

LEVELING  
EUREKA TO SAN FRANCISCO CA

RUN DATE: 05 NOV 84 TIME: 10:28

PAGE 1  
HGZ L389  
4.0 MM 1ST-ORDER/CLASS II

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
3	LVO280	31 USGS		0.000	8.84570	8.84570	0	40 48 13	124 09 51
4	LVO279	1 USGS		0.264	4.44623	4.44623	1	40 48 10	124 09 57
5		TBM 1		1.299	2.08958	2.08958	1	40 47 44	124 10 19*
6		TBM 2		2.326	3.79570	3.79570	1	40 47 19	124 10 40*
7		TBM 3		3.293	3.40653	3.40653	1	40 46 55	124 11 01*
8	LVO275	K 75		3.585	4.51958	4.51958	1	40 46 48	124 11 07
9		TBM 4		4.729	3.64543	3.64543	2	40 46 36	124 11 17*
10	LVO476	A 100 CSHD		5.116	2.85956	2.85956	2	40 46 32	124 11 21
11	LVO270	B 100		6.501	1.75866	1.75866	2	40 45 39	124 11 33
12		TBM 5		7.516	2.95030	2.95030	2	40 45 12	124 11 52*
13		TBM 6		8.501	2.00881	2.00881	2	40 44 46	124 12 10*
14	LVO265	C 100		9.682	1.13038	1.13038	2	40 44 15	124 12 32
15		TBM 7		9.693	1.96185	1.96185	2	40 44 15	124 12 32*
16		TBM 8		10.748	1.35263	1.35263	2	40 43 42	124 12 26*
17	LVO262	TIDAL 4	)	11.009	1.48842	1.48842	2	40 43 27	124 12 48
16		TBM 8	*	10.748	1.35263	1.35263	2	40 43 42	124 12 26*
18		TBM 9		11.818	1.37048	1.37048	2	40 43 10	124 12 20*
19		TBM 10		12.594	1.83103	1.83103	2	40 42 46	124 12 16*
20		TBM 11		13.447	1.40229	1.40229	2	40 42 20	124 12 12*
21		TBM 12		14.248	1.55600	1.55600	4	40 41 56	124 12 07*
22	LVO261	D 100 CSHD	)	14.465	10.34416	10.34416	2	40 42 06	124 12 07
21		TBM 12	*	14.248	1.55600	1.55600	4	40 41 56	124 12 07*
23		TBM 13		14.648	0.68674	0.68674	2	40 41 43	124 12 05*
24		TBM 14		15.728	1.12632	1.12632	2	40 41 10	124 11 59*
25		TBM 15		16.815	1.39686	1.39686	2	40 40 37	124 11 53*
26	LVO256	E 100		17.086	0.74417	0.74417	2	40 40 29	124 11 52
27		TBM 16		18.155	8.73386	8.73386	2	40 40 03	124 12 13*
28		TBM 17		19.173	16.93125	16.93126	3	40 39 38	124 12 33*
29		TBM 18		19.973	24.09480	24.09482	2	40 39 19	124 12 49*
30		TBM 19		20.648	24.16578	24.16581	2	40 39 02	124 13 02*
31	LVO475	F 100		21.778	15.57333	15.57337	2	40 38 35	124 13 24
32	LVO247	G 100 CSHD		22.625	6.25641	6.25646	2	40 38 13	124 13 19
33		TBM 20		23.785	9.60667	9.60672	2	40 37 48	124 12 50*
34		TBM 21		24.908	9.24451	9.24457	2	40 37 24	124 12 22*
35	LVO244	36.23 RRBM		25.871	10.17740	10.17746	2	40 37 03	124 11 58

HJO/NGS

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36	LVO474	H 100		25.895	10.71038	10.71044	2	40 37 03	124 11 58
37		TBM 22		26.976	11.57907	11.57914	3	40 36 44	124 11 22*
38		TBM 23		27.998	12.96983	12.96991	3	40 36 25	124 10 49*
39		TBM 24		29.203	12.77783	12.77792	2	40 36 04	124 10 09*
40	LVO473	J 100		29.924	15.59027	15.59036	2	40 35 51	124 09 45
41	LVO238	K 100	)	30.171	18.47164	18.47173	2	40 35 51	124 09 27
40	LVO473	J 100	*	29.924	15.59027	15.59036	2	40 35 51	124 09 45
42		TBM 25		31.064	14.61264	14.61274	3	40 35 17	124 09 26*
43		TBM 26		32.200	13.83954	13.83965	2	40 34 44	124 09 07*
44	LVO235	L 100		33.364	14.66712	14.66724	2	40 34 09	124 08 47
45		TBM 27		34.468	15.06080	15.06093	2	40 33 29	124 08 36*
46	LVO232	M 100		35.531	18.02074	18.02089	4	40 32 51	124 08 26
47		TBM 28		36.498	20.44431	20.44447	2	40 32 23	124 08 43*
48		TBM 29		36.759	20.26538	20.26554	2	40 32 15	124 08 47*
49	LVO231	N 100 CSHD	)	36.810	18.84804	18.84820	2	40 32 19	124 08 41
48		TBM 29	*	36.759	20.26538	20.26554	2	40 32 15	124 08 47*
50	LVO471	BOLT RRB		36.875	22.31250	22.31266	2	40 32 12	124 08 49
51		TBM 30		38.011	24.39583	24.39600	2	40 31 47	124 08 31*
52		TBM 31		39.093	25.33798	25.33817	2	40 31 23	124 08 14*
53	LVO227	P 100		40.063	22.57314	22.57334	2	40 31 01	124 07 59
54		TBM 32		41.221	24.62771	24.62792	2	40 30 51	124 07 13*
55	LVO225	Q 100		41.982	24.57225	24.57246	2	40 30 44	124 06 42
56		TBM 33		42.989	26.70380	26.70402	2	40 30 24	124 06 36*
57		TBM 34		44.069	27.96169	27.96192	2	40 30 02	124 06 29*
58		TBM 35		45.168	28.93120	28.93145	2	40 29 40	124 06 22*
59		TBM 36		46.108	31.93090	31.93116	2	40 29 21	124 06 16*
60	LVO394	R 100		46.794	30.80921	30.80948	3	40 29 07	124 06 12
61	LVO393	S 100	)	47.180	49.44079	49.44107	2	40 28 59	124 06 04
60	LVO394	R 100	*	46.794	30.80921	30.80948	3	40 29 07	124 06 12
62		TBM 37		47.941	30.92169	30.92198	2	40 28 42	124 05 48*
63		TBM 38		49.003	31.93997	31.94028	2	40 28 18	124 05 26*
64		TBM 39		50.068	32.31208	32.31241	2	40 27 55	124 05 04*
65	LVO508	T 100		50.846	33.00292	33.00326	2	40 27 38	124 04 48
66		TBM 40		51.853	37.40098	37.40132	2	40 27 37	124 04 05*
67		TBM 41		52.188	40.41287	40.41321	2	40 27 37	124 03 51*

HJO/NGS

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68		TBM 42		53.247	40.07279	40.07313	2	40 27 36	124 03 06*
69	LVO388	U 100		53.849	41.29528	41.29562	2	40 27 36	124 02 41
70		TBM 43		54.852	37.85846	37.85881	2	40 27 31	124 02 10*
71		TBM 44		56.189	38.24154	38.24190	2	40 27 24	124 01 28*
72		TBM 45		57.229	38.80123	38.80160	2	40 27 19	124 00 56*
73	LVO387	V 100		57.733	41.70034	41.70071	2	40 27 16	124 00 40
74		TBM 46		58.736	40.40061	40.40099	2	40 27 08	124 00 04*
75		TBM 47		59.999	40.11132	40.11171	2	40 26 58	123 59 19*
76	LU1316	W 100		60.538	39.19792	39.19831	2	40 26 54	123 59 00
77		TBM 48		60.871	38.86705	38.86745	2	40 26 45	123 58 54*
78		TBM 49		61.995	38.92621	38.92664	2	40 26 16	123 58 34*
79		TBM 50		63.031	44.88595	44.88641	2	40 25 50	123 58 15*
80	LU1315	X 100		63.563	48.86975	48.87023	2	40 25 36	123 58 06
81		TBM 51		64.489	48.86117	48.86165	2	40 25 35	123 57 28*
82		TBM 52		65.752	49.09060	49.09108	2	40 25 34	123 56 37*
83		TBM 53		66.251	48.09293	48.09341	2	40 25 34	123 56 16*
84	LU1314	Y 100		67.094	44.91533	44.91581	2	40 25 33	123 55 42
85		TBM 54		68.155	44.10040	44.10092	2	40 25 00	123 55 41*
86	LU1313	Z 100		68.842	44.78556	44.78610	2	40 24 39	123 55 40
87		TBM 55		69.841	45.10220	45.10277	2	40 24 08	123 55 30*
88		TBM 56		70.903	45.05981	45.06042	2	40 23 36	123 55 20*
89		TBM 57		71.513	46.28658	46.28721	2	40 23 17	123 55 14*
90	LU1312	A 101		72.650	46.95251	46.95318	2	40 22 42	123 55 03
91		TBM 58		73.214	47.78111	47.78180	2	40 22 24	123 55 02*
92		TBM 59		74.299	49.66760	49.66833	2	40 21 50	123 54 59*
93	LU1311	B 101		75.384	51.80497	51.80574	2	40 21 15	123 54 56
94		TBM 60		75.898	51.70027	51.70106	2	40 21 01	123 54 52*
95		TBM 61		76.884	48.63198	48.63280	2	40 20 34	123 54 44*
96	LU1237	C 101 CSHD		77.320	50.04412	50.04495	2	40 20 22	123 54 41
97		TBM 62		77.999	50.07054	50.07138	2	40 20 11	123 54 51*
98		TBM 63		78.968	48.49927	48.50013	2	40 19 54	123 55 06*
99		TBM 64		79.684	53.61425	53.61513	2	40 19 42	123 55 16*
100	LU1308	D 101		80.656	48.18816	48.18906	2	40 19 26	123 55 31
101		TBM 65		81.797	52.12609	52.12702	2	40 19 02	123 55 04*
102		TBM 66		82.789	53.63668	53.63764	2	40 18 42	123 54 41*

HJO/NGS

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103	LU1305	E 101 CSHD		83.153	53.13834	53.13931	2	40 18 34	123 54 32
104		TBM 67		84.236	53.47688	53.47788	2	40 18 08	123 54 16*
105		TBM 68		85.195	52.89441	52.89544	2	40 17 46	123 54 03*
106		TBM 69		85.687	51.83902	51.84007	2	40 17 34	123 53 56*
107	LU1300	F 101		86.779	55.03457	55.03565	2	40 17 08	123 53 40
108		TBM 70		87.795	58.57596	58.57706	2	40 16 52	123 53 21*
109		TBM 71		88.896	60.77365	60.77478	2	40 16 35	123 53 01*
110	LU1297	FF 101 CSHD		89.695	61.28971	61.29086	2	40 16 23	123 52 46
111	LU1296	G 101		90.340	59.09227	59.09345	2	40 16 04	123 52 21
112		TBM 72		91.230	69.51687	69.51804	2	40 16 11	123 51 59*
113		TBM 73		92.263	70.51101	70.51217	2	40 16 19	123 51 33*
114		TBM 74		93.205	60.05511	60.05626	2	40 16 26	123 51 09*
115	LU1291	H 101		93.635	69.38073	69.38187	2	40 16 29	123 50 58
116		TBM 75		94.652	63.17403	63.17521	2	40 16 07	123 50 38*
117		TBM 76		95.637	62.57817	62.57938	2	40 15 46	123 50 18*
118	LU1289	J 101	)	95.652	62.51504	62.51627	2	40 15 33	123 50 22
117		TBM 76	*	95.637	62.57817	62.57938	2	40 15 46	123 50 18*
119		TBM 77		96.569	66.18635	66.18759	2	40 15 26	123 49 59*
120		TBM 78		97.581	65.56397	65.56525	2	40 15 04	123 49 39*
121		TBM 79		98.487	65.22615	65.22746	3	40 14 45	123 49 21*
122	LU1287	K 101		98.935	66.26349	66.26482	2	40 14 35	123 49 12
123	LU1285	L 101		99.624	100.76133	100.76271	2	40 14 10	123 49 24
124		TBM 80		100.537	112.94753	112.94898	3	40 13 43	123 49 18*
125	LU1282	M 101		100.984	113.35834	113.35983	2	40 13 30	123 49 15
126		TBM 81		101.855	105.04043	105.04193	2	40 13 27	123 48 45*
127		TBM 82		102.602	99.97731	99.97882	2	40 13 25	123 48 20*
128		TBM 83		103.060	87.70965	87.71116	2	40 13 23	123 48 04*
129		TBM 84		103.667	72.13202	72.13353	2	40 13 21	123 47 43*
130		TBM 85		104.234	79.22034	79.22185	2	40 13 19	123 47 24*
131	LU1277	N 101		104.633	72.67205	72.67356	2	40 13 18	123 47 10
132	LU1276	P 101 CSHD		104.819	73.55585	73.55737	2	40 13 13	123 47 03
133		TBM 86		105.853	79.08656	79.08813	2	40 12 46	123 46 49*
134		TBM 87		106.555	90.04098	90.04259	2	40 12 28	123 46 39*
135		TBM 88		107.198	83.15351	83.15516	2	40 12 12	123 46 30*
136	LU1273	Q 101		107.860	74.35093	74.35261	3	40 11 55	123 46 21

