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3994

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

U. S. C. & G. SURVEY
L. & A.
JAN 9 1923
Acc. No.

State: Calif.-- Nev.

11—5613

DESCRIPTIVE REPORT.

Topo Sheet No. 3993—3994

LOCALITY:

Lake Tahoe

1922

CHIEF OF PARTY:

Fred. L. Peacock, H.& G.E.

3993
3994

D E S C R I P T I V E

R E P O R T

to accompany

T W O T O P O G R A P H I C S H E E T S O F

L A K E T A H O E

C A L I F O R N I A -------- N E V A D A

Lake Tahoe Shore Party, 1922
Fred. L. Peacock, H.& G.E., Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO.

Survey Methods

The two topographic sheets of Lake Tahoe, its shore-line and physical features, were forwarded to the field party from the Washington Office, with all detail complete in pencil. This topography was the work of the U.S.Reclamation Service in the summer of 1918, done on a scale of 1 inch equals 200 feet, controlled by a stadia traverse run around the shore-line of the lake. These two topographic sheets were compiled from blue prints of the original sheets of the Reclamation Service Survey, after proper adjustments had been made for the closure of their traverse.

The work of the Lake Tahoe Shore Party then was to verify these sheets. Due to a limited officer personnel in the party (there were only two officers) a complete plane-table verification was impossible in the time allotted. However, the plane table was taken into the field for the location of signals and on these occasions the two topographic sheets yielded good three-point fixes, with recognizable physical features, as gables of houses, used as points of orientation. In addition, a check on the shore-line was obtained through the hydrography by transferring to the boat sheet the shore-line.

The field party established 34 points of contact between the Reclamation Service Survey and the triangulation of 1922 by the Coast Survey, for swinging the shore-line onto a projection. Some of these contact points were located in the field by plane table. Others were transferred from large scale blue prints of the Reclamation Service Survey onto the topographic sheets -- recognizable points that were coincident to both the Reclamation Service Survey and Coast Survey triangulation of 1922.

The following triangulation stations were located in the field by the plane table: Observatory Point; Observatory Point (2) ; State Line; Truckee; and the following intersection stations: Nev; Ob; Ate; Bas; Tay; Wab.

At intersection stations Live, Air, and Ball, contact was obtained by traversing to the signal from a recovered and identified station mark of the Reclamation Service traverse.

Intersection station Con was found to be identical with a traverse point of the Reclamation Service traverse.

Bench marks at the Tahoe City water-level station and at the Upper Truckee water-level station were located by plane table and the new wharf of the Standard Oil Company at Tahoe City was run in with the plane table. At Tahoe City, at Upper Truckee (Truckee Marsh) at Observatory Point, and at State Line Point, sufficient pointings were taken on the shore line to check its position as given on the topographic sheets. The mouths of the Upper Truckee River were found to have changed slightly their position and these changes are made in ink on the topographic sheet.

Respectfully submitted

Arthur W. Skilling

Arthur W. Skilling, Aid

Respectfully forwarded

Fred. L. Peacock

Fred. L. Peacock, Chief of Party.
Hydr. & Geod. Engr.

