

Magnet Cove Rutile Pit

From	To	H.I.	stad	R.R.	H	V	M.O	V.S	Puff	Z. Corr
1	2	356	295	1.8	7	57	294	+706	+18.0	393.92
2	1	1.80	2.95	4.1		43		-206	-24.7	416.82
	6		294	4.5		45	293	-14.7	-19.2	
6	2	7.40	294	4.40		58	293	+14.7	+14.3	400.07
	A		380	3.6		52	381	+7.6	+4.0	404.02
A	6	1.80	380	8.7		50	381		-0.7	405.82
	B		408	4.1		45	407	-204	-24.5	
B	A	1.96	4.15	0.2		55	414	+208	+70.6	383.38
	C		326	2.3		54	226	+115	+17.5	
C	B	1.80	326	2.2		46	326	-13.00	-15.2	395.93
	D		292	2.7		50			-2.7	
D	C	2.26	292	1.9		50		-1.9		395.71
	E		245	6.5		51	296	+205	+20.0	391.6
E	D	3.64	245	9.6		53		+735	-2.3	395.2
	A		310	4.0		54	310	-12.40	+8.40	
A	610	180	70	9.8		48	70	-14	+1.2	394.31
	611		11	5.9		56		-5.9	-5.9	399.16
	612		49	2.7		50		-2.7	-2.7	402.8
	613		69	5.0		49	69	-6.0	-5.7	399.18
	614		85	6.0		50		-6.0	-6.0	399.5
	615		94	5.2		50		-5.2	-5.2	400.3
	616		103	5.4		50		-5.4	-5.4	400.1
	617		134	8.6		50			8.6	397.9
	618		172	9.0		48		3.4	12.4	393.1
	619		213	9.8		47				390.1

154

Elevations	Notes
442.72	shot top of stake
392.72	
397.62	
414.02	
407.02	
397.12	
381.32	
403.12	
401.32	
290.7	
393.23	
393.89	
→ 391.69	
329	Top of ground
403.73	
392.5	Monday July 13
497.8	
401.0	
491.9	
497.7	
498.5	
498.3	
493.1	
491.3	
488.3	

From	To	Ht	Stat	K ₁	H	V	H.O	v ₁	D ₁	2055
A	620	290	4.8		45		12	-16.8		388.7
	621	295	5.2		45		12.3	-17.5		388.9
	622	280	5.6		45		14	-19.6		385.9
	623	300	6.0		45	299	15	-21.8		
	624	320	5.2		44	319	12	-24.2		381.5
	625	332	6.5		44	331	19.9	-26.4		379.1
	626	115	2.0		55		5.9	-3.7		409.2
	627	135	3.3		55		6.8	-4.2	3.5	
	628	174	5.4		55		8.7	-4.9	2.3	
	629	195	7.3		56		11.7	-5.4		410
	630	216	8.0		56	215	13.0	-21.0	3.0	
	631	246	9.0		56	245	14.8	-23.8	5.8	
	632	255	9.3		56	254	15.3	-24.6	6.0	
	633	276	8.2		56	275	16.6	-24.4	6.0	
	634	289	8.4		56	288	17.7	-25.2	6.0	
	635	267	5.1		54		10.7	-15.8	5.6	
	636	260	6.6		54		10.9	-17.0	3.8	
	637	280	6.6		54		10.8	-17.8	2.2	
	638	300	8.0		55	299	15	-22.0	7.0	
	639	315	3.5		52		6.3	-9.8	2.0	
	640	305	6.0		52		6.1	-12.1	1	
	641	315	4.2		58			-4.2		
	642	305	8.6		49		3.1	-5.5	1.7	
	643	310	9.0		48		6.2	-7.8	1.2	
	644	287	9.8		48		5.7	-15.5		390.0

July 13, 1947

397.7

386.2

384.1

381.9

379.5

377.3

400.0

400.2

400.4

399.3

398.7

397.9

397.7

395.3

394.7

393.1

399.9

399.5

396.7

400.7

403.6

399.5

392.0

383.5

386.4

33.2

6

19.92

104.5

1.5

5.5

16.6

3.0

2

Food	to	Wt	Stod	R.R.	H	V	W.D	V.S	D.I.F	4055
A	645	180	280	7.4		48	280	5.6	-13	372.5
	646		265	9.0		48	265	-5.3	-19.3	
	647		255	9.8		48	255	-3.1	-19.9	
	648		245	10.2		48	245	-4.9	-18.1	390.4
	649		250	10.5		47	249	-7.5	-18	
	650		246	8.7		44	245	-11.8	-23.5	
	651		245	9.1		46	244	-9.8	-22.9	
	652		228	7.0		46	127	-9.1	-16.1	289.1
	653		224	8.1		46	223	-9.0	-17.1	
	654		240	5.2		45	239	-12.0	-17.6	388.3
	655		20	11.5	8	23	18	-5.4	-16.9	
	656		24	9.2	7	25	22	-7.2	-11.4	
	657		42	9.9	2	40	42	-4.2	-15.1	
	658		60	11.0	5	46	60	-2.4	-12.4	
	659		77	9.7	5	43	77	-5.1	-15.1	
	660		90	9.3	2	40	89	-9	-16.3	
	661		91	10.3	82	37	89	-11.8	-15.8	
	662		138	4.9	2	37	135	-17.9	-22.8	
	663		154	10.3	1	42	152	-12.3	-22.6	
	664		180	7.4	1	41	178	-16.2	-13.6	
	665		214	5.5	1	41	212	-19.3	-24	
	666		212	6.6	1	41	210	-19	-25.7	
	667		233	4.5	1	41	229	-20.8	-25.3	
	668		274	5.7	1	42	271	-21.9	-23.8	
	669		310	7.0	5	43	308	-21.7	-28.7	

July 11, 1947 U.C.A.

390.7	24	
389.4		2.8
388.8	19.76	3
388.6		9.12
386.7		2.14
386.2		19.26
384.9	27	
387.6	2	9
386.6		3
386.5	138	2.73
386.8	13	9.1
387.3	4.14	1.83
388.6	138	2.12
391.3		9
398.6	17	19.68
385.4	9.4	
377.7	231	21.92
380.4		
391.1		
380.1		
378.9		
378.0		
378.4		
376.9		
373.6		

From	To	H.S.	Rad	R.R.	H	V	H.R.	VS	Diff	4085
A	670	250	9.2	1	42	247	20	-11.2	403.7	
	671	242	7.1	1	42	240	-19.4	-26.5		
	672	216	9.8	2	42	211	-17.3	27.1		
	673	226	8.5	2	42	224	-18.1	26.6		
	674	246	9.2	1	42	244	-19.7	-28.9		
	675	240	9.5	.5	43	237	-16.8	-26.3		
	676	254	6.8	.5	43	253	-17.8	-24.6		
	677	284	3.8	.5	44	283	-17.0	-26.8		
	678	265	6.7	.5	44	264	-15.9	-22.6		
	679	295	2.8	.5	44	294	-17.7	-26.5		
	680	302	1.8	.5	44	300	-11.1	-19.9		
	681	290	4.6	.5	47	289	-8.2	-13.3		
	682	308	2.8	.5	47	306	-18.2	-21.1		
	683	269	5.2	.5	47	263	-7.9	-13.1		
	684	254	3.2	.5	47	253	-7.6	-16.8		
	685	260	5.2	0	52	260	+5.2	0		
	686	176	8.3	.5	47	175	-5.3	-13.6		
	687	157	7.1	.5	47	156	-4.7	-11.8		
	688	140	7.2	.5	47	139	-4.2	-11.4		
	689	120	4.7	.5	47	119	-3.6	-8.3		
	690	111	8.6	.5	47	110	-3.3	-11.9		
	691	82	6.5	.3	32	80	-4.8	-21.3		
	692	75	8.7	.3	32	73	-12.0	-24.7		
	693	74	9.3	.2	36	73	-10.4	-19.1		
	694	60	8.0	.6	26	56	-8.4	-16.4		

392.5	17.28	1008	1968	96
397.2	12.04			78
376.6				168
377.1	15.90			
374.8	7.92			
377.4				
379.1	5.28			
382.9		796		
381.1		79		
373.2		1036		
373.8				
390.4				
382.7				
390.6				
392.9				
403.7				
390.1				
391.9				
392.0				
395.4				
391.8				
382.4				
383.0				
382.0				
387.3				

From	To	HI	stad	RR	H	V	HI	V.S	D.C.F
A	695	92	10.2	-1	39	91			405.8
	696	136	8.5	1	39	135			
	697	155	9.6	1	40	154			
	698	182	6.4	1	40	180			
	699	177	7.0	1	40	175			
	700	196	5.9	1	40	194			
	701	195	2.5	1	41	193			
	702	215	1.4	1	42	213			
	703	225	2.03	.5	43	224			
	704	210	2.5	.5	43	208			
	705	178	3.5	0.1	42	176			
	706	165	4.4	1	42	163			
	707	178	6.0	5	43	177			
	708	164	7.0	5	43	163	-11.5	-10.5	387.8
B	709	2.08	77	7.1	.5	54	77		383.3
	710	52	9.1	0	51	52			
	711	79	9.4	0	52	79	+7	-8.7	
	712	100	8.8	0	50	100	9.8		
	713	135	6.3	0	50	135	6.3		
	714	30	3.2	0	49	30	3.2		
	715	41	4.1	0	49	41	4.1		
	716	71	3.3	0	49	71	0	7.1	
	Δ717	307	8.0		48		-6.1	-14.1	367.2
		306							370.4
717	B	221	153	2.9	54	30V			
	718	425	2.4		57	421	29.8	27.4	398.0
718	717	434	2.5		43	431			

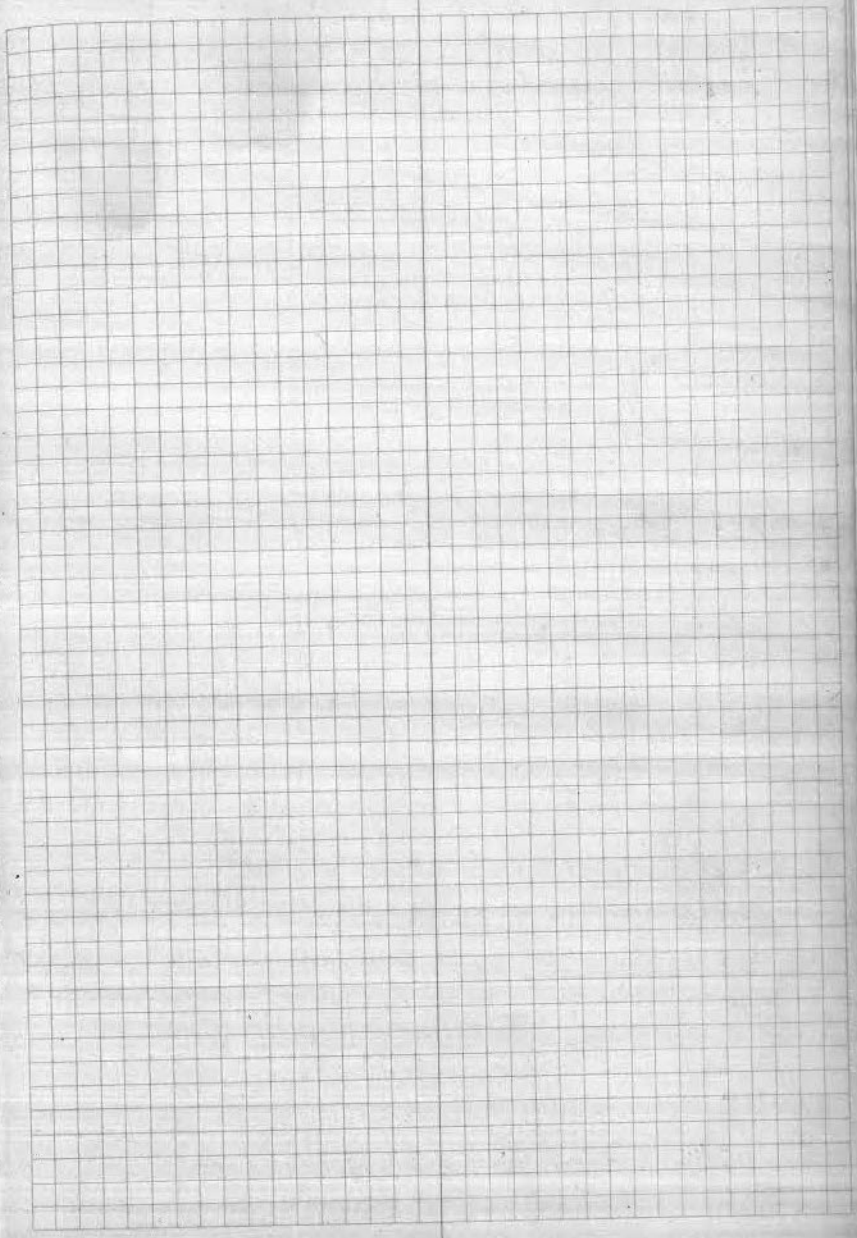
425
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 2975

