

To: The Director, U.S.Coast & Geodetic Survey, Washington, D.C.

Through: L.C.Johnson, Jr. H.& G.E. Chief of Party,

From: James N. Jones, Jr. H. & G.E.

Subject: Descriptive Report.

There is respectfully submitted herewith the descriptive report to accompany the following topographic sheets A, B, C, D, and E, covering a portion of the northern coast of California, complying with your instructions dated April 29, 1930.

James N. Jones Jr.H.& G.E.

Approved and forwarded:

L.C. Johnson, Jr. H.& G.E.

Chief of Party.

DESCRIPTIVE REPORT To Accompany Topographic Sheets A, B, C, D, & E COAST OF NORTHERN CALIFORNIA From HORSESHOE POINT TO HAMLET, TOMALES BAY SCALE; 1:10,000

The area covered by these sheets has been covered by previous surveys. The registery numbers of the former sheets covered are as follows:

INSTRUCTIONS:

The topography was executed in accordance with instructions of the Director of the U. S. Coast and Geodetic Survey, dated April 29, 1930, and covering combined operations Project No. 60.

LIMITS OF WORK:

This topography joins T4508 (1929) on the north at Horseshoe Point, Latitude 38° 36', an the north; on the south it joins T3840 (1921) at Hamlet, Latitude 38'12'.

OBJECT OF SURVEY:

This topography consists of a resurvey of the coast line, locating the high and low water lines, rocks and off lying dangers. Signals for the use of the hydrographic party were built and located by the topographic party.

GENERAL DESCRIPTION OF THE COAST:

The description of the coast as found in the U. S. Coast Pilot, Pacific Coast is accurate with the following notes: Sheet A.

The post village at Fisk Mill Cove is abandoned.

Sheet C.

A narrow channel has been constructed across the bar closing the mouth of the Russian River, and a breakwater constructed along the south side of this channel. The channel is used by tugs towing barges of sand and gravel to San Francisco Bay. The line of breakers extends completely across the entrance except in calm weather at high tide.

LANDMAPKS:

.

All prominent landmarks are described in the Coast Pilot.

CONTROL:

Control was based on the scheme of 2nd order triangulation executed by Lt.(jg) J. H. Brittain in 1929-30. The positions furnished this party by him were weed.

Several supplementary stations were located by this party in the vicinity of Rocky Point and Bay P. O.

SURVEY METHODS:

Traverses were run between control stations and closing errors within the allowable limits adjusted in the usual manner. All traverses closed well within the allowable limits except the following.

Sheet A.

The traverse \triangle Fish to \triangle Stockoff 2 closed with an error of of 25 m. This traverse was rerun and the features relocated.

Sheet B.

The traverse \triangle Pinnacle Rock to \triangle Dry Creek, a distance of approximately four miles, closed with an error of 30 m. No resection s from \triangle Dixon and \triangle Chaparral were available. This traverse was adjusted by cutting in \bigcirc Os from a three point fix 330 m. south of \triangle Chaparral and a short traverse along the ridge. The traverse north of \bigcirc Os was adjusted to this location with an error of 10,m. and the traverse to the south rerun.

No methods deviating from standard practices were used.

Off lying features were located by three or more intersecting outs. In the case the inshore rocks were numerous the limiting rocks were cut in and the others sketched with reference to them.

The high and low water lines were rodded in when possible. The steep and inaccesable bluff at many places made a location of the high and low water lines by cuts to tangents, prominent rocks and driftwood, and sketching between objects so located.

Signals were located by three or more intersecting cuts or by rod readings.

COMPARISON WITH OLD WORK:

The old surveys were found to be very accurate.

Contours on the old surveys were checked and found to be accurate except in the vicinity of Bodega Head. Sheet D. The drifting nature of the sand dunes to the north of Bodega Head caused considerable change. An error of 10' had apparently been made in the elevations on Bodega Head. These contours have been revised.

The following discrepancies were noted:

Sheet B.

There is considerable change in the location of the rocks be-

tween \odot Pig and \triangle Pinnacle Rock, as shown on the 1:5,000 inset of Fort Ross Cove. The location of rocks as shown on sheet B have been checked and were found correct.

The high water line in Fort Ross Cove was revised to include portions of the beach.

A group of rocks awash and sunken rocks, not shown on previous sheets, was located 620 m. off the mouth of Timber Gulch.

Sheet C.

Two rocks, shown on the old sheet, off Russian Gulch, 280 m 240 true, from 0 Cod were not found. Sounding in this vicinity by the hydrographic party did not indicate their existance

The island in the mouth of Russian River has been changed by erosion.

The sand beach to the north and south of Russian River has advanced 10 to 20 m.

Sheet D.

The high water line at the mouth of Salmon Creek has changed, caused by erosion and silting.

The high water line along the sand beach from the mouth of Salmon Creek to Bodega Head has advanced 30 to 40 m.

The rocks around Bodega Head have been revised. Considerable changes in size, number and location were necessary.

The shore line along the western side of the lagoon back of Bodega Head has advanced, particularly the sand point nearest the sand spit, which has shifted SE 150 m. and the point at the head of the lagoon between © Barn and © Tow, which has shifted S 200 m. These changed have been caused by the drifting sand.

In the vicinity of \odot Sign on the west side of the lagoon, the high water line has been shifted out about 200 m. This change has been caused by silting. The creek which empties at this point is practically dry in the summer months, but has considerable flow during the rainy season.

