



Top 3309
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C. & G. SURVEY,
LIBRARY AND ARCHIVES
FEB 4 1919
Acc. No.

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *T.A.*

DESCRIPTIVE REPORT.

Top Sheet No. *3309*

LOCALITY:

*Oahu Bay; Kalihi Pt.,
to Lelani Pt.*

1902

CHIEF OF PARTY:

E. R. Hand

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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

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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

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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. fair wh.
Kapu	19 54	1420 1323	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 1445	155 07	1470 1276	4	Circular rock about 50m offshore
Cor	19 54	311 1534	155 07	1500 1445	6	N. con. 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	914 331	155 07	828 1217		Water-fall
Lee	19 53	863 1192	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 1500	155 06	1507 1238		Hatched edge cliff point. pohala tree above
Beak	19 52	1600 1445	155 06	1253 1243	6-10	Sharp beak at hatched edge cliff point
Cat	19 52	1280 1388	155 06	1160 1163	10-15	A derrick on rock shelf at base of cliffs
Lift	19 52	1214 831	155 06	1231 514	155	Seaward gable of higher of two bldgs (white) on cliffs at Hononu
Fall	19 52	463 1482	155 06	375 1370	60	Waterfall
His	19 52	538 1385	155 06	1738 1588	12-15	Highest rock, dirt covered, on N.W. side of flat point, veg. line 7m. to S.W.
Hat	19 52	480 1385	155 05	1588 1588	10	Highest point semi detached rock, opposite side above mentioned point
Off	19 52	387 1385	155 05	1738 1588	5-10	" " " " "
Let	19 52	136 1709	155 05	1196 1380	3	Sharp, nose like point of rock; most extreme N.W. ly
Isle	19 51	1507 1385	155 05	981 1268		Rock about 50m. offshore
Cent	19 51	1383 462	155 05	739 1007	15	Highest point and centre of rocky ledge
Nub	19 51	544 1251	155 05	1262 1478	5-10	Highest nub of rock on S.E. side point: water perp. below: big crack on W. side
Palm	19 51	1738 1479	155 05	267 1479	75-100	Taller of 2 Coconut trees
Up	19 50	1641 1555	155 05	191 1555		S. gable big freight hoist bldg. white: has a kind of cupola
Con	19 50	589 1385	155 05	139 1607	0	Highest point flat rock, about 15' across: a wash
Flat	19 50	167 1678	155 05	268 1481	0	" " " " " " "
Drop	19 49	417 428	155 05	444 1302	0	Highest rock, a wash, directly at end of very sharp, acute cliff point.
Sat	19 49	441 1384	155 05	689 1057	4-7	Recliar-shaped rock at base cliff point and pointing seaward
Pin	19 48	1013 133	155 05	1002 737	5-10	Conspicuous Pinnacle rock
Pine	19 49	327 1458	155 06	471 1375	480	Tall, conical pine tree (redwood) at Onomea camp
Cut	19 47	1542 303	155 05	936 976		Sharp point
Wet	19 47	477 1171	155 05	823 926	45	Waterfall
Damp	19 47	313 1432	155 05	523 1222	40	Waterfall
Smoke	19 46	1749 46	155 05	712 1054		Smokestack on small bldg N.E. of mill
Cip	19 46	1483 362	155 05	782 1005		Iron pipe filled with cement
Bush	19 46	205 1640	155 05	803 944	30	Lone pohala tree out on point (a pohala tree is a palm, bare trunk, bunch leaves at top)
Red	19 44	1730 1118	155 02	1075 672		N. gable of red house

Continued

(continued)

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Nat. No.	♀	Dim	T	P.R.	
Nort	19 44	⁵⁹⁹ ₁₂₀₆	155	02	⁰ ₁₇₄₇ Ngable of house
Cross	19 44	⁵⁶⁸ ₁₂₇₇	155	01	¹²⁶⁰ ₉₈₁ Cross cut in lava point: no further description furnished
Shack	19 44	¹⁶⁸ ₁₆₇₇	155	01	⁵⁷⁰ ₁₁₇₇ Small isolated shack
Cairn	19 44	⁷⁴² ₁₁₀₃	155	00	¹⁵⁴⁷ ₂₀₃ Pile of stones: no further description furnished.