Sta 191	N.	S	E	W		adjusted coordinates North	Sta	East
194						8782	194	30676
195						10530	195	29440
196						11389	196	29433
202						16012	202	28759
211	46233			92539		11604	211	25687
215	+ 2			-20		10353	215	21454
218				9234		13449	218	23336
219						14055	219	24218
224						16242	224	27285
230	82533.6			862.4		19861	230	24827
231	+ 3			-2		22017	231	24994
235				860		25898	235	24916
236						27141	236	24779
238						28439	238	24088
239	89053			2122.0		28770	239	22709
242	+ 4			-4		32104	242	19324
245				2118		36716	245	17668
246						38252	246	17533
253						42095	253	16972
256	16303.2			3951.4		45081	256	18766
260	+ 8			-8		48230	260	19603
263				3943		51225	263	19045
264						52143	264	18228
269						54157	269	14090
270	94814			6344.0		54566	270	12436
275	+ 4			-14		56678	275	8217
276				6330		58546	276	6863
277						60170	277	6337
279						62984	279	5242
280	98012			7470.6		64371	280	4981
283	+ 4			-16		68618	283	6539
284				7455		70086	284	6755
289						74418	289	5662
294						78101	294	8498
295	155103		3044.8			79889	295	8033
300	+ 7		+7			84438	300	10818
301			3052			86468	301	11329
304						90418	304	11134
310						92417	310	13165
311	13201.0		5814.2			93096	311	13860
313	+ 6		+42			94842	313	17284
314			5826			94700	314	18715
317						95930	317	22082
328						101050	328	24532
329	10040.6		10724.8			103141	329	24608
333	+ 4		+23			106283	333	26756
334			10748			108715	334	27011
340						111939	340	31911
343						114734	343	31960
344	119552		8796.9			115100	344	33425
347	+ 4		19			116063	347	36467
348			8816			115364	348	38577
352			16374			115138	352	43050
356		-2	35			113390	356	46703
2		5102.2	16539.1			110000	2	50000
	117857.5 +49.5	117956.6 -49.6	69849.9 +151	70152.4 -151				
	117907	117907	70001	70001	1 in 463 v			