The low water line in the lagoon has been shifted to show the present channels. The two improved channels shown are maintained by fishing companies working out of the town of Bay. These channels are marked by stakes, which are shown on the sheet by pencil circles.

The high water line around the sand spit at the mouth of the lagoon has been changed.

The sand bar at the mouth of Estero Americano has changed.

Sheet E.

.

The sand bar at the mouth of Stemple Creek has changed.

Two large rocks, shown on the old survey, 250 m. WxS from

Dog were not found.

The sand beach from Dillon Beach around Sand Point has changed considerably. Sand Point is constantly changing, caused by erosion and building up by drifting sand. It has receeded 300 m. from the location shown on the last survey (1921)

The railroad shown at Hamlet has been abandoned and the tracks torn up.

NACES:

Sheet A.

Wildcat Creek and Warren Gulch, indicated on the sheet in pencil are fairly well established local names.

The native names shown on T1457 and T1497% have not been transferred to the sheet.

Sheet B.

Coleman Gulch, shown on the sheet in pencil, is an established local name.

Windermere Point, shown on the sheet in pencil, is in local use with a few of the older residents. It is so called after the British ship Windermere, which was a total wreck off this point in 1883.

Sheet C.

*ب*الد

Enle Head and Bird Rock are described under these names in the Pacific Coast Pilot, 1889. The former is applied to a small but prominent head-land. These names are not in local use.

Out Rocks are described under these Name in the Pacific Coast Pilot, 1889. This group of rocks is sometime locally called Mile Rocks and the lower rock midway between this group and O Max sometime called Half Mile Rock. The name Out Rocks is not in local use.

Gull Rock as designated on the sheet follows the description given in the U. S. Coast Pilot, Pacific Coast. On chart 5502 the name is erroreously given to the large arched rock one half mile north of Gull Rock.

Arched Rock is so called in the Pacific Coast Pilot, 1889, and is described in the later editions. It is a very descriptive name; a large perforation, approximately 40 ft high runs through the rock in a north and south direction. This name is not in local use.

Death Rock is a well established local name. This rock, off the Rocky Point head-land, is so called because "more than a dozen" people have lost their lives here, being washed off by unexpected heavy ground swell, while fishing or poseing.

Stump Beach and Wright Beach are established local names.

Approved for this

Elect. Do not chart

Sheet D.

Around Bodega Head, Mussel Point, Horseshoe Cove, and Spud Point are local names but are not widely used.

Bodega Port as shown on the charts and old topographic sheets is an obslete designation.

The town at the head of the lagoon is called Bay. Post Office and telephone facilities are obtained here. It is mainly a resort for fishing and clam digging parties.

Estero Americano is sometime called Valley Ford Creek.

Sheet E.

3

The estero or creek south of Estero Americano is called Stemple Creek. This is a well established local name

The post office at Hamlet is called Telmat. This name was never heard applied to the settlement.

PEMAPKS:

The low water line in the lagoon back of Bodega Head was located by plane table cuts to tangents at low water, location of channel stakes by three or more plane table cuts, and by sextant fixes taken at points on the low water line. The absence of any very low tides during the progress of the field work made it necessary to estimate portions of it. It is believed to be fairly accurate but should be checked by hydrography.

STATISTICS:

Sheet A.

<u>52557 41</u>				
Statute n	niles	of	shoreline	13.2
11	H.	Ħ	shoreline of islands	1.5
18	**	19	roads	10.6
tt	II	19	streams	4.3
Square st	tätut	e"m	streams iles of topography	3₊5
-				
			•	
Sheet B.				
Statute r	niles	οf	shoreline	11.5
11	н	11	" of islands	0.5
18	#	18	shoreline # of islands roads	10.0
11	18	11	streams	4.5
Square s	tatut	e mi	les of topography	3.0
_				
Sheet C.				
			showeline	14.9
Statute i	ut Täs	n.	shoreline of islands	
			roads	10.4
n	ut .	16	streams	6.2
Square s	tatu t	e m	iles of topography	3.6
Admin 0		-	40 40 40 40 40 40 40 40 40 40 40 40 40 4	
Sheet D.				
		_		
Statute n	niles	01	shoreline	20.4
Statute I	nites	OX	shoreline of islands	7.3
	#		roads "streams	3.6
Sanara at	tatut	A m	iles of area	6.8
odmase a		.		
Sheet E.			·	
		-		30'0
Statute !	niles	of	snoreline	13.5
11	#	17	shoreline of islands roads	3.4
	17	17	roads	7.0
17	**	17	streams	
equare si	catut	e m	les of topography	

