



Company: GMT Job Number: 171346NM Calculation Method Minimum Curvature
Well: Romeo Federal 1H Mag Decl.: 6.95 Proposed Azimuth 183.46
Location: Lea County Dir Driller: John Workman Depth Reference KB
Job Date: 1/19/2017 MWD Eng: K. Prestridge Tie Into: Assumed Vertical

Current Survey Offset		53												
Survey Number	Measured Depth	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
Tie In		0	0	0	0	0	0	0.00	0	0.00	0			
1	173	118	0.20	50.40	118	118.00	-0.14	0.13 N	0.16 E	0.21	50.40	0.17	0.17	42.71
2	260	205	0.20	123.30	87	205.00	-0.17	0.14 N	0.40 E	0.43	70.23	0.27	0.00	83.79
3	354	299	0.20	157.00	94	299.00	0.06	0.10 S	0.60 E	0.61	99.07	0.12	0.00	35.85
4	447	392	0.30	117.20	93	392.00	0.30	0.36 S	0.88 E	0.95	112.00	0.21	0.11	-42.80
5	538	483	0.40	118.00	91	483.00	0.53	0.62 S	1.38 E	1.51	114.08	0.11	0.11	0.88
6	629	574	0.60	148.40	91	573.99	1.05	1.17 S	1.91 E	2.24	121.54	0.36	0.22	33.41
7	716	661	0.50	136.10	87	660.99	1.68	1.83 S	2.41 E	3.03	127.26	0.18	-0.11	-14.14
8	805	750	0.60	158.60	89	749.98	2.37	2.55 S	2.85 E	3.82	131.79	0.27	0.11	25.28
9	899	844	0.90	150.70	94	843.98	3.44	3.65 S	3.39 E	4.98	137.11	0.34	0.32	-8.40
10	994	939	0.90	152.60	95	938.96	4.70	4.96 S	4.10 E	6.43	140.45	0.03	0.00	2.00
11	1088	1033	0.60	161.40	94	1032.96	5.79	6.08 S	4.59 E	7.62	142.94	0.34	-0.32	9.36
12	1183	1128	0.50	159.40	95	1127.95	6.63	6.94 S	4.90 E	8.50	144.79	0.11	-0.11	-2.11
13	1280	1225	0.50	185.20	97	1224.95	7.44	7.76 S	5.01 E	9.24	147.16	0.23	0.00	26.60
14	1355	1302	0.70	209.60	77	1301.94	8.20	8.50 S	4.75 E	9.74	150.83	0.42	0.26	31.69
15	1450	1397	0.60	230.50	95	1396.94	9.06	9.32 S	4.08 E	10.18	156.39	0.27	-0.11	22.00
16	1546	1493	1.20	265.30	96	1492.93	9.55	9.73 S	2.69 E	10.09	164.56	0.82	0.63	36.25
17	1642	1589	1.80	273.20	96	1588.89	9.70	9.72 S	0.18 E	9.73	178.95	0.66	0.63	8.23
18	1736	1683	1.90	279.20	94	1682.84	9.55	9.39 S	2.83 W	9.81	196.79	0.23	0.11	6.38
19	1831	1778	2.00	283.60	95	1777.79	9.10	8.75 S	6.00 W	10.61	214.43	0.19	0.11	4.63
20	1927	1874	2.30	284.80	96	1873.72	8.42	7.87 S	9.49 W	12.33	230.35	0.32	0.31	1.25
21	2022	1969	2.60	292.40	95	1968.63	7.35	6.56 S	13.33 W	14.85	243.80	0.46	0.32	8.00
22	2118	2065	0.90	274.80	96	2064.59	6.62	5.66 S	16.09 W	17.06	250.61	1.84	-1.77	-18.33
23	2213	2160	0.40	238.40	95	2159.58	6.80	5.78 S	17.12 W	18.06	251.35	0.66	-0.53	-38.32
24	2308	2255	0.80	270.00	95	2254.58	7.03	5.95 S	18.06 W	19.02	251.77	0.53	0.42	33.26
25	2403	2350	0.80	273.50	95	2349.57	7.07	5.91 S	19.39 W	20.27	253.05	0.05	0.00	3.68
26	2499	2446	1.00	289.80	96	2445.55	6.83	5.58 S	20.84 W	21.58	255.00	0.34	0.21	16.98
27	2594	2541	1.20	286.00	95	2540.54	6.38	5.03 S	22.58 W	23.13	257.44	0.22	0.21	-4.00