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PAGE 5  
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137		TBM 89		108.972	74.34553	74.34726	2	40 11 27	123 46 30*
138		TBM 90		110.108	75.50799	75.50977	2	40 10 59	123 46 40*
139	LU1634	R 101		111.220	80.33067	80.33250	2	40 10 31	123 46 49
140		TBM 91		112.355	81.39791	81.39980	2	40 10 00	123 47 09*
141		TBM 92		113.322	93.14332	93.14527	2	40 09 33	123 47 25*
142	LU1633	S 101		114.047	93.76870	93.77070	2	40 09 13	123 47 38
143		TBM 93		115.131	100.35484	100.35690	2	40 08 49	123 48 04*
144	LU1632	T 101		115.839	86.84725	86.84935	2	40 08 33	123 48 21
145	LU1631	U 101 CSHD		116.529	89.69669	89.69883	2	40 08 16	123 48 44
146		TBM 94		117.246	111.04627	111.04845	2	40 07 59	123 48 44*
147		TBM 95		117.762	143.03431	143.03653	2	40 07 46	123 48 43*
148		TBM 96		118.513	150.33054	150.33283	2	40 07 28	123 48 43*
149		TBM 97		119.496	153.06018	153.06256	2	40 07 04	123 48 42*
150	LU1630	V 101		119.898	126.50477	126.50718	2	40 06 54	123 48 42
151		TBM 98		120.678	101.46846	101.47086	2	40 06 57	123 48 13*
152	LU1262	W 101		121.118	103.70955	103.71195	2	40 06 59	123 47 57
153		TBM 99		122.181	111.70699	111.70946	2	40 06 34	123 47 43*
154	LU1258	X 101		122.591	128.24499	128.24749	2	40 06 24	123 47 38
155	LU1255	XX 101		123.252	162.12562	162.12819	2	40 06 04	123 47 37
156	LU1253	Y 101 CSHD		123.717	172.60180	172.60443	2	40 05 49	123 47 36
157		TBM 100		124.243	202.07331	202.07601	2	40 05 34	123 47 33*
158		TBM 101		125.201	221.16884	221.17169	2	40 05 06	123 47 28*
159		TBM 102		125.859	227.22910	227.23206	2	40 04 47	123 47 24*
160	LU1249	Z 101		126.321	197.51174	197.51477	2	40 04 34	123 47 22
161		TBM 103		126.849	160.33618	160.33926	3	40 04 24	123 47 20*
162		TBM 104		127.278	130.70343	130.70654	2	40 04 16	123 47 18*
163		TBM 105		128.257	116.53253	116.53570	2	40 03 57	123 47 13*
164		TBM 106		129.301	115.36940	115.37263	2	40 03 37	123 47 08*
165	LU1247	A 102		129.787	120.38028	120.38354	2	40 03 28	123 47 06
166		TBM 107		130.611	137.23432	137.23764	2	40 03 10	123 47 21*
167	LU1246	B 102 CSHD		130.976	126.67767	126.68102	2	40 03 02	123 47 27
168		TBM 108		131.944	126.42927	126.43269	2	40 02 40	123 47 01*
169	LU1628	C 102		132.662	127.04917	127.05264	2	40 02 24	123 46 41
170		TBM 109		133.682	142.68709	142.69058	2	40 02 17	123 47 01*
171		TBM 110		134.735	152.09841	152.10193	2	40 02 10	123 47 21*

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172	LU1627	D 102		135.096	155.54314	155.54667	2	40 02 08	123 47 28
173		TBM 111		136.102	152.52181	152.52546	2	40 01 37	123 47 26*
174		TBM 112		137.078	138.11062	138.11438	2	40 01 07	123 47 23*
175	LU1241	E 102 CSHD		137.287	141.78978	141.79356	2	40 01 01	123 47 23
176		TBM 113		138.432	153.94688	153.95077	2	40 00 32	123 47 15*
177	LU1626	F 102		139.560	144.34433	144.34833	2	40 00 03	123 47 08
178		TBM 114		140.504	152.08293	152.08701	2	39 59 41	123 47 27*
179		TBM 115		141.188	161.11940	161.12354	2	39 59 24	123 47 40*
180	KT1521	G 102		142.046	174.91839	174.92262	2	39 59 04	123 47 57
181	KT1519	H 102 CSHD		143.061	162.37378	162.37812	2	39 58 37	123 48 02
182		TBM 116		143.838	180.86340	180.86781	2	39 58 20	123 47 41*
183		TBM 117		144.513	220.61205	220.61654	2	39 58 05	123 47 22*
184		TBM 118		145.604	229.50782	229.51245	2	39 57 41	123 46 52*
185		TBM 119		146.152	224.43758	224.44228	2	39 57 29	123 46 37*
186	KT1514	J 102		146.447	231.78109	231.78583	2	39 57 22	123 46 29
187		TBM 120		147.157	197.42322	197.42803	2	39 57 09	123 46 34*
188		TBM 121		147.944	202.06303	202.06791	2	39 56 55	123 46 39*
189		TBM 122		148.651	241.96606	241.97101	2	39 56 42	123 46 44*
190		TBM 123		148.824	247.99346	247.99843	2	39 56 39	123 46 45*
191	KT1511	K 102 CSHD		148.953	245.76723	245.77221	2	39 56 37	123 46 46
192		TBM 124		149.170	241.69007	241.69507	2	39 56 33	123 46 42*
193		TBM 125		150.333	226.89095	226.89606	2	39 56 14	123 46 20*
194	KT1701	L 102		151.440	200.89428	200.89949	2	39 55 56	123 45 59
195		TBM 126		151.971	197.88480	197.89007	2	39 55 44	123 45 57*
196		TBM 127		152.759	231.36023	231.36559	2	39 55 27	123 45 54*
197	KT1507	M 102 CSHD		153.520	263.90261	263.90808	2	39 55 10	123 45 51
198		TBM 128		154.716	244.38340	244.38903	2	39 54 45	123 45 37*
199		TBM 129		155.835	243.70327	243.70905	2	39 54 21	123 45 24*
200	KT1505	N 102		156.034	234.49068	234.49649	2	39 54 17	123 45 22
201		TBM 130		156.692	210.17255	210.17840	3	39 54 10	123 45 15*
202		TBM 131		157.834	211.51675	211.52266	2	39 53 59	123 45 04*
203	KT1502	P 102		158.242	202.82648	202.83241	2	39 53 55	123 45 00
204		TBM 132		159.328	230.78845	230.79451	2	39 53 31	123 44 50*
205	KT1501	Q 102 CSHD		159.765	222.44623	222.45234	2	39 53 22	123 44 46
206		TBM 133		160.910	220.13446	220.14066	2	39 53 06	123 44 10*

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207		TBM 134		161.759	257.58497	257.59124	2	39 52 54	123 43 44*
208	KT1496	R 102		162.797	278.79717	278.80354	3	39 52 39	123 43 11
209		TBM 135		163.900	292.20155	292.20806	2	39 52 19	123 43 01*
210	KT1626	S 102 CSHD		165.155	292.53633	292.54300	2	39 51 57	123 42 50
211		TBM 136		166.001	319.07926	319.08608	2	39 51 38	123 42 42*
212		TBM 137		166.648	357.24310	357.25005	2	39 51 23	123 42 36*
213		TBM 138		167.634	339.04167	339.04882	2	39 51 01	123 42 26*
214	KT1488	T 102		167.748	342.82391	342.83108	2	39 50 58	123 42 25
215		TBM 139		168.534	308.20000	308.20727	2	39 50 46	123 42 02*
216		TBM 140		169.325	325.84583	325.85319	2	39 50 35	123 41 38*
217	KT1624	U 102 CSHD		169.980	337.49605	337.50349	3	39 50 25	123 41 19
218		TBM 141		170.638	376.51881	376.52635	2	39 50 14	123 41 07*
219		TBM 142		171.636	382.66681	382.67451	2	39 49 57	123 40 49*
220		TBM 143		172.628	387.49912	387.50698	2	39 49 41	123 40 31*
221	KT1484	V 102		173.099	390.70813	390.71607	2	39 49 33	123 40 22
222		TBM 144		174.015	396.43233	396.44018	2	39 49 42	123 39 54*
223		TBM 145		174.968	397.53208	397.53984	2	39 49 52	123 39 25*
224	KT1622	W 102 CSHD		175.819	401.01635	401.02403	2	39 50 00	123 38 59
225		TBM 146		176.816	406.42538	406.43306	2	39 50 00	123 38 23*
226		TBM 147		177.379	409.00848	409.01616	2	39 49 59	123 38 02*
227		TBM 148		178.383	394.26144	394.26912	2	39 49 59	123 37 26*
228	KT1623	X 102		178.674	375.88386	375.89154	2	39 49 59	123 37 15
229		TBM 149		179.565	379.36328	379.37103	2	39 49 52	123 36 43*
230		TBM 150		180.579	412.58166	412.58949	2	39 49 43	123 36 06*
231	KT1477	Y 102		181.447	400.14636	400.15426	2	39 49 36	123 35 35
232		TBM 151		182.504	420.65231	420.66019	4	39 49 38	123 34 58*
233		TBM 152		183.463	430.97869	430.98655	2	39 49 40	123 34 24*
234	KT1620	Z 102 CSHD		183.685	427.24054	427.24840	2	39 49 40	123 34 16
235		TBM 153		184.673	437.49689	437.50501	2	39 49 16	123 33 51*
236		TBM 154		185.741	447.46970	447.47811	2	39 48 50	123 33 25*
237	KT1472	A 103		185.899	447.66318	447.67163	2	39 48 46	123 33 21
238		TBM 155		186.866	463.03248	463.04121	2	39 48 21	123 33 07*
239		TBM 156		187.683	477.46755	477.47653	2	39 48 00	123 32 55*
240		TBM 157		188.602	498.38252	498.39179	2	39 47 37	123 32 42*
241	KT1469	B 103 CSHD		189.114	528.40892	528.41836	2	39 47 24	123 32 35

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
242		TBM 158		189.882	523.86800	523.87774	2	39 47 01	123 32 35*
243		TBM 159		190.486	486.78002	486.78999	2	39 46 43	123 32 35*
244		TBM 160		191.631	461.15124	461.16162	2	39 46 09	123 32 35*
245	KT1466	C 103		191.741	456.28312	456.29354	2	39 46 06	123 32 35
246		TBM 161		192.818	447.03640	447.04712	2	39 45 39	123 32 20*
247	KT1462	D 103 CSHD		193.891	467.70091	467.71193	2	39 45 13	123 32 06
248		TBM 162		195.116	455.74098	455.75228	2	39 44 48	123 31 31*
249		TBM 163		196.182	459.44583	459.45738	2	39 44 27	123 31 00*
250	KT1459	E 103		196.791	459.89491	459.90660	3	39 44 15	123 30 43
251		TBM 164		197.773	466.40151	466.41347	2	39 43 52	123 30 23*
252		TBM 165		198.703	468.09781	468.11002	2	39 43 31	123 30 04*
253		TBM 166		199.736	476.82356	476.83606	2	39 43 07	123 29 42*
254	KT0902	F 103		200.666	503.25646	503.26923	4	39 42 45	123 29 23
255		TBM 167		201.025	510.21462	510.22752	3	39 42 34	123 29 19*
256	KT1719	G 103 CSHD		201.957	510.55043	510.56368	2	39 42 07	123 29 08
257		TBM 168		202.582	502.10474	502.11824	2	39 41 48	123 29 01*
258	KT1717	H 103		203.736	504.49492	504.50887	2	39 41 12	123 28 49
259		TBM 169		204.539	506.21591	506.23018	2	39 40 47	123 28 44*
260		TBM 170		205.315	509.22182	509.23640	2	39 40 23	123 28 39*
261		TBM 171		206.134	505.15500	505.16990	2	39 39 57	123 28 33*
262	KT0892	J 103 CSHD		206.664	507.56827	507.58338	2	39 39 41	123 28 30
263		TBM 172		207.451	510.13220	510.14761	2	39 39 18	123 28 24*
264		TBM 173		208.429	516.83865	516.85443	2	39 38 49	123 28 16*
265	KT0890	K 103		209.335	520.46063	520.47676	2	39 38 22	123 28 09
266		TBM 174		210.346	518.73495	518.75148	2	39 37 52	123 27 58*
267		TBM 175		210.953	514.49094	514.50771	2	39 37 33	123 27 52*
268		TBM 176		211.720	507.29898	507.31605	2	39 37 10	123 27 44*
269	KT0886	L 103 CSHD		211.926	497.38481	497.40196	2	39 37 04	123 27 42
270		TBM 177		212.598	460.57290	460.59024	2	39 36 48	123 27 33*
271		TBM 178		213.402	435.35290	435.37045	2	39 36 30	123 27 22*
272	KT0882	M 103		214.387	414.00854	414.02633	2	39 36 07	123 27 09
273		TBM 179		214.587	408.71095	408.72880	2	39 36 02	123 27 06*
274		TBM 180		215.257	400.22263	400.24066	2	39 35 44	123 26 56*
275		TBM 181		215.507	395.16327	395.18137	2	39 35 37	123 26 52*
276		TBM 182		217.413	390.76582	390.78443	2	39 34 46	123 26 24*