PLANE TABLE POSITIONS:	(SHEET A)	T-459	3

PLAN:	E TABLE POSITIONS:	(SHEET	A) T-459	3	
Name	& Description	LAT.	D.M.	LONG.	D.P.
AMY	w.w. rock	38 36*	308 (1542)	123 21	1252 (200)
BET	W.W.	38 36	137 (1713)	123 21	935 (517)
CUD	pole and ban r.	38 35*	1619 (231)	123 21	591 (861)
GAB	SW gable, barn	38 36	38 (1812)	123 20	1417 (35)
DIG	w.w. on bluff	38 35	1576 (274)	123 21	71 (1381)
EVA	w.w. on bluff	38 35	1399 (452)	123 20	1323 (129)
POP	w.w. top of bluff	38 35	926 (924)	123 20	917 (535)
GAG	ban'r on point	38 35	451 (1399)	123 20	731 (721)
HAM	w.w. top of bluff	38 3 5	106 (1744)	123 20	430 (1022)
IKE	w.w. large rock	38::34	1464 (386)	123 20	306 (1146)
JOY	w.w. large rock	381.34	1121 (729)	123 20	405 (1047)
KID	W.W. and ban'r.	38 34	663 (1187)	123 20	474 (978)
LEO	w.w. rocky mass	38 34	523 (1327)	123 20	60 (1392)
NEW	small w.w.	38 34	22 (1626)	123 19	1200 (253)
OID	small w.w.	38 34	56 (1794)	123 19	1022 (430)
BIC	small w.w.	38 33	1803 (47)	123 19	1047 (406)
REC	bow of wreck	38 53	1598 (252)	123 19	829 (624)
PAĎ	w.w. on bluff	38 33	1614 (236)	123 19	684 (769)
MAY	w.w. low on bluff	38 33	1150 (700)	123 19	157 (1296)
Que	peak of rock	38 33	1024 (886)	123 18	1437 (16)
RAM	peak, white rock	38 33	973 (877)	123 18	1324 (129)
SIP	w.w. near Lw.	38 33	736 (1114)	123 18	820 (633)
TUD	w.w. on shack	38 33	707 (1143)	123 18	516 (937)
UKE	w.w. on point	38 33	342 (1508)	123 18	456 (997)
V IM	w.w. on bluff	38 32	1563 (287)	123 18	45 (1408)
WED	w.w. on bluff	38 32	1080 (770)	123 17	794 (659)
YID	bushy tree	38 32	1059 (791)	123 17	660 (793)
					-

PLANE TABLE POSITIONS: (cont.)

SHEET	A	(cont.) -	T-4	59	13
	_		•	ı r	_	_

Nan	me & Description.	LAT.	D.M.	LONG.	D.P.
ZAI	W.W. poles	38 32	861 (989)	123 17	522 (931)
ABE	www. on point	38 32	753 (1097)	123 17	257 (1196)
BUN	w.w. on low point	38 32	317 (1533)	123 16	1286 (167)
COM	Small w.w. on blui	ef 38 32	238 (1612	123 16	988 (465)
DOT	w.w. on point	38 31	(161)	123 16	960 (493)
EBA	. w.w. post	38 31	(10)	123 16	640 (813)
SHE	EB. T-459	4			
EB♠	w.w. post	38 31	1837 (10)	123 16	640 (813)
FIT	w.w. on point	38 31	1560 (287)	123 16	296 (1158)
GOD	tripod	38 31	1007 (843)	123 16	94 (1360)
HAT	w.w. top of bluff	38 31	913 (937)	123 16	00
IMP	w.w. on bluff	38 31	679 (1171)	123 15	1204 (250)
JAM	w.w. on bluff	38 31	477 (1373)	123 15	1035 (419)
KEN	w.w. on point	38 31	47 (1803)	123 15	603 (851)
LAP	tripod on point	38 30	1213 (637)	123 14	1370 (84)
GAB	E. gable of shed	38 30	1412 (438)	123 14	1240 (214)
ned	w.w. on point	38 30	1339 (511)	123 14	910 (540)
OX	w.w. on point	38 30	1182 (668)	123 14	705 (749)
PIG	w.w. on point	38 30	1101 (749)	123 14	535 (919)
RAT	ban'r. on knoll	38 30	1107 (743)	123 14	226 (1228)
SAM	w.w. on bluff	38 30	738 (1112)	123 14	20 (1434)
TID	tide gauge tower	38 30	1460 (390)	123 14	1074 (380)
MIN	cloth on shed	38 30	1408 (442)	123 14	950 (504)
TOP	pole and banner	38 30	415 (1435)	123 13	1140 (314)
UMP	w.w. at top of bluf	f 38 30	383 (1467)	123 13	1061 (393)
VAG	w.w. on bluff	38 30	282 (1568)	123 13	873 (581)

PLANE TABLE POSITIONS: (cont.)

SHEET I	B. (cont.)	T-45	-94
~ *********	Market Street	Contract Con		

Name	& Description.	LAT.	D.M.	LONG.	D.P.
WIN	w.w. top of bluff	38 30	81 (1769)	123 13	504 (950)
AL	w.w. edge of bluff	38 29	1813 (37)	123 13	249 (1205)
BEN	w.w. slats	38 29	1822 (28)	123 13	40 (1414)
CAL	w.w. shale bluff	38 29	1836 (14)	123 12	1214 (240)
DAD	w.w. rock on bluff	38 29	1664 (186)	123. 12	1036 (418)
ETA	w.w. rock on bluff	38 29	1591 (259)	123 12	931 (52%)
FOX	w.w. cairn	38 29	1486 (364)	123 12	683 (771)
GUS	w.w. low on bluff	38 29	1390 (460)	123 12	380 (1074)
HER	w.w. on bluff	38 29	1284 (566)	123 12	197 (1257)
ISM	w.w. on bluff	38 29	1026 (824)	123 11	1351 (103)
JAN	small w.w. near HW	38 29	965 (885)	123 11	1216 (238)
KIT	w.w. pin. rock	38 29	884 (966)	123 11	1065 (389)
LEN	w.w. large boulder	38 29	748 (1102)	123 11	780 (674)
MAT	w.w. low on bluff	38 29,	520 (1330)	123 11	477 (977)
NOB	w.w. on bluff	38 29	404 (1446)	123 11	305 (1149)
os	w.w. on beach	38 29	312 (1538)	123 11	183 (1271)
PEN	w.w. low on bluff	38 29	213 (1637)	123 10	1380 (74)
REX	highest point of	38 28	1840 (10)	123 10	1293 (161)
SIN	double banner	38: 28	1582 (268)	123 10	907 (548)
TEE	highest part of nub	38 28	1304 (546)	123 10	612 (842)
UP	w.w. on high point	38 28	1256 (594)	123 10	517 (937)
VAN	w.w. top of point	38 28	1011 (839)	123 10	188 (1266)

PLANE TABLE POSITIONS: (cont.)

