

Swim Lake - Observed Gravity

Meter No. 251
Constant .1099

007767

August 8 1965
M. McCombe
Swim Lakes

Station	Time	Reading	Diff	Observed Gravity	Remarks	H I
Base "A"	8:25	1198.9 ⁺			Shake down	
" "	8:33	1198.9			TIE	
" "	8:43	1198.8 ⁺			" "	
" "	8:48	1198.9	0	100 00		
<u>Line 16E</u> 10 s	9:14	1310.7	-5	118 37		
6 s	9:20	1335.1	-8	112 82		
7 s	9:34	1322.3	-9	112 52		
8 s	9:42	1318.5	-1.0	112 18	Averaged	
9 s	9:47	1315.2	-1.1	111 77	"	
<u>R</u> 10 s	9:52	1311.3	-1.2	111 36	.01	
11 s	9:56	1306.8	-1.3	110 89	Pool Average	
12 s				110	Can not find hub	
13 s	10:09	1300.8	-1.5	110 26	Averaged	
14 s	10:16	1296.4	-1.6	109 80	"	
Base "A"	10:30	1200.8	-1.9 102 1802			
Base "A"	10:49	1200.7	0	100 00		
<u>Line 16E</u> R 14 South	11:04	1296.8	-0	109 82	.01	
20	11:16	1239.1	0	103 92	Read 1' below sta. elevation. Sta marked 215	
25	11:30	1158.7	0	98 71	Averaged	
30	11:47	1089.1	0	88 59		
29	11:55	1099.6	0	89 61	Averaged	
28	12:00	1111.0 ⁺	-1	90 82		
27	12:07	1125.0 ⁺	-1	92 25		
26	12:16	1142.3	-1	94 02	Read 1' below sta. elevation	
<u>R</u> 25	12:21	1158.6	-1	96 69	.02	
24		N.R.	-1	98 66	too close to big tree, roots causing considerable ground motion	
23	12:31	1191.6 ⁺	-1	99 06		
22	12:36	1208.2	-1	100 76		
21	12:41	1223.6	-1	102 33		
<u>R</u> 20	12:45	1239.5 ⁺	-1	103 96	.04	
Base "A"	1:02	1200.8	-1 133 1518			
Base "A"	1:51	1200.7	0	100 00		
<u>Line 16E</u> 15 s	2:09	1287.6	-1	108 87		
<u>R</u> 20 s	2:18	1239.4 ⁺	-2	103 93	.01 .03	
19	2:24	1250.5	-2	105 07		
18	2:28	1260.2	-3	106 05		
17		N.R.			tree roots causing ground motion	
16	2:40	1278.7	-3	107 94		
<u>R</u> 15	2:45	1287.5 ⁺	-4	108 83	.04	
<u>Line 13E</u> BL ⁺ #2	3:02	1257.3	-5	105 73	this is station 11E on Base Line #2	
15 s	3:06	1255.8	-5	105 58		
16 s	3:12	1256.0	-5	105 60		
<u>Note</u> 17 s	3:18	1258.2	-6	106 82	Read in wrong spot - check new heading	

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Swim Lakes

Station	Time	Reading	Drift	Observed Gravity	TIE	Remarks	HI
Line 18 South	3:24	1256.5	-6	105 64			
13E 19	3:30	1254.7	-7	105 45		Pool Average tied roots	
20	3:37	1241.8	-7	104 13		" " " "	
21	3:42	1227.3	-8	102 64			
R 18	3:49	1256.67	-8	105 63	.01		
BL ² 2 11 East R	3:54	1257.77	-8	105 74	.01		
Base A	4:04	1201.6	-9	133 67669			
Base "A"	4:17	1201.6	0	100 00			
Line 13E ¹⁰⁵ 125	4:29	1280.1	0	108 02	+	Annul to be st. (13)	
¹²⁵ 10	4:35	1299.57	0	110 01			
⁴³ 6	4:40	1312.3	0	111 31		a	
25 numbering 4	4:50	1328.0	0	112 92		c	
3 in left- 5	4:55	1320.4	0	112 14		b	
4 head 6 R	5:00	1312.47	0	111 32	.01	d	
5 column 7	5:06	1308.0	0	110 87		e	
6 believed 8	5:10	1304.4	0	110 51		f	
7 to be 9	5:15	1303.5	40	110 41		g	
8 correct 10 R	5:19	1299.1	0	109 96	.05	h	
9 check 11	5:26	1292.4	0	109 38		i	
10 with 12 R	5:32	1284.9	0	108 51	.49	j	
11 survey 12	5:42	1284.5	0	108 47		k	
12 notes 13	5:47	1276.6	0	107 67		l	
13	5:53	1268.6	0	106 85		(13) does not tie (Bouguer)	
14 15 ?	5:59	1260.6	0	106 03		Pool Average	
Base Line ² 11E R	6:04	1257.5	0	105 71	.03		
Base A	6:13	1201.6	0	116 0	100 00		
44 Stations							
12 Ropeats							
9 NIR							