28	2690	2637	1.50	291.40	96	2636.51	5.78	4.29 S	24.72 W	25.09	260.15	0.34	0.31	5.62
29	2785	2732	1.90	305.90	95	2731.47	4.55	2.92 S	27.15 W	27.31	263.87	0.62	0.42	15.26
30	2881	2828	2.20	306.10	96	2827.41	2.70	0.90 S	29.93 W	29.94	268.28	0.31	0.31	0.21
31	2976	2923	1.40	326.70	95	2922.36	0.79	1.15 N	32.04 W	32.06	272.05	1.07	-0.84	21.68
32	3071	3018	1.40	339.10	95	3017.33	-1.20	3.20 N	33.09 W	33.24	275.53	0.32	0.00	13.05
33	3166	3113	1.60	343.80	95	3112.30	-3.50	5.56 N	33.87 W	34.33	279.32	0.25	0.21	4.95
34	3261	3208	1.80	350.00	95	3207.26	-6.20	8.30 N	34.50 W	35.49	283.53	0.29	0.21	6.53
35	3357	3304	1.50	15.60	96	3303.22	-8.90	11.00 N	34.43 W	36.14	287.72	0.82	-0.31	-348.33
36	3452	3399	0.80	67.20	95	3398.20	-10.41	12.45 N	33.48 W	35.72	290.40	1.25	-0.74	54.32
37	3547	3494	0.90	96.30	95	3493.19	-10.66	12.63 N	32.13 W	34.52	291.46	0.46	0.11	30.63
38	3642	3589	1.20	99.80	95	3588.18	-10.52	12.38 N	30.41 W	32.83	292.15	0.32	0.32	3.68
39	3738	3685	1.40	103.00	96	3684.15	-10.21	11.94 N	28.27 W	30.69	292.90	0.22	0.21	3.33
40	3833	3780	0.80	112.70	95	3779.13	-9.80	11.42 N	26.53 W	28.88	293.30	0.66	-0.63	10.21
41	3928	3875	0.90	132.70	95	3874.12	-9.11	10.66 N	25.37 W	27.52	292.79	0.33	0.11	21.05
42	4023	3970	0.70	130.40	95	3969.11	-8.29	9.78 N	24.38 W	26.27	291.86	0.21	-0.21	-2.42
43	4119	4066	0.60	106.90	96	4065.11	-7.82	9.25 N	23.45 W	25.21	291.53	0.29	-0.10	-24.48
44	4213	4160	0.60	130.20	94	4159.10	-7.41	8.79 N	22.61 W	24.26	291.25	0.26	0.00	24.79
45	4308	4255	0.50	163.20	95	4254.10	-6.73	8.07 N	22.11 W	23.53	290.07	0.34	-0.11	34.74
46	4403	4350	0.60	141.20	95	4349.09	-5.97	7.29 N	21.67 W	22.87	288.59	0.24	0.11	-23.16
47	4499	4446	0.40	131.80	96	4445.09	-5.39	6.68 N	21.11 W	22.14	287.55	0.22	-0.21	-9.79



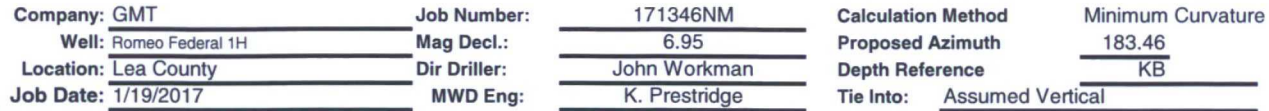
Company: GMT	Job Number: 171346NM	Calculation Method	Minimum Curvature
Well: Romeo Federal 1H	Mag Decl.: 6.95	Proposed Azimuth	183.46
Location: Lea County	Dir Driller: John Workman	Depth Reference	KB
Job Date: 1/19/2017	MWD Eng: K. Prestridge	Tie Into: Assumed Vertical	

Current Survey Offset		53												
Survey Number	Measured Depth	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
48	4593	4540	0.60	129.00	94	4539.09	-4.90	6.15 N	20.48 W	21.38	286.70	0.21	0.21	-2.98
49	4689	4636	1.30	121.40	96	4635.07	-4.10	5.26 N	19.16 W	19.87	285.36	0.74	0.73	-7.92
50	4784	4731	1.80	117.80	95	4730.04	-2.98	4.01 N	16.92 W	17.39	283.32	0.54	0.53	-3.79
51	4880	4827	1.20	125.60	96	4826.00	-1.82	2.72 N	14.77 W	15.02	280.42	0.66	-0.63	8.13
52	4974	4921	1.70	126.70	94	4919.97	-0.53	1.31 N	12.85 W	12.92	275.82	0.53	0.53	1.17