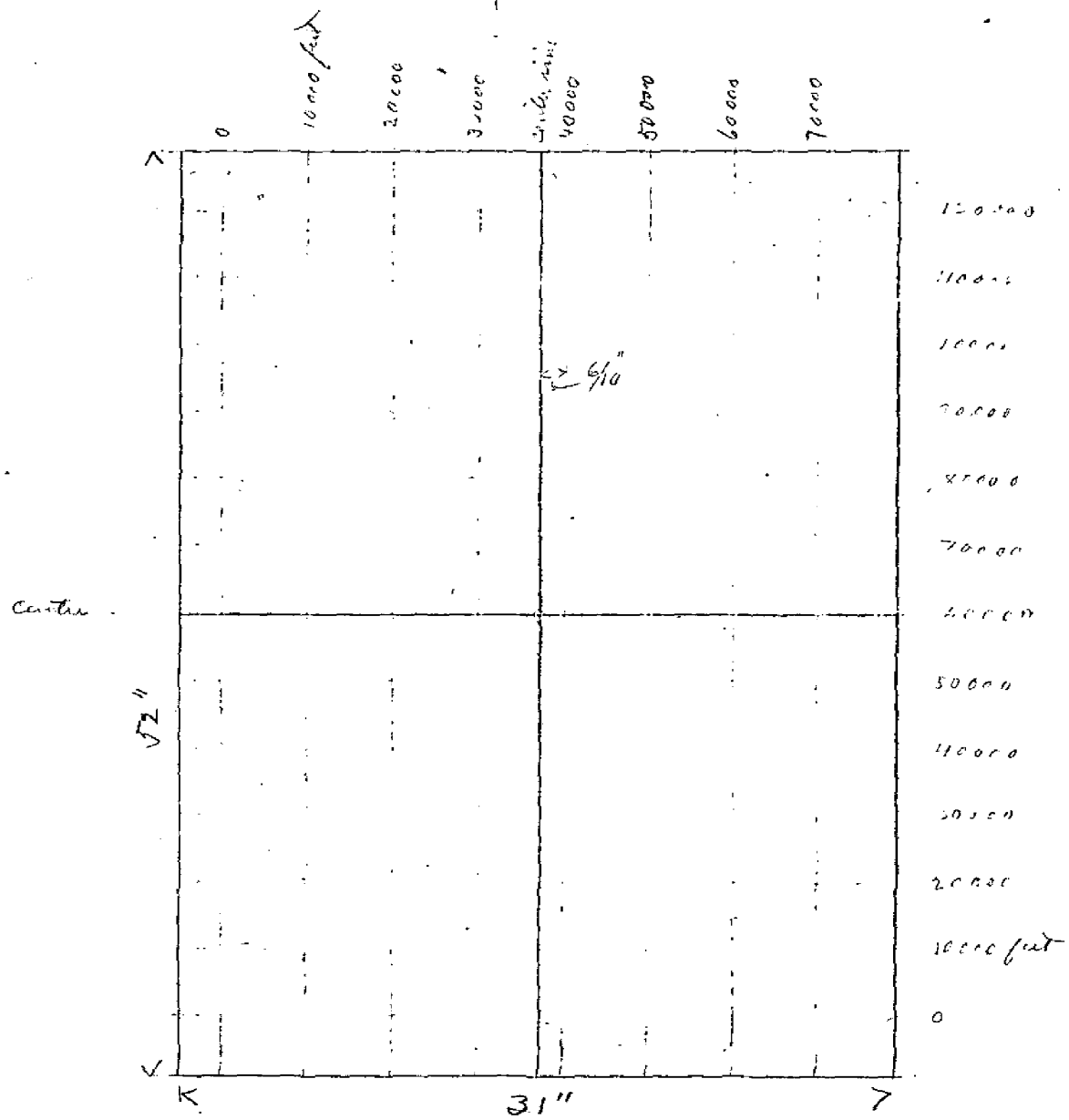
For rectangular projection for

Sta	Horizontal Proj. line	FEET North on 1/10000 scale	Vertical Proj. line	FEET East on 1/10000 scale	
2	110 000	0 0 0 0 0	50 000	0 0 0 0 0	
9	110 000	1 9 3 4 5	50 000	1 4 3 5 3	
10	110 000	2 9 7 0 5 1	50 000	1 5 5 0 2 0	
14	110 000	2 7 5 8 8 6	50 000	2 3 7 8	
15	110 000	2 8 8 7 6 2 1	50 000	2 9 7 1 8 2	
16	110 000	3 9 1 6 7 8 7	50 000	1 3 2 9 4 3	
19	110 000	3 9 6 2 3 9	50 000	2 7 5 7 2 9 1	
20	110 000	3 9 0 4 8 1 8	50 000	2 8 9 3 3 1	
27	110 000	2 7 3 2 7 5 8	60 000	1 3 1 4 2 1	
28	110 000	2 6 2 8 3 0 2	60 000	1 4 5 6 3 8 6	
33	110 000	1 4 3 2 9 6	60 000	1 3 0 2 7 8 0	936
36	110 000	2 9 7 0 6 5	70 000	2 7 3 2 8 2	
37	110 000	1 3 0 4 5 6	70 000	1 2 6 0 5	50
42	100 000	2 7 3 2 7 4 7	70 000	5 1 6 7 9 3	
43	100 000	1 5 7 2 0 0 5	70 000	1 4 4 5 0 9	
48	100 000	1 3 0 1 3 4 1	70 000	2 8 7 3 1	
49	100 000	1 5 5 1 5 0	70 000	2 7 4 5 7	
56	90 000	2 6 0 1 5 8	70 000	1 6 8 1 6 0	
62	90 000	1 4 4 8 9 9	70 000	2 6 0 1 0	
63	90 000	69 2 8 2 8 5	70 000	1 4 3 0 0	
68	80 000	1 5 8 6 6 8 4	70 000	1 5 8	
76	80 000	1 3 0 3 8	60 000	2 7 5 8 6 0 1	
91	70 000	1 5 7 0 9 4	60 000	1 5 7 2 3 8 3	
97	60 000	3 9 2 9 5 1 3	60 000	1 3 1 5 6 6 8	
105	60 000	1 5 9 8 1 2 1	60 000	1 4 3 0 3 6 1	
110	60 000	1 4 5 8 7 9	60 000	2 6 2 9 8 6 3	
111	60 000	1 3 2 8 7 1 2	60 000	2 7 4 5 7 3 0	
118	50 000	3 9 1 4 0 6 3	60 000	2 6 0 1 0 2 7	
119	50 000	2 9 9 1 9 3 6	60 000	1 5 9 4 3 5	
125	50 000	1 4 4 5 9 5 2	60 000	2 7 5 7 3 2 3	
126	50 000	1 3 1 5 5 1	60 000	2 7 1 5 6 2 7	
130	40 000	1 3 0 3 0 8 9	60 000	2 6 2 8 4 5 8	
131	40 000	2 6 1 7 4 0	60 000	2 6 1 5 5 0	
136	40 000	1 3 1 5 5 1 1	60 000	1 5 9 6 8 3	
137	40 000	1 3 0 1 4 8 5	60 000	1 5 8 7 7 8	572
142	30 000	82.0 ~~84~~ 2 8 6 2 8 0 9	60 000	1 5 8 6 4 2 3	
148	30 000	2 9 7 1 9 5	60 000	1 5 8 5 1 3 3	
156	20 000	2 7 4 6 9 0 3	60 000	3 1 5 7 9 1	
161	20 000	1 3 0 1 4 9 6	60 000	1 3 1 5 0 8 3	-337
162	20 000	1 4 8 7 3	60 000	1 4 3 2 9 5 5	
164	10 000	2 7 4 5 7 5 7	60 000	1 5 8 5 1 2 0	
165	10 000	1 5 9 4 2 1	60 000	1 5 8 6 3 0 7	
167	10 000	2 8 6 6 3 4	60 000	1 4 6 2 6 8	
168	10 000	1 4 8 0 2 0	60 000	1 3 1 5 6 4 2	
171	0	2 9 0 7 7 7	50 000	3 9 1 6 5 3 9	
172	0	2 8 6 3 5 7	50 000	2 7 4 5 6 2 8	
175	0	2 8 6 1 7 6 6	50 000	1 4 0 2 9	
176	0	2 7 4 5 8 6	50 000	2 8 4 1 6 8	
180	0	2 6 2 9 6 0 5	40 000	3 9 2 8 3 5 2	
181	0	1 5 9 8 2 7 6	40 000	2 8 8 6 2 9	
183	0	1 5 8 5 3 9 5	40 000	1 5 7 4 8 3 3	
184	0	1 5 8 7 2 6	40 000	1 3 1 5 5 1 3	
186	0	2 6 0 2 5 7 9 2	40 000	1 5 5	
187	0	2 6 1 5 5 6 4	30 000	3 9 0 1 0 7 9	
191	0	2 7 3 0 2 9 6	30 000	1 5 6 0 4 0 0	

