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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: _____

DESCRIPTIVE REPORT.

Yp. Sheet No. *3443*

LOCALITY:

191

CHIEF OF PARTY:

3443

DESCRIPTIVE REPORT.

To accompany Sheet "J", Hanamalo Pt. to Kahuku Lava Flow of 1887, Island of Hawaii
Eoline R. Hand, Asst., Chief of Party.

The shoreline and terrain embraced within these limits consists of lava flows, for the most part absolutely barren. The shore is irregular and varies from a gentle slope to water's edge to low cliff line, rarely over 50 ft. in height. As explained in previous reports the shore line is made up of two distinct kinds of rock: that formed of smooth lava, or "pahoehoe", is flat on top and drops vertically to water, like a stone pier, and there is generally deep water close to. The other variety is composed of rough lava cinders, called "aa", sloping rather abruptly to the water, and being loose, subject to slight changes account erosion at base: at the base of this variety of cliff there are generally many rocks, both awash and sunken: it is better to make landings on the "pahoehoe".

There are several excellent sand beaches, marked "landing" on the sheet, and since this is the lee side of the island during the "trades" a landing is nearly always possible, even when the surf makes landing risky at other points.

No offshore dangers were observed excepting a shoal near S. end of sheet, as indicated. I am unable to say how far out this shoal extends.

There is an anchorage at Kapua Bay, and it is used frequently by the S.S. Mauna Loa, of the I.I.S.N. Co. She appears to anchor directly off the two houses on beach. This is the point from which cattle are shipped at frequent intervals. They are driven out into the water and towed alongside the steamer by small boats.

Pohue Bay should offer a fair anchorage since being in a deep indentation of the coast the swell should be broken up to some extent. I was unable to ascertain the depth or character of bottom.

Except at Kapua Bay there are no people living along this coast. There are two or three shacks along the shore but they are unoccupied.

By referring to the note set down near station "BARN" a section of the main government belt road may be placed.

The country presents a smooth gentle slope up toward the mountain, and is seen to be alternate strips of the smooth lava or "pahoehoe", and rough cinders or "aa", as previously described. The "aa" flows seem to be the most recent. At the shoreline it is absolutely barren, excepting isolated patches. A few hundred meters inshore straggling bushes will be seen and the vegetation increases evenly the further inshore, until at an elevation of about 1000 feet there is quite a dense growth of grass, weeds, and bushes.

No trail extends along this coast, though here and there sections of a very ancient path may be seen.

There are several interesting craters a short distance S.E. of Pohue Bay.

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

T 3443.