Notes No 251

Constant 1022

August 9 1965

M. McCombe

Swim Lakes

Station	Time	Reading	Dist	Observed Gravity	TIE	Remarks	HT	
Base "A"	8:25	1200.3				Shake down		
	8:35	1200.3				" "		
	8:56	1200.7	0					
	9:00	1200.8	0	100	00			
<u>Line 13E</u>	93 South	9:18	1204.2	-1	100	34		
	27	9:27	1150.6	-2	94	85		
	30	9:38	1105.5	-3	90	83 ⁴	Averaged	
	29	9:47	1119.1	3	91	62	Very poor coverage - ground most unstable	
	28	9:53	1134.9	4	93	22	"	
<u>R</u>	27	9:59	1151.1	4	94	88	.03	
	26	10:02	1166.8	5	96	47		
	25	10:07	1181.1	5	97	94		
	24	10:13	1194.1	5	99	26		
<u>R</u>	23	10:20	1205.0	6	100	37	.03	
	22	10:25	1215.3 ⁺	6	101	42		
<u>R</u>	21	10:29	1228.6	6	102	78		
<u>R</u>	17	10:36	1258.6	7	105	84	.02	
Base "A"	10:50	1201.6	-8	110	727	100	00	
Base "A"	11:16	1201.6	0	(122804)	100	00	← Underwood Calculator.	
<u>Line 8E</u>	10 South	11:33	1271.6	0	129953	107	15	
	5	11:42	1202.3	0	133095	110	29	
	3	11:48	1324.5	-1	135865	113	06	
	4	11:58	1314.9	-1	134373	111	57	
<u>R</u>	5	12:02	1302.0	-1	133054	110	25	
	6	12:10	1292.4	-1	132073	109	.27	
	7	12:15	1284.8	-1	131296	108	149	
	8	12:18	1279.4	-1	130744	107	94	
	9	12:23	1275.9	-1	130387	107	58	
<u>R</u>	10	12:27	1271.1	-1	129896	107	09	
	11	12:32	1261.0	-1	128966	106	16	
	12	12:37	1249.5	-1	127689	104	89	
	13	12:41	1235.8	-2	126278	103	47	
	14	12:45	1233.0	-2	125992	103	19	
B1.2		12:52	1233.7	-2	126064	103	26	
Base "A"		1:06	1201.8	-2	110	788	100	00
Base "A"		1:30	1202.1	0	122855	100	00	
<u>Line 6E</u>	21 South	1:47	1198.9	0	121528	99	67	
	26	1:56	1182.1	0	120811	97	96	
	30	2:13	1143.5 ⁺	0	116866	94	01	
	29	2:18	1149.6 ⁺	0	117489	94	63	
	28	2:25	1158.1	0	118358	95	50	
	27	2:31	1169.6	-1	119523	96	67	
<u>R</u>	26	2:36	1181.8	-1	120770	97	91	
	25	2:42	1191.2	-1	121730	98	88	

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Station	Time	Reading	Drift	Observed Gravity	Remarks	HI
Line 6E 24 South	2:47	1193.7	-1	121986	99 13	
23	2:52	1198.9	-1	122517	99 66	-
22	2:57	1199.9	-1	122630	99 78	
R 21	3:00	1198.6	-1	122497	99 64	03
20		NR	-1			Cannot obtain reliable reading
19	3:14	1204.4	-1	122977	100 12	Pool average
Base "A"	3:21	1202.2	-1	122855	100 00	
Base "A"	3:50	1202.4	0	122885	100 00	
Line 6E on BL #2	3:56	1208.0	0	123458	100 57	
16 South	4:00	1210.6	0	123723	100 84	
17	4:04	1211.3	+1	123805	100 92	
18	4:09	1207.9	+1	123458	100 57	
Base "A"	4:16	1202.1	+1	123846	100 00	
Base "A"	4:25	1202.3	0	122815	100 00	
Base Line #2 6E	4:32	1229.1	0	125614	102 74	
10	4:40	1252.5	+1	128016	105 14	
16	4:56	1297.9	+2	132666	109 79	
15	5:03	1291.9	+2	132053	109 18	
14	5:07	1284.6	+2	131307	108 43	
13	5:12	1274.4	+3	129274	107 40	
12	5:15	1265.8	+3	129395	106 52	
R 11	5:20	1258.2	+3	128619	105 74	03 this is hub for line 13E also
R 10	5:25	1262.1	+3	127995	105 12	02
9	5:31	1245.2	+4	127300	104 42	
8		NR				ground very unstable
7	5:42	1235.1	+4	126268	103 39	
R 6	5:48	1228.4	+5	125599	102 72	02
5	5:52	1220.4	+5	124776	101 90	
4	5:58	1212.6	+5	123979	101 10	
3						hub for line 6E?
2	6:10	1204.9	6	123202	100 33	
Base "A"	1 East 6:14	1201.7	+6	109 65	100 00	

49 Stations
 11 Repeats
 2 NR

Meter No
Constant

August 10 1965
M. McComber

Swim Lanes

Station	Time	Reading	Drift	Observed Gravity	Remarks	H-I	
Base "A"	8:45	1200.5			Shake down		
	8:52	1200.5			" "		
	9:03	1200.6			" "		
	9:17	1200.8			checked levels may be slightly out.		
	9:25	1200.9	0	122732	100 00		
<u>Line 2W</u>	15 S	9:33	1199.2	0	122558	99 83	
	10 S	9:44	1244.9	0	127229	104 50	
	5	9:54	1293.8	-1	132216	109 48	Averaged
	0	10:04	1328.6	-2	135762	113 03	
	1	10:10	1396.6	-2	135548	112 82	Poor average
	2		NR				Unstable ground
	3	10:19	1312.8	-2	134148	111 42	
	4	10:24	1303.3	-2	133177	110 55	
<u>R</u>	5	10:28	1293.6	-2	132175	109 44	+.04 Averaged
	6	10:32	1282.5	-3	131041	108 31	
	7	10:37	1274.0	-3	130172	107 44	
	8	10:42	1265.2	-3	129273	106 54	
	9	10:46	1257.5	-3	128486	105 75	
<u>R</u>	10	10:51	1244.4	-3	127147	104 42	-.08 *
	11	10:57	1232.9	-4	125962	103 23	
	12	11:01	1224.2	-4	125072	102 34	
	13	11:06	1216.4	-4	124275	101 54	
	14	11:10	1210.4	-4	123662	100 93	Read .5' above sta elevation
<u>R</u>	15	11:15	1199.3	-4	122528	99 80	-.03
	16	11:22	1188.6	-5	121424	98 69	
Base "A"	11:25	1201.7	-5	122763	100 03	+.03	
Base "A"	11:31	1201.4	+5	122796	100 00		
Base "A"	11:51	1201.3	0	122773	100 00		
<u>Line 3W</u>	16 South	11:58	1184.5	0	121056	98 28	
	20	12:08	1166.6	0	118102	95 33	Poor average
	25	12:16	1141.1	0	116620	93 85	
	30	12:33	1109.0	0	113340	90 57	
	29	12:40	1119.5	0	114413	91 64	
	28	12:47	1130.9	0	115578	92 81	Very poor average
	27		NR				
	26	12:56	1137.6	-1	116253	93 48	
<u>R</u>	25	1:00	1141.3	-1	116631	93 86	+.01
	24		NR				
	23	1:13	1146.0	-1	117111	94 34	
	22	1:18	1146.7	-1	117183	94 41	
	21	1:22	1150.8	-1	117602	94 83	
<u>R</u>	20	1:26	1156.7	-1	118102	95 33	+.00
	19	1:31	1160.1	-1	118552	95 78	Very poor average
	18	1:37	1168.7	-1	119431	96 66	
	17	1:41	1176.5	-1	120126	97 35	
Base "A"							