SHEET C

Name	& Description.	L	T.	D.	M.	LO	TG.	D.	P.
POT	highest part of nub	。 38	28	327		123	09	1160	(294)
AXE	w.w. top of bluff	38	28	248		123	09	1057	(397)
BUG	tripod near end of	38	28	100		123	09	575	(879)
CAD	double banner	38	27	1710	(140)	123	09	441	(1013)
DIP	W.w. near top of bluff	38	27	1326	(524)	123	80	1324	(130)
END	w.w. peak rky. pt.	38	27	955	(895)	123	80	1031	(423)
FIN	tripod on point	38	27	773	(1077)	123	80	767	(689)
GUM	highest point rky.	38	27	594	(1256)	123	08	794	(662)
HAD	w.w. rocky mass	38	27	624	(1226)	123	80	300	(1154)
IKE	odd shaped pinnacle	38	27	392	(1458)	123	80	179	(1276)
JOB	w.w. peak of rock	38	27	368	(1482)	123	07	1286	(169)
KID	end of breakwater	38	27	122	(1728)	123	07	1165	(290)
LOT	SW corner gas sta.	38	27	102	(1749)	123	07	650	(805)
MAX	w.w. on bluff	38	26	1314	(536)	123	07	742	(713)
NIB	small w.w. on bluff	38	26	999	(851)	123	07	759	(696)
PAT	w.w. near HW,	3 8	26	909	(941)	123	07	689	(766)
SAP	w.w. on bluff	38	26	559	(1291)	123	07	411	(1044)
TEX	w.w. low on bluff	38	26	202	(1648)	123	07	341	(1114)
UN	w.w. on nub.	38	25	1832	(18)	123	07	345	(1110)
ROB	w.w. on bluff	38	26	829	(1021)	123	07	534	(921)
VEX	w.w. on bluff	38	25	1558	(292)	123	07	322	(1133)
WAD	w.w. rocky mass	38	25	1111	(739)	123	06	1165	(286)
YUM	w.w. rky. mub	38	25	540	(1310)	123	06	1037	(418)
ZIP	w.w. rock in fiels	38	25	548	(1302)	123	06	828	(627)
TA	W.w. on fence	38	25	208	(1642)	123	06	608	(847)
BEG	w.w. on bluff	38	25	00		123	06	346	(1109)

PLANE TABLE POSITIONS: (cont.)

SHEET C. (cont.)

Name	& Description	LAT.	D.M	[<u> </u>	LON	īG.	D.	P.
DED	w.w. top of bluff	38 24	1396	(454)	123	06	68	(1387)
eat	w.w. on bluff	38 24	1086	(764)	123	05	1390	(65)
PIG	w.w. on red bluff	38 24	726	(1124)	123	05	1285	(170)
hut	w.w. post on beach	38 24	194	(1665)	123	05	1112	(344)
JAP	w.w. in field	38 24	139	(1711)	123	05	939	(517)
COP	peak offlying rock	38 24	1258	(592)	123	90	791	(665)
KIM	w.w. on bluff	38 23	1650	(200)	123	05	882	(574)
LEP	sign on point	38 23	1340	(510)	123	06	1037	(419)
MAB .	w.w. on point	38 23	1202	(648)	123	05	1006	(450)
NIG	cloth on RAR shack	38723	1275	(575)	123	05	662	(794)
OAK	SW gable large barn	38 23	1210	(640)	123	05	49	(1407)
POT	w.w. edge of bluff	38 23	974	(876)	123	05	251	(1205)
RAP	w.w. targe rock in	38 23	672	(1178)	123	04	1081	(375)
SUM	field. double banner	38 23	281	(1569)	123	04	1451	(5)
STY	W gable large barn	38 23	12	(1838)	123	04	874	(582)
TAR	w.w. on large rock	38 22		(50)	123	04	1327	(129)
SHEE	P D							
ACE	w.w. on point	38 22	940	(910)	123	03	987	(469)
	w.w. on sharp point						808	
COM	w.w. on large rock	38 22	361	(1489)	123	03	675	(781)
DIG	w.w. rock on beach	38: 22	169	(1681)	123	03	473	(983)
ROCK	large rock crest of	38 22	8	(1842)	123	30	629	(827)
est	pole and slats	38 21	1341	(509)	123	03	130	(1327)
FIG	w.w. sharp point	38 21	1072	(778)	123	03	72	(1385)
GAB	w.w. top of bluff	38 21	. 803	(1047)	123	02	1441	(16)
HIS	pole and slats	38 21	. 266	(1584)	123	02	1413	(44)

PLANE TABLE POSITIONS: (cont.)

SHEET D. (cont.)