53	5070	5017	1.40	133.00	96	5015.94	0.99	0.34 S	10.85 W	10.86	268.21	0.36	-0.31	6.56
54	5165	5112	0.60	176.30	95	5110.92	2.23	1.63 S	9.97 W	10.10	260.73	1.10	-0.84	45.58
55	5261	5208	0.50	173.50	96	5206.92	3.14	2.55 S	9.89 W	10.22	255.57	0.11	-0.10	-2.92
56	5357	5304	0.40	163.00	96	5302.92	3.86	3.28 S	9.75 W	10.29	251.39	0.13	-0.10	-10.94
57	5452	5399	0.60	184.10	95	5397.91	4.67	4.10 S	9.69 W	10.52	247.08	0.28	0.21	22.21
58	5510	5457	0.50	173.30	58	5455.91	5.23	4.65 S	9.68 W	10.74	244.34	0.25	-0.17	-18.62
59	5591	5538	0.50	217.40	81	5536.91	5.87	5.28 S	9.85 W	11.18	241.81	0.46	0.00	54.44
60	5687	5634	2.00	307.90	96	5632.89	5.27	4.58 S	11.43 W	12.31	248.14	2.15	1.56	94.27
61	5783	5730	5.00	318.10	96	5728.70	1.38	0.44 S	15.54 W	15.55	268.37	3.18	3.13	10.63
62	5878	5825	7.50	319.30	95	5823.13	-5.98	7.34 N	22.35 W	23.53	288.18	2.64	2.63	1.26
63	5973	5920	9.10	319.00	95	5917.13	-15.79	17.71 N	31.33 W	35.99	299.49	1.68	1.68	-0.32
64	6069	6016	9.30	318.80	96	6011.89	-26.73	29.28 N	41.42 W	50.72	305.26	0.21	0.21	-0.21
65	6165	6112	11.00	319.30	96	6106.39	-38.81	42.06 N	52.50 W	67.27	308.70	1.77	1.77	0.52
66	6260	6207	11.20	318.80	95	6199.61	-51.88	55.87 N	64.49 W	85.32	310.91	0.23	0.21	-0.53
67	6356	6303	11.10	317.90	96	6293.80	-64.98	69.74 N	76.82 W	103.76	312.24	0.21	-0.10	-0.94
68	6452	6399	10.80	316.80	96	6388.05	-77.62	83.16 N	89.18 W	121.93	313.00	0.38	-0.31	-1.15
69	6547	6494	11.10	315.30	95	6481.32	-89.83	96.15 N	101.70 W	139.95	313.39	0.44	0.32	-1.58
70	6643	6590	11.30	315.00	96	6575.49	-102.23	109.37 N	114.85 W	158.59	313.60	0.22	0.21	-0.31
71	6739	6686	11.70	315.00	96	6669.56	-114.93	122.90 N	128.38 W	177.73	313.75	0.42	0.42	0.00
72	6835	6782	11.00	315.80	96	6763.69	-127.55	136.35 N	141.65 W	196.61	313.91	0.75	-0.73	0.83
73	6930	6877	10.20	320.40	95	6857.07	-139.80	149.33 N	153.33 W	214.03	314.24	1.23	-0.84	4.84
74	7026	6973	10.20	320.00	96	6951.55	-152.18	162.39 N	164.22 W	230.95	314.68	0.07	0.00	-0.42
75	7122	7069	10.40	319.40	96	7046.00	-164.58	175.48 N	175.32 W	248.05	315.03	0.24	0.21	-0.63
76	7218	7165	10.50	318.90	96	7140.41	-177.04	188.65 N	186.71 W	265.42	315.30	0.14	0.10	-0.52
77	7313	7260	10.60	318.10	95	7233.80	-189.34	201.68 N	198.23 W	282.79	315.49	0.19	0.11	-0.84
78	7409	7356	9.50	321.20	96	7328.33	-201.41	214.42 N	209.09 W	299.50	315.72	1.28	-1.15	3.23
79	7506	7453	9.50	321.60	97	7424.00	-213.30	226.93 N	219.08 W	315.43	316.01	0.07	0.00	0.41
80	7601	7548	9.30	321.70	95	7517.72	-224.86	239.10 N	228.71 W	330.87	316.27	0.21	-0.21	0.11
81	7697	7644	9.50	324.20	96	7612.43	-236.78	251.62 N	238.15 W	346.45	316.57	0.47	0.21	2.60
82	7793	7740	10.10	323.80	96	7707.03	-249.40	264.83 N	247.76 W	362.66	316.91	0.63	0.63	-0.42
