

3425

C. & G. LIBRARY AND ARCHIVES
JAN 15 1914
Acc. No.

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State:

DESCRIPTIVE REPORT.

Hilo. Sheet No. 3425

LOCALITY:

HAWAIIAN ISLANDS

HAWAII - WEST COAST

KAILUA BAY TO.

MANO PT.

1913

CHIEF OF PARTY:

11-4645

Applied to compilation 4140 J.M.A. June 1941

DESCRIPTIVE REPORT.

Juf. 3435

To accompany topographic sheet "G", Mano Pt. to Puapua Pt. Island of Hawaii.

1913.

Eoline R. Hand, Asst., Chief of Party.

This sheet rounds the most westerly point of the island, and like sheet "F", & end) consists of a succession of lava flows rising very gently to the mountain, Hualalai: these flows are of various dates; the oldest are partly covered with a very scant growth of weeds, but the more recent upper new and fresh, and are absolutely barren: the flows are readily seen to be of two different kinds: one is of cinders (native "aa"); greatly resembling blast furnace slag, and is exceedingly difficult to walk over. The other kind is hard and glazed and its minutely wrinkled surface shows most beautifully the various pourings and eddyings of the molten lava; the surface is usually deeply fissured at intervals due to sub-surface explosions. In consequence of these two kinds there are two different varieties of cliff line; in height it varies from one or two feet to not much over twenty, but the cinder kind has a jagged, crumbly sloping shore line, subject to change as the cinders are eroded by the waves: off this kind of coast there are numerous sunken rocks, and small boats should approach with caution; the other kind presents a perpendicular cliff line, or sometimes a series of terraces or steps, due to superimposed flows: off these cliffs the water is in general more free from submerged rocks, and also there is usually deep water close to.

The hard lava presents some curious phenomena: deep tunnels make in front the cliff line, sometimes many feet, and these generally terminate in a neat circular blow hole, or well, where the water may be seen to rise and fall with each recurring swell; sometimes the fissure is so constricted that the water shoots up many feet like a fountain, and under certain conditions may be fairly continuous; sometimes the fissure is so formed that the water is blown out violently in the form of mist: again, the cracks will emit and draw in air only, giving rise to strange whistling sounds, and weird groans, like animals in distress.

The hard lava is called, in native, "pahoehoe".

The water N.E. from Makolea Pt. appears to be full of dangers: there is a shoal extending much over a mile off Mahiula. There appear to be sunken rocks all along off Mano Pt. though I could not locate.

From Makolea Pt. to Kailua seems to be clear.

I have used only those names I could verify; my remarks on this matter in report for sheet "F" apply here. *along the shore*

As on that sheet there are several pleasant oases, with a few native, living at each: many sand beaches are shown but these are deceptive as there is almost always a jumble of rock at the water's edge: many, however, offer excellent sailboat landings.

Kailua is the next largest actual town after Hilo (Honokaa possibly excepted). It has a fine covered wharf and the harbor is good, and is better than any other landing to the South. The place has a ten day service to Honolulu (S.S. Mauna Loa) but the mails also come overland from Kawaihae, and from Hilo via Honoapu and steamer. All of the buildings adjacent, and parallel to, the wharf, belong to Hackfield & Co. who do a general merchandise business and also hull coffee for shipment. There are several Chinese stores with limited stock. The Kona Development Co. has a plantation and mill up from Kailua, and export about 3,000 tons annually. Stack and mill open to sea but not conspicuous. Considerable coffee is grown on the slope S.E. of town.

Three good roads lead from town to the main govt. road which encircles the island, and there is a good trail along shore S. to Keauhou.

The sisal mill, shown, is in operation and now making sugar sacks.

Immediately behind, N. of, signal "Gap" and on N. side of road, are two oil street lamps, shown by red dots, about 100 ft. apart. These would be useful to navigators when once learned, but unfortunately can not be depended upon.

Hackfield & Co. would sell small quantities of water from their tanks in emergency.

Descriptions of several valuable landmarks about Kailua are given on sheet.

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

DE CHIFFRE REPORT.