Meter No. 251

August 10 1965

Constant .1022

M. McCombe

Swirn Lakes

Station	Time	Reading	Dirt	Observed Gravity			Remarks	MT
Line 3W R 16 S	1:45	1184.9	-1	121087	98	31	+03	
Base A	1:51	1201.4	-1 120	833	100	00		
Base "A"	2:22	1201.2	0	122763	100	00		
Line 6W 16 South	2:34	1172.4	0	120535	97	86		Pool average
10	2:45	1211.1	0	123774	101	61		" "
5	2:52	1257.1	0	128476	105	71		
0	3:08	1315.1	0	134403	111	64		
1		NR	0					Very unstable ground
2	3:18	1294.7	0	132318	109	56		
3	3:23	1281.8	0	131000	108	24		
4	3:27	1268.9	0	129682	106	92		
R 5	3:32	1257.0	0	128465	105	70	-01	
6	3:37	1246.0	0	127341	104	58		Very pool average
7	3:46	1238.0	0	126524	103	76		
8	3:51	1227.5	0	125451	102	69		
9	3:55	1281.1	0	130928	108	17		
R 10	3:58	1211.5	0	123815	101	05	+04	Pool average
Base A	4:17	1201.2	0	122763	100	00		
Base "A"	4:25	1201.6	0	122804	100	00		
Line 6W R 16 S	4:47	1173.0	+1	119891	97	09	+03	
15 S	4:55	1180.5	+1	120657	97	85		
13 S	5:23	1189.1	+1	121526	98	73		head .3' above sta. elevation
12	5:29	1192.6	+1	122405	99	60		" 1.0' " " "
11	5:34	1204.4	+2	123110	100	31		
14	5:43	1184.8	+2	12107	98	30		
Base "A"	5:51	1201.4	+2 86	2325	100	00		
				45	Stations			
				9	Repeats			
				4	NR			

Meter # 251

Constant 1022

August 13 1966

M. McCombe

Swim Lakes

Station	Time	Reading	Drift	Observed Gravity			Remarks	HI
<u>BL# 2 Base "A"</u>	7:25	1208.2					Shake Down	± 00
	7:33	1208.3					Checked	"
	7:40	1208.6					Levelled	"
	7:50	1208.6	0	123509	100.00			"
								± 00
<u>Line 10 W 16 South</u>	9:08	1135.7	0	116069	92	56		± 00
15	9:14	1144.2	0	116937	93	43		± 00
14	9:19	1151.2	0	117653	94	14		± 00
13	9:23	1168.8	0	118429	94	92		± 00
12	9:28	1163.0	+1	118969	95	36		+ .66
11	9:33	1176.2	+1	120116	96	61		+ .42
10	9:37	1185.9	+1	121199	97	69		+ .83
9	9:42	1194.4	+1	122078	98	57		+ .50
8	9:48	1203.0	+1	122957	99	45	Skip 5' North	+ .00
7	9:53	1209.9	+1	123662	100	15		+ .83
6	9:58	1220.0	+1	124694	101	19		+ .49
5	10:02	1236.2	+1	126248	102	74		+ .50
4	10:09	1248.0	+2	127566	104	06	could be -.75 - not sure where rod was held	+ .76
3	10:16	1260.7	+2	128962	105	36		+ .67
2	10:21	1276.0	+2	130428	106	92		+ 1.00
1	10:26	1294.1	+2	132277	108	78		+ .83
Base Line #1 10W	10:30	1312.7	+2	134178	110	67		+ 1.00
R " " " 14W	10:39	1300.3	+2	132911	109	40		.67
" " " 2 Base "B"	11:08	1086.6	+3	138	111671	87.56		± .00
Base line #2 "B"	11:21	1186.1	(1086.4?)				Shake Down	± .00
" " " "	11:28	1186.4	0	111030	87.56			± .00
R " " " 13W?	11:34	1116.1	0	114065	90	60	90.59	± .00
<u>BL# 2 Line 14W</u>	11:38	1114.1	0	113861	90	39	89.96	+ .67
7S	11:47	1186.9	0	121301	97	83	Pool Av.	± .00
R <u>BL# 1 Line 14W</u>	11:57	1201.8	0	133044	109	57	109.61	+ .25
1S	12:05	1281.4	0	130959	107	49	Pool Av.	+ 1.10
2	12:09	1263.6	0	129140	105	67		+ .67
3	12:15	1243.2	-1	127045	103	58	Pool Av.	+ 1.50
4	12:20	1228.2	-1	125513	102	04	" "	± .00
5	12:24	1216.7	-1	124234	100	76		+ .67
6	12:31	1200.2	-1	122656	99	18	Very pool Av.	± .00
R 7	12:38	1186.8	-1	121281	97	81	.02	± .00
8	12:43	1174.3	-1	120003	96	53	" "	± .00
9	12:48	1164.3	-1	118981	95	51		+ 1.00
10	12:54	1155.9	-2	118113	94	64	Not a reliable reading	+ .58
11	1:00	1147.3	-2	117234	93	76		+ .75
12	1:07	1138.5	-2	116334	92	86	Av.	+ 1.00
13	1:11	1129.9	-2	115455	91	99		+ .58
14S	1:16	1124.0	-2	114852	91	38		+ .75
R <u>BL# 2 14W</u>	1:20	1113.6	-2	113789	90	32	-.07	+ .58
" " Base "B"	1:27	1086.6	-2	119	111030	87.56		± .00