Eoline R Hand, Asst. Chief of Party

Name	W	N.M.	E	D.P.	Height	Description and symbols.
On	19°08'		155°54'			Paint on lava knob at end of narrow reach, N. side Ofkoe Bay.
Tin	08'		50'		50'	Roof, corn iron, of house behind grove at Ofkoe Bay.
Bo	08'		54'			Paint on cairn.
Cap	19°08'		54'			Most Sly of two houses at Kapua Bay.
Robt	08'	62°	155°55'	161°	59'	Grass hut tin roof, at head of cove. orient A Barn.
Pia	19°07'		55'			Paint on big pinnacle rock just N of coconut grove.
Poi	07'		55'			" " cairn " S " " "
Bin	07'		55'		20'	" " at Kanewaa Pt.
Cut	19°06'		55'		50'	" " on small cairn on highest lava mound.
Poc	06'		55'			Small rock, few metres offshore.
Art	06'		55'		25-35'	Paint on loose rock edge cliff.
Crass	06'		55'		65'	" several to on highest lava mound, W. of A. Hana Keumae.
Ruin	06'		155°54'			" " on lower rock, 10 m back from cliff edge, 150 m S. of ancient stone house.
Lava	06'		163°43'		430'	The lower end of most N.W. and shorter of two narrow lava flows close together probably flow at 1907, bears N.W. mag. from A. Hana Keumae, dist. 2500 m.
Rib	19°06'		163°55'			Paint, 088 edge cliff.
Red	06'		54'			Red mound, edge cliff.
Line	05'		54'		25-30'	Paint, IIII cliff edge.
Jag	05'		54'		25-30'	" " on jagged lava pinnacle.
Try	05'		54'		10'	" " Δ at Ahulua Pt.
Tree	19°04'	175°	54'	165°		Lone tree, N. side bay at Kaulanamauna. orient 3/4 Puu Pele
Ho	04'		54'			Most Sly of 3 shafts " " paint on porch post - rock enclosure.
Nob	04'		54'			Thick pinnacle rock N. side cove.
Bern	04'		54'		40-45'	Paint on highest lava knob, at point
Sin	04'		155°53'		25'	" " jagged lava S.E. of cove.
Slab	04'		53'		25-35'	" " lava slab
Arch	19°03'		53'			A white pinnacle, most N.W. of two, on arch over entrance to deep reach
Far	03'		53'			Paint on cairn E. of offshore rock.
To	03'		53'			" " small cairn, highest mound.
Oat	03'		53'		55'	" " lava pinnacle inside long flat offshore rock.
Vert	03'		53'		45'	" " III on rock at edge cliff, inside offshore rock.
Live	03'		53'		55'	Roof of house at small clump trees N. of Keana Pt.
Dip	19°02'		53'			Paint A edge cliff.
Nap	02'		53'		20-25'	" " on cairn, Keana Pt.
Mound	02'		155°52'		75'	From lava mound about 30 m inside Keana Pt.
Flat	02'		52'		15'	Paint on flat topped lava rock, highest at small Point of Keana Pt.
Grass	02'		52'		10'	" " rock edge grass, in bay E. of Keana Pt.
Bold	02'		52'		12'	" " cairn S.E. end boulder beach.
Ham	19°01'		155°51'		50'	" " O. pinnacle at head narrow reach.
Tug	01'		51'		15'	" " cairn.
Jern	01'		51'		10'	" " W. side cove, below Pele Hill.
Pan	01'		51'		8'	" " on lava pinnacle
Lag	01'		51'		15'	" " + + + on lava rock, E. end boulder beach.
Hill	01'		155°50'		90'	Hill eroded, on great sand beach, one of the Pele Hills.
Odd	00'		50'		15'	Paint on lava knob E. of sand beach.
Mut	00'		50'		75'	Cairn & pole, hill jagged lava.
Ton	00'	588 1257	50'	448 1306	60'	Most Sly of Pele hills, eroded, on beach. orient 3/4 Puu Pele
Spot	00'		50'		8'	Paint, many spots.
Ag	00'		155°49'		20-25'	" " on knob 10 m back from cliff edge.
Art	00'		49'		50-60'	Mound.
Pug	19°00'		49'		40'	Paint on cairn.
Hat	00'		49'		25-30'	" "
Lone	19°01'		155°48'		80'	Smooth topped yellow mound surrounded by yellow lava.
Wit	19°00'		48'		20'	Paint III
Junc	00'		48'		10'	" "
Sap	00'		48'			" " on cairn S.E. grove & shingle beach.
Camp	00'		155°47'			" " S.E. side beach at Potue Bay.
We	00'		47'		20-25'	" " " just NW of A. Puu Ki.
Pu	00'	252 1545	47'	202 1546	45'	" " cliff edge below 2 nodes' hill. orient 1/4 N. Puu Ki. 2 Puu Ki.
Lap	00'		47'		20'	" " on cairn.
Patch	19°01'		47'		475-500'	Tree in lower end yellow patch, between & above two green patches. bears N32 E. mag. from Pele's trees, shingle beach, dist. 300 m, and N4 E

LIST of POSITIONS

T 3443.

To accompany topog. sheet "J" Hanalei Pt. to Kahuiku Lava Flow of 1887 Island of Hawaii.

