25
2508.00	.86	120.37	2507.92	-13.82	5.54	14.86	14.89	158.16	.29
2608.00	.85	110.62	2607.91	-14.46	6.88	16.01	16.01	154.56	.29
2708.00	.87	91.12	2707.90	-14.74	8.33	16.89	16.93	150.51	.29
2808.00	.27	72.67	2807.89	-14.68	9.32	17.27	17.39	147.60	.62
2908.00	1.68	113.38	2907.87	-15.19	10.80	18.44	18.88	144.88	.62

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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	
3008.00	3.74	127.66	3007.76	-17.77	14.82	22.43	23.14	140.18	2.15
3108.00	4.59	138.90	3107.49	-22.78	20.03	29.19	30.33	138.67	1.17
3208.00	5.11	158.49	3207.14	-29.94	24.29	37.49	38.55	140.94	1.73
3308.00	5.90	175.93	3306.69	-39.21	26.29	46.72	47.20	146.16	1.84
3408.00	6.98	191.39	3406.06	-50.29	25.45	56.35	56.37	153.15	2.03
3508.00	9.09	198.92	3505.08	-63.72	21.69	66.84	67.31	161.20	2.35
3608.00	9.62	198.77	3603.75	-79.10	16.44	78.44	80.80	168.26	.53
3708.00	9.91	196.98	3702.30	-95.25	11.24	90.75	95.91	173.27	.42
3808.00	9.67	194.78	3800.84	-111.60	6.59	103.49	111.79	176.62	.44
3908.00	9.37	195.59	3899.47	-127.56	2.26	116.01	127.58	178.99	.33
4008.00	9.68	197.18	3998.09	-143.43	-2.42	128.31	143.45	180.96	.41
4108.00	9.65	196.94	4096.67	-159.48	-7.34	140.65	159.65	182.64	.05
4208.00	9.51	197.53	4195.27	-175.38	-12.27	152.86	175.81	184.00	.17
4308.00	9.50	197.47	4293.90	-191.13	-17.24	164.92	191.90	185.15	.01
4408.00	9.35	196.55	4392.55	-206.78	-22.03	176.97	207.95	186.08	.21
4508.00	9.63	194.48	4491.18	-222.67	-26.43	189.39	224.23	186.77	.44
4608.00	9.30	192.69	4589.82	-238.65	-30.30	202.13	240.57	187.24	.44
4708.00	7.33	192.09	4688.76	-252.77	-33.41	213.52	254.97	187.53	1.97
4808.00	5.71	197.38	4788.12	-263.76	-36.23	222.21	266.24	187.82	1.73
4908.00	3.82	203.33	4887.77	-271.57	-39.04	228.04	274.36	188.18	1.95
5008.00	1.76	204.72	4987.64	-276.02	-41.00	231.21	279.05	188.45	2.06
5108.00	.55	248.47	5087.62	-277.59	-42.09	232.15	280.76	188.62	1.41
5208.00	.61	252.71	5187.62	-277.93	-43.04	232.04	281.24	188.80	.07
5308.00	.53	202.60	5287.61	-278.51	-43.73	232.28	281.92	188.92	.49
5408.00	.63	216.65	5387.61	-279.38	-44.24	232.84	282.86	189.00	.17
5508.00	.53	251.90	5487.60	-279.96	-45.00	233.04	283.56	189.13	.36
5608.00	.59	212.39	5587.60	-280.54	-45.72	233.25	284.24	189.26	.38
5708.00	1.19	176.92	5687.59	-282.01	-45.94	234.48	285.73	189.25	.79
5808.00	1.67	159.01	5787.55	-284.41	-45.36	236.89	288.01	189.06	.65
5908.00	2.03	166.81	5887.50	-287.50	-44.44	240.07	290.91	188.79	.44
6008.00	2.34	156.21	5987.43	-291.09	-43.21	243.84	294.28	188.44	.51
6075.54	1.63	149.40	6054.93	-293.18	-42.16	246.18	296.19	188.18	1.11
6112.00	.86	136.37	6091.38	-293.82	-41.71	246.96	296.77	188.08	2.24
6175.00	.74	136.24	6154.37	-294.46	-41.10	247.79	297.31	187.95	.19
6239.00	.50	126.52	6218.37	-294.92	-40.59	248.43	297.70	187.84	.41
6271.00	.45	113.09	6250.37	-295.05	-40.36	248.65	297.80	187.79	.38