Meter # 251
 Constant 1099

Aug 18 66
 M. McCombe
 Swim Lakes

Station	Time	Reading	Drift	Observed Gravity		Remarks			HI
BL# 2 Base "B"	1:56	1086.2						shakedown	±.00
	2:00	1086.2		111010	87	56			±.00
BL# 2 11 W	2:15	1129.2	0	115404	91	94			±.00
Line 11W 22 South	2:26	1106.7		113003	89	55	Pool	Ar. skid 10' south	±.00
BL# 3	2:40	1093.6		111766	86	80			+ .67
" 29 S	2:43	1099.9		111694	88	24			+ .50
" 28	2:47	1095.5		111960	88	51			+ .67
" 27	2:52	1095.7		111981	88	53			+ .95
" 26	2:57	1095.8		111991	88	54			+ .67
" 25	3:01	1096.1		112021	88	57			+ .75
" 24	3:06	1097.1		112124	88	67			+ .67
" 23	3:10	1101.9	0	112614	89	16			+ .42
" 22		N.R.						Too windy for repeat	
" 21	3:30	1108.2	-1	113248	89	80		Too windy for repeat	±.00
" 20		N.R.						Very unstable ground	
" 19	3:28	1114.0	-1	113841	90	39			+ .67
" 18	3:32	1117.3	-1	114178	90	73			+ .67
" 17	3:37	1119.3	-1	114582	90	93			+ .75
BL# 2	3:42	1128.9	-1	115233	91	91			±.00
Base "B"	3:50	1186.3	-1	111010	87.56				±.00
				(1096)					
Base "B"	4:11	1086.0	0	110989	87.56				±.00
Line 18W 7 S	4:21	1174.7	0	120054	96	63			+ .50
BL# 1 0 S	4:43	1271.6	+1	129968	106	54			+ .68
Line 18W 2	4:48	1242.9	+1	127750	104	32			+ 1.00
" 3	4:53	1231.8	+2	125910	102	48			+ .67
" 4	4:58	1219.4	+2	124643	101	21			+ .58
" 5	5:05	1208.2	+3	123509	100	08			+ .68
" 6	5:10	1196.1	+3	122272	98	84			+ .00
R 7	5:14	1183.6	+3	120995	97	57			+ .60
" 8	5:19	1173.2	+4	119942	96	51	Pool	Reading	±.00
" 9	5:24	1163.6	+4	118911	95	53			±.00
" 10	5:29	1152.0	+4	117775	94	35			+ .83
" 11	5:33	1140.5	+4	116600	93	17			+ .60
" 12	5:38	1130.2	+5	115558	92	13			+ 1.00
" 13	5:42	1117.2	+5	114229	90	80			+ .83
" 14	5:47	1106.7	+5	113156	89	73			+ .83
" 15	5:52	1097.9	+5	112256	88	83			+ .33
BL# 2 16	5:57	1092.5	+6	111715	88	29			+ .60
Base "B"	6:02	1086.4	+6	110989	87.56			shakedown	±.00

Metel # 251
.1022

Aug 13 65
Mt. McCombe
Swim Lakes

Station	Time	Reading	Drift	Observed Gravity		Remarks	H I
Base "B"	6:24	1086.1	0	110897	77 56		± .00
DL# 2 19W	6:30	1066.9		109039	85 70		+ .33
24S	6:41	1040.9		106380	83 04	Very poor reading	+ .58
DL# 3 19W	6:55	1029.8		105246	81 91		+ .58
Line 19W 29 South	7:01	1039.3		105501	82 16		+ .67
28	7:06	1034.4		105716	82 38		+ 1.17
27	7:10	1036.1		105889	82 55		+ 1.00
26	7:14	1036.1	0	105889	82 55		+ .00
25	7:18	1036.8	-1	105951	82 61	Very poor reading unreliable	+ .67
R 24	7:24	1040.3		106308	82 97	This is a better reading than the first	+ .25
23	7:28	1044.0		106687	83 35		+ 1.25
22	7:32	1045.4		106830	83 49		+ .83
21	7:36	1045.0		107095	83 76		+ .92
20	7:40	1050.6		107361	84 02		+ .83
19	7:44	1036.2		107933	84 60		+ .92
18	7:48	1069.3		108761	85 42		+ 1.00
R DL# 2 19W	7:52	1067.3	-1	109058	85 73		± .00
Base "B"	7:56	1085.2	-1.92	110897	77 56		± .00
				Aug 13	78	stations	
					7	repeats	
					1	NR.	