306
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 12.24
 12.2
 29.7

370.3

July 1, 1947

From	To	H.I.	Sta. V	R.A.	H	V	H.D.	V.S	D.P.P.	4000
718	719	2.24	84	8.5		47	84	-3.2	-11.7	389.3
	720		96	10.3		47		-2.7	-13.3	387.8
	721		125	10.1		43		-9.3	-15.7	382.1
	722		80	7.6		48		-1.6	-9.2	391.8
	723		143	8.4		44		-6.4	-10.8	386.2
	724		92	5.1		43	91	-6.3	-11.4	389.6
	725		71	6.5		50	71			
	726		53	5.4		50				
	727		73	8.9		50			-8.9	382.1
	728		80	11.2		45		-4.0	-15.2	385.8
	729		104	10.7		44				
	730		115	10.1		45		-5.6	-10.7	385.3
	731		136	7.8		45		-6.8	-14.6	385.3
	732		186	10.4		44	179			
	733		152 113	11.9		46				
	734		147	10.5		46				
	735		120	10.6		47				
	736		112	10.7		49				
	737		120	11.4		49				
	738		137	10.5		48				
	739		165	9.5		46				
	740		199	10.2		46				
	741		276	9.2		45				
718	742	2.24	235	8.2	5	43	234			
	743		181	9.8	1	42	179			



FROM	TO	H.I. Sta	RR	H	V	HD	V.S	Diss	*21.0
718	744	142	7.0	3	38	141			
745	745	179	10.5	1	38	118			
746	746	103	10.2	2	37	102			
747	747	120	6.2	2	37	118			
748	748	146	3.1	2	37	144			
749	749	176	6.2	1	41	174			
750	750	215	7.8	1	42	272	+21.6	-28.7	3.72.3
751	751	230	7.6	3	46	229			
752	752	206	5.3	1	41	204			
753	753	166	5.8	1	40	164			
754	754	146	8.5	3	40	145			
755	755	122	9.6	1	39	121			
756	756	101	9.0	2	36	99			
757	757	96	10.8	2	36	94			
758	758	72	10.8	0	35	72			
759	759	91	10.4	0	35	89			
760	760	57	10.4	5	23	51			
761	761	58	6.3	5	29	52			
762	762	92	8.9	1	30	88			
763	763	120	6.2	3	33	116			
764	764	140	8.2	2	36	137			
765	765	162	6.0	2	36	159			
766	766	189	9.0	1	39	187			
767	767	90	9.3	4	31	86			
768	768	68	9.4	4	31	65			

M. C. Ruttle

FROM	TO	AIR	STG	R.R.	H	V	HD	VS	Diff	401.0
718	769		44	11.0	4	30	42			
	770		76	8.8	1	70	75			
	771		99	10.3	5	44	98			
	772		63	8.5	5	44	63			
	773		44	9.4	2	35	43			
	774		28	11.3	10	20	25			
	775		14	6.1	5	43	19			
	776		31	4.9	1	42	31			
	777		50	7.2	1	41	49	-1.2		399.8
	778		49	5.1	5	53	49	-1.4	-5.3	395.5
	779		35	3.1	5	54	35	-1.4	-6.7	379.3
C	780	2.24	110	4.1	1	58	109	+8.8	+1.5	401.7
	781		82	3.2	1	61	81	+9.0	+5.8	402.3
	782		73	8.0	4	70	70			
	783		66	6.1	4	70	62			
	784		83	7.2	5	71	79	+7.6	+16.4	407.1
	785		166	6.6	0	52	166			
	786		140	8.3	0	52	140			
	787		103	5.6	5	46	102			
	788		70	9.4	5	46	70			
	789		52	5.3	2	42	52			
	790		65	11.5	2	41	65			
	791		86	7.1	1	40	85			
	792		109	5.0	0	40	108			
	793		96	9.2	1	40	95			

M.C. Rutile

FROM	TO	HI	SE	RR	H	V	40	V5	DISS	
C 794	222 212	4.5	1	42	210	-17.0	-21.5			396.4
795	193	8.3	.5	43	135	-9.5	-17.8			
796	79	7.6	.5	43	79	-5.3	-21.9			
797	96	6.4	.5	44	96	-3.2	-9.6			
798	36	9.3	.5	45	36	-1.8	-11.1			
799	33	6.1	.5	45	33	-1.7	-7.8			
800	76	7.1	.5	44	76	-4.5	-11.6		384.8	
801	68	5.6	0	49	68	-.7	-6.3			
802	146	3.7	0	49	146	-1.5	-5.2			
803	123	4.2	0	49	123	-.1	-5.4			
804	110	5.2	0	49	110	-1.1	-6.3			
805	82	10.0	0	48	82	-1.6	-11.6			
806	76	10.6	0	47	76	-2.3	-12.9			
807	95	6.3	0	48	95	-1.9	-8.2			
808	114	9.0	0	50	114	0	-9.0			
809	90	7.8	0	52	90	11.8	11.1			
810	79	3.3	1	61	78	-8.9	-5.6			
811	112	2.6	1	60	111	+11.2	+8.6			
812	130	1.2	1	61	129	+14.3	+13.1			
813	162	6.4	2	64	158	+17.5	+8.1			
814	170	6.5	3	66	165	+17.2	+10.7			
815	150	9.0	0	49	150	-1.5	-10.5			
816	181	9.7	0	50	182	0	-9.7			
817	200	14.9	0	50	200	0	-10.9			
	182	10.6	0	50	182	0	-10.6			

375.3
 379.0
 373.9
 358.2
 385.7
 389.0
 393.0
 396.5
 391.6
 391.4
 390.5
 385.2
 393.9
 388.6
 387.8
 397.8
 402.1
 405.4
 409.9
 414.9
 407.5
 396.3
 387.1
 385.9
 386.2

	16	16
	14	14
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	102	644
	17	101
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	172	2254
		1.7
	79	
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	809	

M.C. Rutile

FROM	TO	H.I	ST	RR	#	V	HD	VS	Diff	
C	819	24	126	10.9	0	50	126	0	10.9	3963
	820	174	6.2	5	44	173	10.4	16.6		
	821	180	5.6	1	42	178	14.4	20.0		
	822	163	11.2	5	46	163	6.5	16.6		
	823	211	7.2	5	43	210	19.8	22.0		
	824	238	5.3	5	43	234	18.5	23.8		
	825	236	4.2	5	47	235	7.1	11.3		
	826	146	7.8	5	47	146	14	12.2		
	827	264	9.8	5	47	263	7.9	17.7		
	828	245	8.3	5	46	244	9.8	18.1		
	829	200	9.3	5	46	200	8.6	17.3		
	830	195	5.4	5	46	195	7.6	13.0		
	831	205	9.0	0	51	205	12.0	7.0		
117	832	104	5.2	5	54	103	4.7	-9	311.4	370.5
	833	97	6.3	5	57	97	6.8	+1.5		
	834	120	7.5	5	57	120	8.4	+1.9		
117	835	224	4.2	5	56	223	13.4	+9.2	371.9	
	836	238	5.6	5	56	237	14.3	+8.7		
	837	146	8.8	5	56	145	8.8	0	371.9	
	838	112	9.7	0	52	112	9.7	-1.5		
	839	102	10.7	3	58	102	10.2	-1.9		
	840	88	4.0	0	50	88	0	10		
	841	100	11.8	5	54	100	4.0	10		
	842	124	7.0	5	55	123	6.3	-8		
	843	125	8.6	5	55	124	6.3	-2.3		

385.9

380.2

376.8

380.2

374.8

373.0

385.5

384.6

379.1

378.7

379.5

383.8

399.8

395.9

397.13

397.1

60

6

3

3

2

2

2

2

2

211

2

1477

235

7

1845

238

6

1438

14.3

Sub from
117 with
C Bill

M.C. Rutile

FROM	TO	H.I.	Sta	RR	H	V	H.D	V.S	D.P.	
717	844	234	195	53	0	52	175	12.9	-3.4	396.8
845	146	9.7	0	51	146	4.5	-8.2			
846	154	9.7	0	52	154	4.5	-8.2			
847	167	9.2	0	52	167	4.8	-7.4			
848	179	9.7	0	52	179	4.8	-7.3			
849	204	9.4	0	52	204	2.0	-7.4			
850	226	6.9	0	50	226	0	-6.9			
851	225	7.8	0	52	225	4.23	-5.5			
852	234	274	4.2	0	50	274	0	-4.2		
853	257	2.0	5	53	256	7.7	+5.7	408.0		
854	286	2.5	5	57	235	20.0	+17.5			
855	295	4.7	5	57	294	20.7	+15.8			
856	296	5.4	5	57	295	20.7	+15.3			
857	295	3.0	5	57	294	20.7	+15.7			
858	257	1.7	0	48	257	-3.6	-6.7	405.0		
858	128	5.2	2	62	127	4.1	-8.9	413.9		
859	107	1.2	1	62	106	4.18	11.6	15.6		
860	103	1.3	2	64	102	4.94	13.1	418.1		
861	104	2.2	2	64	102	4.6	12.5	417.5		
862	195	9.6	1	58	194	11.6	7.8	07.2		
863	166	7.9	5	57	165	11.6	13.7	08.1		
864	126	8.6	5	55	125	6.3	-2.3			
865	107	8.2	5	55	103	4.5	-2.3			
866	79	8.0	5	55	79	4.0	-4.0			
867	72	9.0	5	55	72	3.6	-5.4			

393.4	163	164
388.6	14	104
388.6	4.12	94.13
389.4	103	2.3
389.5	19	96.4
389.4	286	6.7
389.9	1160	402.1
391.3	20.02	25.7
392.7	166	9.71
402.5	128	11.6
414.3	128	23
412.6	142	16.4
412.1 Elevation of	5.7	25.7
415.5853	402.1	50
390.1	2.5	
405.7	404.6	2.5
407.4	6.7	2.5
409.9	97.9	2.5
409.3	104	92.7
398.8	17	20
400.5	416	104
394.5	104	95.2
393.8		
392.8		
391.7		