83	7889	7836	10.20	323.60	96	7801.53	-262.40	278.47 N	257.77 W	379.46	317.21	0.11	0.10	-0.21
84	7985	7932	9.80	323.90	96	7896.07	-275.23	291.91 N	267.63 W	396.03	317.48	0.42	-0.42	0.31
85	8081	8028	8.40	333.30	96	7990.87	-287.59	304.78 N	275.60 W	410.90	317.88	2.12	-1.46	9.79
86	8177	8124	6.30	340.80	96	8086.07	-298.51	316.02 N	280.48 W	422.54	318.41	2.40	-2.19	7.81
87	8273	8220	4.80	327.70	96	8181.63	-306.64	324.39 N	284.36 W	431.38	318.76	2.04	-1.56	-13.65
88	8368	8315	4.90	314.60	95	8276.29	-312.53	330.60 N	289.37 W	439.35	318.80	1.17	0.11	-13.79
89	8464	8411	4.80	314.20	96	8371.94	-317.85	336.28 N	295.17 W	447.44	318.72	0.11	-0.10	-0.42
90	8560	8507	3.90	312.10	96	8467.67	-322.51	341.26 N	300.47 W	454.69	318.64	0.95	-0.94	-2.19
91	8656	8603	1.90	282.80	96	8563.54	-324.81	343.81 N	304.45 W	459.23	318.47	2.53	-2.08	-30.52
92	8750	8697	1.20	274.40	94	8657.51	-325.08	344.23 N	306.95 W	461.20	318.28	0.78	-0.74	-8.94
93	8846	8793	1.30	272.20	96	8753.49	-325.07	344.35 N	309.04 W	462.69	318.09	0.12	0.10	-2.29
94	8942	8889	1.20	271.60	96	8849.46	-325.01	344.42 N	311.13 W	464.14	317.91	0.11	-0.10	-0.62
95	9037	8984	1.20	269.30	95	8944.44	-324.91	344.43 N	313.12 W	465.49	317.73	0.05	0.00	-2.42
96	9132	9079	0.50	245.00	95	9039.43	-324.64	344.24 N	314.49 W	466.27	317.59	0.81	-0.74	-25.58



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Well: Romeo Federal 1H Mag Decl.: 6.95 Proposed Azimuth 183.46
Location: Lea County Dir Driller: John Workman Depth Reference KB
Job Date: 1/19/2017 MWD Eng: K. Prestridge Tie Into: Assumed Vertical

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Survey Number	Measured Depth	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
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97	9227	9174	0.40	259.80	95	9134.43	-324.36	344.01 N	315.19 W	466.57	317.50	0.16	-0.11	15.58
98	9323	9270	0.60	286.40	96	9230.43	-324.39	344.09 N	316.00 W	467.18	317.44	0.31	0.21	27.71
99	9418	9365	0.60	314.70	95	9325.42	-324.83	344.58 N	316.84 W	468.11	317.40	0.31	0.00	29.79
100	9513	9460	1.00	339.10	95	9420.41	-325.92	345.71 N	317.48 W	469.37	317.44	0.54	0.42	25.68
101	9607	9554	1.00	332.80	94	9514.40	-327.37	347.20 N	318.15 W	470.93	317.50	0.12	0.00	-6.70
102	9702	9649	0.80	330.50	95	9609.39	-328.64	348.52 N	318.86 W	472.37	317.54	0.21	-0.21	-2.42
103	9798	9745	1.30	11.80	96	9705.37	-330.28	350.17 N	318.97 W	473.66	317.67	0.91	0.52	-331.98
104	9893	9840	2.40	51.70	95	9800.32	-332.67	352.46 N	317.18 W	474.16	318.02	1.72	1.16	42.00
105	9988	9935	3.00	67.00	95	9895.22	-335.10	354.66 N	313.33 W	473.25	318.54	0.98	0.63	16.11