Metel # 251
1022

Aug 14 65
M. McCombe
Swim Lakes

Station	Time	Reading	Dist (ft)	Observed Gravity	Remarks					
Base "C"	2:59	1005.8	+0.5	102844	79	34				± 00
Line 20W BL#2	3:05	1011.4	+0.6	103478	79	98				+ 42
" " 95	3:16	1040.3	+0.7	111500	87	99				+ 92
" " RL#1	3:45	1217.6	+1.1	124551	101	05	bulb burned out - replaced			+ 75
" " 18	3:50	1190.9	+1.1	121822	98	32	Pool Av.			+1.00
" " 2	3:55	1172.0	+1.2	119701	96	40	" "			+2.42
" " 3	3:59	1158.2	+1.2	118491	94	99				+ .83
" " 4	4:05	1143.3	+1.3	116978	93	48				+1.33
" " 5		N.R.	-				ground unstable			
" " 6	4:12	1119.2	+1.4	114525	91	02	Pool Av.			+1.25
" " 7	4:17	1117.8	+1.4	114382	90	88				+ .75
" " 8	4:22	1097.2	+1.5	112287	88	19				+ .67
R " " 9	4:25	1088.0	+1.5	111347	87	85	1088.3 ?			+ .92
" " 10	4:30	1075.7	+1.6	110100	86	60				+ 1.25
" " 11	4:35	1061.5	+1.6	108649	85	15				+ .25
" " 12	4:39	1047.6	+1.7	107238	83	74	Do not use these values			+ .75
" " 13	4:44	1035.9	+1.8	106053	82	55				+ 2.17
" " 14	4:48	1029.6	+1.8	105409	81	91				+ 1.00
" " 15	4:53	1023.8	+1.9	104327	81	33				+ .67
" " 16	4:56	1018.7	+1.9	104305	80	80				+ .83
R BL#2	5:00	1010.2	+2.0	103447	79	95				+ .25
Base "C"	5:05	1009.3	+2.0	102844	79	34	Adjusted beam - new reading = 1006.1			± .00
Base "C"	5:21	1005.9	0	102803	79	34				± 00
Line 27W BL#2	5:28	1019.2		104162	80	70				+ .50
" " BL#3	5:47	978.5		100003	76	54				+ .92
" " 27s	5:53	979.6		100115	76	65				+1.50
" " 26	5:57	976.7		99819	76	36				+ 1.25
" " 25	6:01	978.5		100003	76	54				+ .67
" " 24	6:04	980.4	0	100197	76	73				+ .42
" " 23	6:08	984.2	-1	100575	77	11				+ .58
" " 22	6:12	989.9		101152	77	70				+ .42
" " 21	6:16	994.7		101648	78	19				+ .50
" " 20	6:21	998.5		102036	78	57				+ .67
" " 19	6:24	999.7		102159	78	70				+1.00
" " 18	6:27	1000.0		102190	78	73				+1.17
" " 17	6:32	1017.2		103447	79	98				+ .42
R BL#2	6:36	1019.0		104132	80	67				+ .50
Base "C"	6:41	1006.0	-1	102803	79	34				+ .00

meter #251

1022

Aug 14 66

M. McCombe

Swim Lakes

Station	Time	Reading	Drift	Observed Gravity		Remarks	HT
Base "C"	6:58	1006.0	0	102813	79 34		± 00
R? Line 38W BL#1	7:02	980.8	}	100238	76	76	+ 1.17
Line 34W BL#2	7:22	992.9		101474	78	00	+ 83
R BL#3	7:32	998.0	}	96886	73	41	+ 92
27S	7:36	982.5		97346	73	87	+ 83
26	7:40	984.6	0	97560	74	09	+ 50
25	7:43	986.6	-1	97754	74	28	+ 76
24	7:46	987.1	}	97805	74	33	+ 83
23	7:48	987.8		97877	74	40	+ 1.00
22	7:53	986.2	}	98633	75	16	+ 1.00
21	7:56	977.6		99287	75	81	+ 1.00
20	7:59	976.2	}	99757	76	28	+ 76
19	8:02	982.2		100370	76	90	+ 76
18	8:06	986.2	}	100779	77	31	+ .92
17	8:09	988.3		100994	77	52	+ .92
R BL#2	8:14	992.8	}	101454	77	98	+ .83
Base "C"	8:20	986.1		-1	102813	79 34	-02

1006.1

Aug 14/66
 72 Stations
 14 Repeats
 1 NR

Station	Time	Reading	Drift	Observed Gravity	Remarks	H1
Base "B"	9:02	1086.4			Shake down	± .00
" "	9:08	1086.4			"	± .00
" "	9:19	1086.4				± .00
" "	9:27	1086.7	0	111061	87 56	± .00
<u>Line 22 W BL#2</u>	9:40	1084.0	-1	107709	84 21	+ .33
8 S	9:50	1046.5	-1	106952	83 45	+ .50
R BL#1	10:08	1046.1	-2	106991	83 39	+ .92
1 S	10:15	1226.8	-3	125348	101 85	+ .76
2	10:20	1211.8	-3	122915	100 31	+ 1.25
3	10:25	1198.9	-3	122497	99 00	+ 1.17
4	10:31	1186.5	-3	121230	97 73	+ 1.08
5	10:37	1177.4	-4	120289	96 79	+ .75
6	10:41	1169.5	-4	119482	95 98	+ 1.00
7	10:47	1159.3	-4	118449	94 94	+ .83
R 8	10:52	1147.0	-5	117172	93 67	+ .50
9	10:58	1132.5	-5	115793	92 29	+ .92
10	10:09	1121.3	-5	114546	91 05	+ 1.33
11	10:09	1109.6	-5	113350	89 85	+ 1.08
12	10:14	1097.4	-6	112092	88 59	+ .83
13	10:18	1086.4	-6	110969	87 47	+ 1.00
14	10:22	1073.4	-6	109640	86 14	+ 1.00
15	10:26	1061.7	-6	108444	84 94	+ 1.25
16	10:30	1056.2	-7	107872	84 37	+ 1.25
R BL#2	10:34	1054.3	-7	107678	84 18	+ .42
Base "B"	10:40	1087.4	-2	111061	87 56	± .00
Base "B"	11:58	1087.6	-9	111061	87 56	± .00
<u>Line 26 W BL#2</u>	12:08	1026.1	-8	104786	81 29	+ .92
" " " 9 S	12:16	1108.7	-8	113176	89 68	+ 1.25
" " " BL#1	12:37	1229.1	-6	125553	102 05	+ .58
" " " 1	12:42	1212.0	-6	123805	100 30	+ .92
2	12:47	1193.3	-5	121904	98 40	+ 1.25
3	12:51	1177.2	-5	120259	96 76	+ .50
4	12:57	1165.0	-4	119022	95 52	- .67
5	1:04	1149.8	-4	117469	93 97	± 00
6	1:08	1137.8	-3	116252	92 75	+ .83
7	1:14	1126.1	-3	115057	91 56	+ 1.08
8	1:18	1119.5	-2	114392	90 89	+ 1.00
R 9	1:24	1117.9	-2	114220	90 73	+ .92
10	1:29	1096.5	-2	111531	88 03	+ .26
11	1:34	1072.1	-1	109558	86 06	+ .76
12	1:39	1059.3	-1	108250	84 75	+ .83
13	1:42	1047.9	-1	107085	83 58	+ .83
14	1:47	1036.8	0	105961	82 46	+ 1.08
R BL#2	1:52	1026.0	0	104857	81 36	+ .76
Base "C"	2:15	1006.1	+0.2	102844	79 34	± .00