M. C. Antila

FROM	TO	HI	ST	RR	H	V	ND	VS	D
852	868	58	9.5	.5	56	58	8.4	-6.1	396.4
853	869	7.6	9.7	.5	56	7.6	5.8	-5.1	
	870	90	9.0	.5	56	90	5.4	-3.6	
	871	115	9.3	.5	54	114	4.6	-4.7	
	872	113	10.7	.5	54	112	4.5	-6.2	
	873	94	5.9	.5	53	93	7.8	-3.1	
	874	94	5.9	.0	50	94	0	-5.9	
1104	875	125	3.3	5	54	124	4.0	+1.7	
853	876	3.1	135	2.1	0	52	135	-2.7	+1.6
	877	162	7.8	.5	55	162	-8.1	+1.3	
	878	177	10.8	1	58	169	+13.7	+2.9	
	879	190	12.0	.5	55	189	+9.5	-2.5	
	880	216	9.3	0	52	216	+22	-7.1	
	881	228	11.0	.5	49	227	-6.8	-1.4	
	882	126	3.2	.5	54	125	+7.0	-1.2	
	883	194	6.3	.5	54	193	+8.0	+1.7	
	884	152	5.4	.5	54	152	+6.1	+1.5	
	885	105	7.3	.5	44	104	-6.3	-13.6	
	886	104	7.3	.5	44	103	-2.2	-13.5	
	887	78	10.6	.5	44	78	-4.7	-15.3	
	888	76	10.2	.3	34	45	-7.4	-11.6	
	889	65	10.0	.2	42	64	-5.2	-11.2	
	890	83	8.4	.2	42	67	-5.4	-13.8	
	891	65	8.6	.1	42	64	-5.2	-13.8	
	892	88	3.2	.5	44	88	-5.3	-8.5	

3891
~~390.1~~ 390.1
 391.6
 390.5
 389. -
 392.1
 389.3
 396.9
 395.8
 395.5
 398.1
 392.7
 388.1
 397.4
 394.0
 390.9
 395.7
 381.6
 381.7
 379.9
 383.6
 380.0
 381.4
 381.4
 386.7

228
 7
 15 96

(plus 6)

46
 16
 276
 46
 736

88

144
 78
 228
 3
 6
 784

88
 6
 578

228
 3
 674

M. C. Rutile

FROM	TO	HI	SD	RR	H	V	HD	VS	Diff	
854	893	3.1	97	42	5	44	92	-5.5	9.7	395.8
863	897		58	64	.5	44	58	-3.5	9.9	395.6
895	87		82	5.1	0	30	82	0	5.7	
896	51		8.0	1	47	50	4.6	-12.6		
897	32		9.2	1	41	32	-2.9	-12.1		
898	30		11.0	2	35	29	4.5	-14.5	391.1	
899	46		10.2	1	40	46	4.6	-14.8		
900	45		10.1	2	34	44	-3.4	-14.5		
901	29		11.2	5	29	28	-6.1	-17.3		
902	31		11.2	5	44	31	-4.9	-17.1		
903	44		11.3	3	32	43	7.9	-14.2		
904	32		10.0	4	31	31	-6.1	-11		
905	42		11.0	5	45	42	-2.1	-17.1		
906	71		11.2	5	43	71	-5.0	-16.2		
907	104		10.4	1	42	108	-8.7	-19.1		
908	132		8.5	1	42	132	40.6	-19.1		
909	129		4.8	2	35	127	-17.4	-22.2		
910	150		8.2	1	39	149	10.5	-24.9		
911	125		10.7	1	39	124	-13.3	-27.9		
912	100		7.9	2	35	98	-15	-22.8	382.8	
913	71		9.8	2	35	70	-16.5	-20.7		
914	58		7.3	1	42	87	-7.6	-14.3		
915	70		10.4	5	44	70	-4.2	-14.6		
916	94		2.7	3	32	96	-7.9	-10.6		
917	132		3.8	1	40	132	-13.2	-17.0		

386.1
385.9
390.7
373.2
385.7
391.3
381.0
380.3
378.5
382.7
376.6
379.7
382.7
379.6
376.7
376.7
373.0
371.1
371.9
373.0
375.5
381.5
381.2
385.2
378.8

29
58
609
33
57
608
132
8
1056
204

125
125
1795
1056
204

M. C. Rutile

FROM	TO	Sta	RR	H	V	H.D.	V.S	D. off	
918	3.2	149	49	5	45	148	-7.4	+11.8	405.6
919		159	10.7	0	50	154	0	10.7	
920		173	7.4	0	48	173	-3.5	-10.9	
922		188	6.2	0	48	188	-3.8	-9.9	
922		195	9.2	0	48	195	-3.9	-13.1	
923		170	9.0	0	48	170	-3.4	-12.4	
924		163	8.9	5	45	162	-8.1	-17.0	
925		28	6.2	2	67	28	-3.4	-13.0	
926		43	6.2	1	59	43	-2.1		
927		57	8.1	1	59	56	+5.2	-2.9	
928		60	9.6	2	60	59	+6.	-7.0	
929		78	11.0	2	60	77	+7.8	-3.2	
930		97	8.2	5	55	97	+4.8	-9.3	
931		104	39	0	52	104	+1.	-2.2	
932		70	6.6	0	52	70	+7.	-9	
933		73	6.4	4.	70	67	+16	+8.2	413.8
934		81	2.3	2	66	79	+13.	+10.7	
935		113	7.2	2	68	112	+14.7	+7.5	+13.1
936		118	16.3	3	67	116	-21.1	+10.8	416.4
937		111	6.0	3	66	108	-12.8	+11.0	
938		97	2.2	3	66	94	+15.5	+13.4	401.6
939		96	3.5	4	68	92	+17.4	+7.9	
940		50	9.6	1	60	50	-4.5	-9.6	
941		70	6.3	1	60	69	+7.	+5.6	406.0
942		105	10.8	5	54	105	+12.	+6	

384.0	28	81
385.1	<u>28</u>	16
384.9	3.08	48.4
385.9		81
382.7	113	12.96
383.4	13	118
378.8	739	12
382.0	113	8.26
393.7	1465	118
392.9		<u>2006</u>
392.2		
392.6		
392.5		
392.9		
394.9		
397.0	404.0	
395.1	406.5	
397.3	403.3	
396.0	406.6	406.2
394.0	407.6	
392.4	409.2	
391.9	409.7	
391.2		
396.5	396.5	
389.2		

Bills for work not checked.

M.C. Rutile

FROM	TO	H.I	STO	RR	W	V	VD	VS	Diff	
943	943	3.2	130	76	5	46	134	5.4	-12.4	395.8
944	944		136	129	5	46	135	5.4	-12.3	
945	945		26	73	0	50	23		0.13	
946	946		29	9.0	0	50	29		0.29	
947	947		18	8.2	0	49	18		-2.84	
948	948		18	5.2	0	52	18		+12.19	
D 949	949	2.7	123	6.5	0	52	123	+1.2	5.3	395.9
950	950		146	7.6	1	58	145	+1.7	+4.1	
951	951		179	7.9	1	59	177	+17.0	9.1	
952	952		176	5.0	1	59	174	+15.8	+10.8	
953	953		178	5.4	1	59	178	+15.8	+10.4	
954	954		150	6.6	1	59	149	+13.5	+6.9	
955	955		113	1.6	0	49	113		-1.1 -1.7	
956	956		145	2.8	0	49	145		-1.5 -4.3	
957	957		159	1.3	0	50	159		0 -1.3	
958	958		170	4.5	5	53	169	+5.1	+1.6	
959	959		168	5.3	0	52	168	3.4	-1.9	
960	960		130	8.2	0	52	130	+2.6	-5.6	
961	961		58	2.4	0	50	58		0.74	
962	962		115	3.0	0	50	115		0.30	
963	963		128	6.9	0	50	127		0 -6.9	
A 964	964	1.9	255	7.1	0	90	255	-2.6	-6.7	405.7
965	965	Ar. 5	250	6.4	5	3	249	+7.5	-6.2	395.7
966	966		40	3.3	0	53	40	+1.5	-1.4	395.9
967	967		154	3.0	5	59	153	+10.4	+7.8	405.5

392.9		146
378.5		8
378.5		11.68
392.9		176
387.4		9
390.9		12.01
390.5		15.84
399.9		175
404.9	404.9	9
406.6		15.75
406.2		15.4
402.7		2
494.2		10.78
391.5		93.2
399.5		2.7
396.4		95.9
393.9		6.9
390.2		
378.4		
392.8		
378.9	259.0	
389.1	799.2	
386.7	386.9	397.0
391.5		12.0
405.6		401.1
		423.7

M. C. Rutile

397.7

FR To	HI	SL						
764	967	18	50	5	57	18	+13-3.7	394.0
	969	46	5.2	0	49	46	-5-5.7	
	969	78	5.3	0	49	78	-5-6.1	391.6
	970	130	5.4	0	49	130	-13-6.7	391.0
	971	190	3.8		50	190	0-3.8	
	972	276	6.2		52	276	+283.4	
	973	330	9.4		50	330	0-8.4	
	974	330	7.2		52	330	+15-7.7	
	975	153	7.5		54	153	+4.1 + 1.6	
	976	180	4.2		54	149	+6. - +1.9	399.5
	977	190	2.5		52	190	+38 +1.3	
	978	230	7.1		52	230	+46 +1.5	
	979	110	4.4		55	108	+1.6 +2.2	

Special Area

394.6

3	A1	13	164	8.0	0	41	164	-1.6	385.0
	A2		164	7.6		50		-7.0	86.8
	A3		165	6.2		50		-6.3	88.4
	4		155	6.0		50		-6.0	88.6
	5		145	3.1		50		8.0	86.6
	6		140	6.0		50		-6.0	88.6
	7		195	6.0		50		6.0	88.6
	8		137	10.0		50		-10.0	84.6
	9		115	6.4		50		-6.4	88.2
	10		124	5.9		50		-5.9	88.7
	11		125	5.6		50		-5.6	389.0

402.2

400.2

399.8

399.2

402.1

402.5

397.5

409.2

407.5

407.8

407.2

406.4

408.1

Special Area July 16, 1947, C.C.I., M.C.R.

From	To	H.W. Stal	R.R.	H	V	H.D	V-S	RIFA	394.6)
A3	A12	131	134	6.0	50			-6.0	388.0
	A13	146	4.3		51		+1.4	-3.3	91.3
	A14	156	1.8		51		+1.5	-1.3	94.3
	A15	114	3.8		51		+1.1	-2.7	91.9
	A16	113	5.6		50			-5.6	89.0
	A17	90	9.0		50			-9.0	85.6
	A18	96	3.2		50			-3.2	91.4
	A19	115	1.8		50			-1.8	92.0
	A20	125	4.6		50			-4.6	90.0
	A21	103	5.5		51		+1.0	-4.5	90.1
	A22	96	4.9		50			-4.9	89.7
	A23	74	6.6		50			-6.6	88.0
	A24	67	8.3		50			-8.3	86.3
	A25	179	6.0		50			-6.0	88.6
	A26	175	3.7		50			-3.7	90.9
	A27	197	2.0		50			-2.0	92.6

July 21, 1947. At Hardy

Property	Point	East
Corner H1	356.286	53
H1	Corner 2 1/2 [R10]	5.75
H2	275	3.3
H2	H1 3.24	272
H3	204	3.0
H3	H2 3.24	203
H4	180	6.4

not used

Special Area "A"

Hardy Property.
Elevation of corner is 395.6 (center of road according to 45.8.5 as B 595. Elevation is from corner to center of road of corner.