106	10082	10029	2.30	73.00	94	9989.12	-336.86	356.17 N	309.27 W	471.70	319.03	0.80	-0.74	6.38
107	10175	10125	1.00	116.60	96	10085.08	-337.20	356.36 N	306.67 W	470.15	319.29	1.79	-1.35	45.42
108	10270	10220	0.70	120.40	95	10180.07	-336.61	355.70 N	305.43 W	468.84	319.35	0.32	-0.32	4.00
109	10364	10314	0.50	113.50	94	10274.06	-336.21	355.24 N	304.56 W	467.93	319.39	0.23	-0.21	-7.34
110	10460	10410	0.20	89.60	96	10370.06	-336.08	355.08 N	304.01 W	467.44	319.43	0.34	-0.31	-24.90
111	10555	10505	0.20	83.00	95	10465.06	-336.12	355.10 N	303.68 W	467.24	319.46	0.02	0.00	-6.95
112	10650	10600	3.50	178.90	95	10560.00	-333.26	352.22 N	303.46 W	464.91	319.25	3.71	3.47	100.95
113	10713	10663	7.80	171.70	63	10622.68	-327.16	346.06 N	302.81 W	459.84	318.81	6.90	6.83	-11.43
114	10745	10695	9.80	172.30	32	10654.30	-322.36	341.21 N	302.13 W	455.75	318.48	6.26	6.25	1.88
115	10806	10758	14.70	178.10	63	10715.85	-309.13	327.90 N	301.14 W	445.20	317.44	8.01	7.78	9.21
116	10838	10790	17.60	182.60	32	10746.59	-300.25	319.01 N	301.23 W	438.75	316.64	9.86	9.06	14.06
117	10870	10822	19.80	188.00	32	10776.90	-290.01	308.81 N	302.20 W	432.07	315.62	8.74	6.88	16.88
118	10901	10853	23.60	190.50	31	10805.70	-278.61	297.50 N	304.06 W	425.40	314.38	12.61	12.26	8.06
119	10933	10885	27.10	190.70	32	10834.61	-265.02	284.04 N	306.59 W	417.94	312.81	10.94	10.94	0.62
120	10965	10917	30.80	190.40	32	10862.61	-249.65	268.81 N	309.42 W	409.88	310.98	11.57	11.56	-0.94
121	10996	10948	34.30	188.50	31	10888.73	-233.06	252.36 N	312.14 W	401.40	308.95	11.76	11.29	-6.13
122	11028	10980	37.40	187.70	32	10914.67	-214.39	233.81 N	314.78 W	392.11	306.60	9.80	9.69	-2.50
123	11060	11012	40.90	185.50	32	10939.48	-194.22	213.74 N	317.09 W	382.40	303.98	11.77	10.94	-6.87
124	11092	11044	42.90	183.40	32	10963.30	-172.85	192.44 N	318.74 W	372.32	301.12	7.63	6.25	-6.56
125	11124	11076	45.60	181.00	32	10986.22	-150.54	170.13 N	319.58 W	362.05	298.03	9.93	8.44	-7.50
126	11155	11107	47.60	179.00	31	11007.52	-128.06	147.61 N	319.57 W	352.02	294.79	7.97	6.45	-6.45
127	11187	11139	50.50	179.20	32	11028.49	-103.96	123.45 N	319.20 W	342.24	291.14	9.07	9.06	0.62
128	11219	11171	52.70	180.70	32	11048.37	-78.93	98.37 N	319.18 W	334.00	287.13	7.79	6.88	4.69
129	11251	11203	57.00	180.10	32	11066.79	-52.81	72.22 N	319.36 W	327.42	282.74	13.52	13.44	-1.87
130	11283	11235	62.40	178.60	32	11082.93	-25.26	44.60 N	319.04 W	322.14	277.96	17.35	16.88	-4.69
131	11314	11266	68.30	177.00	31	11095.85	2.76	16.46 N	317.94 W	318.37	272.96	19.60	19.03	-5.16
132	11346	11298	72.40	175.60	32	11106.61	32.65	13.61 S	316.00 W	316.29	267.53	13.46	12.81	-4.38