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
277		TBM 183		218.720	379.19755	379.21650	2	39 34 11	123 26 04*
278	KT0876	P 103		219.596	374.10344	374.12261	2	39 33 47	123 25 51
279		TBM 184		220.161	366.53113	366.55044	2	39 33 32	123 25 47*
280	KT0873	Q 103 CSHD		220.656	359.84876	359.86819	2	39 33 19	123 25 43
281	KT0870	S 103		221.651	356.72689	356.74633	2	39 33 18	123 25 11
283	KT0868	RV 2		222.586	358.52842	358.54814	2	39 32 47	123 25 20
284	KT0867	R 103		223.192	362.33741	362.35724	2	39 32 35	123 25 09
285	KT1661	RR 103 CSHD	)	223.341	358.98702	359.00694	2	39 32 25	123 24 57
284	KT0867	R 103	*	223.192	362.33741	362.35724	2	39 32 35	123 25 09
286	KT0865	RV 4		223.835	363.31190	363.33189	2	39 32 18	123 24 54
287		TBM 185		224.927	367.14962	367.16982	2	39 31 56	123 24 29*
288		TBM 186		225.198	367.68728	367.70753	2	39 31 50	123 24 23*
289	KT0861	Z 103		226.314	371.93240	371.95286	2	39 31 27	123 23 57
290	KT0859	RV 8		227.128	373.48473	373.50531	2	39 31 14	123 23 31
291	KT1662	A 104 CSHD	)	227.185	373.14277	373.16344	2	39 31 04	123 23 25
290	KT0859	RV 8	*	227.128	373.48473	373.50531	2	39 31 14	123 23 31
292	KT0857	RV 9		228.064	378.75306	378.77389	2	39 30 48	123 23 17
293	KT0856	RV 10		228.728	381.95760	381.97862	2	39 30 28	123 23 28
294	KT0855	RV 11		229.519	386.61659	386.63783	2	39 30 05	123 23 16
295	KT1089	B 104		230.353	390.42672	390.44817	2	39 29 43	123 23 02
296	KT1091	RV 13		230.920	393.41530	393.43693	3	39 29 25	123 22 55
297	KT1093	RV 15		232.043	400.39302	400.41499	2	39 28 51	123 22 58
298	KT1095	C 104		232.684	404.62497	404.64705	2	39 28 40	123 22 45
300	KT1098	RV 19		233.894	407.03188	407.05427	2	39 28 10	123 22 11
301	KT1100	RV 21		235.220	406.98702	407.00950	2	39 28 01	123 21 32
302	KT1102	D 104		235.995	408.02450	408.04706	2	39 27 53	123 21 02
303		TBM 187		237.042	407.75987	407.78275	2	39 27 22	123 20 56*
304	KT1708	E 104 CSHD	)	237.187	404.68634	404.70913	2	39 27 31	123 20 52
303		TBM 187	*	237.042	407.75987	407.78275	2	39 27 22	123 20 56*
305	KT1730	RV 24		237.822	404.29550	404.31862	2	39 26 59	123 20 51
306	KT1709	F 104		238.931	406.83656	406.86001	2	39 26 27	123 21 15
307		TBM 188		240.072	407.28600	407.30982	2	39 25 51	123 21 06*
308		TBM 189		240.910	408.97397	408.99806	2	39 25 25	123 20 59*
309		TBM 190		242.127	415.41251	415.43700	2	39 24 47	123 20 49*
310	KT1109	1 S USGS	)	242.370	413.22802	413.25251	2	39 24 47	123 20 44

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
309		TBM 190	*	242.127	415.41251	415.43700	2	39 24 47	123 20 49*
311	KT1111	2 S USGS	)	242.318	417.01869	417.04322	2	39 24 43	123 21 10
312	KT1112	G 104	)	242.481	419.83150	419.85602	2	39 24 44	123 21 10
313	KT1739	SPIKE	)	242.508	418.89607	418.92062	2	39 24 41	123 21 11
309		TBM 190	*	242.127	415.41251	415.43700	2	39 24 47	123 20 49*
314		TBM 191		242.935	416.97533	417.00009	2	39 24 21	123 20 42*
315	KT1113	RV 26		243.546	419.30292	419.32788	3	39 24 02	123 20 37
316	KT1114	RV 27		244.077	421.55173	421.57684	2	39 23 48	123 20 24
317	KT1115	H 104		244.692	424.35142	424.37673	2	39 23 29	123 20 14
318		TBM 192		245.417	430.63546	430.66099	2	39 23 08	123 20 01*
319	KT1116	RV 28		246.499	440.58458	440.61045	2	39 22 37	123 19 42
320	KT1117	RV 29		247.344	458.73555	458.76170	2	39 22 12	123 19 27
321	KT1121	J 104		248.316	472.97548	473.00181	2	39 21 57	123 19 01
322		TBM 193		249.336	485.13610	485.16247	3	39 21 53	123 19 17*
323		TBM 194		250.418	502.68273	502.70915	2	39 21 49	123 19 33*
324	KT1122	RV 32		250.807	507.83320	507.85964	2	39 21 48	123 19 39
325	KT1123	RV 33		251.191	517.35387	517.38043	2	39 21 39	123 19 26
326	KT1711	K 104		252.107	533.35681	533.38371	3	39 21 13	123 19 08
327		TBM 195		253.274	552.78778	552.81502	2	39 20 48	123 18 38*
328		TBM 196		253.804	560.27638	560.30378	2	39 20 37	123 18 25*
329	KT1126	RV 35		255.058	582.27797	582.30575	2	39 20 10	123 17 53
330	KT1127	L 104		255.361	576.62572	576.65367	2	39 19 58	123 17 54
331		TBM 197		255.581	570.55424	570.58229	2	39 19 51	123 17 53*
332	KT1128	RV 36	)	255.601	565.55030	565.57839	2	39 19 48	123 17 57
331		TBM 197	*	255.581	570.55424	570.58229	2	39 19 51	123 17 53*
333	KT1129	RV 37		256.487	545.52893	545.55740	2	39 19 21	123 17 47
334	KT1130	RV 38		257.135	526.32277	526.35148	2	39 19 03	123 17 34
335		TBM 198		257.577	513.49481	513.52367	2	39 18 52	123 17 35*
336		TBM 199		258.117	499.24843	499.27747	2	39 18 38	123 17 37*
337	KT1131	M 104		258.857	479.04817	479.07744	2	39 18 19	123 17 39
338		TBM 200		259.745	454.72410	454.75354	2	39 18 05	123 17 09*
339	KT1133	RV 40		260.417	433.12166	433.15122	2	39 17 54	123 16 46
340	KT1134	RV 41		261.524	401.96076	401.99051	2	39 17 36	123 16 06
341	KT1136	N 104		262.362	380.43744	380.46733	2	39 17 22	123 15 39
342	KT1137	RV 43		263.548	347.90241	347.93260	4	39 16 49	123 15 15

LEVELING  
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RUN DATE: 05 NOV 84 TIME: 10:28

PAGE 11  
HGZ L389  
4.0 MM 1ST-ORDER/CLASS II

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
343	KT1139	P 104		265.094	303.00037	303.03053	2	39 16 53	123 14 33
344	KT1141	RV 46		265.961	280.33655	280.36655	2	39 17 15	123 14 34
345	KT1142	RV 47		266.364	270.24015	270.27024	2	39 17 02	123 14 18
346	KT1144	Q 104		267.075	262.82975	262.85993	2	39 16 48	123 13 59
347		TBM 201		268.405	239.43010	239.46042	2	39 16 25	123 13 08*
348	KT1145	RV 49		268.602	233.25560	233.28594	2	39 16 22	123 13 01
349	KT1146	RV 50		269.099	224.61183	224.64224	2	39 16 09	123 12 41
350	KT1147	R 104		270.044	215.58504	215.61554	2	39 15 53	123 12 18
351	KT1148	RV 51		270.483	212.68098	212.71156	2	39 15 39	123 12 11
352	KT1149	RV 52		271.296	210.41188	210.44260	2	39 15 13	123 12 04
353	KT1150	RV 53		272.206	207.71250	207.74338	2	39 14 42	123 11 56
354	KT1152	T 104 CSHD		273.386	205.58324	205.61428	2	39 14 12	123 11 58
355	KT1154	S 104		273.666	204.77846	204.80956	2	39 14 00	123 12 01
356	KT1156	RV 57		274.965	199.19805	199.22937	2	39 13 17	123 12 08
357	KT1157	RV 58		276.286	194.91067	194.94218	2	39 12 39	123 12 04
358	KT1158	U 104	)	276.581	193.96656	193.99810	2	39 12 32	123 12 03
357	KT1157	RV 58	*	276.286	194.91067	194.94218	2	39 12 39	123 12 04
359		TBM 202		277.810	196.79393	196.82568	2	39 11 51	123 12 09*
360	KT1707	35 5 USGS		278.220	191.80548	191.83729	2	39 11 38	123 12 10
361	KT1159	V 104	)	278.264	192.73149	192.76330	2	39 11 38	123 12 09
360	KT1707	35 5 USGS	*	278.220	191.80548	191.83729	2	39 11 38	123 12 10
362	KT1160	RV 59		278.727	188.69468	188.72658	2	39 11 20	123 12 10
363	KT1161	RV 60		279.160	189.03477	189.06674	2	39 11 06	123 12 10
364	KT1162	RV 61		279.932	188.36696	188.39904	2	39 10 43	123 12 12
365	KT1163	RV 62		280.534	186.00137	186.03355	2	39 10 22	123 12 14
366	KT1164	RV 63		281.102	184.90555	184.93781	2	39 10 05	123 12 15
367	KT1165	W 104		282.003	185.90256	185.93496	2	39 09 35	123 12 14
368	KT1167	RV 65		283.005	185.86537	185.89792	2	39 09 03	123 12 08
369	KT1191	Y 104	)	283.402	194.53296	194.56553	2	39 08 59	123 12 25
370	KT1192	Z 104	)	283.454	193.40912	193.44168	2	39 09 01	123 12 27
368	KT1167	RV 65	*	283.005	185.86537	185.89792	2	39 09 03	123 12 08
371	KT1168	X 104		283.062	187.18951	187.22207	2	39 09 01	123 12 08
372	KT1194	RV 67		284.090	182.64941	182.68212	2	39 08 28	123 12 04
373	KT1196	A 105 CSHD		284.632	184.02451	184.05733	2	39 08 04	123 11 56
374	KT1197	B 105 MAG STA	)	285.743	198.40741	198.44017	2	39 08 16	123 12 39