Name	& Rescription.	L	IT.	D.N	[,	LOI	TG.	I	.P.
ISM	pole and slats	38	20	1679	(171)	123	03	44	(1413)
TANK	black tank	38	20	1843	(7)	123	02	1091	(366)
JIM	pole and slats	38	20	1123	(727)	123	03	40	(1417)
KID	log and slats	38	20	641	(1209)	123	03	9	(1448)
LEX	pole and slats	38	20	130	(1720)	123	03	130	(1327)
BARN	Wgable of barn	38	20	442	(1408)	123	92	566	(890)
MUG	pole and slats	38	19	1519	(331)	123	Q3	237	(1220)
nup	pole and slats	38	19	1052	(798)	123	03	394	(1063)
OM	ban'r. and w.w.	38	19	718	(1132)	123	Q3	, 887	(571)
PIG	tripod highest part	38	19	578	(1272)	123	Q3	822	(636)
RAT	of point. w.w. on bluff	38	19	326	(1524)	123	Q 3	584	(874)
SAM	pole and banner	38	19	68	(1782)	123	03	426	(1032)
DUCK	duck blind	38	19	1104	(746)	123	20	284	(1174)
TOW	white water tower	38	19	1654	(196)	123	01	1131	(326)
FLAG	flag pole school	38	19	1270	(580)	123	01	723	(734)
SIGN	yard. small sign top of	38	19	446	(1404)	123	01	128	(1330)
ŤIP	kholl w.w. side of hill	38	18	1550	(300)	123	03	131	(1327)
ĦI	w.w. and tripod high	-38	18	1288	(562)	123	02	1339	(119)
BAN	est part of head. pole and banner	38	18	1000	(850)	123	02	1395	(63)
NUB	peak of red nub.	38	18	593	(1257)	123	02	1270	(189)
COM	peak of cone shaped pinnacle rock	38	18	371	(1479)	123	02	1289	(170)
TRI	tripod on bluff	38	18	391	(1459)	123	02	1246	(212)
RED	red water tank	38	18	399	(1451)	123	03	1126	(332)
LUG	w.w. top of bluff	38	18	128	(1722)	123	03	978	(480)
KIM	w.w. and tripod	38	17	1830	(20)	123	03	741	(717)

PLANE TABLE POSITIONS: (cont.)

SHEET D. (cont.)

Name	& Description.	LA	T.	D.	м	LON	G.	I	.P.
JIT	double banner	38	17	1741	(109)	123	03	615	(843)
IT	w.w. on bluff	38	18	4	(1846)	123	03	37 7	(1081)
HAM	signal cloth on	38	17	1832	(18)	123	03	292	(1165)
GOD	stakes tripod top of bluff	38	18	129	(1721)	123	03	185	(1273)
Fop	banner in bush	38	18	299	(1551)	123	03	134	(1324)
ETA	w.w. on point	38	18	3 93	(1457)	123	03	161	(1297)
DOG	w.w. on point	38	18	556	(1294)	123	03	405	(1053)
CAT	benner in bushes	38	18	853	(997)	123	03	648	(810)
B E	SW tree on beach	38	18	1237	(613)	123	03	948	(510)
ΑŦ	N'ly tree on bluff	38	18	1398	(452)	123	03	972	(486)
WI V	banner on sand spit	38	18	1222	(628)	123	03	234	(1224)
UP	w.w. boards	38	18	1398	(452)	123	02	1341	(117)
TAR	starboard half of	38	18	1576	(274)	123	02	968	(490)
SAP	old skiff tripod	38	18	1607	(243)	123	02	421	(1137)
ŔĂM	double banner	38	18	1487	(363)	123	01	1365	(93)
QUE	stone chimney	38	18	1693	(157)	123	01	1116	(342)
PAT	windmill	38	18	1676	(174)	123	01	1071	(387)
NED	pole and slats	38	18	1377	(473)	123	01	1001	(457)
MAN	barrel and boards	38	18	124	1 (609)	123	01	671	(787)
OUT	W gable of S barn	38	18	1377	(473)	123	01	344	(1114)
LAP	w.w. top of bluff	38	18	1045	(805)	123	01	381	(1077)
KIP	w.w. on bluff	38	18	886	(964)	, 123	01	176	(1282)
Jan	peak large pinnacle	38	18	808	(1048)	123	01	26 5	(1195)
IMP	w.w. on boulder	38	18	731	(1119)	123	01	4	(1454)
нот	w.w. and banner	38	18	654	(1196)	123	00	1308	(151)

PLANE TABLE POSITIONS: (cont.)

SHRET D. (cont.)

NAME	& DESCRIPTION	L	AT.		D.M.	LO	NG.	D	.P.
cus	banner top of bluff	· 38	18	54.5	(1305)	123	00	1164	(294)
FIN	w.w. boards on fend	e38	18	389	(1461)	123	00	979	(479)
RAT	peak of rock	38	18	211	(1639)	123	00	1049	(409)
DED	pripod top of bluff	38	17	1804	(46)	123	00	567	(891)
COD	peak thumb shaped	38	17	1658	(192)	123	00	741	(717)
BUN	w.w. on bluff	38	17	1594	(256)	123	00	386	(1072)
ABE	w.w. peak of rock	38	17	1272	(578)	123	00	104	(1354)
SHEE	TE.								
AX	w.w. peak of rock	38	17	895	(955)	122	59	1436	(22)
BUG	w.w. large rock	38	17	580	(1270)	122	59	1112	(346)
CAT	w.w. low on point	38	17	52	(1798)	122	59	924	(534)
DOG	w.w. top of rock	38	16	1737	(113)	122	5 9	662	(796)
EVA	w.w. below bluff	38	16	1403	(447)	122	59	326	(1132)
GUS	w.w. fence post	38	16	1175	(675)	122	59	224	(1234)
PIN	peak of pin. rock	38	16	1136	(714)	122	59	705	(753)
HIP	w.w. on sharp ridge	38	16	938	(912)	122	59	292	(1166)
IRA	w.w. on outgrop	38	16	808	(1042)	122	59	189	(1269)
BAG	w.w. peak of nubl	38	16	609	(1241)	122	58	1302	(156)
KIP	w.w. on rock	38	16	452	(1398)	122	58	1153	(305)
LAP	w.w. on bluff	38	16	29	(1821)	122	58	896	(562)
MAY	peak of S pin. rock	38	15	1755	(95)	122	58	1047	(411)
No	w.w. on boulder	38	15	1536	(314)	122	58	595	(863)
PUP	peak prominent rock	38	15	1402	(448)	122	58	776	(682)
QUE	peak of rocky mub	38	15	1286	(564)	122	58	587	(871)
RAM	w.w. large boulder	38	15	1042	(808)	122	58	288	(1170)