133	11378	11330	75.00	176.70	32	11115.59	63.11	44.25 S	313.94 W	317.04	261.98	8.77	8.12	3.44
134	11410	11362	76.90	177.70	32	11123.36	93.97	75.25 S	312.42 W	321.36	256.46	6.67	5.94	3.13
135	11441	11393	80.30	178.90	31	11129.49	124.23	105.62 S	311.52 W	328.94	251.27	11.61	10.97	3.87
136	11473	11425	85.30	179.60	32	11133.49	155.88	137.36 S	311.11 W	340.08	246.18	15.77	15.63	2.19
137	11505	11457	86.80	179.70	32	11135.70	187.73	169.28 S	310.91 W	354.01	241.43	4.70	4.69	0.31
138	11629	11579	87.68	179.74	122	11141.57	309.33	291.13 S	310.32 W	425.51	226.83	0.72	0.72	0.03
139	11724	11674	91.02	179.48	95	11142.65	404.10	386.11 S	309.67 W	494.95	218.73	3.53	3.52	-0.27
140	11820	11770	91.59	179.13	96	11140.46	499.82	482.08 S	308.51 W	572.34	212.62	0.70	0.59	-0.36
141	11915	11865	91.94	179.13	95	11137.54	594.50	577.02 S	307.06 W	653.64	208.02	0.37	0.37	0.00
142	12009	11959	90.98	178.86	94	11135.14	688.19	670.98 S	305.42 W	737.22	204.47	1.06	-1.02	-0.29
143	12105	12055	91.42	178.60	96	11133.13	783.84	766.93 S	303.29 W	824.72	201.58	0.53	0.46	-0.27
144	12200	12150	89.73	178.80	95	11132.18	878.50	861.90 S	301.13 W	912.99	199.26	1.79	-1.78	0.21
145	12295	12245	90.10	178.51	95	11132.32	973.17	956.87 S	298.90 W	1002.47	197.35	0.49	0.39	-0.31



Current Survey Offset		53														
Survey Number	Measured Depth	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
								N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
146	12390	12340	90.41	178.16	95	11131.90	1067.79	1051.83	S	296.14	W	1092.73	195.72	0.49	0.33	-0.37
147	12486	12436	90.85	177.81	96	11130.84	1163.34	1147.77	S	292.77	W	1184.52	194.31	0.59	0.46	-0.36
148	12581	12531	91.18	178.16	95	11129.16	1257.89	1242.69	S	289.43	W	1275.95	193.11	0.51	0.35	0.37
149	12676	12626	91.57	177.81	95	11126.88	1352.43	1337.61	S	286.09	W	1367.86	192.07	0.55	0.41	-0.3
150	12771	12721	91.04	178.86	95	11124.72	1447.03	1432.54	S	283.33	W	1460.29	191.19	1.24	-0.56	1.11
151	12866	12816	91.51	178.60	95	11122.60	1541.68	1527.49	S	281.22	W	1553.16	190.43	0.57	0.49	-0.27
152	12962	12912	90.52	179.48	96	11120.90	1637.38	1623.46	S	279.62	W	1647.37	189.77	1.38	-1.03	0.92
153	13057	13007	90.85	178.69	95	11119.77	1732.09	1718.44	S	278.10	W	1740.80	189.19	0.90	0.35	-0.83
154	13152	13102	91.24	178.07	95	11118.03	1826.70	1813.39	S	275.41	W	1834.18	188.64	0.77	0.41	-0.65
155	13247	13197	92.38	177.72	95	11115.03	1921.21	1908.27	S	271.93	W	1927.55	188.11	1.26	1.20	-0.37
156	13342	13292	91.97	177.19	95	11111.43	2015.62	2003.11	S	267.71	W	2020.92	187.61	0.71	-0.43	-0.56
157	13438	13388	90.16	178.43	96	11109.64	2111.13	2099.02	S	264.04	W	2115.56	187.17	2.29	-1.89	1.29
158	13532	13482	88.60	179.48	94	11110.66	2204.83	2192.99	S	262.33	W	2208.63	186.82	2.00	-1.66	1.12