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED	NORMAL	RUNS	LATITUDE			LONGITUDE		
					HT METERS	ORTHO HT METERS		DD	MM	SS	DDD	MM	SS
375	KT1198	BASE OF ZER TEL	))	285.786	199.31184	199.34460	2	39	08	16	123	12	39
374	KT1197	B 105 MAG STA	))*	285.743	198.40741	198.44017	2	39	08	16	123	12	39
376	KT1199	BASE SEISMOGRAPH	)	285.796	198.34841	198.38117	1	39	08	16	123	12	40
373	KT1196	A 105 CSHD	*	284.632	184.02451	184.05733	2	39	08	04	123	11	56
377	KT1201	RV 70		285.918	180.15208	180.18506	2	39	07	29	123	11	52
378	KT1203	RV 72		286.780	177.17525	177.20834	2	39	07	04	123	11	38
379	KT1205	RV 74		287.909	173.37801	173.41125	2	39	06	29	123	11	21
380	KT1207	C 105		288.958	172.99810	173.03148	2	39	05	57	123	11	06
381		TBM 203		290.084	170.98230	171.01580	3	39	05	28	123	10	44*
382	KT1210	RV 78		291.408	170.28788	170.32153	2	39	04	54	123	10	18
383	KT1729	D 105		292.144	169.34753	169.38122	2	39	04	44	123	09	53
384	KT1212	RV 80		293.160	175.25975	175.29360	2	39	04	08	123	09	27
385		TBM 204		294.443	182.25268	182.28667	2	39	03	37	123	09	09*
386		TBM 205		294.878	184.54960	184.58364	2	39	03	26	123	09	04*
387	KT1215	E 105		295.211	182.82998	182.86406	2	39	03	18	123	08	59
388		TBM 206		296.490	170.56288	170.59711	2	39	02	44	123	08	36*
389		TBM 207		297.777	165.43152	165.46589	2	39	02	10	123	08	12*
390	KT1222	F 105		298.345	161.82340	161.85783	2	39	01	55	123	08	02
391	KT1224	G 105		299.402	158.74747	158.78203	2	39	01	23	123	07	45
392		TBM 208		300.515	156.55144	156.58612	2	39	00	52	123	07	23*
393	KT1227	RV 92		301.602	154.38095	154.41575	2	39	00	21	123	07	02
394	JT1332	RV 94		302.722	150.91565	150.95059	2	38	59	45	123	07	02
395	JT1333	H 105		302.843	152.11531	152.15027	2	38	59	40	123	07	01
396		TBM 209		304.010	149.60273	149.63782	2	38	59	05	123	06	56*
397		TBM 210		305.024	150.07133	150.10653	2	38	58	35	123	06	53*
398	JT1335	J 105 CSHD		305.679	147.96019	147.99546	2	38	58	16	123	06	50
399	JT1336	H 252 USGS		305.723	147.73582	147.77110	2	38	58	13	123	06	50
400	JT1337	RV 95		306.201	149.06815	149.10351	2	38	57	52	123	06	40
401	JT1339	K 105 CSHD		307.066	148.12622	148.16167	2	38	57	27	123	06	31
402	JT1340	RV 97		308.131	146.66616	146.70169	2	38	57	04	123	06	02
403		TBM 211		308.445	149.66894	149.70448	2	38	57	01	123	05	51*
404	JT1342	L 105		309.399	146.27266	146.30824	2	38	56	50	123	05	18
405	JT1344	RV 100		310.247	143.34049	143.37614	3	38	56	31	123	04	56
406	JT1345	M 105		310.872	146.36773	146.40344	3	38	56	15	123	04	44
407		TBM 212		312.124	143.67990	143.71569	2	38	55	52	123	04	06*

HJD/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED	NORMAL	RUNS	LATITUDE			LONGITUDE		
					HT METERS	ORTHO HT METERS		DD	MM	SS	DDD	MM	SS
408	JT1346	MM 105 CSHD	)	312.365	144.28403	144.31972	2	38	56	19	123	04	23
407		TBM 212	*	312.124	143.67990	143.71569	2	38	55	52	123	04	06*
409	JT1348	RV 102		313.240	143.09610	143.13196	2	38	55	32	123	03	32
410	JT1349	RV 103		313.774	144.73952	144.77542	2	38	55	20	123	03	29
411	JT1350	N 105		313.923	144.87503	144.91096	3	38	55	12	123	03	35
412		TBM 213		315.053	146.00313	146.03923	2	38	54	26	123	03	31*
413		TBM 214		315.440	145.84213	145.87829	2	38	54	10	123	03	30*
414	JT1354	RV 105		315.988	141.73109	141.76733	2	38	53	48	123	03	28
415	JT1355	P 105		317.166	135.21144	135.24771	2	38	53	38	123	03	19
416		TBM 215		317.312	134.71631	134.75259	2	38	53	34	123	03	19*
417	JT1357	RV 108		318.724	127.42884	127.46525	2	38	52	54	123	03	17
418		TBM 216	)	318.741	126.23776	126.27417	2	38	52	54	123	03	17*
419	JT1356	Q 105 CSHD	)	319.032	124.44812	124.48452	2	38	52	59	123	03	14
417	JT1357	RV 108	*	318.724	127.42884	127.46525	2	38	52	54	123	03	17
420	JT1358	RV 109		319.787	129.37765	129.41410	2	38	52	41	123	02	51
421	JT1360	R 105		321.073	119.88792	119.92448	2	38	52	06	123	02	41
422	JT1571	RR 105 CSHD	)	321.329	118.48590	118.52248	2	38	52	00	123	02	35
421	JT1360	R 105	*	321.073	119.88792	119.92448	2	38	52	06	123	02	41
423		TBM 217		321.499	115.00927	115.04586	2	38	51	55	123	02	31*
424	JT1361	RV 111	)	321.524	110.69584	110.73245	2	38	51	49	123	02	34
423		TBM 217	*	321.499	115.00927	115.04586	2	38	51	55	123	02	31*
425		TBM 218		321.630	113.57265	113.60925	2	38	51	52	123	02	28*
426		TBM 219		322.750	112.90582	112.94250	2	38	51	23	123	02	03*
427	JT1364	S 105		324.391	113.19818	113.23498	2	38	50	41	123	01	25
428	JT1365	RV 114		324.732	113.36322	113.40004	2	38	50	33	123	01	20
429		TBM 220		325.276	108.16611	108.20297	2	38	50	19	123	01	08*
430	JT1366	T 105 CSHD		326.384	100.93885	100.97579	2	38	49	50	123	00	44
431	JT1367	RV 115		327.300	95.88799	95.92501	2	38	49	19	123	00	52
432	JT1369	RV 117		328.642	98.14365	98.18076	2	38	48	43	123	00	38
433	JT1372	U 105		329.250	97.71832	97.75550	2	38	48	13	123	00	42
434	JT1373	V 105 CSHD		329.525	96.01304	96.05022	2	38	48	13	123	00	43
435		TBM 221		330.830	94.88343	94.92069	2	38	47	39	123	00	21*
436		TBM 222		332.031	89.29276	89.33009	2	38	47	07	123	00	00*
437	JT1049	RV 124		333.162	85.87641	85.91381	2	38	46	37	122	59	41
438	JT1050	W 105		333.290	87.36927	87.40668	2	38	46	31	122	59	39

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
439		TBM 223		333.650	86.95704	86.99447	2	38 46 24	122 59 30*
440	JT1052	RV 126		334.621	80.94135	80.97882	2	38 46 05	122 59 05
441		TBM 224		335.904	80.37913	80.41663	4	38 45 49	122 58 21*
442	JT1055	X 105		336.393	80.99449	81.03200	2	38 45 43	122 58 04
443	JT1057	RV 130		337.549	76.88974	76.92731	2	38 45 12	122 57 25
444	JT1059	RV 132		339.019	74.78946	74.82710	2	38 44 36	122 56 44
445		TBM 225		339.219	74.20769	74.24534	2	38 44 31	122 56 40*
446	JT1060	Y 105 CSHD	)	339.392	76.20581	76.24346	2	38 44 30	122 56 46
445		TBM 225	*	339.219	74.20769	74.24534	2	38 44 31	122 56 40*
447	JT1062	RV 134		340.199	71.07195	71.10965	2	38 44 05	122 56 21
448	JT1063	Z 105		341.963	67.98419	68.02196	2	38 43 24	122 55 29
449	JT1065	RV 136		342.918	65.73366	65.77146	2	38 43 06	122 55 01
450	JT1067	RV 138		344.290	62.90376	62.94161	2	38 42 35	122 54 15
451	JT1068	A 106 CSHD	)	344.629	62.44762	62.48548	2	38 42 28	122 54 06
450	JT1067	RV 138	*	344.290	62.90376	62.94161	2	38 42 35	122 54 15
452	JT1069	B 106		344.853	63.27053	63.30840	2	38 42 23	122 54 00
453		TBM 226		345.965	60.09470	60.13261	2	38 41 59	122 53 26*
454	JT1072	RV 141		346.775	64.35064	64.38858	2	38 41 41	122 53 02
455	JT1074	RV 143		347.817	65.33686	65.37485	2	38 41 13	122 52 44
456	JT1075	C 106		348.038	65.50219	65.54020	2	38 41 03	122 52 40
457	JT1077	RV 145		349.477	55.54143	55.57950	2	38 40 22	122 52 29
458	JT1079	D 106 CSHD		350.993	56.15410	56.19224	2	38 39 29	122 52 15
459		TBM 227		351.965	60.53306	60.57124	2	38 39 02	122 52 16*
460	JT1082	RV 149		352.916	53.23613	53.27435	2	38 38 36	122 52 16
461	JT1084	E 106		353.747	46.52866	46.56692	2	38 38 06	122 52 25
462		TBM 228		355.189	34.71420	34.75251	2	38 37 19	122 52 21*
463	JT1087	RV 153		356.344	29.80726	29.84560	2	38 36 42	122 52 18
464	JT1089	F 106		357.194	30.82586	30.86421	2	38 36 26	122 51 52
465	JT1520	G 106	)	357.549	34.78308	34.82142	2	38 36 35	122 51 58
466	JT1090	H 106	)	357.831	31.86030	31.89864	2	38 36 38	122 52 04
464	JT1089	F 106	*	357.194	30.82586	30.86421	2	38 36 26	122 51 52
467	JT1093	J 106		357.798	30.70581	30.74417	2	38 36 17	122 51 30
468	JT1519	K 106 CSHD		358.156	29.29061	29.32897	2	38 36 13	122 51 17
469	JT1094	RV 155		359.960	32.18854	32.22694	2	38 35 22	122 50 47
470	JT1096	L 106		360.553	32.80653	32.84495	2	38 35 03	122 50 39

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RUN DATE: 05 NOV 84 TIME: 10:28

PAGE 15  
HGZ L389  
4.0 MM 1ST-ORDER/CLASS II

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
471	JT1098	RV 158		361.430	31.86080	31.89924	2	38 34 38	122 50 28
472	JT1099	M 106 CSHD		361.795	31.27149	31.30994	2	38 34 25	122 50 22
473		TBM 229		363.064	39.31793	39.35641	2	38 33 55	122 49 54*
474	JT1102	RV 161		364.128	36.80556	36.84406	2	38 33 29	122 49 30
475	JT1104	N 106		365.367	35.50657	35.54510	3	38 32 51	122 48 57
476	JT1106	RV 164		366.353	30.30758	30.34613	2	38 32 29	122 48 37
477	JT1108	RV 166		367.551	30.44330	30.48188	2	38 31 55	122 48 07
478	JT1109	P 106		368.273	31.59644	31.63504	2	38 31 33	122 47 49
479	JT1112	RV 168		369.639	34.36371	34.40234	2	38 30 57	122 47 17
480	JT1120	RV 170		371.187	38.08741	38.12607	2	38 30 23	122 46 47
481	JT0712	RV 171		371.997	38.96740	39.00609	2	38 29 53	122 46 23
482	JT0713	Q 106		372.159	39.85422	39.89291	2	38 29 49	122 46 19
483	JT0714	R 106		372.296	41.42035	41.45904	2	38 29 45	122 46 13
484		TBM 230		373.535	42.84697	42.88569	2	38 29 13	122 45 47*
485	JT0715	RV 172		374.829	41.17863	41.21738	2	38 28 40	122 45 19
486	JT0716	S 106		375.263	40.96726	41.00602	2	38 28 27	122 45 07
487	JT0718	RV 174		376.915	37.63075	37.66955	2	38 27 44	122 44 30
488	JT0719	T 106		378.235	41.05754	41.09638	2	38 27 08	122 43 57
489	JT0720	RV 175		379.110	43.81211	43.85098	2	38 26 44	122 43 38
490	JT0721	U 106 ✓		380.226	47.68654	47.72544	2	38 26 15	122 43 12
491	JT0722	V 106	)	380.680	48.88440	48.92329	2	38 26 23	122 42 59
492	JT0724	W 106	)	381.111	50.52382	50.56271	2	38 26 25	122 42 39
493		TBM 231	)	381.453	49.50296	49.54186	2	38 26 16	122 42 40*
494	JT0726	X 106 ✓	)	381.487	49.54064	49.57954	2	38 26 15	122 42 40
490	JT0721	U 106	*)	380.226	47.68654	47.72544	2	38 26 15	122 43 12
495	JT0727	RV 176		381.177	42.80293	42.84187	2	38 25 43	122 43 12
496	JT0728	Y 106		382.791	39.75399	39.79298	2	38 24 52	122 43 12
497		TBM 232		383.612	35.72417	35.76319	2	38 24 25	122 43 12*
498	JT0731	RV 179		384.721	32.93537	32.97442	2	38 23 49	122 43 12
499	JT0733	Z 106		385.826	30.50709	30.54617	2	38 23 13	122 43 10
500	JT0735	RV 182		387.160	28.37673	28.41584	2	38 22 33	122 43 05
501	JT0736	A 107 CSHD		388.243	28.46423	28.50336	2	38 22 00	122 42 45
502	JT0737	RV 183		389.350	30.66141	30.70056	2	38 21 27	122 42 23
503	JT0738	RV 184		390.267	31.27657	31.31574	2	38 21 02	122 42 07
504	JT0739	RV 185		390.883	31.82505	31.86423	3	38 20 45	122 41 57