6302.00	1.37	169.95	6281.37	-295.47	-40.19	249.10	298.19	187.75	3.82
6334.00	3.64	187.98	6313.33	-296.85	-40.26	250.31	299.57	187.72	7.42
6366.00	5.99	195.50	6345.22	-299.47	-40.85	252.42	302.24	187.77	7.59
6398.00	8.16	196.87	6376.97	-303.25	-41.95	255.35	306.14	187.88	6.80
6429.00	9.71	196.96	6407.60	-307.85	-43.36	258.90	310.89	188.02	5.00
6461.00	11.02	197.64	6439.07	-313.35	-45.07	263.12	316.58	188.18	4.41
6493.00	12.43	197.65	6470.40	-319.55	-47.04	267.85	322.99	188.37	4.41
6525.00	14.34	198.61	6501.53	-326.59	-49.35	273.20	330.29	188.59	6.01
6556.00	15.99	200.80	6531.45	-334.22	-52.09	278.90	338.25	188.86	5.63
6588.00	17.30	200.86	6562.11	-342.78	-55.35	285.22	347.22	189.17	4.09
6620.00	17.34	199.87	6592.66	-351.71	-58.67	291.84	356.57	189.47	3.20
6652.00	18.96	201.07	6623.07	-361.05	-62.16	298.75	366.36	189.77	2.20
6684.00	21.88	202.50	6653.05	-371.41	-66.31	306.30	377.28	190.12	9.26
6716.00	24.12	202.92	6682.51	-382.94	-71.14	314.61	389.50	190.52	7.02

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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	
6747.00	25.91	202.32	6710.60	-395.04	-76.18	323.35	402.32	190.91	5.83
6779.00	28.48	202.66	6739.06	-408.56	-81.77	333.12	416.66	191.32	8.05
<b>BOTTOM LINE CHECK</b>									
6811.00	30.73	202.01	6766.88	-423.18	-87.78	343.71	432.19	191.72	7.10
6842.00	32.25	201.62	6793.31	-438.21	-93.79	354.67	448.14	192.08	4.95
6874.00	34.02	200.59	6820.11	-454.53	-100.09	366.66	465.42	192.42	5.80
6906.00	36.00	199.91	6846.32	-471.75	-106.44	379.45	483.61	192.71	6.31
6938.00	38.15	199.73	6871.85	-489.90	-112.98	392.99	502.76	192.99	6.73
6970.00	39.64	199.27	6896.75	-508.84	-119.68	407.18	522.73	193.24	4.74
7002.00	40.64	197.66	6921.22	-528.41	-126.21	422.00	543.27	193.43	4.50
7033.00	42.14	195.34	6944.47	-548.06	-132.03	437.21	563.74	193.54	6.92
7065.00	44.52	192.71	6967.75	-569.36	-137.34	454.13	585.69	193.56	9.33
7097.00	46.68	191.04	6990.14	-591.73	-142.04	472.27	608.54	193.50	7.71
7129.00	48.49	189.55	7011.72	-614.98	-146.25	491.41	632.13	193.38	6.62
7161.00	50.50	187.95	7032.51	-639.02	-149.95	511.50	656.38	193.21	7.34
7192.00	52.56	186.61	7051.79	-663.09	-153.02	531.88	680.52	192.99	7.46
7224.00	54.09	185.49	7070.91	-688.62	-155.72	553.73	706.00	192.74	5.54
7256.00	55.72	183.96	7089.30	-714.71	-157.88	576.33	731.94	192.46	6.42
7288.00	57.49	181.65	7106.92	-741.39	-159.18	599.83	758.28	192.12	8.18
7320.00	58.61	179.34	7123.85	-768.54	-159.41	624.21	784.89	191.72	7.05
7351.00	59.37	176.68	7139.83	-795.09	-158.48	648.56	810.73	191.27	7.75
7383.00	60.13	175.09	7155.95	-822.66	-156.50	674.28	837.41	190.77	4.91
7415.00	60.91	174.09	7171.69	-850.39	-153.87	700.42	864.20	190.26	3.65
7446.00	61.82	173.54	7186.55	-877.44	-150.94	726.08	890.32	189.76	3.32