Station	Time	Reading	Diff	Observed Gravity	Remarks	H.T.
Base 'C	9:22	1007.7			Shake down	±.00
" "	9:28	1007.6			"	±.00
" "	9:36	1007.5			"	±.00
" "	9:41	1007.5	0	1029.67	79 34	±.00
Worked with Monroe calculator						
<u>Line 38 W BL#2</u>	9:48	983.2	-0.1	1004.83	76 85	+ .67
8 S	9:56	1062.1	-1		84 91	+1.25
R BL#1	10:10	1164.0	-3		95 30	+2.25
1 S		NR			- -	Too close to trees
2	10:21	1139.1	-4		92 75	+ .50
3	10:25	1127.3	-4		91 54	+ .67
4	:28	1116.4	-4		90 43	+1.25
5	:32	1104.0	-4		89 16	+ .58
6	:39	1094.0	-5		88 13	+1.33
7	:43	1078.0	-5		86 49	+1.00
R 8	:47	1062.4	-6		84 89	+1.25
9	:53	1050.8	-6		83 70	+1.08
10	:58	1040.4	-7		82 63	+ .17
11	11:04	1030.1	-7		81 58	+ .76
12	:06	1021.5	-8		80 69	+ .76
13	:13	1012.1	-8		79 73	tree roots very shaky
14	:16	1006.1	-8		79 11	+ .83
15	:20	998.1	-9		78 29	" " " "
16	:24	990.6	-9		77 52	+1.08
Base 'C'	:31	1009.0	-10		79 39	SD. - may have to compute
" "	:37	1008.6	-10		79 34	both back readings
Shake down						
Base "E"	12:20	939.2				+ .92
" "	:51	937.4				+ .92
" "	:58	936.9				+ .92
" "	1:01	937.1	0		72 23	+ .92
R Base Line #3 84+50	1:40	1059.8	+1		84 06	+ 1.00
84 W	43	1040.5	+1		82 81	+1.25
83	48	1022.2	+2		80 96	+ 1.00
R? 82	54	1004.4	+2		79 13	very poor reading
81	58	984.6	+2		77 09	+1.00
99	2:01	967.1	+2		75 32	stations mis numbered
78	:06	954.0	+2		73 98	+ .83
77+90	:12	943.3	+2		72 88	+1.00
77		NR				Tree roots
76	:20	926.2	+3		71 15	+ .83
76	:23	917.4	+3		70 25	+ .83
74	:28	909.4	+3		69 43	+1.08
72+80	:32	902.7	+3		68 74	+1.08
72	:36	886.0	+3		67 04	+1.33
71		NR				tree roots

Station	Time	Reading	Dist	Observed Gravity		Remarks	H/I
Base Line # 3 70W	2:42	887.8	+3	67	22		+1.25
Base "E"	3:02	936.7	+4	72	23		+ .92
Base "E"	3:12	936.8	0	72	23		+ .92
<u>BL # 3</u> 63 W	3:26	878.0	0	66	22		+1.25
70 W	:45	887.1	-1	67	15		+1.25
69+60	:48	886.0	-2	67	04		+ 1.00
69	:53	885.6	-2	66	81		+ .83
68	:56	885.3	-2	66	95		+1.08
67	4:00	884.5	-2	66	86		+ .17
66	:03	881.9	-2	66	60		+1.00
65	:06	882.8	-2	66	69		+1.00
64	:10	880.7	-2	66	48		+1.17
<u>R</u> 63	:14	877.9	-2	66	19		+ .83
42	:18	872.0	-2	66	61		+ .83
<u>R</u> Line 69 W	:22	882.6	-3	66	66	Report on last years work	+ .17
Base "E"	:34	937.1	-3	72	23		+ .92
Base "E"	4:45	937.0	±0	72	23		+ .92
<u>R</u> Line 77W BL # 3	5:09	902.2	+2	68	69		+1.00
30 S	:13	902.2	+2	68	69		+1.25
29	:16	903.6	+2	68	84		+1.25
28	:20	907.0	+3	69	19		+1.25
27	:23	913.4	+3	69	85		+1.08
26	:27	922.4	+3	70	77		+1.25
25	:31	937.6	+3	72	32		+ .50
24	:35	953.0	+4	73	91		+ .92
23	:40	968.8	+4	75	52		+1.25
22	:45	981.6	+4	76	83		+ .83
21	:50	994.2	+5	78	13		+1.67
20	:54	1007.4	+5	79	48	Shaky - tree roots	+1.08
19	:58	1022.0	+5	80	97		+ .92
18	6:02	1033.5	+6	82	15		+ .92
17	:06	1046.9	+6	83	42		+ .33
16	:10	1058.8	+6	84	66		+ .26
<u>R</u> BL # 2	:14	1066.4	+7	85	42		+1.33
Base "E"	:30	936.2	+8	72	23		+ .92
Base "E"	6:41	936.1	0	72	23		+ .92
<u>Line 73 W BL # 2</u>	50	1007.2	+1	79	51		+ .83
17	54	1002.7	+2	79	06		+1.08
18	58	998.1	+2	78	59		+ .75
19	7:01	981.0	+2	76	84		+1.00
20	:06	973.2	+3	Model knocked over by stick turn NG			+ .75
21	:10						
Base E	7:26	935.6	+5	72	23		+ .92