PLANE TABLE POSITIONS: (cont.)

SHRET E. (cont.)

NAME	& DESCRIPTION	LA	т.	D. H.		LON	LONG.		D.P.	
SIR	w.w. on rocky point	38	, 15	629	(1221)	122	58	2 7 0	(1189)	
TUG	W gable of NW cabin	38	15	209	(1641)	122	57	1446	(13)	
UP	W gable of SW cabin	38	15	77	(1773)	122	5 7	1406	(53)	
Van	green nub peak of hi	11	14	923	(927)	122	57	774	(685)	
WAD		38 38		284	(1568)	122	58	361	(1098)	
ox	pole and slats	38	13	1686	(164)	122	58	300	(1159)	
YID	banner on bluff	38	14	21	(1829)	122	5 7	348	(1111)	
ZEB	chimney lone shack	38	13	1283	(567)	122	5 7	140	(1319)	
AMY	banner on log	38	13	781	(1069)	122	57	99	(1360)	
BAD	w.w. low on point	38	13	314	(1536)	122	5 7	283	(1177)	
CAN	duck blind	38	13	267	(1583)	122	57	1036	(424)	
DAM	sign on ridge	38	12	1730	(120)	122	57	117	(1343)	
ES	small out-house	38	13	237	(1613)	122	56	549	(911)	
BAL	w.w. on top of bluft	f38	12	1395	(455)	122	56	112	(1348)	
ONE	duck blind	38	12	1219	(631)	122	55	1220	(240)	
TO	duck blind	38	12	968	(882)	122	55	1364	(96)	

The hydrographic names were given in the list of plane table positions. SHEET A. 4593

GAG Tripod and slats.

In the center of a grass covered point called Neck Bluff.

The standard disc marker was set in a rock embedded under the signal

At approximately the center of a sandstone point. Standard disc set in cement at center of signal.

ZAB Poles and Slats
At the end of the point at the north end of Stillwater Cove.
Standard disc set in cement at center of signal

SHERT B. 4594

Hat. W.W.

At the top and at the edge of the bluff line. Stand disc set in drill hole at center of signal

Ben Slat Signal.

At the top and edge of the bluff line. Stand. disc set in cement in boulder under signal.

SHEET C. 4595

ر رخ

JOB W.W.

At the peak of the large rock on the sand beach just north of the mouth of the Russian River. Stand. disc set in cement at the peak of the rock

DESCRIPTIONS OF MARKED TOPOGRAPHIC SIGNALS SHEET "D" 1930.

- ACE W. W. On point at south end of short sand beach. Marked by stand. disc set in cement at S. end of signal.
- Bug W. W. On small sharp point, Signal at the egge of bluff line on sandstone. Marked by ten penny nail set in cement. Nail projects 1"
- CON W. W. At the top of the W. end of the largest rock in this vicinity.

 The rock is accessible from the beach at stide or less. Signal was not marked.
- pig w. w. At top of pinnacle rock on beach. The rock is approximately 20° high. Signal is marked by stand. disc set in cement on SW face of top of rock.
- AMOS Triangulation.

KID

٠

- EST W.W. POLE AND SLATS Six paces back of bluff line and 14 paces W of road. Signal marked by stand. disc set in cement and rocks at base of pole.
- FIE W. W. On prominent sharp point . signal is directly above the HW line (elev. 20') Marked by ten penny nail set in cement.
- GAB W. W. On face of peak of rock projecting above bluff line. Concrete culvert under road just back of signal. Signal marked by stand. disc set in cement at top of rock.
- HIS POLE AND SLATS On sand beach south of Salmon Creek. At edge of line of grass and dunes. The signal is built against the 7th post of a barb wire fence. A triangle of 12 small nails was driven in post.
- TANK BLACK WATER TANK Cut in by triangulation.
- ISM POLE AND SLATS A large chest and small boxes filled with sand brace signal. A 1x6 pine board was nailed on fence 77 paces -99- with MOAN. Board marked by triangle of 12 nails.
- JIM POLE AND SLATS Pole nailed to $2\frac{1}{4}$, length of 12"x12" buried in sand and braced by 2 boxes filled with sand. A stake projecting 2, marked by triangle of nails set 40 paces back of signal in range with MOAN.
 - LOG AND SLATS Signal built around an upright log 4ft long by $2\frac{1}{2}$ ft in diameter. Stake marked by triangle of nails set 31 paces back of signal in range with SAND HILL2.
- LEX POLE AND SLATS Signal nailed to log loft long by 2ft in diameter. A stake marked by a triangle of nails set back of signal 64 paces in range with MOAN.
- MUG POLE AND SLATS Signal nailed to log 12ft x $2\frac{1}{2}$ ft in diameter. A stake was set back of the signal 41 paces in range with MOAN

ی

- NUT POLE AND SLATS Signal nailed totlog 7 ft long by 2 ft in diameter.

