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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: _____

DESCRIPTIVE REPORT.

Top Sheet No. *3386*

LOCALITY:

191

CHIEF OF PARTY:

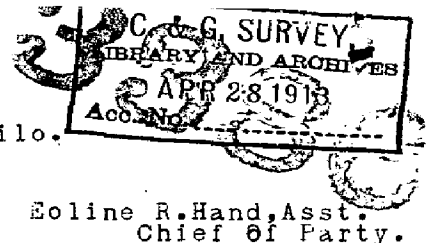
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DESCRIPTIVE REPORT.

To accompany Sheet "B", Kalihi Pt. to Paauilo.
HAWAII CO.T.H.
1913.



Eoline R. Hand, Asst.
Chief of Party.

The entire coast line, excepting where the big gulches break through, is sheer cliff of varying height up to 400 ft. and behind, the land, which is cut by frequent gulches, rises with gentle even slope to the mountain; every available bit of land, from the actual cliff edge to the timber line, is cane covered.

A fringe of evergreens will be seen along cliff edge in places. These were planted to protect the cane from the N.E. trade.

No offlying dangers were found in the steamer track: they generally pass close in. The landings however should be approached with caution, ~~Honohina~~ and Laupahoehoe especially.

There is a derrick landing at Honohina and an inclined railway, belonging to Hakalau Plan. Co. There is an excellent derrick landing at Laupahoehoe: small boats can here make a landing at almost any time, passing up under the lee of the rock point on which the derrick and freight house are situated. The next landing is at Ookaka, this is the highest cable landing in the island, the cliffs here being 360 ft. Here are five mooring buoys, the four outer are red cans, centre is spar. Vessels moor fore and aft, the cable passes from cable house ashore athwartships and is made fast to centre buoy. vessel thus rolls freely beneath cable. Two tons are about the limit, heavier freight is handled at the derrick landings.

There is a derrick landing at Kukaiao, and an inclined railway to top of cliffs. Also one mooring buoy, red can.

There is an excellent landing at Koholalele Landing. small boats lie at the derrick pier and have a lee from the N.E. trade. This is an excellent place for getting ashore since the inclined c.r. cut offers easy access to top of cliffs. One mooring buoy, red can.

There is a rumor that this landing will be abandoned, because the railroad is going to handle all freight.

The Hilo Railroad traverses entire sheet. Paauilo is the terminus. there is no present intention of extending it farther, one reason being that the plantations beyond could give no business, having contracts with the Inter Island S.S. Co for several years ahead.

A light is at Laupahoehoe, fixed white, 34 ft. this is to be replaced by an automatic light but there is no authority as to when it is to be done or where placed.

There are two arc lights at Paauilo mill which navigators find useful, they are behind the mill as indicated by red dots.

One is at end of roof, other is at junction of wagon and rail roads near office door, Approx. height, 240 ft. they are shining whenever mill is running, Jan. to about August.

At one or two places there will be noticed a paucity of inshore hyd. signals. This was unavoidable on account of extreme difficulties encountered in locating shoreline.

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Eoline R. Hand
Asst., U.S.C. & G.S.

LIST OF POSITIONS
To accompany Sheet 'B', Kalihi Pt. to Paauilo
HAWAII CO. T.H
1913

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Edline R. Hand, Asst. Chief of Party.