UNITED GEOPHYSICAL COMPANY
GRAVITY METER DRIFT CURVE

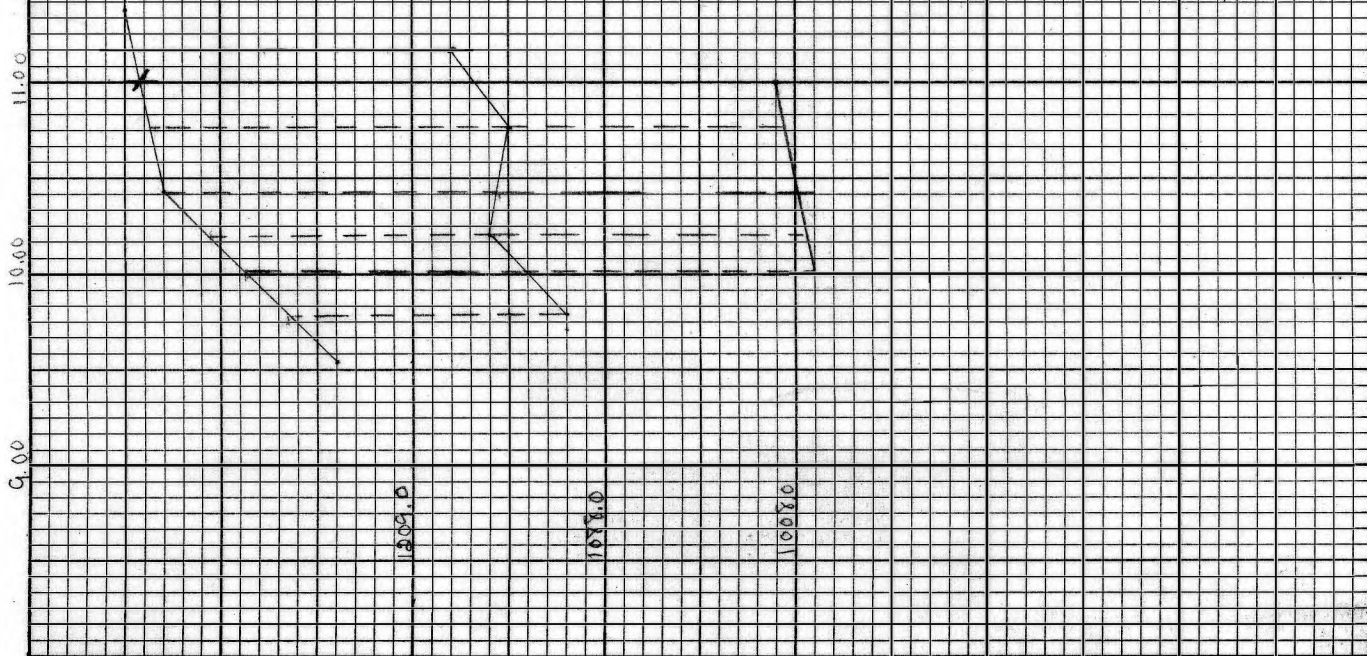
PARTY No. _____ INST. No. _____

BASE STATION No. _____

OPERATOR _____

DATE _____

TIME-SCALE OF HOURS



DIAL READINGS

Meter 251
- 1022

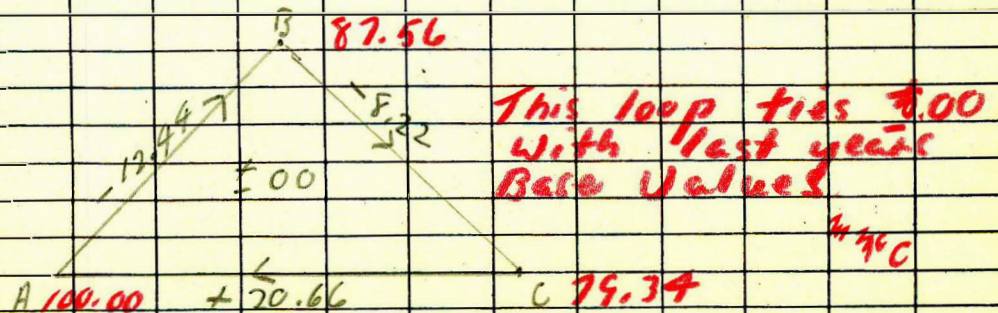
Aug 16 65
M. McCombe
Swim Lakes

Station	Time	Reading	Dist	Observed Gravity	Remarks	H.T.
Calibration loop to check meter						
Base "A"	8:45	1208.5			Shake down	± 00
" "	:53	1208.5			"	"
" "	9:01	1208.6			"	"
" "	:17	1209.2			checked levels	"
" "	:27	1209.4				"
" A	:32	1209.4				"
Base "B"	9:47	1088.2				± 00
Base "C"	10:01	1007.9				± 00
Base "B"	10:12	1088.6				± 00
Base "A"	10:26	1210.3				± 00
Base "B"	10:46	1088.5				± 00
Base "C"	11:00	1008.1				± 00
Base "B"	11:10	1088.8				± 00
Base "A"	11:23	1210.6				± 00

	1	2	3	4	5	
A	1209.63	1210.50	1210.30	1210.36	1210.46	
B	1088.20	1088.60	1088.56	1088.59	1088.80	Av.
	121.43	121.90	121.74	121.86	121.66	= 121.71 * K = 12438762

	1	2	3	4	
B	1088.47	1088.60	1088.50	1088.67	
C	1007.90	1007.95	1008.06	1008.10	Av. 80.54 * K = 822188
	80.52	80.65	80.44	80.57	=

	1	2	3	
A	1209.87	1210.30	1210.42	
C	1007.90	1007.99	1008.10	Av.
	201.97	202.31	202.32	202.20 * K = 20664840