HJD/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
505	JT0740	B 107		391.355	31.92944	31.96863	2	38 20 30	122 41 46
506	JT0743	C 107		392.545	34.41421	34.45343	2	38 19 55	122 41 27
507		TBM 233		393.354	35.92101	35.96025	2	38 19 31	122 41 12*
508	JT0746	D 107		394.719	35.50053	35.53981	2	38 18 50	122 40 47
509		TBM 234		395.975	25.35445	25.39375	2	38 18 17	122 40 21*
510	JT0749	E 107		397.192	19.25511	19.29443	2	38 17 45	122 39 55
511	JT0748	F 107	)	397.319	20.33831	20.37763	2	38 17 51	122 40 07
510	JT0749	E 107	*)	397.192	19.25511	19.29443	2	38 17 45	122 39 55
512		TBM 235		398.017	16.08499	16.12432	2	38 17 25	122 39 51*
513	JT0750	RV 190		398.797	13.92268	13.96202	2	38 17 06	122 39 48
514	JT0752	39 USGS		399.344	12.02895	12.06830	2	38 16 44	122 39 51
515	JT0754	RV 193		400.345	9.87392	9.91328	2	38 16 16	122 39 30
516	JT0757	G 107		401.542	9.00021	9.03958	2	38 15 47	122 38 59
517	JT0760	RV 196		402.247	8.18705	8.22642	2	38 15 31	122 38 43
518		TBM 236		403.497	5.98381	6.02319	2	38 14 55	122 38 23*
519	JT0761	H 107		404.854	3.73212	3.77150	2	38 14 15	122 38 02
520	JT0762	RV 197		405.004	3.16249	3.20187	2	38 14 14	122 37 59
521	JT0764	USE	)	405.234	2.74862	2.78800	2	38 14 07	122 38 02
806	JT0765	HH 107	)	405.258	2.65662	2.69600	2	38 14 07	122 38 04
805	JT0763	FIRE HYDRANT	)	405.341	2.73842	2.77780	2	38 14 10	122 38 02
520	JT0762	MONEL RV	)	405.490	3.17042	3.20980	2	38 14 14	122 37 59
521	JT0764	USE	))*	405.234	2.74862	2.78800	2	38 14 07	122 38 02
522	JT0766	J 107	))	405.586	3.32963	3.36901	2	38 13 55	122 38 09
804	JT0767	JJ 107	)))	405.649	3.43644	3.47582	2	38 13 54	122 38 11
522	JT0766	J 107	)))*)	405.586	3.32963	3.36901	2	38 13 55	122 38 09
523	JT0768	17 USGS	))	405.959	5.76926	5.80864	2	38 13 59	122 38 24
520	JT0762	RV 197	*)	405.004	3.16249	3.20187	2	38 14 14	122 37 59
524	JT0769	RV 198		406.681	2.69408	2.73346	2	38 13 48	122 36 50
525	JT0770	RV 199		407.311	2.93414	2.97352	2	38 13 37	122 36 42
526		TBM 237		407.791	1.42753	1.46691	2	38 13 26	122 36 28*
527	JT0771	K 107 CSHD	)	407.911	3.98853	4.02791	2	38 13 21	122 36 33
526		TBM 237	*)	407.791	1.42753	1.46691	2	38 13 26	122 36 28*
528		TBM 238		409.226	1.79000	1.82938	2	38 12 55	122 35 45*
529	JT0772	5 USGS		410.209	1.91772	1.95710	2	38 12 33	122 35 16
530	JT0773	L 107		410.539	2.49054	2.52992	2	38 12 27	122 35 06

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
531		TBM 239		411.661	1.32805	1.36743	2	38 11 53	122 34 53*
532		TBM 240		412.755	1.15793	1.19731	2	38 11 20	122 34 41*
533	JT0774	M 107		414.019	2.63615	2.67553	2	38 10 42	122 34 26
534		TBM 241		414.339	1.25744	1.29682	2	38 10 32	122 34 22*
535		TBM 242		415.714	2.23599	2.27537	4	38 09 51	122 34 03*
536	JT0776	7 USGS		416.698	2.42753	2.46691	2	38 09 21	122 33 50
537	JT0779	RV 201		417.431	0.77391	0.81329	2	38 08 54	122 33 48
538	JT0780	N 107 CSHD		418.053	2.71389	2.75327	2	38 08 33	122 33 46
539	JT0785	RV 203		419.328	0.93781	0.97719	2	38 07 56	122 33 44
540	JT0786	RV 204		420.261	1.01987	1.05925	4	38 07 18	122 33 53
541	JT0787	P 107 CSHD		420.995	1.70390	1.74328	2	38 06 57	122 33 56
542	JT0789	Q 107		422.264	4.47809	4.51747	2	38 06 18	122 33 45
543	JT0790	R 107	)	422.475	5.04469	5.08407	2	38 06 26	122 33 58
542	JT0789	Q 107	*	422.264	4.47809	4.51747	2	38 06 18	122 33 45
544	JT0792	16 USGS		422.437	6.13179	6.17117	2	38 06 14	122 33 43
545		TBM 243		423.631	1.16597	1.20535	2	38 05 41	122 33 17*
546		TBM 244		424.933	0.63558	0.67496	2	38 05 05	122 32 48*
547	JT0796	B 32 USGS		425.819	1.52507	1.56445	2	38 04 41	122 32 29
548	JT0797	S 107	)	425.898	1.37902	1.41840	2	38 04 40	122 32 30
547	JT0796	B 32 USGS	*	425.819	1.52507	1.56445	2	38 04 41	122 32 29
549	JT0800	T 107 CSHD		426.320	1.39120	1.43058	2	38 04 31	122 32 25
550	JT1513	B 39 USGS		427.092	5.38331	5.42269	2	38 04 02	122 32 08
551	JT0804	RV 207		427.903	4.92597	4.96535	2	38 03 49	122 31 55
552	JT1511	U 107		428.326	5.50527	5.54465	3	38 03 36	122 31 34
553	JT1512	RV 209		429.364	6.54974	6.58912	2	38 03 07	122 31 12
554		TBM 245		430.638	0.58133	0.62071	2	38 02 31	122 31 07*
555	JT0816	RV 210		430.884	1.91730	1.95668	2	38 02 24	122 31 06
556	JT1514	B 33 USGS		431.695	2.35724	2.39662	3	38 02 01	122 31 12
557		TBM 246		433.236	3.64971	3.68909	2	38 01 11	122 31 29*
558	JT0818	V 107		433.446	2.96405	3.00343	2	38 01 04	122 31 31
559		TBM 247		434.642	1.78951	1.82889	2	38 00 31	122 31 54*
560	JT0825	W 107		435.608	3.27373	3.31311	2	38 00 04	122 32 13
561		TBM 248		436.588	14.38385	14.42323	2	37 59 44	122 31 58*
562		TBM 249		437.285	24.78025	24.81964	2	37 59 30	122 31 48*
563	HT1913	X 107 CSHD	)	437.438	30.31280	30.35219	2	37 59 32	122 31 59

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
562		TBM 249	*	437.285	24.78025	24.81964	2	37 59 30	122 31 48*
564	HT1744	B 34 USGS		437.465	28.30027	28.33966	2	37 59 26	122 31 45
565		TBM 250		437.937	32.62955	32.66895	2	37 59 13	122 31 37*
566	HT1750	RV 219		439.369	7.47725	7.51667	2	37 58 33	122 31 14
567	HT1914	B 35 USGS		439.809	2.27769	2.31711	2	37 58 21	122 31 17
568	HT1751	Y 107	)	439.845	3.17081	3.21023	2	37 58 19	122 31 16
567	HT1914	B 35 USGS	*	439.809	2.27769	2.31711	2	37 58 21	122 31 17
569	HT1760	CITY 1		439.986	3.29425	3.33367	2	37 58 22	122 31 21
570	HT1761	CITY 2		440.113	3.60582	3.64524	2	37 58 21	122 31 25
571	HT1762	CITY 3		440.215	3.89917	3.93859	2	37 58 22	122 31 30
572	HT1763	CITY 4		440.313	5.53842	5.57784	2	37 58 22	122 31 34
573	HT1764	Z 107	)	440.365	7.86572	7.90514	2	37 58 24	122 31 35
572	HT1763	CITY 4	*	440.313	5.53842	5.57784	2	37 58 22	122 31 34
574	HT1921	CITY 5		440.388	6.22313	6.26255	2	37 58 25	122 31 39
575	HT1766	A 108	)	440.462	9.17929	9.21871	2	37 58 28	122 31 38
574	HT1921	CITY 5	*	440.388	6.22313	6.26255	2	37 58 25	122 31 39
576		TBM 251		441.635	10.98304	11.02246	2	37 58 27	122 32 23*
577		TBM 252		442.561	28.83160	28.87102	3	37 58 28	122 32 55*
578		TBM 253		443.105	24.92931	24.96873	2	37 58 29	122 33 14*
579	HT1771	B 108		443.792	14.89674	14.93616	3	37 58 30	122 33 38
580		TBM 254		443.916	13.79613	13.83555	2	37 58 26	122 33 36*
581	HT1772	C 108	)	443.935	14.73456	14.77398	2	37 58 28	122 33 40
580		TBM 254	*	443.916	13.79613	13.83555	2	37 58 26	122 33 36*
582	HT1773	D 108	)	444.012	13.45021	13.48963	2	37 58 29	122 33 41
580		TBM 254	*	443.916	13.79613	13.83555	2	37 58 26	122 33 36*
583		TBM 255		444.806	10.04216	10.08159	2	37 58 00	122 33 26*
584	HT1774	E 108		445.425	6.76861	6.80804	2	37 57 41	122 33 18
585		TBM 256		446.276	3.57943	3.61886	2	37 57 17	122 33 04*
586	HT1920	F 108		446.647	2.86638	2.90581	2	37 57 07	122 32 58
587		TBM 257		447.972	1.80311	1.84254	2	37 56 34	122 32 22*
588		TBM 258		448.663	2.87095	2.91038	2	37 56 17	122 32 04*
589	HT1778	G 108		448.847	4.22509	4.26452	2	37 56 12	122 31 59
590	HT1779	H 108	)	449.189	12.77668	12.81611	2	37 56 03	122 32 03
589	HT1778	G 108	*	448.847	4.22509	4.26452	2	37 56 12	122 31 59
591		TBM 259		449.701	12.69158	12.73102	2	37 55 46	122 31 52*