80
16.20
275
274
11.00
11.96
293
255
255
255
225
3.22
3.52
30.74
37.16
29.9
3.22
13.74
5.76
2.18

95.0
22.74
296
296
98.1
2.72
2.00
7.96
274
274
99.76
2.96
607.70
609.88
643.98
647.48

Hardy Property July 24, 1987 Thursday

From	To	HT	Stat	RR	CH	V	M.O.	V.S	D.P.
H4	H3	256	175	2.0	46	175	-10.50	-19.50	650.04
	H5		320	1.8	47	320	-76.0	11.4	
H5	H4	156	320	2.5	53	176.0	+7.1	40.16	
USE	H6		360	4.8	50			-4.0	
H6	H5	246	350	0.3	50			-3	38.76
	H7		169	5.9	49		-1.6	-7.5	
H7	H6	296	170	3.8	52	185.1	+11.3		39.66
	H3		56	1.8	52		11.1	-1.4	
	H3		58	1.1	51		+1.6	-1.5	
	H8		209	1.6	44	209	-12.5	-14	
H8	H7	188	208	2.0	56	218	+12.48	+7.48	
	H9		168	4.5	38	167	-20.16	-24.6	
H9	H8	164	168	2.0	63	167	+21.84	+19.84	
	H10		172	1.5	50			-1.5	
H10	H9	296	172	.9	50			-1.9	
	H11		121	2.5	50			-2.5	
H5	H12	116	166	3.2	5	165	-50	2.2	632.11
H12	H5	248	166	3.2	5	58	165	+10.06	630.8
H12	H13		169	3.0	0	30	169	0	
H13	H5		166	3.2	56	197.6	+6.66		
H13	H12	28	170	2.7	0	59	168	+1	30
H13	H5		166	2.7	5	50	165	+10	17
H13	H7		13	4.5	31	0	44	45	5
	H5		45	7.0	0	47	45	6	15
	H6		48	7.2	0	48	48	8	8.0

From	To	HT	Stat	RR	CH	V	M.O.	V.S	D.P.
638.6									
647.2									
635.3									
371.9									
650.7									
349.6									
33.9									
619.63									
596.9									
597.05									
597.5 - 1.5 = 596									
629.5									
629.0									
630.8									
637.7									
627.5									
623.6									
623.4									

Start with no fence anyway

17.5
10.50

1.69
7.2

32.4
1.5
18.50
2.56

11.88
20.76
16.94

2.09
3.0
16.94

1.52
1.0
630.58

30.72
16.94
647.28

17.50

42.88

50.07

At tail point the fence
upper 1/2 enclosing
shoots than the
lower 1/2 of the
Crown Hill.

208
4
14.78

168
17
14.5

504
165
11.5

2184
330
16

2916

7/16/87

622.1
622.1
621.6

Holdy Property

Lot #	H	W	P.R.	H	V	AD	VS	W ₁	F.P.	
132	17	2.3	76	5.7	1	39	75	-8.4	-130	631.8
18		83	5.8	2	39	82	-9.1	-140		615.6
19		83	6.7	1	39	82	-9.4	-150		613.8
20		118	8.3	1	39	127	-18.1	-223		608.3
21		143	7.6	2	39	142	-15.7	-247		604.9
22		74	3.7	1	39	73	-1.0	374.2		615.4
23		106	5.9	1	42	105	-8.5	-44		615.2
24		201	3.7	1	42	100	8.2	-115		618.1
25		70	4.2	1	42	69	5.6	-9.8		619.8
26		58	6.3	1	42	57	7.6	-0.7		618.7
27		52	7.2	1	42	51	4.2	-11.4		618.2
28		47	3.5	5	43	47	3.3	-6.3		622.8
29		53	4.0	0	50	58	0	4.0		625.6
30		87	3.5	5	53	87	2.6	-19		628.7
31		78	2.5	3	67	76	-13.3	4.8		634.4
32		8 feet								
33		30	5.0	5	45	30	13.5	-5		623.1
34		58	4.0	1	62	53	8.0	7.4		632.6
35		85	6.7	1	67	89	10.2	3.8		633.4
36		52	6.4	1	62	57	6.4	0		619.6
37		82	6.5	5	56	82	4.9	-1.6		628.0
38		48	7.6	5	36	28	5.9	-1.7		627.9
39		96	4.9	1	60	75	-9.6	4.7		634.3
40		2.7	131	6.5	2	40	130	-13.1	-19.1	631.1
42		104	6.7	1	40	103	-10.0	7.7		615.7

F.S	
623.7	614.3
617.9	
617.7	
616.5	
607.1	
617.6	
617.7	
624.3	
622.0	
623.9	
623.3	
623.3	
627.3	
625.6	
628.7	
634.4	
625.3	
633.8	
635.6	
637.8	
630.2	
630.1	
627.1	
612.6	
615.0	617.7

Hardy Property

From to	H	J	Sta	RR	H	V	WD	VS	Diff	ES	ES
42	7.7	95	76	0	48	95	-1.9	9.5	622.4 622.9	622.2	
43	73	74	0	48	73	15	-8.9		623.5	622.8	
44	93	32	0	49	73	30	-7.1		628.3	627.6	
45	82	4.6	0	52	52	11.6	-3.0		627.4	628.0	
46	52	6.1	0	51	51	5	-5.6		626.8	626.1	
47	39	3.1	0	51	39	14	-2.7		629.7	629.0	
48	47	7.2	0	50	47	0	-2.2		625.2	624.5	
49	46	3.3	0	51	46	8	-9.1		623.3	622.6	
50	62	8.4	0	48	62	1.2	-9.6		622.8	622.1	
51	37	6.1	.5	49	37	1.1	-7.2		625.2	624.5	
52	15	5.1	.5	47	15	15	-5.6		626.8	726.1	
53	43	3.4	.5	47	43	1.3	-4.7		627.7	627.0	
54	12 feet										
55	44	9.0	.5	57	44	3.1	-1.9		631.5	630.8	
56	50	4.1	.5	56	50	2.5	-1.6		630.8	630.1	
57	70	6.8	.5	56	70	3.4	-1.4		631.0	630.3	
58	136	11.1	.5	55	135	16.8	-4.3		628.1	627.4	
59	60	3.0	.5	54	60	2.4	-1.6		631.8	631.1	
60	61	3.3	.5	54	61	0.4	-1.9		631.5	630.8	
61	65	2.7	.5	54	65	2.6	-1		632.3	631.7	
62	76	2.5	.5	55	76	3.8	+1.3		633.7	633.0	
63	88	1.1	.5	55	88	1.8	3.7		636.1	635.4	
64	111	3.8	0	58	111	2.2	-11.6		630.8 634.0	633.3	
65	117	7.0	.5	53	116	7.5	-1.8		631.9	631.2	
66	71	7.5	.5	57	71	4.9	-2.6		629.8	629.1	

Hardy Property

FROM	TO	HJ	Sta	RR	H	V	H/D	VS	Diff	Final	
H10	67	27	96	5.2	5	56	96	5.8	+1.6	631.7	
	68		82	4.0	5	55	82	4.1	+1.2	632.5	
	69		88	4.0	1	58	87	7.1	+3.1	635.5	
	70		100	3.5	1	60	99	+10.	+6.5	638.9	
	71		122	3.6	5	55	121	+6.1	+2.5	634.9	
	72		103	3.6	5	55	102	6.2	1.6	634.0	
H-4	73	2.5	56	7.0	5	45	56	3.3	3.7	635.3	
	74		58	7.7	5	45	58	2.9	4.8	635.5	
	75		59	8.4	5	45	59	3.0	11.4	634.7	
	76		26	4.1	4	43	26	1.8	5.9	640.2	
	77		40	2.4	5	45	40	2.0	4.7	641.7	
	78		65	2.9	0	52	60	1.3	8.6	637.5	
	79		106	2.0	5	47	105	6.4	13.4	630.7	
	80		105	3.0	0	51	105	1.0	2.0	643.1	
H-6	81	1.4	3.1	105	3.4	5	47	104	3.1	9.5	650.3
	81		21	6.0	0	51	21	2.5	8	640.4	
	82		22	9.1	0	51	22	2	8.9	637.3	
	83		30	9.3	0	52	30	1.6	8.7	637.5	
	84		26	5.1	5	54	26	1.0	4.1	641.1	
	85		62	4.1	5	53	62	1.9	2.2	644.0	
	86		74	5.0	5	54	74	3.0	7.2	644.2	
H-6	87	3.2	4.7	7.2	5	53	47	1.4	5.3	636.1	
	88		70	4.2	2	37	69	9.1	3.7	621.6	
	89		34	5.2	5	47	34	1.8	6.2	628.5	
	90		22	4.3	0	49	22	2.4	5	630.2	

E.S.

6323
631.8
625.6 634.8
638.2
634.2
633.3
639.0
637.7
638.3
643.8
645.3
641.1
624.3
647.7
646.3
645.0
641.9
642.1
646.7
643.6
648.3
632.7
633.1
632.3
634.0

Hardy Property

From	To	H.2	S.2	K.R.	H	V	H.D.	V.S.	D.	Diff	E.P	
#6	91	8 feet										628.5
	92	37	17	71	0	50	17	0	-71		627.1 627.1	
	93	25	72	0	48	25	5	-77			627.0	
	94	47	94	5	43	47	3.3	2.7			622.0	
	95	21	61	1	41	21	1.9	-8.0			626.7	
	96	108	3.9	1	42	101	8.1	720			622.7	
#3	97	3.5	105	2.3	1	58	14	10.4	+8.1		631.8 631.8	
	98	78	2.1	1	58	4.2	98	4.1			635.8	
	99	45	2.4	5	57	45	3.2	+8			634.5	
	100	23	71	0	58	25	5	-56			627.1	
	101	81	7.4	5	43	32	5.9	13.1			620.6	
#2	102	3.9	72	2.1	2	68	71	5.5	+3.7		616.1 616.1	
	103	24	3.7	5	52	24	1.7	-2.0			611.4	
	104	44	5.1	5	44	44	-2.7	2.4			605.6	
	105	110	3.6	5	44	109	-6.6	10.9			602.5 602.5	
	106	3.4	122	0.7	0	51	120	1.2	-7.5		603.9	
	107	68	7.4	5	44	68	5.5	9.9			600.5	
	108	42	2.1	0	49	42	4	2.5			610.9	
	109	96	2.1	0	50	96	0	21			611.3	
A/C	110	67	3.2	5	54	67	2.7	5				
	111	21	3.1	0	52	21	4	7.7				
	112											

E.S.