Meters North on 1:30,000 chart reduced to reading from 1:10,000 scale instrument

Lake Tahoe on 1/30000. Squares 10000 ft

Sta	Horizontal Proj. line	FEET North on 1/10000 scale	Vertical Proj. line	FEET East on 1/10000 scale
194	0	2899227	30 000	26295
195	10 000	15747	20 000	3915497
196	10 000	144613	20 000	3915484
202	10 000	2601014	20 000	2879200
211	10 000	156335	20 000	1587986
215	10 000	13168	20 000	144885
218	10 000	1315500	20 000	131392
219	10 000	1431522	20 000	1442086
224	10 000	2603841	20 000	2744208
230	10 000	1302082	20 000	1469009
231	20 000	26052	20 000	1560675½
235	20 000	1599696	20 000	1469399½
236	20 000	2732850	20 000	486 1759993
238	20 000	2885173½	20 000	1431653
239	20 000	2899213	20 000	297053
242	30 000	271041	10 000	3914078
245	30 000	2628329½	10 000	2757596
246	30 000	2873581	10 000	2756151
253	40 000	261938	10 000	2730284
256	40 000	1561964	10 000	2899712
260	40 000	2873463	10 000	3927061
263	50 000	142048	10 000	3901195
264	50 000	271184	10 000	2873463
269	50 000	1432826½	10 000	1431653
270	50 000	1456242	10 000	2841726½
275	50 000	2627086	0	2873359
276	50 000	2886489	0	2629878
277	60 000	1577½	0	261442
279	60 000	390935	0	1573427½
280	60 000	1444547	0	156060
283	60 000	2887763	0	664 2616850
284	70 000	1299	0	2628562
289	70 000	1444793	0	575 1587897
294	70 000	2872030	0	2886333
295	70 000	1302056	0	2861768
300	80 000	1445719	10 000	83 823773
301	80 000	2615576	10 000	143453
304	90 000	14329½	10 000	131758
310	90 000	284066	10 000	1302515
311	90 000	1301342	10 000	1329827
313	90 000	1469124	10 000	2744208
314	90 000	1457687	10 000	2898055
317	90 000	1690727½	20 000	261914
328	100 000	130570	20 000	461 1758151
329	100 000	1301497	20 000	1456386
333	100 000	2603984	20 000	2628562
334	100 000	2898055	20 000	2731327
340	110 000	169476	30 000	169347
343	110 000	1458718	30 000	169593
344	110 000	1571080	30 000	1314482
347	110 000	2601261	30 000	2615576
348	110 000	1514858	30 000	2887519
352	110 000	1512123	40 000	1301107
356	110 000	1314340	40 000	268314