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
592		TBM 260		450.212	16.15669	16.19614	2	37 55 30	122 31 48*
593	HT1780	J 108	)	450.365	7.72894	7.76839	2	37 55 32	122 31 35
592		TBM 260	*	450.212	16.15669	16.19614	2	37 55 30	122 31 48*
594		TBM 261		450.887	23.30997	23.34943	3	37 55 09	122 31 43*
595		TBM 262		451.609	19.29611	19.33558	2	37 54 47	122 31 37*
596	HT1785	K 108		452.641	7.86266	7.90214	2	37 54 15	122 31 29
597		TBM 263		453.124	1.76489	1.80437	2	37 54 00	122 31 24*
598		TBM 264		454.530	1.65884	1.69832	2	37 53 15	122 31 09*
599	HT1791	RV 226		455.117	1.37783	1.41731	2	37 52 57	122 31 03
600	HT1919	RV 228		456.202	1.48806	1.52754	2	37 52 35	122 30 35
601	HT1795	B 38 USGS		456.233	1.51640	1.55588	2	37 52 36	122 30 36
602	HT1794	P 108 CSHD	)	456.741	3.05264	3.09212	2	37 52 42	122 30 54
601	HT1795	B 38 USGS	*	456.233	1.51640	1.55588	2	37 52 36	122 30 36
603	HT1065	L 108		457.162	2.90713	2.94661	2	37 52 16	122 30 07
604		TBM 265		458.280	2.11079	2.15027	2	37 51 54	122 29 31*
605	HT1069	TIDAL 1		459.237	1.80327	1.84275	2	37 51 36	122 29 00
606	HT1070	TIDAL 2	)	459.336	3.80504	3.84452	2	37 51 33	122 29 03
607	HT2093	TIDAL 3	)	459.364	4.21049	4.24997	2	37 51 32	122 29 02
605	HT1069	TIDAL 1	*	459.237	1.80327	1.84275	2	37 51 36	122 29 00
608	HT1071	M 108		459.904	2.45465	2.49413	2	37 51 23	122 28 40
609		TBM 266		460.375	1.88963	1.92911	2	37 51 11	122 28 39*
610		TBM 267		460.858	6.79326	6.83274	2	37 50 59	122 28 38*
611		TBM 268		461.197	24.68785	24.72733	2	37 50 51	122 28 37*
612	HT2096	TIDAL 28		461.484	31.28615	31.32563	2	37 50 44	122 28 36
613	HT2095	TIDAL 27		461.558	32.27683	32.31631	2	37 50 40	122 28 35
614	HT2094	TIDAL 26		461.572	31.23851	31.27799	2	37 50 39	122 28 35
615	HT2103	TIDAL 24	)	461.742	13.12918	13.16866	2	37 50 39	122 28 34
616	HT2102	TIDAL 23	)	461.861	1.88279	1.92227	2	37 50 39	122 28 34
614	HT2094	TIDAL 26	*	461.572	31.23851	31.27799	2	37 50 39	122 28 35
617	HT1075	TIDAL 25		461.724	29.65715	29.69664	2	37 50 29	122 28 34
618	HT1080	N 108		462.440	31.74197	31.78147	2	37 50 15	122 28 19
619	HT1082	CHISELED		462.959	4.33565	4.37516	2	37 50 02	122 28 38
620	HT1083	CHISELED X		463.168	2.52864	2.56815	2	37 50 00	122 28 38
621	HT1085	CHISELED		463.468	2.65410	2.69361	2	37 49 52	122 28 33
622	HT2097	TIDAL 22		463.674	3.62969	3.66920	2	37 49 47	122 28 40

HJD/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
623	HT2098	TIDAL 21		463.700	2.03641	2.07592	2	37 49 47	122 28 39
624	HT1086	CHISELED X		464.196	5.03349	5.07300	2	37 49 32	122 28 37
625	HT1088	BRASS PLUG		464.381	10.73897	10.77848	2	37 49 32	122 28 37
626	HT1089	Q 108		464.480	10.49113	10.53064	2	37 49 32	122 28 38
627	HT0695	R 108		466.240	11.10273	11.14226	1	37 48 33	122 28 29
628	HT0694	BOLT IN ROCK	)	466.255	8.19320	8.23273	2	37 48 33	122 28 29
627	HT0695	R 108	*	466.240	11.10273	11.14226	1	37 48 33	122 28 29
629	HT0691	S 108		466.344	11.16562	11.20515	2	37 48 34	122 28 31
630	HT0692	COPPER PLUG	)	466.396	3.55791	3.59744	2	37 48 36	122 28 32
631	HT0696	175		466.765	3.17226	3.21179	2	37 48 32	122 28 13
632	HT0697	174		466.850	3.87776	3.91729	2	37 48 30	122 28 11
633	HT2049	CHISELED	)	467.162	24.80728	24.84681	2	37 48 34	122 28 34
634	HT0689	T 108	)	467.799	55.99987	56.03941	2	37 48 24	122 28 32
635	HT0688	MENDELL 202.26	)	467.893	60.41257	60.45211	2	37 48 22	122 28 33
632	HT0697	174	*	466.850	3.87776	3.91729	2	37 48 30	122 28 11
636	HT0704	173		467.379	1.83658	1.87611	2	37 48 19	122 28 02
637		TBM TIDE STAFF	)	467.593	1.67573	1.71526	2	37 48 19	122 28 02*
636	HT0704	173	*	467.379	1.83658	1.87611	2	37 48 19	122 28 02
638	HT0705	176	)	467.656	3.64674	3.68627	2	37 48 13	122 27 58
636	HT0704	173	*	467.379	1.83658	1.87611	2	37 48 19	122 28 02
639	HT2029	W REF		467.904	1.77317	1.81270	2	37 48 17	122 27 38
640	HT2043	1897		468.572	2.52232	2.56185	2	37 48 19	122 27 11
641	HT2044	BRASS BOLT	)	468.611	2.21514	2.25467	2	37 48 14	122 27 11
640	HT2043	1897	*	468.572	2.52232	2.56185	2	37 48 19	122 27 11
642	HT2044	178	)	468.776	1.95798	1.99751	2	37 48 14	122 27 11
640	HT2043	1897	*	468.572	2.52232	2.56185	2	37 48 19	122 27 11
643	HT2144	RM		469.029	1.86233	1.90186	2	37 48 24	122 26 49
644		TBM 269		470.008	2.24832	2.28785	2	37 48 20	122 26 14*
645		TBM 270		470.636	5.78712	5.82665	2	37 48 18	122 25 52*
646		TBM 271		471.097	26.93043	26.96996	2	37 48 16	122 25 35*
647	HT2048	LEAD BOLT	)	471.263	30.70541	30.74493	2	37 48 25	122 25 38
648	HT0717	U 108	)	471.377	32.74492	32.78444	2	37 48 25	122 25 36
646		TBM 271	*	471.097	26.93043	26.96996	2	37 48 16	122 25 35*
649	HT2025	SER 249		471.321	25.11503	25.15456	2	37 48 15	122 25 27
650		TBM 272		471.930	20.30844	20.34797	2	37 48 14	122 25 04*

*Handwritten notes:*  
 Tidal 6?  
 Tidal 6?  
 Tidal 6?  
 Tidal 166?  
 HT 0710  
 10348095  
 BM 178

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
651		TBM 273		472.175	7.34676	7.38629	2	37 48 13	122 24 54*
652	HTO731	V 108		472.319	8.78174	8.82127	2	37 48 13	122 24 49
653		TBM 274		472.681	18.33268	18.37221	2	37 48 07	122 24 37*
654	HTO732	ASTRO STATION		472.890	25.75963	25.79916	2	37 48 03	122 24 30
655		TBM 275		473.343	19.94373	19.98327	2	37 47 52	122 24 19*
656	HTO735	W 108		473.695	9.63639	9.67593	2	37 47 43	122 24 11
657		TBM 276		473.837	11.62683	11.66637	2	37 47 40	122 24 10*
658	HTO737	XX 108	)	473.894	16.17252	16.21206	2	37 47 40	122 24 16
657		TBM 276	*)	473.837	11.62683	11.66637	2	37 47 40	122 24 10*
659	HTO746	Z 108		474.201	5.46793	5.50747	2	37 47 33	122 24 06
660		TBM 277		474.414	8.38847	8.42801	2	37 47 28	122 24 03*
661	HTO744	A 109	)	474.495	8.04319	8.08273	2	37 47 27	122 24 02
660		TBM 277	*)	474.414	8.38847	8.42801	2	37 47 28	122 24 03*
662	HTO745	MARBLE PILLAR	)	474.515	12.78702	12.82656	2	37 47 27	122 24 08
660		TBM 277	*)	474.414	8.38847	8.42801	2	37 47 28	122 24 03*
663	HTO760	B 109		474.881	6.88966	6.92920	3	37 47 16	122 23 56
664		TBM 278	)	475.063	6.65436	6.69390	2	37 47 17	122 23 51*
665	HTO783	E 109	))	475.286	16.67810	16.71764	2	37 47 07	122 23 45
664		TBM 278	))*	475.063	6.65436	6.69390	2	37 47 17	122 23 51*
666	HTO743	C 109	)	475.378	5.97568	6.01522	2	37 47 19	122 23 42
667		TBM 279	)	475.615	12.02482	12.06436	2	37 47 18	122 23 35*
668	HTO758	DD 109	)	476.133	8.47498	8.51452	3	37 47 17	122 23 21
667		TBM 279	))*	475.615	12.02482	12.06436	2	37 47 18	122 23 35*
669		TBM 280	))	475.804	27.35543	27.39497	2	37 47 11	122 23 30*
670	HT2033	IRON BOLT	))	475.873	34.63612	34.67566	2	37 47 08	122 23 28
671	HTO755	D 109	))	475.887	34.47498	34.51452	2	37 47 07	122 23 28
663	HTO760	B 109	*)	474.881	6.88966	6.92920	3	37 47 16	122 23 56
672	HTO763	F 109		475.736	8.66005	8.69959	2	37 46 59	122 24 22
673		TBM 283	)	476.254	18.84762	18.88716	2	37 47 13	122 24 28*
674	HTO747	Y 108	)	476.339	22.78403	22.82357	2	37 47 15	122 24 29
672	HTO763	F 109	*)	475.736	8.66005	8.69959	2	37 46 59	122 24 22
675		TBM 281		476.426	11.53125	11.57079	2	37 46 43	122 24 27*
676		TBM 282		476.900	12.43259	12.47213	2	37 46 33	122 24 30*
677	HTO751	X 108	)	477.560	18.90882	18.94835	2	37 46 49	122 25 02
676		TBM 282	*)	476.900	12.43259	12.47213	2	37 46 33	122 24 30*

HJD/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
678	HT0752	G 109		477.896	6.13772	6.17727	2	37 46 10	122 24 37
679	HT2021	H 109		479.283	12.95586	12.99542	2	37 45 25	122 24 41
680		TBM 284		480.183	21.88820	21.92777	3	37 45 03	122 24 57*
681	HT2012	J 109		481.489	45.46347	45.50307	2	37 44 31	122 25 19
682		TBM 285		482.598	58.49072	58.53035	2	37 44 09	122 25 48*
683	HT2013	K 109		483.732	57.12927	57.16893	2	37 43 46	122 26 18
684	HT0513	L 109		485.052	75.79938	75.83910	2	37 43 10	122 26 47
685	HT0515	M 109		486.301	90.30643	90.34621	2	37 42 41	122 27 17
686		TBM 286		487.441	79.03960	79.07940	2	37 42 31	122 27 55*
687	HT0518	N 109		487.651	75.81790	75.85770	2	37 42 29	122 28 02
688		TBM 287		488.582	66.61532	66.65517	2	37 42 00	122 27 56*
689		TBM 288		489.759	54.43361	54.47352	2	37 41 23	122 27 48*
690		TBM 289		490.202	50.10367	50.14360	2	37 41 09	122 27 45*
691	HT0523	P 109		490.624	45.69465	45.73460	2	37 40 56	122 27 42
692		TBM 290		491.783	33.88854	33.92852	2	37 40 28	122 27 13*
693	HT0524	W 6		492.632	26.46402	26.50402	2	37 40 07	122 26 52
694		TBM 291		493.759	15.85425	15.89426	3	37 39 38	122 26 26*
695		TBM 292		494.846	10.03070	10.07072	2	37 39 11	122 26 00*
696		TBM 293		495.917	7.57499	7.61502	2	37 38 43	122 25 35*
697		TBM 294		497.012	9.73399	9.77403	2	37 38 16	122 25 09*
698	HT0527	Q 109	)	497.047	8.79781	8.83785	2	37 38 18	122 24 54
697		TBM 294	*	497.012	9.73399	9.77403	2	37 38 16	122 25 09*
699	HT0529	B 5 USGS	)	497.154	10.13422	10.17426	2	37 38 27	122 25 00
697		TBM 294	*	497.012	9.73399	9.77403	2	37 38 16	122 25 09*
700		TBM 295		497.190	9.75998	9.80002	2	37 38 11	122 25 05*
701		TBM 296		498.089	6.02135	6.06139	2	37 37 48	122 24 44*
702	HT0530	R 109	)	498.167	6.64582	6.68586	2	37 37 51	122 24 38
701		TBM 296	*	498.089	6.02135	6.06139	2	37 37 48	122 24 44*
703		TBM 297		499.321	3.60539	3.64543	2	37 37 17	122 24 15*
704		TBM 298		500.403	3.14692	3.18696	2	37 36 49	122 23 50*
705		TBM 299		501.524	6.45031	6.49035	2	37 36 21	122 23 23*
706		TBM 300		501.684	5.20731	5.24735	2	37 36 17	122 23 20*
707	HT2004	Y 6		502.266	5.22846	5.26850	2	37 36 02	122 23 06
708	HT0552	S 109	)	502.996	2.19875	2.23879	2	37 35 43	122 22 46
707	HT2004	Y 6	*	502.266	5.22846	5.26850	2	37 36 02	122 23 06