Station	Time	Reading	Diff	Observed Gravity	Remarks	H.I.
Base E	1:22	937.2				+ .92
" "	1:36	936.8	0	72 23		+ .92
<u>A</u> Line 73 W BL#2	1:48	1017.7	-1	80 49	↑	+ .83
17 S	:53	1007.6	-2	79 04		+ 1.00
18	:58	999.3	-2	78 60		+ .76
19	2:02	987.0	-2	77 34		+ 1.08
20	:04	974.0	-3	76 00	↓	+ .92
21	:11	959.1	-3	74 48		+ .67
22	:15	940.8	-3	72 61		+ 1.00
23	:19	924.0	-4	70 88		+ .83
24	:23	909.0	-4	69 35		+ .92
25	:27	899.1	-5	68 33		+ 1.25
26	:30	891.8	-5	67 58		+ 1.33
27	:35	888.6	-5	67 25		+ 1.33
28	:38	887.8	-6	67 16		+ 1.08
29	:44	887.3	-6	67 11		+ 1.17
30	:48	886.8	-7	67 05		+ 1.00
<u>R</u> BL#3	:54	886.6	-7	67 03		+ 1.00
Base E	3:12	937.6	-8	72 23		+ .92
Base "E"	3:21	932.6		72 23		+ .92
<u>Line Delta S. 11. 35</u>	3:49	1007.8	+2	79 42	Averaged	+ .25
35	:54	994.6	+2	78 08	"	+ .00
45	:58	980.2	+2	76 60	"	+ .83
<u>R</u> 25	4:05	1007.6	+2	79 40	"	+ .25
15	:09	1017.6	+2	80 43	"	+ 1.00
AS 11	:13	1028.2	+3	81 52		- 1.60
1 N	:20	1038.9	+3	82 61	Averaged	+ .50
2 N	:19	1052.6	+3	84 12	"	+ 1.08
Base E	4:55	937.1	+5	72 23		+ .92
Base "C"	5:21	1007.7	0	79 34	This is a return of this line.	+ .00
<u>A</u> Line 30 W BL#2	5:26	1013.2	0	79 90	Averaged	+ .67
95	:33	1092.1	0	87 97		+ .92
<u>R</u> BL#1	:51	1211.4	+1	100 17	"	+ .50
15	:55	1195.0	+1	98 49	"	+ .50
2	6:00	1176.9	+2	96 65		+ .50
3	:03	1162.0	+2	95 13		+ .92
4	:06	1147.1	+2	93 61		+ 1.33
5	:11	1136.0	+2	92 47		+ .76
6	:15	1123.5	+2	91 20		+ .92
7	:19	1111.4	+2	89 97		+ .50

Metel #251

1022

Aug 17 1966

M. McCombe

Swain Lakes

Station	Time	Reading	Drift	Observed Gravity	Remarks	HT
Base "B"	8:27	1087.8			Shake down	± 0.0
"	8:36	1087.6			"	± 0.0
"	8:42	1087.7	0	87 56		± 0.0
R Base line #1 14W	9:03	1301.5	+3	109 37		+ .58
	10	1307.9				+ 1.33
	12	1311.2				+ .76
	11	1312.6				+ 1.00
R	10	1314.1	-5	110 65		+ 1.25
	9	21 1316.0				+ 1.00
R?	8	25 1316.6	-6	110 89		+ .76
	7	30 1320.8				+ .75
R	6	42 1323.3	-8	111 56		+ .58
	5	NR			No station or hub	
	4	46 1324.6				+ .58
	3	50 1332.1				+ .92
R	2	84 1336.3	-1.0	112 86		+ .83
	1	57 1336.3			Abandoned Swamp	+ .83
	0	NR				
R	1 E	10:04 1336.0	-1.1	112 72		- .58
Base "A"	10:19	1210.7	-1.3	100 00		± 0.0
Base "A"	10:30	1210.7	0	100 00		± 0.0
Base line #3	12E	10:53 1126.1	+2	91 27	very poor Av. Windy & tree holes	+ 1.00
R	16 E	10:59 1098.2	+2	88 52		+ 1.00
	15 E	11:12 1106.5	+3	89 28	" " " " " "	+ 1.00
	14 E	:17 1110.8	+3	89 82	" " " " " "	+ 1.00
R	Line 13 E	:21 1114.3	+3	90 18	" " " " " "	+ 1.26
	13 E	:25 1117.9	+4	90 56	" " " " " "	+ 1.00
R	12 E	:29 1126.7	+4	91 35	1/2 doubt if this sta will repeat!	+ .67
	11 E	:33 1134.7	+4	92 27		+ .92
	10 E	:37 1138.9	+5	92 91		+ 1.00
	9 E	:40 1146.9	+5	93 53		+ 1.00
R	8 E	:44 1157.1	+5	94 57	Taken at base of hub 7" high	+ 1.50
R	Line 6 E	:50 1150.1	+5	93 86		± .00
Base "A"	12:03	1210.1	+6	100 00		± .00

No elevations
 Stations that have been of
 elevations
 Stations for these

15 Stations
 11 repeats
 2 NR.

26
11

Meter 251
1022

Aug 16 65
M. McCombe
Swain Lakes

Station	time	Reading	Diff	Observed Gravity	Remarks	U.I.
Line 30W	85	6:22 1100.1	+3	88 81		+ 1.00
<u>R</u>	9	:26 1091.6	+3	87 94	}	+ .92
	10	:31 1079.1	+3	86 69		+ 1.00
	11	:35 1064.2	+3	85 14	Averaged	+ .75
	12	:39 1060.8	+3	83 78	"	+ 1.08
	13	:43 1040.4	+3	82 71		+ .83
	14	:46 1032.7	+3	81 93		+ 1.17
	15	:50 1027.1	+4	81 36		+ .75
	16	:54 1022.0	+4	80 84		+ .92
<u>R</u>	BL ²	:58 1012.6	+4	79 88	02	+ .67
	Base "C"	7:03 1007.3	+4	79 34		+ .00

Aug 16/65
13 Stations
7 Repeats
26 Stations return
A-B-C base Calibration loop