159	13627	13577	88.32	180.71	95	11113.21	2299.63	2287.96	S	262.49	W	2302.97	186.54	1.33	-0.29	1.29
160	13722	13672	88.08	181.68	95	11116.20	2394.51	2382.89	S	264.47	W	2397.52	186.33	1.05	-0.25	1.02
161	13817	13767	88.34	181.94	95	11119.17	2489.42	2477.80	S	267.47	W	2492.19	186.16	0.39	0.27	0.27
162	13912	13862	88.45	181.06	95	11121.83	2584.33	2572.72	S	269.95	W	2586.85	185.99	0.93	0.12	-0.93
163	14007	13957	87.97	180.27	95	11124.79	2679.17	2667.67	S	271.05	W	2681.41	185.80	0.97	-0.51	-0.83
164	14102	14052	87.42	179.83	95	11128.61	2773.92	2762.59	S	271.14	W	2775.87	185.61	0.74	-0.58	-0.46
165	14197	14147	87.48	180.18	95	11132.84	2868.65	2857.50	S	271.15	W	2870.33	185.42	0.37	0.06	0.37
166	14292	14242	88.56	181.50	95	11136.12	2963.49	2952.43	S	272.54	W	2964.98	185.27	1.79	1.14	1.39
167	14388	14338	87.20	181.94	96	11139.67	3059.38	3048.32	S	275.42	W	3060.73	185.16	1.49	-1.42	0.46
168	14483	14433	87.77	182.12	95	11143.84	3154.26	3143.17	S	278.78	W	3155.50	185.07	0.63	0.60	0.19
169	14578	14528	86.80	182.38	95	11148.34	3249.13	3237.98	S	282.50	W	3250.28	184.99	1.06	-1.02	0.27
170	14673	14623	87.26	180.62	95	11153.27	3343.94	3332.82	S	284.99	W	3344.98	184.89	1.91	0.48	-1.85
171	14768	14718	88.23	179.48	95	11157.00	3438.70	3427.74	S	285.07	W	3439.58	184.75	1.57	1.02	-1.20
172	14863	14813	88.49	179.65	95	11159.72	3533.44	3522.70	S	284.35	W	3534.16	184.61	0.33	0.27	0.18
173	14958	14908	88.01	179.57	95	11162.62	3628.18	3617.66	S	283.70	W	3628.76	184.48	0.51	-0.51	-0.08
174	15053	15003	88.45	179.13	95	11165.56	3722.89	3712.60	S	282.63	W	3723.35	184.35	0.65	0.46	-0.46
175	15148	15098	89.37	177.11	95	11167.37	3817.46	3807.53	S	279.51	W	3817.77	184.20	2.34	0.97	-2.13
176	15243	15193	89.22	176.84	95	11168.53	3911.84	3902.39	S	274.50	W	3912.03	184.02	0.33	-0.16	-0.28
177	15338	15288	88.32	178.43	95	11170.57	4006.33	3997.28	S	270.58	W	4006.43	183.87	1.92	-0.95	1.67
178	15433	15383	89.20	177.63	95	11172.63	4100.88	4092.20	S	267.31	W	4100.92	183.74	1.25	0.93	-0.84
179	15529	15479	86.93	178.25	96	11175.87	4196.37	4188.08	S	263.86	W	4196.38	183.61	2.45	-2.36	0.65
180	15624	15574	86.58	177.81	95	11181.25	4290.79	4282.87	S	260.60	W	4290.79	183.48	0.59	-0.37	-0.46
181	15719	15669	86.34	177.46	95	11187.11	4385.12	4377.61	S	256.69	W	4385.13	183.36	0.45	-0.25	-0.37
182	15814	15764	84.19	177.37	95	11194.96	4479.26	4472.18	S	252.42	W	4479.30	183.23	2.27	-2.26	-0.09
183		15855	83.64	177.02	91	11204.60	4569.21	4562.56	S	247.99	W	4569.30	183.11	0.72	-0.60	-0.38
184		15905	83.64	177.02	50	11210.14	4618.59	4612.19	S	245.41	W	4618.71	183.05	0.00	0.00	0.00
185																