7478.00	62.72	171.88	7201.44	-905.53	-147.34	752.97	917.44	189.24	5.38
7510.00	64.47	170.73	7215.67	-933.86	-143.01	780.39	944.75	188.71	6.35
7542.00	68.28	167.74	7228.50	-962.65	-137.52	808.73	972.43	188.13	14.66
<b>Bottom Line Check</b>									
7574.00	72.32	165.73	7239.28	-991.97	-130.61	838.15	1000.53	187.50	13.94
7606.00	76.16	162.77	7247.97	-1021.59	-122.24	868.49	1028.88	186.82	14.94
7638.00	77.71	160.38	7255.21	-1051.16	-112.39	899.41	1057.16	186.10	8.74
7670.00	78.23	158.23	7261.88	-1080.44	-101.33	930.59	1085.18	185.36	6.77
7701.00	78.34	156.16	7268.17	-1108.42	-89.56	960.91	1112.03	184.62	6.55
7733.00	79.26	154.49	7274.39	-1136.94	-76.46	992.29	1139.51	183.85	5.87
7765.00	80.83	153.11	7279.92	-1165.22	-62.54	1023.81	1166.90	183.07	6.49
7797.00	82.76	152.45	7284.49	-1193.38	-48.06	1055.47	1194.35	182.31	6.37
7828.00	84.41	151.38	7287.95	-1220.56	-33.56	1086.24	1221.02	181.57	6.33
7860.00	85.86	150.18	7290.67	-1248.39	-17.99	1118.06	1248.52	180.83	5.87
7892.00	87.04	150.01	7292.65	-1276.07	-2.07	1149.91	1276.07	180.09	3.73
7924.00	86.64	149.46	7294.41	-1303.67	14.04	1181.76	1303.74	179.38	2.12
7956.00	86.27	148.61	7296.39	-1331.06	30.47	1213.55	1331.40	178.69	2.89
7987.00	86.54	148.58	7298.33	-1357.46	46.59	1244.33	1358.26	178.03	88
8019.00	86.97	147.94	7300.14	-1384.63	63.40	1276.10	1386.08	177.88	2.11
8051.00	86.67	146.69	7301.92	-1411.52	80.65	1307.81	1413.83	176.73	4.01
8082.00	86.67	145.71	7303.72	-1437.24	97.87	1338.44	1440.57	176.10	3.16
8146.00	86.64	144.81	7307.45	-1489.74	134.28	1401.52	1495.78	174.85	1.40
8209.00	86.64	144.47	7311.15	-1541.03	170.67	1463.50	1550.45	173.68	54
8273.00	87.58	144.86	7314.37	-1593.17	207.64	1526.49	1606.65	172.51	1.59
8337.00	88.79	145.74	7316.40	-1645.76	244.05	1589.66	1663.76	171.56	2.34
8400.00	89.76	146.86	7317.20	-1698.17	279.00	1652.02	1720.94	170.67	2.25

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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	
8463.00	90.00	146.44	7317.33	-1750.80	313.64	1714.44	1778.67	169.84	.77
8527.00	89.93	145.50	7317.37	-1803.84	349.45	1777.75	1837.37	169.04	1.47
8590.00	90.13	145.78	7317.34	-1855.84	385.01	1840.02	1895.36	168.28	.55
8654.00	89.09	144.29	7317.77	-1908.29	421.69	1903.16	1954.32	167.54	2.84
8717.00	87.95	143.51	7319.40	-1959.17	458.79	1965.08	2012.17	166.82	2.19
8781.00	88.39	143.87	7321.44	-2010.72	496.67	2027.94	2071.15	166.13	.89
8844.00	88.93	143.97	7322.92	-2061.62	533.76	2089.87	2129.60	165.48	.87
8908.00	89.43	143.20	7323.83	-2113.12	571.75	2152.72	2189.10	164.86	1.43
8971.00	88.19	142.93	7325.14	-2163.46	609.60	2214.48	2247.71	164.26	2.01
9035.00	89.80	145.11	7326.26	-2215.24	647.19	2277.42	2307.84	163.71	4.23
9099.00	91.04	145.46	7325.79	-2267.85	683.63	2340.61	2368.65	163.22	2.01
9162.00	92.05	145.61	7324.10	-2319.77	719.27	2402.83	2428.72	162.77	1.62