To accompany topographic sheet "G", Mano Pt. to Paapua Pt. Island of Hawaii.

1915.

Coline R. Hand, Asst., Chief of Party.

This sheet rounds the most westerly point of the island, and like sheet "F", (continued) consists of a succession of lava flows rising very gently to the mountain, dualala; these flows are of various dates; the oldest are partly covered with a very scant growth of weeds, but the more recent appear new and fresh, and are absolutely barren; the flows are readily seen to be of two different kinds: one is of cinders (native "aa") greatly resembling blast furnace slag, and is exceedingly difficult to walk over. The other kind is hard and glazed and its minutely wrinkled surface shows most beautifully the various pourings and edgings of the molten lava; the surface is usually deeply fissured at intervals due to sub-surface explosions. In consequence of these two kinds there are two different varieties of cliff line; in height it varies from one or two feet to not much over twenty, but the cinder kind has a jagged, crumbly sloping shore line, subject to change as the cinders are eroded by the waves: off this kind of coast there are numerous sunken rocks, and small boats should approach with caution; the other kind presents a perpendicular cliff line, or sometimes a series of terraces or steps, due to superimposed flows: off these cliffs the water is in general more free from submerged rocks, and also there is usually deep water close to.

The hard lava presents some curious phenomena: deep tunnels make in from the cliff line, sometimes many feet, and these generally terminate in a neat circular blow hole, or well, where the water may be seen to rise and fall with each recurring swell; sometimes the fissure is so constricted that the water shoots up many feet like a fountain, and under certain conditions may be fairly continuous; sometimes the fissure is so formed that the water is blown out violently in the form of mist: again, the cracks will admit, and draw in, air only, giving rise to strange whistling sounds, and weird groans, like animals in distress.

The hard lava is called, in native, "pahoehoe".

The water N.E. from Makolea Pt. appears to be full of dangers: there is a shoal extending much over a mile off Manuia. There appear to be sunken rocks all along off Mano Pt. though I could not locate.

From Makalea Pt. to Kailua seems to be clear.

I have used only those names I could verify; my remarks on this matter in report for sheet "F" apply here. Along the shore as on that sheet there are several pleasant places, with a few natives living at each; many sand beaches are shown but these are deceptive as there is almost always a line of rock at the water's edge: many, however, offer excellent sailboat landings.

Kailua is the next largest actual town after Hilo (Honolulu, possibly excepted). It has a fine covered wharf and the harbor is good, and is better than any other landing to the South. The place has a ten day service to Honolulu (S.S. Mauna Loa) but the mails also come overland from Waiahae, and from Hilo, via Honoapu and steamer. All of the buildings adjacent, and parallel to the wharf, belong to Hackfield & Co. who do a general merchandise business and also mill coffee for shipment. There are several Chinese stores with limited stock. The Kona Development Co. has a plantation and mill up from Kailua, and export about 3,000 tons annually. Stack and mill open to sea but not conspicuous. Considerable coffee is grown on the slope S.E. of town.

Three good roads lead from town to the main govt. road which encircles the island, and there is a good trail along shore S.E. to Hauula. The sisal mill, shown, is in operation and now making sugar sacks.

Immediately behind, N.E. of, signal "Cap" and on N. side of road, are two oil street lamps, shown by red dots, about 100 m. apart. These would be useful to navigators when once learned, but unfortunately can not be depended upon.

Hackfield & Co. would sell small quantities of water from their tanks in an emergency.

Descriptions of several valuable landmarks about Kailua are given on sheet.

Coline R. Hand
Asst. U.S.G. & G.S.

LIST of POSITIONS.

To accompany topog. sheet "G", Mano Pt. to Puapua Pt., Island of Hawaii.
1913

Eoline R. Hand, Asst., Chief of Party.

* Suggestions for offshore.