 A stake marked by triangle of small nails was set 34 paces back of signal in range with MOAN.
- ON BAN. AND W.W. At the NW point of Bodega Head. A sandy bluff approx. 12 ft. high runs along NW side and near signal. Signal marked by stand. disc set in cement in rock embedded in ground.
- PIG TRIPOD Near highest part of NW corner of Bodega Head. Stand. disc set in rock and cement under signal.
- PAT W. W. Seven ft below bluff line on rotten granite bluff. Marked by nail set in cement projecting l".
- SAM POLE AND BAN About 50 m. north of extreme NW point at entrance of small cove. near bluff line. Marked by stand. disc set in outcrop of rotten granite.
- TIP W. W. On face of large rock in pile of rocks on side of hill.

 Marked by nail set in cement under the signal.
- HI TRIPOD AND W.W. On outcropping rocks at the highest part of Bodega Head. Stand Disc set in cement under signal.
- BAN: POLE AND BAN. Approx. 50 m. North of fence and at edge of bluff line. Stand. disc set in cement and rock at base of pole.
- NUB PED NUB Prominent reddesh nub. Not marked.
- CON PEAK OF ROCK The highest point of a prominent cone shaped rock.
- TRI TRIPOD 150 m. south of small stream near bluff line. Marked by stand. disc set in cement under signal.
- PED WATER TANK Near deserted ranch buildings.
- ING W.W. AT top of bluff. Bluff line at this point makes a 45 bend to SE for approx. 40 m. Marked by stand. disc set in cement above signal.
- KIM TRIPOD AND W.W. AT top of bluff. Stand. disc set in cement under tripod.
- JIT BAN. Double banner 12 ft. below bluff line on side of sandy clay bluff. Stake with triangle of 3 nails set 10 m. back of signal in range with the tip of Pt. Rayes.
- IT W. W. On face of rotten granite bluff. Stand. disc set in cement in center of signal.
- BAN. Signal cloth streched between stakes., 30 ft. below top of bluff. A stake set back of signal in range with the left tangent of Bodega Rock, marked by 6 nails in triangle. Another stake 26

paces E on range with Pt. Reyes tangent is marked by triangle HAM (con.) of 3 nails.

At top of bluff . Stake with triangle of 5 nails driven GOD TRIPOD 2 m. back of signal in range with Dillon Beach houses.

Nailed to bush at edge of bluff. Stand. disc set with BAN. FOP cement in rock 1.5 m. back of signal in range with BODEGA.

At end of narrow point. Ten penny nail set with cement ETA in rotten granite marks signal.

At end of a narrow point. A stake was driven 3 m. back of DOG W. W. signal, marked by triangle of nails. A lon e fence post marked by triangle of nails is bbout 50 m W. of signal.

Mailed in a thicket of willow bushes. A larger willow CAT BAN. tree back of signal and 12 ft below top of bluff was blazed with 2 triangles.

SW'ly of several trees on beach. BE TREE

TPRE N'ly tree on bluff. ΑT

Old duck blind. DUCK Duck BLIND

W'ly gable of barn. BAPN

White water tower. Cut in by triangulation. TOW

White flag pole in front of school house. FLAG

Small sign at top of mound. SIGN

20 paces E of end of dunes and brush on sand spit. Signal MIV BAN. anchored by stakes. A Stake marked by a triangle of nails projecting 1' set 9' N of signal.

W.W.BOAPDS White washed boards anchored by short log and can and boxes UP filled with sand. Stake projecting l' marked by triangle of nails marks center of sighal.

The starboard half of an old skiff 15' long supported and TAR anchored to 3 boxes filled with sand. Stake projecting l' marked by triangle of nails marks center of signal.

A 12' tripod constructed of assorted kinds of lumber and SAP TRIPOD cloth. A stake marked with triangle of nails marks center of signal.

A double banner on a 14' 2x4 anchored to stakes and 2 boxes RAM BAN. and a small barrel filled with sand. No mark otherwise.

CHIMNEY Stone chimney on house. QUE A

PA

PAT WINDMILL On side of hill below houses.

DOLE AND SLATS A 12' 8x8 with slats anchored to stakes and sand filled boxes. Stand. disc sec in cement slab in top of tin can, under signal.

MAN BOAPDS A barrel and boards nailed to a 8' length of lox10 anchored horizontally on beach by stakes. A round stake, 2" in diameter was driven 1' back of signal. Stake marked bu triangle of nails in head of stake.

OUT Barn W gable of S'ly of two large barns,

LAP W. W. AT top of bluff. Harked by stand, disc set in cement in crack in rock.

JAN Highest point of large pinnacle rock.

KIP W.W. On bluff ?' below top, on fairly loose brown rocks. Marked by nail set in cement.

IMP W. W. On face of rock about $\frac{3}{2}$ of distance from top of bluff to HW. Marked by a stand. disc set in cement at top of rock.

HOT White wash on a small rock with signal cloth fastened to stakes back of rock.

GUS BAN. At top of bluff. Stand disc set in cement at base of pole.

FIN BOARDS Nailed to last post of fence ending at bluff line. A triangle of nails was placed on a post 8° back of signal along fence.

Eat Highest point of a prominent rock.

COD __ Hoghest point of a prominent thumb shaped rock.

