



DESCRIPTIVE REPORT.

To accompany sheet "K", Kahuku Lava flow of 1887 to sta. Kipaepae,  
Island of Hawaii.

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

The country embraced within these limits comprises the most southerly portion of the island. There is a great cliff which starts at South Point and trends North, becoming more and more high as it leaves the point: it divides the land in two parts greatly diversified in character: on the West side it is low, of very gentle and even slope and composed of lava flows comparatively recent, and though the greater part is barren, here and there are spots of sparse vegetation. The shoreline is irregular and low, the cliffs not rising much over 10 ft. At and near Puu Hou (hill) there are long stretches of sand.

Puu Hou was formerly a trig. station but erosion has carried away the mark, but tests show that the point of the hill may, for hydrographic purposes, be used as the original mark: it was originally 273 ft. but is now 260.

From shore I could not see a sign of the Kailikii Shoal as shown on chart 4115.

There is a small fishing village, Waiahuakini, at the sea near the base of the great cliffs, and a landing as shown nearby, in the line of trees is a trail leading to the top of the pali: there is said to be no other for several miles North. There is no such place as Kaulu at top of the cliffs, and there is no local authority for the name Mamalu as applied to Molilele Pali.

A dangerous shoal makes off South Point at the Light: it appears to be about 200 m. wide and more. Through the courtesy of the captain of the Mauna Loa I took two vertical angles on the Light en route to Honouliuli. This put us 0.4 mi. off the light, when bearing N15W (mag) and N6E (mag) deviation negligible. In these positions there was more discolored water to the South, and I estimated the depth at between 4 and 5 fms. when bearings were taken: in rough weather it is said to break even outside of these positions. This vessel, and others, do not usually round the point so close in.

An interesting narrative was given me concerning this shoal: it was said that in olden times parties of natives would proceed in large canoes to South Point when starting for TAHITI and would keep the course by following the line of discolored water, which, it was claimed, extended that far.

East of the cliffs and extending as far as Kaalualu is a beautiful grassy plain: the soil is bright yellow and about three feet deep, and along the coast it has been washed back, exposing the bare, black lava: here and there on the plains are frequent outcroppings of ancient lava flows. A wagon can cross this plain from Waiohinu directly to the Light at South Point.

N.E. of Kaalualu is another area of low, even sloping lava, with scant vegetation, but not so barren as the area West of the great Pali. At the extreme N.E. corner of sheet is another geologic faultlike Molilele Pali, but not so large and steep: North of this the land is high, more steep, and covered with sparse weeds and grass, while at the sea are high cliffs which extend as far as Honuapo Landing.

There is but little at Kaalualu: a large ranch house, the home of the foreman of the Waiohinu Agricultural and Grazing Co. A private road, practicable for autos runs up to the main road, joining it about a mile East of centre of Waiohinu. The bay appears rather shoal, and steamers no longer stop there for cattle: the inner lagoon can accommodate small boats, though the entrance is dry at low water.

On chart 4115 is shown a hill at sta. Kipaepae: there is no hill: station is marked with a terraced cairn about 12 ft. high, painted white.

The S.E. coast is the weather side because of the N.E. trade which is blowing more or less steadily the greater part of the year: in consequence considerable swell is encountered, and the surf makes landing a matter of much difficulty, if possible at all. South Point, however, offers a lee, and smooth water. I do not know the nature of the anchorage below the cliffs, but it is certainly not shoal.

Between December and March there is liable to be heavy weather from the S. and S.W. Though the wind does not often reach the coast, enormous swells roll in, to the discomfiture of the hundreds of fishermen and the disarrangement of steamer schedules, all along the West coast, but for by far the greater part of the time the ocean is smooth and landings can be made with ease from South Point to Mahukona.

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

ISLAND of HAWAII.  
Sheet "K", Kahuku Lava Flow  
of 1887 to Sta. Kipaepae.  
Surveyed March, 1914  
Top'y and inking by Eoline R. Hand  
Eoline R. Hand, Asst. Chief of Party.  
Contour interval, 50 ft.  
Scale, 1:20000

Eoline R. Hand, Asst. Chief of Party.