Name	Ø	D.M.	λ	Δ.A. hei	Description and symbols.
End	19°51'		155°57'		Point A on rough lava.
Burn	51		57		" ⑧
Bed	51		57		" on stone enclosure.
Lit	51		57	5	" ⑨
Fall	51		57		" ⑩
Mars	51		155°58'		" = on boulder
Sun	51		58		" ⑪
Sep	19°56'		58	30-10	" on cairn back on rough lava.
Snap	50		58		" spot
Worm	50		58	12	" on lava pinnacle.
Give	50		155°58'		" " behind sand.
Bur	50		58	15	Cairn with post and paddle shaped sign.
Fry	50		59		Snack; perp. white stars under gable.
Hand	19°49'		59		Paint on lava behind beach.
Cook	49		59	15-20	" " " " pinnacle.
Tay	49		156°00'		House, S. side bay at Kukio.
Lure	49		00		Paint.
Camp	19°49'		00	10	"
Litt	48		00	5	" +
Wart	48		00	5	" A on flat lava
Tin	48		156°01'	40	" " " " joinnacle.
Parz	48		01		" ⑫
Save	19°49'		01		Yellow house, has shed built in N.E. corner
Oar	47		156°02'	10	Paint, ⑬
Mast	47		02		Largest house at Mohiula, high steps in front.
Mad	47		02		Paint on stone wall.
Wump	19°46'		02		" many crosses on loose rocks.
Dirt	46		156°03'	15	" on loose rocky Mahele Pt.
Gimp	46		03	10	" ⑭
Hat	19°45'		03	15	" ⑮
Hang.	35		03	10	" A ..
Mare	45		03	15	" ⑯
Zawn	45		156°03'	65	Conspic. slender lava pinnacle N.E. of Unualoa Pt.
Land	45		156°03'	10	Paint ⑯
Hug	19°44'		03	6	" A
Cop	44		03	12	" ⑰
Mule	44		03	10	" +
Jet	44		03		" on smooth boulder
Hero	19°43'		03		" cairn.
Hum	43		03	5	" "
Birar	19°42' 1/328	03	1680	67	20-10 " ⑱ orient on cairn at Akahipuu.
Coco	42		156°03'		Lone cocoanut at Oorna
Art	42		156°03'		Paint on low stone wall
Miss	19°41'		156°03'		" " cairn
High	19°41' 1/275	155°59'	321	1105	Steeple of church at Kohaneikihi; dull cream red roof; steeples end.
Sal	19°41'		156°03'		Paint on cairn on mound, Wewehiwa Pt.
Here	41		02		" " seaend ancient stone house.
Buc	41		02		" " rock corner.
Nec	41		02		Snack, S. side fish pond at Haleka.
Rut	41		02		Paint on lava cinders
Rut	19°41'		02	4	" small ring of piled stones.
Span	40		156°01'		Most Mly house, next to pond, at Honokahau.
Wat	40		01		Paint on highest of group of cocoanuts at sand spit.
Old	40		01	20	" ⑲ " lava mound.
Ass	19°39'		01	10	" ⑳ " "
Wise	39		156°01'	24	" A " " " at Hainui Pt.
Vir	39		156°01'	12	"
Bog	39		01		" " Large, loose boulder.
Bay	39		01		Tallest of 7 cocoanuts, at narrow inlet.
Sap	39		01		House behind small group coco trees, but N.W. from big grove.
May	19°38'		156°00'		" unpainted: regrout, behind great coconut grove.
Fat	38		00	15	Paint on small boulder on lava mound.
Roy	38 986	00	155°59'	20	S.E. cor old Royal Boat House: white stone.
Cap	38 859	00	155°59'	120	
Cap	38 1096	155°59'	1600	140	Passageway left in stone retaining wall at Kailua. Orient on cairn at Akahelo.
Coop	38 1096	155°59'	322	100	Long cupola on immense wh. bldg, regrout. Met Hailua: sisal mill.
Pray	38 1096	59	156°00'	95	Steeple great stone church, regrout, at Kailua.
Law	38 1217	59	156°00'	95	Seagable Kailua Court House; great th. brown frame.
Wind	38		59		windmill close to road at beach 3 fm. S.E. of courthouse
King	19°37'		59		Old white house, redroot, between coconut trees and old stone house.