DED TRIPOD Constructed of fence rails., at top of bluff. A stand disc set in cement under signal.

BUN W.W. On face of bluff 20ft above HW. A stand disc set in cement under signal.

ABE W.W. At highest point of prominent rock south of Estero Beach.

٠

W.W. At the highest point of a large jointed rock. This rock is the inshore one of three large rocks and is easily recognized on account of its peculiar color and structure. It can be approached at ½ tide and is fairly easily climbed on the south face.

>

BUG W.W. On the face of a large flat rock at the top of bluff. Stand. disc set at top of rock at the SW corner.

CAT W.W. Low on a yellow shale point. Best approached by following down backbone of ridge then to the N side of rocks out to signal. Stand. disc set in cement on NW face of signal.

DOG

W.W. At the top of a sharp rock, near the bottom of and the most prominent of a number of loose boulders at this point. Stand. disc set on top of rock.

EVA W.W. On rocky outcrop below upper bluff line. Stand. disc set in cement above signal.

FIG The highest point of a very prominent pinnacle rock.

GUS W.W. On a braced fence post.

HIP W.W. On a loose rocky backbone., A little below and in front of the highest part. Stand. disc set is coment at signal.

IRA W.W. On outcrop of rock back from HW. Ten penny near set in cement marks signal.

BMG W.W. At the peak of the first sharp rocky backbone north of Stemple creek. The peak is reached over a lower sharp hogback. Stand. disc set in cement marks signal.

KIP W.W. On rock joined to shore by a narrow sharp ridge. Stand. disc set in cement at top of signal.

LAP W.W. About 25' below and 20 m. out and to 3 of a rounded clay nub. A ten penny nail set in cement marks signal.

May The peak of the S'ly of two prominent rocks.

NO W.W. On a partially embedded boulder about half way between the upper bluff line and HW. The boulder is covered with grass and soil on two faces but is bare on face. Stand disc set in cement marks signal.

PUP The highest point of prominent rock.

W.W. At the highest part of a rocky nub connected to the shore by a sharp backbone. Nail set in cement at the signal.

PAN W.W. On large boulder in small depression at edge of bluff line.
Nail set in cement at top of signal.

SIP W.W. On rocky point approached over a sharp backbone. Stand. disc set in cement as signal.

Tag The W gable of the NW house at Dillon Beach.

UP The W gable of the SW house at Dillon Beach

\(\sum_{\text{---}}\)

VAN

At the highest part of Shugarloaf Hill. A dark green patch
of shrubery on top of a small dune. A stake projecting 1' was
marked by a triangle of nails and driven in center of signal.

WAD and OX No traces will be found of these signals. They were pole and slat signals built on a very changing sand beach.

YID BAN. At the top of a low bluff. The signal was marked by a a stake with a triangle of small nails.

ZEB The chimney of a lone shack near beach.

AMY BAN Nailed to log on beach. Triangle blazed in log.

BAD W.W. Low on a small dirt and rock point. Nail set in cement at signal.

DAM Sign on ridge.

CAN Duck Blind

r

ES White out house.

BAL W.W. On the face of an outcrop of rock projecting above the top of the bluff. An old stand, disc set in cement was found at the top of the fock.

ONE and TO Duck Blinds.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter AREGISTER NO. 4593

.

. 4

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO. 4594

State California

General locality Northern California

Locality Dry Creek to Timber Cove Fort Ross and Vicinity 1:5,000

Scale 1:10,000 Date of survey June - October 1:930

Vessel Shore Party Project No. 60, Combined Operations

Chief of Party L. C. Johnson

Surveyed by James N. Jones

Inked by James N. Jones

Heights in feet above HW to ground taxasystaxious

Contour Approximate contour Form line interval 20 feet

Instructions dated April 29 , 1930

Remarks:

594

₽, U) 9

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter
REGISTER NO. 4595
State California
General locality Northern California Russian River to Duncans Landing to Russian River Locality Arriv, pre mile south of Duncan Landing to Dry Creek
Scale 1: 10,000 Date of surveyJune - October, 19 30
Vessel Shore Party. Project No. 60, Combined Operations
Chief of Party L. C. Johnson
Surveyed by James N. Jones
Inked by
Heights in feet above Hw to ground KAXKAXAXXXXXXXXXX
Contour Approximate contour Form line interval 20 feet
Instructions dated April 29 , 1930
Remarks:
,

9

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO. 4596

State California

General locality Northern California

Bodega Head and Vicinity
Locality Ratero americano, Bodega Say to andy 1 mile S of Damesa Lig.

Scale 1: 10:000 Date of survey June - October 19 30

Vessel Shore Party, Project No. 60. Combined Operations

Chief of Party L. C. Johnson

Surveyed by James N. Jones

Inked by Remes N. Jones

Heights in feet above HW to ground to ground to feet

Instructions dated April 29 19 30

Remarks:

in es

.

C₂

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter

REGISTER NO. 4597							
State California							
General locality Northern California Preston Pt. Locality Humlet, Tomales Bay to Estero Americano, Bodera Bay							
Scale 1: 10,000 Date of survey June - October, 19 30							
Vessel Shore Party, Project No. 60, Combined Operations							
Chief of Party L. C. Johnson							
Surveyed by James N. Jones							
Inked by							
Heights in feet above to ground taxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx							
Contour Approximate contour Form line interval 20 feet							
Instructions dated April 29 , 19 30							
Remarks: This sheet makes a satisfactory junction with T 3840							

0

7