Eoline R. Hand, Asst. Chief of Party.

Name	D.M.	A	D.P.	hei.	Description and symbols.
End	18°57'	155°46'		25	Paint, see List Sheet J.
Agg	55'	46'			Large rock offshore at Kahuku Lava Flow of 1882.
Po	18°58'	155°46'	40-42		Paint, small spots, at outermost point.
L4	58'	45'	30-40		" large cairn of jagged lava.
Vat	58'	45'	40-50		" " O " on large rock.
Coin	58'	155°46'			Prominent lava mound.
Haird	58'	47'	15-20		Paint on cairn.
Lid	58'	47'	135		Higher + more Wly of two yellow hills, 200 m apart.
Nct	58'	155°44'	45		Paint on rock.
Bat	58'	155°43'	170		Mt. Knob double yellow hill.
H49	58'	43'	35		Paint on point NW end beach at cliff edge.
H47	18°57'	43'	40		" near W. end beach at A Puu Hou.
Bo	67'	155°42'			" on cairn, 50m in shore.
So	57' <sup>1328</sup> / <sub>517</sub>	42' <sup>1646</sup> / <sub>109</sub>			" " rock at 1st point S E of Puu Hou. Orient on Umi's Ahu.
Wo	57'	42'			" " Cairn N.W. end boulder beach.
Mound	57'	42'	45		Mound, grass on N side, bl lava around.
AH4	57'	42'	22		Cairn.
Cor	57'	42'	21-23		Paint on cairn on mound at vil. of Waiahuka Kini.
Sig	18°56'	155°41'	60		" " rock up slope, where cliff leaves the sea.
Pole	56'	41'	280		A 2x3 scantling set 1m. from edge cliff.
Pine	56'	41'	160		" " " " " "
Stick	18°55'	41'	103		" " " " " "
Led	55'	41'	60		Paint IIII on choc. drop shaped rock edge cliff.
Wag	55'	41'	45		" " " " " "
Sip	55'	41'	35		Centre one of 3 perp. timbers supporting horizontal boat hoists.
Hill	18°54'	155°40'			Small hill at South Point 450 M. E. of Light.
Bust	54'	40'	15-20		Paint on both sides wall of stone house.
Old	18°53'	40'	25		Stone house on grassy plain.
H47	55'	40'	20		Paint on stone shelter.
Hag	55'	40'	140		Small house, rusty tin roof. Small tree at end. up in old lava flow.
Snap	55'	155°39'	55		Paint on cairn with stick; sea end old lava flow.
Mate	55'	39'	48		" " " top low hill.
Zone	55'	39'	20-25		" " " lava mound 40m inside, + 30m S.W. from stone house.
Big	18°56'	155°38'	115		Hill at deep bay.
Jap	56'	38'	65		Paint on stone house.
No	56'	38'	15		" " " cairn back 20m. from edge yellow soil.
Horn	56'	38'	45		" " " highest of 3 stone wind shields about 15m apart.
Jot	18°57'	155°37'			" " " rock N.E. side point.
Tub	57'	37'	35		" " " cairn.
Lisp	67'	37'	10+5		" " " Loose stump on grass.
Stub	57' <sup>1800</sup> / <sub>45</sub>	37' <sup>947</sup> / <sub>808</sub>	65		" " on stone house Orient Lae offemilo
Sun	18°58'	37'	25		" " on lava hump inside double point.
Mon	58'	37'			" Sea end stone wall.
Wed	58'	37'			White washed house nearest bay. 2 windows S. side.
*Ed	58'	37'	<sup>1000</sup> / <sub>50</sub>		Ranch house Waiohinu Agricultural & Grazing Co. at Kaaualua Bay.
Fry	58'	155°36'			Bone pile, inner bay, Kaaualua.
Wall	58'	36'			Paint on wall " "
Chin	58'	36'			Most Sly of two shacks. " hostin root.
Yap	58'	36'	15		Paint on cairn on mound of sand.
Leg	58'	155°36'			Double shack midst vine covered sand wall around.
Gold	18°59'	35'			Paint on prom. rock 100m. inside.
One	59'	35'			" " " cairn at deep bight.