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
709		TBM 301		503.567	2.81950	2.85954	2	37 35 40	122 22 21*
710		TBM 302		504.869	3.40525	3.44529	2	37 35 17	122 21 36*
711	HTO553	T 109	)	505.147	2.93835	2.97839	2	37 35 20	122 21 51
710		TBM 302	*	504.869	3.40525	3.44529	2	37 35 17	122 21 36*
712	HTO555	U 109		505.748	3.07512	3.11516	2	37 35 02	122 21 06
713	HT1990	Z 6/V 109		506.578	8.91321	8.95325	2	37 34 48	122 20 38
714	HTO558	W 109		507.234	8.61445	8.65449	2	37 34 39	122 20 14
715	HTO567	X 109		508.443	6.96693	7.00697	2	37 34 17	122 19 35
713	HT1990	Z 6/V 109	*	506.578	8.91321	8.95325	2	37 34 48	122 20 38
716	HTO556	VV 109	)	506.684	8.18941	8.22945	2	37 34 51	122 20 37
715	HTO567	X 109	*	508.443	6.96693	7.00697	2	37 34 17	122 19 35
717		TBM 308	)	509.022	8.13116	8.17120	2	37 34 18	122 19 53*
718	HTO566	XX 109	)	509.787	13.89026	13.93030	2	37 34 19	122 20 17
715	HTO567	X 109	*	508.443	6.96693	7.00697	2	37 34 17	122 19 35
719		TBM 303		508.641	6.85693	6.89697	2	37 34 12	122 19 30*
720	HTO568	A 7/Y 109	)	508.799	7.46629	7.50633	2	37 34 10	122 19 33
719		TBM 303	*	508.641	6.85693	6.89697	2	37 34 12	122 19 30*
721	HTO569	Z 109		509.140	8.23082	8.27086	2	37 34 00	122 19 16
722	HTO449	A 110		510.293	3.55495	3.59499	5	37 33 32	122 18 46
723	HTO451	AA 110	)	511.303	10.44644	10.48648	2	37 33 40	122 19 16
722	HTO449	A 110	*	510.293	3.55495	3.59499	5	37 33 32	122 18 46
724	HTO439	B 110		511.981	3.80011	3.84015	2	37 32 44	122 18 11
725	HTO438	BB 110	)	512.388	6.13032	6.17036	3	37 32 32	122 18 12
724	HTO439	B 110	*	511.981	3.80011	3.84015	2	37 32 44	122 18 11
726	HTO435	C 110		512.805	6.57640	6.61644	2	37 32 20	122 17 49
727	HTO428	D 110		514.184	3.76017	3.80021	2	37 31 50	122 17 16
728	HTO425	E 110		515.573	9.71900	9.75905	2	37 31 19	122 16 33
729	HTO422	F 110		516.819	6.40617	6.44623	2	37 30 50	122 15 56
730	HTO413	NWB		517.659	7.61026	7.65032	2	37 30 31	122 15 37
731	HTO411	E 7		517.849	7.44730	7.48736	2	37 30 27	122 15 32
732	HTO409	G 110		518.863	4.71841	4.75847	2	37 30 03	122 15 04
733	HT1322	BASE A		520.019	6.08028	6.12034	3	37 29 35	122 14 32
734	HT1327	H 110		520.941	4.09742	4.13748	2	37 29 17	122 14 02
735	HT1317	F 7	)	521.291	3.45451	3.49457	2	37 29 09	122 13 50
736	HT1316	GRANITE B/K	)	522.144	4.24559	4.28565	2	37 28 52	122 13 24

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
734	HT1327	H 110	*	520.941	4.09742	4.13748	2	37 29 17	122 14 02
737	HT1313	J 110		521.912	3.44559	3.48565	2	37 29 23	122 13 29
738	HT1305	K 110		523.107	1.37407	1.41413	2	37 29 19	122 12 42
739	HT1303	L 110		524.311	1.33541	1.37547	2	37 29 14	122 11 55
740	HT1300	M 110		525.488	2.74614	2.78620	2	37 29 07	122 11 07
741	HT1296	N 110		526.898	-0.19353	-0.15347	2	37 28 45	122 10 15
742	HT1294	P 110		527.889	5.12923	5.16929	2	37 28 27	122 09 42
743	HT1289	Q 110		529.013	6.21802	6.25808	2	37 28 04	122 09 05
744	HT1254	R 110		530.210	6.30156	6.34162	2	37 27 42	122 08 25
745		TBM 304		531.335	10.67666	10.71672	2	37 27 23	122 08 55*
746	HT1252	S 110		531.464	11.03456	11.07462	2	37 27 21	122 08 58
747	HT1251	T 110		532.644	15.54075	15.58082	2	37 26 53	122 09 30
748	HT1249	I 7		533.313	18.41726	18.45734	2	37 26 35	122 09 46
749	HT1333	H 7	)	534.048	21.87743	21.91750	2	37 26 49	122 10 09
750	HT1334	G 7	)	535.445	20.94324	20.98330	2	37 27 16	122 10 51
751	HT1335	UU 110	)	535.676	21.58298	21.62304	3	37 27 13	122 10 54
748	HT1249	I 7	*	533.313	18.41726	18.45734	2	37 26 35	122 09 46
752	*HT1338	SEB	)	533.581	18.94516	18.98524	2	37 26 40	122 09 55
748	HT1249	I 7	*	533.313	18.41726	18.45734	2	37 26 35	122 09 46
753		TBM 305	)	534.600	20.77884	20.81894	3	37 25 59	122 10 04*
754	HT1345	U 110	)	535.343	27.75984	27.79995	2	37 25 38	122 10 15
748	HT1249	I 7	*	533.313	18.41726	18.45734	2	37 26 35	122 09 46
755	HT1246	W 110	)	534.694	13.09993	13.14002	2	37 26 08	122 09 01
756	HT1282	V 110	)	535.943	7.33827	7.37835	2	37 26 34	122 08 24
755	HT1246	W 110	*	534.694	13.09993	13.14002	2	37 26 08	122 09 01
757	HT1241	J 7		535.871	9.15789	9.19799	2	37 25 45	122 08 25
758	HT1237	X 110		537.136	8.92174	8.96185	2	37 25 19	122 07 44
759	HT1232	Y 110		538.431	11.58181	11.62193	2	37 24 54	122 07 02
760	HT1229	Z 110		539.375	5.68523	5.72535	2	37 25 12	122 06 33
761	HT1226	A 111		539.726	4.33195	4.37207	2	37 25 17	122 06 19
762	HT1223	B 111		541.000	3.86674	3.90686	2	37 25 18	122 05 29
763	HT1218	C 111		541.730	6.73027	6.77039	2	37 25 02	122 05 05
764	HT1216	D 111		542.646	9.61718	9.65730	2	37 24 46	122 04 38
765	HT1213	E 111		543.521	12.13429	12.17441	3	37 24 31	122 04 05
766	HT1960	IRON PIPE 47		543.977	13.05580	13.09592	2	37 24 27	122 03 55

\* changed in NGSIDB on 9-11-90, KSK.

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
767	HT1210	G 111		544.212	13.25830	13.29842	2	37 24 24	122 03 39
769	HT1183	4268	)	544.514	12.38077	12.42089	2	37 24 22	122 03 28
770	HT1196	H 111	)	545.257	7.10459	7.14471	2	37 24 41	122 03 07
767	HT1210	G 111	*	544.212	13.25830	13.29842	2	37 24 24	122 03 39
771	HT1957	IRON PIPE 48		544.703	13.09827	13.13839	2	37 24 18	122 03 18
772	HT1175	F 111		545.645	12.44969	12.48981	2	37 24 12	122 02 43
773	HT1954	IRON PIPE 51		546.372	12.95543	12.99555	2	37 24 08	122 02 19
774	HT1171	J 111		546.665	11.96205	12.00217	2	37 24 03	122 02 05
776	HT1145	K 111		547.403	11.17211	11.21223	2	37 23 57	122 01 34
775	HT1143	L 111		548.297	10.11109	10.15121	2	37 23 47	122 01 00
777	HT1140	M 111		549.461	9.57269	9.61281	2	37 23 38	122 00 10
778	HS2932	N 111		550.478	9.14087	9.18099	2	37 23 25	121 59 39
779	HS2929	IRON PIPE 53		551.317	13.00708	13.04721	2	37 23 06	121 59 41
780	HS2928	P 111		551.649	14.85516	14.89530	2	37 22 50	121 59 44
781	HS2923	M 7		552.723	19.57609	19.61624	2	37 22 15	121 59 39
782	HS2919	Q 111		553.950	16.20133	16.24148	2	37 22 14	121 58 53
783	HS2915	R 111		555.231	17.76839	17.80854	2	37 22 03	121 58 02
784	HS2912	S 111		556.167	17.91437	17.95453	2	37 21 48	121 57 30
785	HS2909	T 111		557.429	20.25813	20.29830	2	37 21 28	121 56 45
786	HS3225	W 111		558.447	28.24582	28.28601	3	37 20 59	121 56 36
787	HS3226	V 111		558.766	26.53555	26.57575	2	37 20 49	121 56 21
788	HS2908	U 111		559.310	22.03395	22.07414	2	37 21 12	121 56 09
789	HS2906	X 111		560.418	20.97262	21.01282	2	37 20 54	121 55 27
790	HS2892	Y 111		561.280	25.05545	25.09566	5	37 20 40	121 55 01
791	HS2889	Z 111		561.874	25.44124	25.48146	2	37 20 29	121 54 40
792	HS2886	B 112	)	562.707	24.28921	24.32942	2	37 20 46	121 54 13
791	HS2889	Z 111	*	561.874	25.44124	25.48146	2	37 20 29	121 54 40
793		TBM 309	)	562.449	25.63782	25.67805	2	37 20 15	121 54 27*
794	HS3110	A 112	))	563.232	31.19239	31.23263	2	37 20 02	121 54 47
793		TBM 309	)*	562.449	25.63782	25.67805	2	37 20 15	121 54 27*
795	HS3109	C 112	)	563.234	31.28730	31.32754	2	37 19 55	121 54 09
796		TBM 310	)	564.286	32.32404	32.36429	2	37 19 38	121 53 54*
797		TBM 311	)	565.265	35.94680	35.98706	2	37 19 22	121 53 40*
798		TBM 312	)	565.969	34.80052	34.84079	2	37 19 10	121 53 30*
799	HS3229	D 112	)	566.945	33.77381	33.81409	2	37 18 54	121 53 16

LEVELING  
EUREKA TO SAN FRANCISCO CA

RUN DATE: 05 NOV 94 TIME: 10:23

PAGE 26  
HGZ L389  
4.0 MM 1ST-ORDER/CLASS II

HJO/NGS

30 OCT 1931

29 DEC 1932

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
791	HS2889	Z 111	*	561.874	25.44124	25.48146	2	37 20 29	121 54 40
800		TBM 306		562.971	25.62059	25.66081	2	37 20 22	121 54 02*
801		TBM 307		563.397	25.72707	25.76729	4	37 20 20	121 53 47*
802	HS2827	98 USGS = P 7		563.894	28.38446	28.42468	2	37 20 17	121 53 30
803	HS2820	96 USGS		564.447	27.68448	27.72470	2	37 20 16	121 53 11

LEVELING  
EUREKA TO SAN FRANCISCO CA

RUN DATE: 05 NOV 84 TIME: 10:28

PAGE 1  
HGZ L389  
4.0 MM 1ST-ORDER/CLASS II

HJO/NGS

30 OCT 1931

29 DEC 1932

-- ROD STANDARDIZATION --

EQUIP CODE	SERIAL NO	MANUFACTURER	MODEL	GRAD CODE	ROD UNITS	STD TEMP (C)	COEF EXPN (/C)	ROD EXCESS	INDEX ERROR
							X.0001	X.001	
312	245	USC&GS	INVAR		CM	31.0	0.0250A	0.0000C	0.0000C
312	251	USC&GS	INVAR		CM	31.0	0.0250A	0.0000C	0.0000C
MEANS FOR ROD PAIR NUMBER 1						31.0	0.0250	0.0000	
312	229	USC&GS	INVAR		CM	28.9	0.0140A	0.0067C	-0.1000C
312	230	USC&GS	INVAR		CM	20.0	0.0140A	-0.0643C	-0.1000C
MEANS FOR ROD PAIR NUMBER 2						24.4	0.0140	-0.0288	
312	255	USC&GS	INVAR		CM	29.0	0.0250A	-0.0500C	0.1000C
312	229	USC&GS	INVAR		CM	28.9	0.0140A	0.0067C	-0.1000C
MEANS FOR ROD PAIR NUMBER 3						28.9	0.0195	-0.0216	

PARAMETER FLAGS: A - ASSUMED, C - COMPUTED, R - FROM ARCHIVAL RECORDS  
U - USED PREVIOUSLY COMPUTED VALUE, ? - REDUC4 DEFAULT  
I - INTERPOLATED (25\*), \* - TAKEN FROM 16\* RECORD