Eoline R. Hand, Asst. Chief of Party

Name	Elev.	D.M.	A	H.P.	Description and symbols.
On	1900		155'54"		Paint on lava knob at end of narrow reach, N. side Ofaoe Bay.
Tin	07		56'	50	Roof corner, of house behind grove at Ofaoe Bay.
Bo	08		54'		Paint on cairn.
Cop	1900		54'		Most Sly of two houses at Kapua Bay.
Road	08	155'55"	54'		Grass hut tin roof, at head of cove.
Pit	1900		53'		Paint on big pinnacle rock just N. of coconut grove.
Pei	07		55'		" " " " " " " "
Bir	07		55'	20	" O at Kanewaa Pt.
Cut	1900		55'	50	" on small cairn on highest lava mound.
Roc	06		55'		Small rock femmetres offshore.
Art	06		56'	25-35	Paint on loose rock edge cliff.
Cross	06		55'	25	" several fs on highest lava mound, W. of A Hana Keaumoe.
Ruin	06	155'56"			" on loose rock 10m back from cliff edge, 15m S. of ancient stone house.
Lava	06	155'53"		430	The lower end of most Nly. and shorter of two narrow lava flows close together probably about 1900, bears N.E. mag from A Hana Keaumoe, dist 250m.
Rib	1900	155'57"			Paint on edge cliff.
Red	06		57'		Red mound, edge cliff.
Line	05		58'	25-30	Paint, IIII cliff edge.
Jag	25		50'	15	" on jagged lava pinnacle
Tri	05		57'	10	" Δ at Ahuloo Pt.
Tree	1900	1754 87	54'	600 1154	Last tree, N. side bay at Haulanamauna. " " " " " "
Ho	04		54'		Most Sly of 3 shafts " " paint on porch post + roof enclosure.
Nob	05		54'		Thick pinnacle rock N. side cove
Sarn	04		54'	40-45	Paint on highest lava knob, at point
Sin	04	155'53"		25	" " jagged lava S. E. of cave
Slab	04		53'	25-35	" □ lava slab
Arch	1900		53'		A white, pinnacle, most Nly. of two, on arch over entrance to deep reach
Fur	03		53'		Paint on cairn E. of, offshore rock
To	03		53'		" " small cairn, highest mound
Oat	03		53'	55	" " lava pinnacle inside long flat offshore rock
Vert	03		53'	45	" III on rock at edge cliff, inside offshore rock
Live	03		53'	55	Roof of house at small clump trees N. of Kaina Pt.
Dip	1900		53'		Paint Δ edge cliff.
Nap	02		53'	20-25	" on cairn, Kaina Pt.
Mound	02	155'52"		75	Brown lava mound about 36-m inside Kaina Pt.
Flat	02		52'	15	Paint on flat topped lava rock; highest at small point of Mound Pt.
Gross	02		52'	10	" " rough edge grassy, in bay E. of Kaina Pt.
Bold	02		52'	12	" " cairn S. E. end boulder beach
Harm	1900	155'51"		50	" O pinnacle at head narrow reach.
Tug	01		51'	15	" " Cairn.
Sarn	01		51'	10	" W side cove, below Pele Hill.
PAT	01		51'	8	" on lava pinnacle
Lag	01		51'	15	" " on lava rock, E end boulder beach.
Hill	01	155'50"		90	High eroded, on great sand beach; one of the Pele Hills
Odd	01		50'	15	Paint on lava knob E. of sand beach.
Vat	01		50'	75	Cairn + pole, hill jagged lava.
Ton	01	508' 1555	50'	60	Most Ely. of Pele hills; eroded on beach.
Spot	01		50'	8	Paint, many spots.
Ng	01	155'49"		20-25	" on line 10 m back from cliff edge.
Art	01		49'	50-60	Mosaic.
Pig	1900		49'	40	Paint on cairn
Het	00		49'	25-30	"
Lone	1900	155'48"		80	Smooth topped yellow mound surrounded by jagged lava.
Wit	1900		48'	20	Paint =
June	00		48'	10	"
Sap	00		48'		" on cairn S.E. grove & shingle beach.
Camp	00	155'47"			" S.E. side beach at Pohue Bay.
We	00		47'	20-25	" O Just NW of A P44 Pt.
P4M	00	155'46"	47'	45	" cliff edge below eroded hill.
Lep	00		47'	20	" on cairn.
Patch	1900		47'	475-500	Tree in lower end yellow patch between a bare two green patches; bears N32 E mag from Pohue trees shingle beach, dist 3mm and N4E mag from A P44 Mt. dist. 3100 m.
Up	1900	155'46"		95	Higher & more Sly. of two hills, one mile SE of P44 Mt.
Li	1900	155'45"		10	Paint O
Miss	59	155'46"			" on cairn SE sand & boulders.
Ged	59		46'	35	" " high rock edge cliff roughly cylindrical, 4 ft. high.
End	59		46'	25	" " jagged lava on narrow point NE end sand beach, and S.E. of small bay