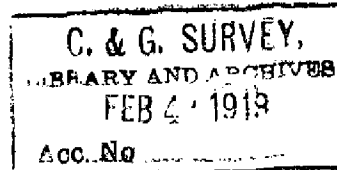




Top 3309.
3309



Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: T.A.

DESCRIPTIVE REPORT.

Top Sheet No. 3309

LOCALITY:

Keolu Bay; Kalihi Pt.,
to Lelani Pt.

1902

CHIEF OF PARTY:

E. R. Hand

3309

3302

No magnetic meridian. 500, 1000 and 1500 feet contours should be shown in heavier lines.
Names of triangulation stations should be lettered with red ink.
Canaway River should be sketched with broken lines beyond limits shown on sheet.

Examined in *Div. of Hyd'y & Top'y*

R.B.

DESCRIPTIVE REPORT

To accompany Sheet "A, Hilo"

Eoline R. Hand, Asst., Chief of Party

3309

This work extends from Leleiwi Pt. to Kalihi Pt. Hilo Bay is not shown, as a sheet, 1:10000, giving waterfront improvements since last survey, has already been sent to Office.

The shoreline from Leleiwi Pt. to Breakwater is very irregular, and there are numerous rocks and islets; it is a lava flow, level, and not over ten feet in elevation; barren for several metres inshore and then covered with grass and bushes (Pohala trees)

From Hilo to Kalihi Pt. the coast line is more regular and consists of bold cliffs which start with an elevation of 5 ft. at Hilo and gradually increase, reaching a height of 200 ft. at the point mentioned. The land has the appearance, from seaward, of a smooth gentle slope to the mountain, and is entirely covered by sugar cane.

There are no shelters, even for small boats, and it is impossible to pass along the base of the cliffs.

There are five sugar companies and five mills, as shown; each mill is close to cliff edge and each has a single immense stack which is very conspicuous from seaward. Landing and receiving freight is done in following manner:— a ship moors fore and aft by means of the four buoys shown; a cable passes from the fifth, or central buoy, over the vessel athwartships, and to a building on cliff edge; freight is hauled up or lowered by means of a car and smaller cable operated from building which houses engine and drum. Freight is also handled by means of a derrick at base of cliffs, and small boats, then hauled to top of cliffs on an inclined railway. At Pepeekeo in the cove inside the buoys, is a very small breakwater which affords protection to a ship's small boat while freight is being handled with derrick.

There is an excellent stone road paralleling shore, and also the Hilo Railroad. This latter is an admirable work of engineering, passing through deep cuts and over magnificent steel trestles. There are several trains a day; the fare is ten cents a mile first class, and eight, second.

Eoline R. Hand
Asst., C. & G. Survey.

LIST OF POSITIONS

to accompany Sheet "A, Hilo

HAWAII, 1912

3309

Eoline R. Hand, Asst. Chief of Party

Name	ϕ	D.M.	λ	D.R.	Height	Description
End	19° 55'	120	155° 08'	762		Outermost perp. cliff edge as seen from S.E. an overhanging Pohala tree. fol. wh.
Mapu	19 54	1420 1325	155 08	372 1323	40	A pohala tree on outermost point, top of perp. part, as shown marked by white paint.
Roc	19 54	800 1045	155 07	1470 1274	4	Circular rock about 50m offshore
Cor	19 54	311 1534	155 07	1500 1445	6	N. cor. stone pier on which sugar mill stands
Spot	19 54	375 1470	155 07	1145 600	15	White spot paint, outermost point at base of cliffs
Hang	19 54	170 1675	155 07	980 765		Outermost point, under overhanging Pohala trees
HaK	19 53	1568 1277	155 07	823 932	0	Outermost point at H.W.L.
Wail	19 53	914 831	155 07	828 1217		Water-fall
Lee	19 53	863 992	155 07	8470 1275	45-60	Lone pohala tree on face of cliff at outermost wedge of cliff
Wait	19 53	372 1473	155 07	553 1192	100-50	R.R. Sta. N. side of gulch at end of trestle, green bldg.
Sharp	19 53	1445	155 06	1507 1238		Hatched edge cliff point. pohala tree above
Beak	19 52	1600	155 06	1253 872	6-10	Sharp beak at hatched edge cliff point

List of positions
Sheet "A" Hilo.

(continued)

3309

155

Name	φ	D.M.	γ		D.R.	
Nort	19 44	639 1206	155	02	0 1747	N.gable of house
Cross	19 44	568 1277	155	01	1266 481	Cross cut in lava point: no further description furnished