631.4
4308
4358
4305
606.5
625.9 612.1
636.9
634.8
627.4
620.9
617.5
611.8
611.4
614.8
595.6
610.0
600.6
601.1 601.0
602.6
606.4

Christy Property July 5, 1947 (Tuesday)

From	To	N.S.	STAD	R.R.	Y	V	H.O.	V.S.	DIST	Elev.
C1	C2	224	126	F.S.	50			-2.5		601.5
	C3	247	2.1		50			-2.1		603.9
	*C4	247	5.2		52			-4.8	F.S.	605.6
	C5	43	3.9		50			-3.4		602.6
	C6	46	2.1		50			-4.1		601.9
	C7	64	5.9		50			-5.9		600.1
	C8	78	2.1		45			-3.9	-8.0	598.0
	C9	104	11.3		50			-11.3		594.7
	C10	67	3.1		50			-3.1		602.9
	C11	56	5.2		50			-5.2		600.8
	C12	63	6.3		50			-6.3		599.7
	C13	77	6.7		48			-1.5	-8.2	598.8
	C14	89	4.9		44			-5.3	-10.2	595.8
	C15	105	5.2		43			-7.1	-12.2	593.7
	C16	175	3.1		51			+1.7	-1.3	604.7
Δ16	C1	202	185	→						607.2
	17	76	5.4		56			+4.5	-7	606.1
	18	87	3.7		52			+1.7	-2.0	605.0
	19	103	5.0		52			+2.0	-3.5	603.5
	1	175								
	20	55	5.8		50			-5.8		601.2
	21	38	4.5		50			-4.5		602.5
	22	34	4.6		56			-4.6		602.4
	23	44	5.0		50			-5.0		602.0
	24	61	6.8		50			-6.8		599.2
	25	89	5.3		46			-3.5		602.5

Station Elevations

C1	603.8
C2	601.5
C45	576.66
C46	570.2
C47	569.16
C55	549.1
C62	542.0
C68	529.0
C16	604.7
C48	6

85
170

7.8
57
5

69
57
12

2.0
2.0
2.0

Christy Property

From No	Ht	Stad	Q.R.	H	V	H.O.	V.S	Diff.	Elev.
C2 C1	2888								602.9
26	85	8.7		50				-8.7	595.7
27	89	4.6		53				12.5 -5.1 -7.2	602.3
28	71	7.3		50				-7.3	597.1
29	87	8.3		50				-8.3	596.1
30	105	9.3		50				-9.3	595.1
31	126	5.7		46				-4.9 10.6	593.8
32	146	7.4		47				4.1 -11.5	592.9
33	187	8.2		47				5.6 73.8	590.6
34	147	7.7		47				-4.7 12.1	592.3
35	133	8.5		47				-4.3 12.2	591.8
36	160	9.6		47				-4.9 -14.4	590.0
37	170	10.9		48				-3.4 -14.3	590.1
38	184	9.5		47				-5.6 75.1	589.3
39	196	9.0		47				-5.8 -14.3	589.6
40	115	7.8		50				-7.8	596.6
41	171	9.2		50				-9.2	595.2
42	204	10.0		49				-2.0 -12.0	592.4
43	92	5.2		40				7.1 -9.2 -14.4	590.0
44	140	4.9		40				13.9 -19.0 -18.9	585.5
45	274	0.3		40				27.2 -17.4 -27.7	576.7
46	180	6.2		50				-8.3	570.1
47	144	9.2		50				-9.2	569.1
48	152	11.0		51				1.8 -12.5	565.9
49	63	11.5		42				6.2 -5.1 -16.8	562.9

426 Base
Corner.

C2 602.9

2.9
18.8
27.7
18.1

2.6
24
23.5
1.56
24
1.20

Corner of Sect.

Christy Property

July 20, 1947 Wind

From	To	Mag	Star	R.R.	H	V	IND	N.S.	DIFF.		
46	50	298	33	2.7			60	32	+3.3	+2.6	570.3
	51	18	1.6				50		-1.6		569.1
	52	32	1.8				50		-1.8		568.9
	53	26	5.2				50		-5.2		565.5
	54	195	6.3	6.5	25	136	-36.7	-41.5			529.2
	55	185	6.2	1.9	37	141	-16.4	-22.6			547.1
Δ 56	248	52	2.2	4	69	50	29.9	+7.7			559.3
	57	51	2.9		57		43.5	+2.6			554.2
	58	15	1.5		50			-1.5			550.1
	59	23	1.5		58			-1.5			550.1
	60	22	3.0		50			-3.0			548.6
	61	24	1.4	4.0	40	23	-2.4	-12.0			538.8
Δ 62	167	255	8.3		42	253	20.5	+28.8			570.3
	63	78	6.4	2	35	76	-11.7	-17.1			538.7
	64	144	5.3	4.	31	138	-21.3	-32.6			541.9
	65	69	11.4		46		-2.7	-14.1			534.9
Δ 66	148	35	2.0		50			-2.0			556.6
	67	60	5.4		50			-5.4			543.5
Δ 68	315	8.2		48			-6.30	-14.5			541.5
	69	240	8.2		48		-5.8	-13.0			537.7
	70	184	2.6		48		-3.4	-5.7			529.0
	71	60	1.5		50			-1.5			530.5
Δ 72	264	37	4.5		50			-4.5			537.8
	73	102	4.8		42	101	-8.0	-12.0			542.0
	74	60	1.3		48		-1.2	-12.5			527.1
											518.8
											519.1

Leave elevations as they were

Δ 62
is about
height of
main section

5.27

2.48

$$\begin{array}{r} 315 \\ -6.30 \\ \hline \end{array}$$

20
x 10/100
= 2
70
x 100
= 7000
15.1

68	75	76	6.3	43	5.3	11.8	520.0
76	38	9.0	50	5.0		523.6	
79	22.2	21.2	18.2	20	21.0	22.0	23.2
							573.0

End Christy Property
instrument notes

SE corner to S.W. corner is 20.
on Christy's property.

Mo. H. P. A.

27. 3.6

28
3.00
~~2.75~~
2.75

From	To	W.T.	stad	2. W.	H	v	HO	V.S.	D. F.
D.H.B	1	5.76	7	Sheet					
	2	27	3.6		50			-3.6	
	3	29	5.0		50				
	4	34	9.5		50				
	5	42	7.5		50				
	6	60	7.0		50				
	7	54	7.5		50				
	8	27	5.2		50				
	9	33	7.5		50				
	10	35	7.5		50				
	11	28	5.1		50				
	12	24	2.2		50				
	13	40	12.0		49				
	14	42	10.7		49				
	15	54	12.5		49				
	16	74	9.0		50				
	17	63	8.5		50				
	18	75	6.0		50				
	19	75	6.0		50				
	19	84	3.6		50				
	20	79	6.0		52				
DHA	21	60	6.3		50				
	22	46	6.0		50				
	23	42	6.2		50				



From To 11.24 Stat 11.10-11.31/1947

123

From	To	Stat	RR	H	V	HD	V.S	(Dits)
GM4	24	46	5.6		50			
	25	29	4.2		50			
	26	16	1.2		50			
	27	24	5.1		50			
	28	27	8.0		50			
	29	32	7.9		50			
	30	34	5.1		50			
	31	35	6.7		50			
	32	14	4.3		50			
	33	50	1.0		50			
	34	42	2.7		50			
	35	25	5.1		50			
	36	37	5.5		50			
	37	32	5.7		50			
	38	42	4.6		50			
	39	36	4.8		50			
	40	44	5.0		50			
	41	64	1.0		50			
	42	48	4.0		50			
	43	18	4.5		50			
	44	22	1.5		50			
	45	110	3.2		53			

Aug. 13, 1997

From	To	HT	Stad	R.R.	H	V	H.D.	V.S	Viff	Elev.
992	993	22	86	6.0		52		+1.7	-4.3	401.1 396.8
993	992		3							
	0		340	7.3		49		-3.9	-10.7	
992	994	1.2	296	2.5		59	293	+26.6	24.1	425.2
994	992	2.3	295	2.5		41	292	+26.6	24.1	398.4
	995		234	4.5		52		+1.6	+1.1	427.6
995	994	2.4	234							hand to read use fruit sheet
	987		204	3.7		46		+8.0	-11.7	418.3
981	996	2.6	159	5.4	1	48	152	+8.5	23.9	492.6 458.6
	997		130	9.0	5	47	129	-3.9	12.9	482.6 469.7
	998		120	6.1	1	62	119	+4.4	+8.3	496.9
	999		126	5.1	5	72	120	+2.6	+2.13	503.9
1000			32	1.3	5	71	30	+6.4	5.1	487.1
X1			74	4.0	6	73	70	+1.7	13	495.6
X2			35	9.3	2	34	34	-5.6	-14.9	467.7
X3			85	2.9	6	27	80	+9.5	22.4	483.2
X4			126	6.0	4	30	122	+2.2	728.7	455.9
X5			60	11.5	2	36	59	8.4	19.9	462.2
X6			110	4.5	4	30	106	+2.0	26.5	456.1
X7			73	5.4	1	41	72	-6.6	12.0	470.6
X8			101	6.3	0	48	101	2.0	8.3	474.3
X9			110	6.7	5	109	109	+1.7	-1	483.6
982	X10	1.9	165	2.2	5	55	164	8.3	6.1	505.5 511.6
982	X11	3.3	55	2.4	2	65	54	8.3	5.9	519.9 520.8
	X12		105	4.0	3	67	103	+1.9	+3.9	507.0

2.5
398.7

480.9

~~425.2~~
425.2
2.9

427.6

93.9
3.8
27.2
24.2
26.6

FROM	TO	HS	Sta	RR	H	V	ND	V.S	Diff	E.P.	E.S
X57	X62	3.6	300	10.5	5	57	290	2.1	10.5	429	432.1
X63		10.2	5.0		1	62	101	12.2	6.4		435.5
X64		7.5	5.7		.5	47	75	2.8	3.5		426.3
X65		5.5	5.7		1	42	87	7.0	10.7		416.1
X66	28	5.2	1.1		1	61	51	5.7	4.6	420	424.4
X67		10.3	1.4		3	66	100	16.5	15.7		435.1
X68		11.1	11.4		6	74	104	26.6	15.2		435.0
X69		11.9	7.5		2	65	117	13.8	10.3		430.3
X70		16.5	10.4		0	51	105	16.5	6.1		426.1
X71		70	3.2		0	49	70	7.0	^{3.9} 3.2		412.2
X72		71	4.2		2	36	70	10.0	^{14.3} 5.7		416.1
X73		40	5.3		3	34	39	6.4	11.7		412.2
X74		5.2	10.4		3	34	50	5.2	13.6		403.4
X75		6.8	7.3		3	33	66	11.5	18.8		406.2
X76		12.7	3.8		2	37	125	16.5	2.3		377.2
X77		22.1	3.0		1	41	219	24.3	27.3		392.7
X78		24.5	4.7		5	16	244	7.8	16.5		405.5
X79		16.2	1.9		5	45	262	3.1	14.0		410.0
X80		6.6	5.0		5	46	64	2.6	7.8		412.4
X81		1.4	1.2		5	54	43	11.8	10.6		420.6
X82		14.0	5.3		1	62	137	16.8	+10.3		430.3
X83		18.0	4.2		2	65	176	7.7	22.0		412.5
X84		13.0	7.4		2	61	128	19.8	+6.9		420.9
X85		9.7	5.7		0	50	77	10.5	7		414.3
X86		9.6	3.5		0	48	76	1.9	-10.4		411.1