9226.00	90.91	144.79	7322.44	-2372.30	755.78	2465.98	2489.79	162.33	2.19
9290.00	90.37	144.77	7321.73	-2424.58	792.69	2529.08	2550.88	161.90	.84
<b>Bottom Line Check</b>									
9353.00	90.24	145.08	7321.39	-2476.14	828.89	2591.22	2611.20	161.49	.53
9416.00	89.36	144.82	7321.61	-2527.72	865.07	2653.36	2671.65	161.11	1.46
9480.00	90.00	144.71	7321.97	-2579.99	902.00	2716.46	2733.12	160.73	1.01
9544.00	90.40	144.22	7321.75	-2632.07	939.19	2779.50	2794.62	160.36	.99
9607.00	89.46	143.20	7321.82	-2682.85	976.48	2841.40	2855.03	160.00	2.20
9671.00	88.96	142.09	7322.71	-2733.72	1015.31	2904.05	2916.17	159.62	1.90
9734.00	89.50	142.15	7323.55	-2783.44	1053.99	2965.61	2976.31	159.26	.86
9798.00	89.36	142.87	7324.19	-2834.22	1092.94	3028.23	3037.65	158.91	1.15
9862.00	88.08	142.64	7325.62	-2885.15	1131.66	3090.90	3099.15	158.58	2.03
9925.00	88.62	142.98	7327.43	-2935.32	1169.73	3152.59	3159.80	158.27	1.01
9989.00	89.50	142.89	7328.48	-2986.38	1208.29	3215.30	3221.56	157.97	1.38
10053.00	89.87	142.35	7328.83	-3037.23	1247.15	3277.95	3283.32	157.68	1.02
10116.00	89.56	143.15	7329.15	-3087.38	1285.28	3339.65	3344.23	157.40	1.36
10180.00	89.06	143.83	7329.92	-3138.82	1323.36	3402.49	3406.38	157.14	1.32
10244.00	89.70	144.54	7330.61	-3190.71	1360.80	3465.47	3468.78	156.90	1.49
10307.00	90.40	144.51	7330.56	-3242.02	1397.36	3527.54	3530.34	156.68	1.11
10371.00	90.77	143.51	7329.90	-3293.80	1434.97	3590.48	3592.80	156.46	1.67
10434.00	90.60	143.19	7329.15	-3344.34	1472.58	3652.31	3654.19	156.24	.58
10498.00	89.40	143.24	7329.15	-3395.59	1510.90	3715.09	3716.57	156.01	1.88
10562.00	89.26	144.05	7329.90	-3447.13	1548.83	3777.97	3779.10	155.81	1.28
10625.00	90.27	144.43	7330.16	-3498.25	1585.65	3839.98	3840.84	155.62	1.71
10689.00	90.44	145.01	7329.76	-3550.50	1622.61	3903.06	3903.71	155.44	.94
10752.00	89.63	145.49	7329.72	-3602.26	1658.52	3965.26	3965.73	155.28	1.49
10816.00	89.53	145.70	7330.19	-3655.06	1694.68	4028.50	4028.83	155.13	.36
10880.00	88.69	144.94	7331.18	-3707.69	1731.09	4091.69	4091.90	154.97	1.77
10943.00	89.43	145.32	7332.22	-3759.37	1767.11	4153.86	4153.98	154.82	1.32
11007.00	90.00	144.94	7332.54	-3811.88	1803.70	4217.03	4217.07	154.68	1.07
11071.00	90.40	144.74	7332.31	-3864.20	1840.55	4280.14	4280.15	154.53	1.70
11134.00	90.03	144.75	7332.08	-3915.64	1876.92	4342.24	4342.24	154.39	.59
11198.00	90.27	145.31	7331.91	-3968.09	1913.60	4405.39	4405.40	154.25	.95
11261.00	88.99	146.16	7332.32	-4020.15	1949.07	4467.67	4467.71	154.13	2.44
11325.00	89.83	146.00	7332.97	-4073.26	1984.78	4530.99	4531.09	154.05	1.07
11388.00	90.50	146.08	7332.79	-4125.51	2019.97	4593.32	4593.49	153.91	1.21
<b>Strait Line Projection To TD</b>									
11465.00	90.50	146.08	7332.12	-4189.40	2062.94	4669.51	4669.78	153.78	nn

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