HJO/NGS

30 OCT 1931

29 DEC 1932

-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
1	211	G23	FISCHER	USC&GS							
	30	OCT 31	0730	0.0000 *	337	19310719				1	1
	31	OCT 31	0815	0.0020 *	337	19310719				1	2
	03	NOV 31	800	0.0050 *	337	19310719				2	3
	04	NOV 31	0810	0.0050 *	337	19310719				2	4
	05	NOV 31	0830	-0.0050 *	337	19310719				2	5
	06	NOV 31	0840	0.0010 *	337	19310719				2	6
	03	NOV 31	0840	0.0050 *	337	19310719				2	7
	09	NOV 31	0850	0.0030 *	337	19310719				2	8
	10	NOV 31	0910	0.0020 *	337	19310719				2	9
	12	NOV 31	1000	-0.0030 *	337	19310719				2	10
	13	NOV 31	850	0.0080 *	337	19310719				2	11
	17	NOV 31	0850	-0.0020 *	337	19310719				2	12
	18	NOV 31	0845	-0.0050 *	337	19310719				2	13
	19	NOV 31	0830	0.0030 *	337	19310719				2	14
	24	NOV 31	0800	-0.0080 *	337	19310719				2	15
	27	NOV 31	0830	-0.0040 *	337	19310719				2	16
	30	NOV 31	0840	0.0040 *	337	19310719				2	17
	01	DEC 31	0820	0.0050 *	337	19310719				2	18
	02	DEC 31	0800	0.0050 *	337	19310719				2	19
	07	DEC 31	0750	0.0010 *	337	19310719				2	20
	08	DEC 31	0800	-0.0020 *	337	19310719				2	21
	09	DEC 31	0820	-0.0010 *	337	19310719				2	22
	08	JAN 32	800	0.0090 *	337	19310719				2	23
	09	JAN 32	0930	0.0060 *	337	19310719				2	24
	11	JAN 32	830	0.0010 *	337	19310719				2	25
	12	JAN 32	815	0.0090 *	337	19310719				2	26
	13	JAN 32	800	0.0000 *	337	19310719				2	27
	18	JAN 32	0800	-0.0080 *	337	19310719				2	28
	19	JAN 32	0800	-0.0060 *	337	19310719				2	29
	20	JAN 32	0745	-0.0060 *	337	19310719				2	30
	21	JAN 32	0800	-0.0060 *	337	19310719				2	31
	22	JAN 32	0845	-0.0040 *	337	19310719				2	32
	26	JAN 32	0815	0.0020 *	337	19310719				2	33
	27	JAN 32	0730	-0.0030 *	337	19310719				2	34
	28	JAN 32	0730	-0.0070 *	337	19310719				2	35

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)  
\$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

LEVELING  
EUREKA TO SAN FRANCISCO CA

RUN DATE: 05 NOV 84 TIME: 10:28

PAGE 2  
HGZ L389  
4.0 MM 1ST-ORDER/CLASS II

HJO/NGS

30 OCT 1931

29 DEC 1932

-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
1	211	G23	FISCHER	USC&GS							
	29	JAN 32	0800	-0.0050 *	337	19310719				2	36
	30	JAN 32	0800	-0.0050 *	337	19310719				2	37
	01	FEB 32	1300	-0.0020 *	337	19310719				2	38
	02	FEB 32	0800	0.0020 *	337	19310719				2	39
	03	FEB 32	0900	-0.0050 *	337	19310719				2	40
	04	FEB 32	0900	-0.0090 *	337	19310719				2	41
	08	FEB 32	0800	-0.0010 *	337	19310719				2	42
	09	FEB 32	0800	0.0020 *	337	19310719				2	43
	10	FEB 32	0800	-0.0080 *	337	19310719				2	44
	11	FEB 32	0800	0.0040 *	337	19310719				2	45
	12	FEB 32	0800	0.0040 *	337	19310719				2	46
	13	FEB 32	0830	-0.0080 *	337	19310719				2	47
	15	FEB 32	0800	-0.0080 *	337	19310719				2	48
	16	FEB 32	0830	-0.0080 *	337	19310719				2	49
	17	FEB 32	0800	-0.0040 *	337	19310719				2	50
	18	FEB 32	1030	-0.0010 *	337	19310719				2	51
	20	FEB 32	0830	-0.0020 *	337	19310719				2	52
	23	FEB 32	0830	0.0040 *	337	19310719				2	53
	26	FEB 32	0900	-0.0060 *	337	19310719				2	55
	27	FEB 32	0930	-0.0010 *	337	19310719				2	56
	29	FEB 32	0930	0.0050 *	337	19310719				2	57
	02	MAR 32	1030	-0.0040 *	337	19310719				2	58
	03	MAR 32	0900	0.0030 *	337	19310719				2	59
	04	MAR 32	0930	-0.0050 *	337	19310719				2	60
	05	MAR 32	0730	-0.0010 *	337	19310719				2	61
	07	MAR 32	0915	-0.0010 *	337	19310719				2	62
	08	MAR 32	0900	0.0040 *	337	19310719				2	63
	09	MAR 32	0830	0.0010 *	337	19310719				2	64
	10	MAR 32	800	0.0010 *	337	19310719				2	65
	11	MAR 32	0800	0.0010 *	337	19310719				2	66
	12	MAR 32	0800	0.0010 *	337	19310719				2	67
	15	MAR 32	0800	-0.0020 *	337	19320315				2	68
	16	MAR 32	1315	-0.0070 *	337	19320315				2	69
	17	MAR 32	0800	-0.0070 *	337	19320315				2	70
	21	MAR 32	0845	0.0090 *	337	19320315				1	71

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)

\$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

HJO/NGS

30 OCT 1931

29 DEC 1932

-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
1	211	G23	FISCHER	USC&GS							
	22	MAR 32	0745	0.0000 *	337	19320315				1	72
	23	MAR 32	0845	0.0070 *	337	19320315				1	73
	24	MAR 32	0830	0.0090 *	337	19320315				1	74
	25	MAR 32	0830	-0.0100 *	337	19320315				1	75
	26	MAR 32	0830	0.0020 *	337	19320315				1	76
	28	MAR 32	0900	0.0090 *	337	19320315				1	77
	29	MAR 32	0900	0.0080 *	337	19320315				1	78
	30	MAR 32	0915	-0.0060 *	337	19320315				1	79
	31	MAR 32	0915	0.0010 *	337	19320315				1	80
	01	APR 32	0930	-0.0100 *	337	19320315				1	81
	04	APR 32	0	-0.0100 *	337	19320315				2	82
	02	NOV 31	1200	0.0080 *	337	19310719				2	86
	29	DEC 32	1355	0.0000 *	337	19320315				3	130
2	211	G21	FISCHER	USC&GS							
	02	APR 32	0930	-0.0060 *	295	19310709				2	83
	30	OCT 31	0835	0.0070 *	295	19310709				2	84
	31	OCT 31	0835	0.0070 *	295	19310709				2	85
	03	DEC 31	1200	0.0010 *	295	19310709				2	87
	07	NOV 31	0830	0.0040 *	295	19310709				1	88
	20	NOV 31	0820	0.0020 *	295	19310709				2	89
	21	NOV 31	0820	0.0020 *	295	19310709				2	90
	23	NOV 31	0900	-0.0030 *	295	19310709				2	91
	25	NOV 31	1000	-0.0020 *	295	19310709				2	92
	28	NOV 31	0850	-0.0010 *	295	19310709				2	93
	03	DEC 31	0800	0.0010 *	295	19310709				2	94
	04	DEC 31	0800	0.0010 *	295	19310709				2	95
	05	DEC 31	0750	0.0010 *	295	19310709				2	96
	10	DEC 31	0810	-0.0040 *	295	19310709				2	97
	11	DEC 31	0810	-0.0040 *	295	19310709				2	98
	12	DEC 31	0915	-0.0020 *	295	19310709				2	99
	15	DEC 31	820	0.0000 *	295	19310709				2	100
	16	DEC 31	820	0.0000 *	295	19310709				2	101
	17	DEC 31	0800	0.0000 *	295	19310709				2	102

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)  
\$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

HJO/NGS

30 OCT 1931

29 DEC 1932

-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
2	211	G21	FISCHER	USC&GS							
	18	DEC 31	0800	0.0000 *	295	19310709				2	103
	19	DEC 31	0800	0.0000 *	295	19310709				2	104
	29	DEC 31	0830	-0.0030 *	295	19310709				2	105
	30	DEC 31	0830	-0.0030 *	295	19310709				2	106
	31	DEC 31	0830	0.0030 *	295	19310709				2	107
	02	JAN 32	0800	0.0030 *	295	19310709				2	108
	04	JAN 32	800	0.0030 *	295	19310709				2	109
	05	JAN 32	800	0.0030 *	295	19310709				2	110
	06	JAN 32	0750	-0.0040 *	295	19310709				2	111
	07	JAN 32	0750	-0.0040 *	295	19310709				2	112
	23	JAN 32	0830	0.0020 *	295	19310709				2	113
	25	JAN 32	0830	0.0020 *	295	19310709				2	114
	18	FEB 32	1100	0.0040 *	295	19310709				1	115
	19	FEB 32	1000	0.0000 *	295	19310709				1	116
	10	MAR 32	0800	0.0010 *	295	19310709				2	117
	18	MAR 32	1300	0.0000 *	295	19310709				2	118
	21	MAR 32	0930	-0.0030 *	295	19310709				2	119
	22	MAR 32	0900	-0.0050 *	295	19310709				2	120
	23	MAR 32	0845	-0.0070 *	295	19310709				2	121
	24	MAR 32	0800	-0.0020 *	295	19310709				2	122
	25	MAR 32	0800	-0.0020 *	295	19310709				2	123
	26	MAR 32	0845	-0.0050 *	295	19310709				2	124
	28	MAR 32	0845	-0.0050 *	295	19310709				2	125
	29	MAR 32	0845	-0.0050 *	295	19310709				2	126
	30	MAR 32	0815	-0.0030 *	295	19310709				2	127
	31	MAR 32	0815	-0.0030 *	295	19310709				2	128
	01	APR 32	1500	-0.0060 *	295	19310709				2	129

NOT USED

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)

\$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

LEVELING  
EUREKA TO SAN FRANCISCO CA

RUN DATE: 05 NOV 84

TIME: 10:28

PAGE 27

HGZ L389

4.0 MM 1ST-ORDER/CLASS II

HJD/NGS

30 OCT 1931

29 DEC 1932

PROCESSING OPTIONS USED

" " REFRACTION CODE  
"2" POSITION CODE  
"A" REJECTION CODE  
" " MAGNETIC CODE

PERCENT OF RUNNINGS CORRECTED

100.0 LEVEL COLLIMATION

100.0 ROD CALIBRATION

100.0 AVERAGE EXCESS

0.0 DETAILED CALIBRATION (FROM 43\* RECORDS)

100.0 TEMPERATURE

0.0 PREDICTED TEMPERATURES

100.0 OBSERVED TEMPERATURES

100.0 ASTRONOMIC

0.0 MAGNETIC

100.0 REFRACTION

100.0 COMPUTED BY REDUC4

0.0 TAKEN FROM 43\* RECORDS (PREDICTED TEMPERATURES)

0.0 TAKEN FROM 43\* RECORDS (OBSERVED TEMPERATURES)

PREDICTED TEMPERATURES ARE COMPUTED FROM THE SOLAR RADIATION MODEL

NORMAL ORTHOMETRIC HEIGHTS HAVE BEEN COMPUTED BASED ON NORMAL GRAVITY  
(USC & GS SPECIAL PUBLICATION 240)

ASSUMED THERMAL EXPANSION VALUES WERE USED FOR SOME OR ALL OF THE RODS

LEVELING  
EUREKA TO SAN FRANCISCO CA

RUN DATE: 05 NOV 84 TIME: 10:28

PAGE 1  
HGZ L389  
4.0 MM 1ST-ORDER/CLASS II

HJO/NGS 30 OCT 1931 29 DEC 1932

1.66 MM STANDARD DEVIATION OF A 1 KM SINGLE RUN SECTION  
1.17 MM STANDARD DEVIATION OF A 1 KM DOUBLE RUN SECTION  
794 SECTIONS USED TO COMPUTE STANDARD DEVIATIONS  
564.447 KM MAIN LINE LENGTH  
35.521 KM SPUR LINE LENGTH  
1254.248 KM UNREJECTED LEVELING  
488 BENCHMARKS  
313 TEMPORARY BENCHMARKS  
801 SECTIONS  
1 RIVER/VALLEY CROSSINGS  
1664 RUNNINGS  
0.4 PERCENT OF RUNNINGS REJECTED  
4.2 PERCENT RERUNS