2234567890

104.6

334-1277-0756

133
13

17
20

From	To	H.I.	Sz	RH	H	V	H.D.	V.S. Diff	E.P.	E.S.
987	x87	234	6.1	.5	16	232	9.4	5.8	20.0	70.3
995	x88	2.6	6.9	3.3	3	66	67	11.0	7.7	30.2
	x89	74	6.4	4	70	90	18.8	+16.4		41.6
	x90	141	5.4	2	65	138	21.2	15.8		49.6
	x91	66	2.3	0	50	66	0	2.3		42.9
	x92	76	6.5	1	42	75	6.1	11.6		41.4
	x93	70	5.0	3	32	68	12.6	17.6		41.4
x87	987	4.1	232	3.5	.5	54	231	9.4	5.9	40.8
	x94	161	8.8	5	47	160	4.8	13.6		39.4
	x95	170	2.8	.5	43	169	11.9	14.7		39.3
	x96	179	5.0	0.5	43	178	12.5	17.5		39.0
	x97	153	4.8	1	42	152	12.2	7.0		39.1
	x98	57	8.0	0	30	57	0	8.0		40.0
	x99	99	9.0	0	50	99	0	9.0		39.0
	x100	121	7.7	0	50	121	0	7.7		40.3
	2101	129	5.4	0	52	129	2.6	2.8		40.5
	x102	144	5.9	5	53	143	4.3	+1.6		40.6
	x103	210	5.4	0	49	210	2.1	7.5		40.5
	x104	265	10.3	0	48	265	5.3	13.6		38.4
	x105	245	6.3	5	45	244	12.5	18.3		45.2
	x106	211	7.9	5	45	210	10.6	16.5		48.5
994	x107	24	10.2	5.4	1	59	101	9.2	+3.8	42.6
	x108	119	4.0	3	66	115	19.0	+15.0		44.6
	x109	122	6.4	5	72	116	26.8	20.4		44.6
	x110	153	3.7	3	68	148	27.6	23.9		45.6

232
1
 938

211
 57

FROM	TO	NR	#	V	H.D.	V.S.	DIFF	E.P.	E.S.	
988	476	77	67	95	0	52	69	0	174217420	
X137	140	63	5	47	139	42	-105		4112	
X128	120	105	0	49	130	13	-112		4099	
X139	93	100	0	50	98	0	-10		4117	
X130	93	104	0	50	73	0	-104		4113	
X139	84	97	0	50	94	0	+92		4120	
A	X142	2.0	114	54	5	47	113	34	-88	4060 3172
A	X143	166	57	0	46	166	33	-84	3176	
X144	180	110	0	49	180	18	-128		1182	
X145	113	88	0	47	113	10	-99		3961	
X146	113	77	62	0	50	77	0	-62	3971	
X147	113	224	112	5	47	223	17	-111	4093 3710	
X148	110	168	5	47	131	10	-118		3911	
X149	146	104	5	46	145	53	-162		3918	
X150	113	102	0	49	97	1	-111		3968	
X151	38	102	0	45	38	8	-110		3249	
X152	70	85	0	50	2	18	-83		374	
X153	144	30	0	60	194	0	3		319	
X154	207	116	1	59	204	2	-132		4110	
X155	410	105	0	53	403	70	-53		3720	
X156	490	102	5	53	477	13	-53		3722	
X157	515	130	5	53	507	153	-53		4110	
X158	374	67	5	43	377	114	-47		4001	
X159	232	113	5	53	241	76	-73		372	
X160	203	42	5	44	202	5	-1		372	

01/14/11
11/13/11

379
3

113

479
3

123

3982

From	To	HT	Sta	RR	#	W	H.D	US Diff	K.P.E.S.
D	x161	R2	138	5.0	1	59	139	12.4 + 7.2	395.1 388.9
	x162		189	8.9	1	61	187	20.8 + 2.2	407.9
	x163		219	9.5	1	62	227	26.2 + 16.0	412.8
	x164		184	12.3	5	56	183	7.4 - 3.9	392.0
	x165		144	10.0	5	56	143	8.6 - 1.4	394.5
	x166		31	11.1	0	30	31	1.1	304.9
	x167		110	7.0	7	42	109	8.8 - 1.8	389.1
	x168		146	7.8	0	48	146	2.9 - 10.7	385.2
	x169		223	4.3	0	49	223	2.2 - 6.5	389.4
	x170		195	7.1	0	48	195	3.9 - 13.0	382.9
	x172		122	6.2	5	44	121	7.3 - 13.5	382.4
	x172		310	9.6	5	47	308	9.3 - 18.9	377.0
	x173		156	1.0		50	156	0 - 1.0	394.9
	x174		350	5.3		53	350	+10.5 + 5.2	401.1
x174	x174	2.6	350	10.6		50	350	0 - 10.6	393.0
	x175		375	2.0		50	375	0 - 2.0	401.6
A175	A174	2.5	375	1.6		51	375	0 - 1.6	404.1
	A176		385	9.1		49		-11.5 - 20.6	385.5
	x176	3.1	390	4.3		56	389	+23.4 - 1.1	391.5
	853		247	5.3		57		+17.3 - 12.3	386.9
	853 C	2.9	257	6.7		50		-6.7	388.8
			246	10.8		48		-14 - 15.6	385.2
	x176	3.1	210	4.3	0	57	210	4.8 + 5	385.3 385.8
	x178		232	8.3	0	52	232	7.6 - 3.7	384.6
	x179		170	8.3	0	5.2	170	3.1 - 1.1	383.4

394.1 402.1

3.8			
397.9	287		
	17.27		
00.8			
15.6			
25.2			
18.9			
26.2			
6.7			
2.9			
-3.8			
3.8			
00.8			
6.7			
45.87.9			
2.9			
400.8			
19.4			
3.1			
86.6			
19.1			
05.7			
6.7			
2.9			
3.1			
3.8			
22.2			
79.4			
3.1			
82.5			

Use 385.2 for Elevation of x176

F. Rom. To	H. S. Z.	RR.	✓	S	K.D.	VS	Dgg	E.P.	E.S		
175	205	2.6	194	42	8	53	143	5.8	118	+44.2	4019
	206		182	42	5	57	162	41.3	115		4112
	207		189	42	12	51	167	45.5	114		4110
	208		178	41	2	52	161	40.2	114		4081
	209		130	31	0	130	0	-0.7			4051
	210		178	43	10	114	157	111.2			4238
211	211	3.4	174	41.5	1	41	172	157	122.7		4238
212	211		170	42	7	47	188	171	262		4201
212			115	42	1	41	114	10.4	20.3		4064
213			71	73	1	40	70	7.1	18.6		4123
214			26	42	5	44	26	1.5	12.7		4115
215			52	42	3	62	52	6.2	11.0		4277
216			115	42	1	62	114	2.9	19.8		4465
217			150	41	2	65	127	22.5	19.5		4461
218			60	6.2	2	65	54	9.0	2.7		4388
219			57	8.0	15	57	57	4.5	4.0		4221
220			134	4.0	0	52	134	0.4	0		4327
221			33	41	0	54	33	0	4.1		4216
222	222	2.9	176	40	0	50	176	0	4.0	total	700.0
223			115	77	5	56	102	6.7	1.8		4032
224			145	75	5	53	134	4.4	3.9		400.6
225			130	72	5	55	129	6.5	1.7		4047
226			83	6.8	1	60	82	4.7	1.5		4050
227			56	22	1	60	55	15.6	2.6		4074
228			140	5.0	0	51	140	1.9	3.6		4024

	169	178
	162	16
	1134	1068
	114	1134
	15.66	11.8

~~215~~ ~~216~~ ~~217~~ ~~218~~ ~~219~~ ~~220~~ ~~221~~ ~~222~~ ~~223~~ ~~224~~ ~~225~~ ~~226~~ ~~227~~ ~~228~~

FROM	TO	H.I	Sta	R.R.	H	V	H.D	V.S	Diff	E.P	E.S
173	229	3.6	41	3.0	0	51	41	+4	2.6	398.5	395.9
	230		81	3.0	0	50	81	0	-3.0		395.5
	231		103	3.3	1	59	103	+9.3	+5-		402.5
	232		117	2.5	1	59	116	+0.5	18-		406.5
	233		117	2.5	1	59	116	+0.5	18-		407.5
	234		92	6.2	1	61	91	+0.1	3.9		402.4
	235		68	2.4	0	50	68	0	-2.4		396.1
	236		30	4.2	0	50	30	0	4.2		394.3
	237										
B	237	2.0	236	2.4		55	235	+11.8	18.4	392.3	391.7
	238		235	2.7		52		+4.6	+1.9		385.2
	239		168	2.1	0	50			-7.1		376.2
	240		155	8.2		50			2.2		375.1
	241		175	2.8		42		-5.2	8.2		373.1
238	B	1.9	230	2.3		46		-9.4	12.7	378.8	374.4
	242		142	19.2		54	141	2.1	-11.3	376.5	376.5
	243		170	9.0		54	169	+6.2	19.2		375.6
	244		217	10.1		54	216	+0.9	20.9		372.9
718	245		248	7.4		54	247	+6.9	17.3		366.5
717	246	2.3	207	9.7		54	206	+1.5	19.2	391.3	393.4
71	247		315	4.0		54	313	+1.8	17.8	395.8	397.8
	248		367	7.5		54	365	+1.6	22.1		366.6
	249		350	11.6		54	345	+5.1	10.5	395.1	392.1
	250		246	2.6		54	245	+1.1	9.9		391.2
241	151	3.9	45	9.2		1	60	+4.5	7.3	395.1	396.4

245

246
3

739

92
92

184

714
206

920

367
392

1456

385.2 E.P. 238

392.5

249
6

1688

394.9
36

398.5

380.8 392.7
380.8 2.9

377.9 400 382.

377.9
390.0

A.R.M. 235

250	252	75	3.7	1 60	74	7.5 + 3.9	395.1	398.9
258	100	51	1 57	99	9.0 + 3.9			399.0
254	165	61	0 49	105	11 - 7.2			387.9
255	108	97	6 45	107	5A - 151			380.0
256	172	5.2	5 45	171	96 - 148			380.8
257	260	10.8	0 50	260	0 10.8			84.3
258	292	6.9	5 46	291	11.9 - 10.8			76.3
259	182	3.9	1 42	180	14.6 - 16.5			76.6
260	217	5.6	5 43	213	15.0 - 20.6			74.5
261	240	3.8	1 42	238	19 27.30			71.8
262	144	11.6	5 45	143	7.2 - 18.8			5.3
263	85	4.1	2 35	83	12.8 - 10.9			398.1
264	44	5.6	2 35	45	6.9 - 12.5			6.3

3816	397.7		29.4
3817	392.8	46	110.8
386.7		10	214
378.8		230	1498
		46	
379.1	81.4	48	192
383.1	85.4	8	102
383.1	377.4	8	1456
386.4		85	
373.3		15	
376.9	72.6	25	
375.1	377.4	85	11.72
377.0	79.3		
381A			

004

Aug. 20, 1947

Δ 980 - 950.0 +75 ✓

From To	H.2	Shad	R.R	H	V	H.D	N.S	Dist	Elev.		
980	X265	2.2	160	1.5	4	70	154	+32.0	30.5	492.9	
	X266	166	2.2	125	62	164	+19.9	77.7		470.1	
X266	980	2.4	166	2.8	1.2	38	164	-19.9	77.7	449.6	
	267	185	2.9		5.3	185	+5.5	-7.4		471.1	
X267	266	Can get line only on shot.									
	268	2.8	200	3.6	1	60	198	+20.0	+16.4	473.9	
X268	267	2.2	200	3.7		4.7	198	-13.0	+21.7	472.9	
	269	100	1.5	6	7.5	94	+25.0	235		5160	
	270	260	1.2	4	2.9	251	-5.4	+53.0		436.5	
X270	268	2.5	260	3.7	4	70	251	+5.2	-51.3	472.3	
	271	230	1.9		4.0	228	-23.0	-24.9		473.6	
271	270	2.6	240	3.5		60	238	+24.0	20.5	474.1	
	272	255	3.7		1.7	255	7.6	-11.3		404.9	
272	271	2.6	Orientation only can't see								
Δ3	300	3.9		4.6	2.9	-10.2	-15.7			391.6	
Δ3	273	1.8	100	6.6	1	61	99	+16.0	+4.4	435	
	274	156	^{5.5} 7.0		1	61	149	^{11.6} 11.6		413.1	
	275	226	5.1	1	5.8	174	+11.3	^{20.3} 16.2		433.8	
	276	217	9.4	1	5.9	215	+19.5	11.1		414.6	
277	Missed numbered, after 283 field notes check										
278	253	8.2	1	5.8	250	+20.2	17.1			425.5	
279	280	6.7	5	5.6	278	+16.8	+16.1			423.6	
280	263	8.7	5	5.6	261	+5.8	-11.1			418.6	
281	274	8.2	5	5.6	243	+6.4	+8.2			421.7	
282	220	9.3	.5	5.6	219	-13.2	+3.9			416.9	
283	203	8.8	.5	5.6	202	+7.8	-3.3			416.3	