M 1/30000
0
10000 feet
20000
30000
40000
50000
60000
70000
6/10"
Center
52"
31"
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000 feet
0

Sta	N.	S.	E.	W	Adjusted coordinates North feet	Sta. no.	East feet
2					110000	2	50000
9					111906	9	51359
10					112704	10	51501
14					117757	14	52334
15	8580.9		2730.2		118584	15	52736
16	+3		+6		119532	16	53880
19			2736		119086	19	57580
20					119265	20	58793
27					117135	27	63363
28		1887.3	11845.6		116696	28	64607
33		−1	+25		114187	33	69211
36			11871		112716	36	70713
37					111037	37	70494
42					107131	42	71707
43		11586.6	6736.0		105115	43	71378
48		−5	+15		103092	48	70812
49			6771		101530	49	70742
56					96055	56	71830
62					91468	62	70600
63		14447.3		988.7	90674	63	70391
68		−6		−2	85591	68	70054
76				997	80323	76	67682
91					75112	91	65200
97					69760	97	63504
105		24952.5		6411.2	65732	105	63994
110		−10		−14	64737	110	66850
111				6397	63812	111	67411
118					59310	118	66021
119					58987	119	65834
125		11260.6	3598.3		54476	125	67600
126		−5	+8		53452	126	67401
130			3406		49926	130	66744
131					48009	131	66451
136					43454	136	65890
137		11346.4		1971.3	43135	137	65633
142		−5		−4	38067	142	65529
148				1967	32745	148	65438
156					27478	156	63538
161					23137	161	63314
162		21695.2		1451.5	21449	162	64184
164		−9		−3	17431	164	65429
165				1449	15823	165	65512
167					12591	167	64583
168					11201	168	63486
171		12522.6		4718.1	8931	171	59476
172		−5		−10	8510	172	57403
175				4708	8027	175	53957
176					7458	176	52423
180					6795	180	49695
181		3153.9		1101.3.7	5778	181	48486
183		−1		−24	5504	183	45349
184				10990	5629	184	43458
186					6177	186	40149
187					6463	187	39026
191	1201.3			13593.6	6979	191	34921
				−29			
				13565			

Adjusted coordinates

Lake Tahoe Shoreline Survey

Survey by Forest Service

Adjusted by Geo. F. Brown JAN 13 1922

Form 537a
11—5813

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3993 & 3994

State . . . . California - Nevada . . . . . .

General locality . . . . Lake Tahoe . . . . . .

Locality . . . . . Lake Tahoe . . . . . .

Chief of party . . . . . Fred. L. Peacock . . . . . .

Surveyed by . . United States Reclamation Service . . . . . .

Date of survey . . . . 1918 . . . . . .

Scale . . . . . 1:30,000 . . . . . .

Heights in feet above . . . . . .

Contour interval . . . . feet.

Inked by . . . . . Lettered by . . . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . . .

Remarks: The two topographic sheets of Lake Tahoe, one for the North Part and one for the South Part, were prepared in the Washington Office, the shore line and physical features being taken from large scale sheets of the Reclamation Service Survey. U.S.C.& G.S. triangulation points were put on in the field to serve as contact between Coast Survey triangulation of 1922 and the shore line survey of 1918 by the Reclamation Service.