Name	φ	D.M.	λ2	D.R.	Hei.	Description
Coale	19 55	1218 630	155 09	682 1063		Tallest flagpole at Hanahina, in yard of labor camp.
Hon	19 55	1164 631	155 09	764 987	170 ground	Stack at cable house, upper end track, Hanahina.
Sube	19 55	1255 3300	155 09	578 1167	#25	Paint on cubical cliff corner at landing, Hanahina.
Fall	19 56	1655 1655	155 09	1644 681	50	Overhanging cliff edge at water-fall, outermost part Mahaku Pt.
Go	19 56	1400 1400	155 09	1524 219		Gable fine appearing yet house, red roof, close up to RR and on W. edge of gulch.
Point	19 56	1071 1071	155 10	352 1353	0	Outermost end sharp point, H.W.M. Cliffs slopes evenly from 230ft. to station.
Cross	19 56	1015 830	155 10	488 1227	230	Cross of wh. point on sea end long, narrow, low stack, stable, on edge cliff above a point
Yard	19 56	1120 726	155 10	649 1240		N.W. gable RR stand, R.O. at Hanalei; green, white trimmed.
Ref	19 56	1453 333	155 10	883 883		Outermost perp. cliff edge: perp. halfway, then slope to top, as sketched
Wing	19 57	214 1651	155 10	1412 333	15	Outermost point: gentle slope to top cliffs, 220ft. the NWly one of 2 points close together
Oray	19 57	195 1350	155 11	216 1347	280 approx	Sea end of church on lower side road, 400 m. E. of tunnel.
Bas	19 57	1405 1405	155 11	56 1657	0	Bottom of cascade, below church, Oray.
Hi	19 57	1245 1245	155 11	988 345	345 approx	W. end immense three story unpainted structure on road close to Maulua gulch; formerly bridge workers' office + dorm.
Wat	19 57	1816 1029	155 11	943 0	0	Base of water fall below "Hi."
Spot	19 57	972 972	155 11	1271 324	10	Large grey spot on cliffs at E. end sand beach, Maulua Gulch.
Shed	19 57	1242 883	155 11	1541 204		Shed on W. slope Maulua gulch, between R.R. and beach.
Long	19 58	1341 1341	155 12	811 924	330 ground	Large whitewashed house: long, low wing: sketch.
Smoke	19 58	1200 645	156 13	120 1625	300 ground	The slender stack at group with bids (Kaiwika/Isle) East Papoia mill, red water tank to W. ward.
Train	19 59	1353 1353	155 14	208 1535	420 ground	Flag staff on Laupohoe hse R.R. Sta.
Rock	19 59	873 773	155 14	873 871	15-20	Point on rock S.E. end beach, Laupohoe
Green	19 59	1107 738	155 14	983 873	25-30	Sea end green house on beach "
No.6	19 59	1480 368	155 14	1150 599	15-20	Point on rock, W. side creek mouth, "
Yid	19 59	1528 377	155 14	1402 342		" " cliff, "
Una	19 59	1407 338	155 15	102 1642	350-75 ground	Sea end big red ho. cream trimmed, W. side gulch, Waipuna lei.
Turne	20 00	100 1745	155 15	282 1462		Point where two flumes join, dumping cone into canal inclined railway.
Round	20 00	882 563	155 15	1347 397	220 approx	Large circular spot (2's) point on back small stable, corr. iron sides: if removed, use ho. room, take on slope of gulch.
View	20 00	608 1270	155 15	1086 649	290 ground	Sea end pretty green stained cottage, setting high on slender posts: has water tank: view from ENE
Stack, Okaia	20 01	1402 1443	155 17	268 1478	410 base	Stack at sugar mill, Okaia
Vir	20 01	642 1203	156 17	253 1491	3-5	Outer end rocky ledge just below cable hoist building, Okaia.
Alt	20 01	1842 863	155 18	32 712	700	Highest cliff point between Okaia and Kukaia; from sea appears as great triangle rising to sharp apex as sketched. The rim cut is close to edge and left several, tall, thin shafts of rock: highest is station.
San	20 01	1808 37	155 18	1246 498	5	End long, narrow, flat point.
Long	20 02	297 1548	155 19	166 1578	5	End " " " similar to o'San"
Punt	20 02	463 1392	156 19	942 782		End sharp point W. side gulch with wooden trestle.
Slice	20 02	723 1121	156 19	1649 73	330	Highest point of long, thin slice of cliff formed by m.m. cut.
Rick	20 02	1255 590	156 20	455 1249	10-15	Derrick at base of inclined railway, Kukaia.
Ass	20 02	1329 516	156 20	776 468		Perp. cliff edge at point
Niss	20 02	1656 159	156 20	1273 471		" " " " "
Gun	20 02	1758 87	156 20	1382 362	10-15	Jagged nose of rock at point: where sloping cliff becomes perp. as sketched
Dir	20 03	226 1619	155 20	1557 187	12	Truncated hex. Pyramid, cement, smaller, lower and outermost of two. Anchor for derrick, 944, Kahoalale Landing.
Nit	20 03	198 1647	156 21	90 1654		Outermost perp. cliff edge at point
Sen	20 03	261 1083	156 21	602 1142	15-25	Beak of rock at outermost point, as sketched: cemetery above.
Mat	20 03	450 1395	156 21	1007 737	10	Point at base of cliffs at point.
Lin	20 03	654 1247	156 21	1212 332		Outermost perp. part of cliffs at base at point below Paauilo Mill.
Stack, Paauilo	20 03	440 1408	156 21	1338 406	210 base	Larger of two stacks on Paauilo Mill. If single stack is there, use seaward gable out mill. There is talk of changing stacks
End	20 03	763 1082	156 21	1675 69	100-30	Spot of whitewash made by pouring over cliff edge.