Elev.
265 - 482.9
266 - 470.1
267 - 471.1
268 - 490.3
270 - 436.5
271 - 473.6
272 - 404.9
273 - 435
274 - 413.1
275 - 433.8
276 - 414.6
278 - 425.5
279 - 423.6
280 - 418.6
281 - 421.7
282 - 416.9
283 - 416.3

36.5
17.9
226
9
2434
20.5
2.5
17.9

413.6
Very poor shot, half shot in gloves, orientation
may be off too.
Use 7.15 shot

well enough

Δ 2	284	18	271	0.5	5	56	240	145	6.0	413.5	417.5
	285		379	8.9	.5	5.6	379	227	13.9	427.4	
	286		354	4.5	1	58	350	203	15.8	427.5	
4285	3.8	378	7.5	.5	44	376	227	30.2	437.2	441.0	
R		378	5.9		45		18.9	24.8	436.5		
287		137	6.2	1	42	136	11.5	16.2	420.3		
288		146	5.1	1	41	145	13.1	18.2	418.3		
289		207	3.6	1	41	205	18.6	22.2	414.3		
290		702	3.7	1	41	101	9.2	12.9	423.4		
291		194	7.0	1	42	192	15.5	22.5	414.2		
292		104	9.9	1	42	103	8.3	18.2	418.3		
293		74	9.2	1	42	73	5.9	15.1	421.4		
294		41	7.1	5	44	41	2.5	9.6	426.7		
295		135	6.1	0	43	135	2.7	8.8	427.7		
296		26	6.2	0	49	26	3	6.5	437.0		
297	297	2.8	57	11.5	2	35	56	8.5	26.45	437.8	
298		14	6.2	5	45	14	2.2	8.4	444.7		
299		150	5.4	5	48	149	7.5	12.9	439.8		
300		30	7.4	1	40	30	3.0	10.4	441.4		
301		42	7.3	1	40	42	4.2	16.5	411.3		
302		39	6.3	1	62	39	4.8	11.9	451.3		
303	30	14	6.0	0	51	14	1.1	5.8	452.4		
304		15	5.4	1	76	15	1.5	4.2	461.4		
305		65	5.0	0	61	65	5.0	6.0	461.4		
306		6	4.2	1	59	6	1.2	2.2	461.4		
		97			71	97	2.4	4.5	461.4		

									379
									227
									354
									413.5
									271.4
									30
									31.2
									27.8
									26.4
									29.8
									411.73
									29.8
									436.53
									3.8
									432.7
									451.8
									7.3
									457.3

427.4
 3.8
 431.2
 Elevation 432.7
 3.8
 436.5

Area	To	HT	ST	RR	H	V	AD	V.S.	Digs	L.P.	F.S.
286	307	3.0	129	2.9	1	60	128	12.9	10	457.0	467.0
	308		100	10.5	1	62	99	12	11.5		459.5
	309		130	7.4	1	62	107	13	11.5		457.0
285	310	6.0	18	11.1	5	49	12	6	16.7	453	414.7
	311		100	7.8	5	44	9	11	7.8		207
	312		120	9.0	3	53	120	12.2	11.2		497.0
	313		157	6.2	4	70	151	12.4	12.4		512
	314		120	4.5	5	22	171	13.26	13.57		621.2
	315		130	4.5	8	97	120	13.6	13.18		517.8
	316		102	3.1	8	79	94	12.1	11.5		513.4
	317		133	2.0	65	75	145	13.8	13.3		511.7
	318		113	5.1	1	60	112	11.8	11.7		491.6
	319		110	4.1	5	77	109	13.5	13.4		511
2817	320	3.3	105	9.5	3	55	164	15.3	14.2	530.0	530.0
	321		102	11.6	5	44 44	109	16.5	18.1	501.0	514.0
	322		169	5.2	1	59	167	15.2	14.0		521
4	323		79	6.6	7	75	73	11.5	12.9		530.5
	324		109	7.8	6	74	102	12.2	11.7	538.4	527
	325		135	6.5	8	65	133	12.7	11.2		512
	326		130	12.0	5	54	129	14.2	14.8		513.2
	327		113	2.8	2	36	111	15.3	16.6		503.4
	328		165	8.6	3	33	160	12.8	13.6		483
	329		112	6.2	6	26	155	12.8	13.3		507
2322	331	2.8	166	5.3	5	43	145	11.6	11.7	532.0	515.1
	330		160	8.7	45		3.0	16.7			

165
17
115.5
14.5
28.0

20
36.6
83.4

167
1.8
13.9

FROM	TO	NT	ST	RR	N	U	D	V.S.	Diff	FP	EJ
		49	10.1	5	56	44	1.2	11.9	5328	55	
331		100	2.2	5	55	100	15.	-2.8	5393		
332		4.6	9.4	5	55	96	+2.3	21	5307		
333		102	4.7	1	59	101	19.2	4.5	5283		
334		122	5.2	1	60	121	12.2	-	5376		
335		34	11.	0	51	34	.3	-10.7	5221		
336		49	3.3	0	49	49	-.5	-3.8	5290		
337		70	6.7	1	58	69	+5.6	-1.6	5324		
338		165	4.2	1	60	163	+6.5	12.3	5451		
339		83	5.7	1	62	82	+10.	-4.3	5285		
266	340	7.7	8.0	4	31	44	8.7	+6.7	4728	45.61	
341		83	7.2	6	27	78	+9.1	-26.3	4415		
342		130	6.3	3	33	126	-22.1	28.4	449.4		
343		165	2.6	3	34	160	-26.9	29.	4439		
344		135	8.0	1	42	134	10.8	10.8	4540		
345		65	5.1	1	41	64	5.7	-11.	4618		
346		53	4.4	6	71	50	+2.7	8.3	4811		
347		37	2.2	7	70	34	10.7	18.1	4801		
266	348	28	71	10.	5	54	71	+2.8	-7.2	4739	44.7
349		62	5.1	6	27	58	+1.6	19.1	4572		
350		109	6.8	5	29	107	22.7	21.7	4442		
351		131	5.0	5	29	125	-21.6	37.6	4413		
352		152	4.1	3	32	147	-2.1	51.3	4728		
353		70	6.3	3	32	68	-12.6	19.4	4555		
354		36	6.4	1	42	36	-2.9	9.3	4616		

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760	72	7.9	5.2	5	72	7.5	11.4	19.2	412.5	479.1	
381	84	7.0	1	15	72	7.0	14.0		466.5		
382	42	6.2	7	77	102	27.7	-2.5		521.0		
383	153	9.3	7	75	93	26.1	16.3		501.3		
385	65	4.6	7	76	61	+16.9	15.3		561.8		
384	88	6.0	6	73	84	+20.2	+14.2		57.7		
385	109	6.2	7	65	106	+16.7	+10.1		502.0		
378	386	3.6	7.0	5.5	8	78	65	+19.6	+14.1	+22.6	536.7
387	145	10.7	8	77	120	+29.2	+28.5		551.1		
388	116	6.3	6	75	112	+29.8	+23.7		546.3		
389	130	7.0	6	77	125	+35.6	+28.0		550.6		
390	155	8.0		75	156	+30.8	+30.8		553.4		
391	75	5.8		75	71	+18.7	+13.3		545.9		
392	95	7.0	7	68	92	+17.1	+10.0		532.6		
393	893	3.8	1.8	2.3	50		-2.3	557.2	554.9		
394	104	2.6		53		+3.0	+1.5		557.1		
395	102	5.3		55		+5.0	-3		550.9		
396	38	1.0		58			7.0		550.1		
397	53	7.1		61	52	+5.1	-1.3		555.9		
398	100	10.6		58	99	+8.0	-2.6		554.6		
399	110	8.2		53		+2.3	-2.9		552.3		
400	140	11.6		52		2.8	-7.8		549.4		
401	104	7.2		48		-6.0	-13.2		544.6		

flat, near di. ind. (S)

57.4
3.8
57.2

Elev 4

Elev 5
405.9
2.1
427.3
390.1

Time	To	Alt	SR	H	V	1.0	V13	0.11	
A7	1400	17	82	5.7	1	60	87	8.2	2.5 417.8
	1403	145	10.5	3	64	143	203	11.8	417.1
	1404	178	10.4	3	63	174	231	12.7	410.0
	1405	178	12.0	2	63	188	249	12.9	425.2
	1406	155	8.7	1	60	153	155	16.8	419.1
	1407	220	16.0	1	62	218	284	16.4	411.5
	1408	240	8.9	1	61	238	269	18.1	423.9
	1409	154	11.5	1	61	152	168	5.3	412.6
	1410	138	5.5	1	60	137	138	8.3	416.6
unc	1411	256	2.9		58	252	1205	18.0	425.7
X411	4	149	2.3		42	263	212	13.5	418.8
	412	58	10	5	77	53	17	2.7	420.1
	413	33	23	2	63	32	43	2.0	432.8
	414	75	4.1	1	61	74	8.2	4.1	417.1
	415	128	3.3	5	57	127	70	5.7	414.5
	416	147	4.9	5	53	146	144	4	426.1
	419	73	11.1	5	57	73	51	6.0	413.9
	418	124	5.3	5	44	123	74	4.7	421.1
	417	70	11.5	0	61	70	70	3	415.0
Δ5	X42072	207	6.4		56	206	114	16.0	317.3 318.3
	208	144	3.0	7	60	142	144	5.4	311.9
	209	286	11.3	1	58	283	200	12.5	414.0
	210	212	7.6	1	58	211	120	11	413.5
	211	110	7.2	1	57	109	108	11	414.1
	212	128	10.9	5	46	127	72	5.2	311.1

423.7

23.5
22
206

12.4

422.8

416.1

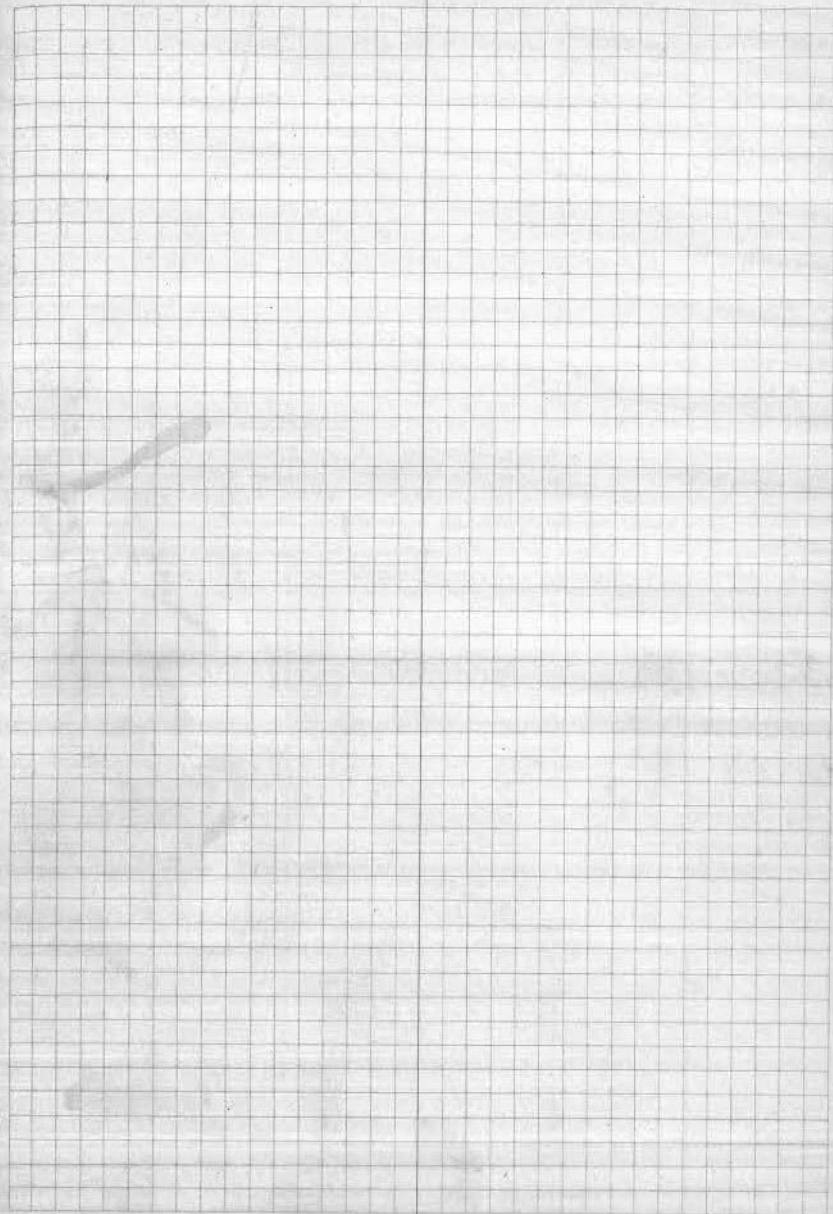
47	22	11.2	11.1	50	109	80	2	3923
477	135	5	5	53	129	6.3	41	3526
478	214	11.6	5	53	129	6.3	41	3526
479	222							3517
480	223				275	0	-7	3513
481	213	8	7	50	343	0	93	3526
482	223	9.2	0	50	320	0	-7.4	3567
483	256	9.9	5.0				-7.9	3524
484	25	206	9.2	49		-2.0	11.2	3576
484	122	5.9	1	59	121	11.1	15.1	359
485	115	8.3	1	57	114	11.2	2.1	3509
486	157	1.4	5	54	156	6.3	1.9	402.7
487	50	1.4	0	50	50	0	4.4	396.4
488	17	7.4	5	47	171	14	2.3	391.9
489	129	2.3	0	43	127	26	4.9	395.7
490	224	8.6	0	50	204	0	-8.6	392.7
491	173	9.2	5	47	172	5.2	14.4	766.4
492	95	8.3	5	47	95	2.9	11.8	381.6
493	38	6.3	5	47	38	11	7.4	393.4
494	56	7.2	0	41	56	6	6.6	374.2
495	134	10.8	0	43	134	0	10.8	396
DI 496	35	12.2	8.2	1	58	121	9.8	390.6
497	160	10.6	1	59	159	14.4	13.8	
498	264	9.4	5	57	203	11.3	4.9	
499	227	9.5	5	57	227	15.9	6.7	

398.3
2.5
395.8

H.I. at 0/ 3.5 from
top of ground. 8.5
3.2 high

394.1

Area	T ₀	H.I. Sta	RA	P	V	V.D.V.S.	D ₁	E.P.E.S.		
Δ 1	450	315	241	10-	.5	57	290	169	390.6	
	451		321	9.9	.5	54	319	128	+2.9	
	452		338	9.7	.5	54	336	135	+3.8	394.4
	453		196	7.4	.5	54	135	5.3	7.1	
	454		206	12.8	.5	55	²⁰⁵ 193	¹⁸³ 05	-5	390
	455		321	6.9	0	50	321	0	-6.9	
	456		208	5.4	0	50	208	0	-5.4	
	457		162	1.4	0	51	162	16	10.2	391.
	450									



Hardy Property

Elev H8
638.6
5.1
640.2

FROM	TO	KG	STG	RR	#	V	WD	VS	Diff	K.P	K.S
H5	H112	16	189	10.8		47		-5.7	76.5	642.2	627.96
H112	H5	2.6	170	7.3		63	189	+19.2	+11.7	639.0	629.6
H15	H113	16	112	6.8		50		-6.8		636.8	634.6
	H4	14	14	1.4		50		1.9		619.5	617.0
	H15	8.5	8.0			40	84	-8.5	-16.9	617.0	615.8
H116		13.0	1.9			40	129	7.0	-24.0	638.7	634.3
H113	5	3.1	1.0	3.7		55		+5.5	+1.8	637.8	634.3
	H117	154	4.5			54		+6.1	+1.6	634.3	633.3
	H118	85	3.0			56		+5.1	+2.1	636.8	629.5
H117	H113	2.5	154	7.3		50		-7.3		627.5	627.0
	H119	120	5.7			47		-3.6	-9.3	635.4	634.9
	H120	30	1.1			50		-1.9		620.0	620.0
	H121	14	10.0			50		70.0		624.3	624.3
	H122	84	3.0			46		-3.3	-6.8	629.4	629.4
	123	22	10.6			47		-2.0	-12.5	629.4	629.4
Aug 31, 1947											
H119	H117	1.7	120	5.5		58		+7.6	+4.1	629.4	623.5
	H124	140	3.3			56		-3.6	-8.9	625.0	624.0
H124	H119	2.5	140	1.3		54		-5.6	+4.0	620.5	618.6
	H125	87	4.4			50		4.4		621.6	620.5
H118	H124	3.0	87	2.3		55		+9	7.4	624.1	624.1
	H126	124	7.2			54		+4.9	+2.1	627.3	619.1
H126	H125	26	125	1.5		43		-3.7	-11.2	620.4	620.4
	H127	85	4.4			47		-2.5	-6.9	623.6	624.3
127	126	22	85	4.4		46		+6.1	+2.7	623.6	624.3

East gully

Under hill

154
2
156
15
17
171125
27.0

Aug 30/1927 Sunday

From	To	High	Spd	R.R	H	N	H.D	V.S	D.T.H
H127	4128	32	170	6.0		47		5.1 -11.1	623.6
								5.8 -11.8	616.8
128	4127	2.8	170	5.8		56		10.2 -4.8	619.6
									610.6
H129	4129	2.2	170	4.0		50		-4.0	611.8
H129	128	3.2	225	5.5		52		2.5 -1.0	615.0
								1.1 -2.4	610.7
*H30	128	2.3				52		15.3 -2.0	616.6
130	129	2.8	125	6.6		53		13.7 -2.9	619.9
								10.0 -1.3	619.5
H131	110	5.7				59	209	14.9 -4.2	623.7
H125	4131	3.6	70	4.2		53		12.1 -2.1	614.9
									618.6
132	90	4.9				48		11.8 -6.7	620.8
133	86	3.2				51		1.2 -1.4	616.8
134	9	4.8				50		-4.8	626.6
135	24	5.0				50		-5.0	618.3
136	74	3.6				42		-5.7 -9.2	609.3
137	70	5.8				39		2.7 -10.5	614.8
138	67	7.0				40		6.7 -13.9	607.9
139	114	7.5				38		13.7 -21.2	604.4
140	100	7.5				37	98	13.0 -22.5	601.1
H126	141	2.6	55	6.0		46		12.2 -4.8	622.5
									615.4
142	94	4.5				43		-7.4 -11.9	616.7
143	78	0.6				37	76	16.1 -16.6	620.3
144	30	2.0				50		-7.0	622.8
145	28	4.5				50		-4.0	622.8
146	26	4.5				50		-4.0	622.8
147	36	4.5				50		-4.5	623.2
148	84	6.0				56		1.9 -4.1	623.2

619.1									
623.4									
616.5									
604									
620.7									

Alouatta palliata chrysotis

622.1
3.2
618.9

11.4
12
21.5
11.9
12.4

11.1
11.1
11.1
11.1
11.1

7.8
2.4
5.4
3.8
1.4

Sept. 5, 1947

From To	N.T. stat	RR	H	V	H.D.	V.S.	D.P.T.
127 129	32	38	3.5	5	53		+1.9 2.3
150	45	3.7		53			1.2 2.5
151	62	5.2		50			-5.2
152	70	5.2		46			-2.8 3.0
153	75	8.0		47			-2.2 10.2
154	94	6.1		45			-4.7 10.8
155	130	7.0		45			-1.5 13.5
156	110	6.0		40	109	110	-17.0
157	65	6.8		40	64		-6.5 12.4
158	70	7.5		40			-7.0 14.5
159	34	4.7		40			-3.9 8.1
160	44	5.3		40			-4.4 9.7
161	60	7.6		38	58		+7.2 14.8
162	36	8.0		42			-2.6 10.6
163	15	6.2		50			-6.2
164	95	9.5		45			-4.7 14.2
1123 165	2.8	36	4.6		50		4.6
166	95	9.5		45			-4.7 14.2
167	80	7.5		40			-5.0 15.5
168	74	8.5		40			-7.4 15.9
169	83	9.6		40			-8.3 17.9
170	74	10.0		42			-7.5 17.5
171	75	5.2		45			-3.7 8.9
172	65	7.2		50			-3.2

621.3
~~621.0~~
 621.1
~~621.1~~
 618.4
~~21.7~~
 615.6
~~118.3~~
 613.4
~~118.7~~
 612.8
~~15.5~~
 610.1
~~612.8~~
 606.6
~~607.1~~
 610.7
~~613.4~~
 609.1
~~14.8~~
 615.5
~~17.2~~
 613.9
~~16.6~~
 608.8
~~11.4~~
 613.0
~~15.7~~
 617.4
~~20.7~~
 609.4
~~11.4~~
 610.0
~~614.6~~
 620.4
~~620.4~~
 599.1
~~620.4~~
 598.7
~~620.4~~
 596.7
~~620.4~~
 597.1
~~620.4~~
 602.5
~~620.4~~
 605.7
~~620.4~~
 611.4
~~14.4~~

Breaky hill

Sept. 3, 1947

From To	U.I	S.A.	R.P.	H	V	M.D.	V.S	Date	
1129	173	2.2	77	7.5	67	76	120.3	+19.3	612.8 544.8 1026.1 627.5 613.1 614.5 607.8 14.2
	174		76	5.5	56		15.7	+3	605.7 616.8
	175		51	5.0	50			-5.0	617.9 613.5 617.9
	176		66	9.0	52		11.9	-7.1	617.9 617.3 614.5 17.9 619.0 622.8 617.0 620.8
1124	177	2.4	57	6.5	50			-6.5	626.0 623.0
	178		105	8.5	49		-1.0	-9.5	617.9
	179		74	6.5	52		+1.4	-5.5	617.9
	180		105	8.5	50			9.5	617.9
	181		95	4.0	50			-4.0	617.9
	182		195	6.0	50			-6.0	620.8

628.0

610.4

617.8