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Bepartment of Commerce and Cabor COAST AND GEODETIC SURVEY
Superintendent.
State:
DESCRIPTIVE REPORT.
Zop., Sheet No. 3442
LOCALITY:
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CHIEF OF PARTY:
11—4645

2440

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 portio 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 nearPuu Hou(hill) there are long stretches of sand.

Put Hou was formerly a trig.stationbut erosion has carried away the mark, but tests show that the point of the hill may, for hydrographic purposes, be used as the briginal 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 lillage ,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 Honolulu. Phis put us 0:4 mi.off the light, when bearing NISW (mag) and NGE (mag) deviation neglegible. 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 wough weather it is said to break even outside of these positions. This vessel, and others, do not usually rou dithe point so close in.

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

East of the cliffs and ext ending 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 Walahinu Agricultural and Grazing Co.A private road, practicable for autos runs up to the main road, joining it about a mile fast of centre of Walohinu. 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 starKipaepae: there is no hill:station is marked with a terraced cairn about 12 ft.high, painted white.

--2-- rescriptive Report, sheet" & ", Hawaii, Soline R. Hand.

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 sonsiderable swell is encountered, and the surf makes langing a matter of much difficulty, if possible at all. South Point, however, offers a lee, and smooth water. Indo 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 lishermen 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.

Asst., U.S.C.& G.S

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

LIST of POSITIONS.

to accompany Sheet "K," Kahuku Lava Flow to A Kipaepae." ISLAND of HAWAII.

Eoline R. Hand, Asst, Chief of Party

Name	ø i	II.M.	入	ZI. P.	bei.	Description and symbols
End.	18:59		155-46		25	Paint, see List Sheet ""
Asu D	55'		46'			Lary rock offshore at Kahuku Lava Flow of 1887.
Po	18"58		155"46		40-45	Paint Small spots, at outermost point
					 -	
	58		45'		34-70	" large cains of jagged lava.
at	58		45'		40-50	
0107	58		155 44			Prominent lava mound.
1aind	58		44	<u>.</u>	15-20	Paint on cairn.
id	58		44'		135	Higher + more Wly of two yellow hills, 200 m apart.
et	58		155 44		45	Paint on rock
34t	55		155.43		170	W. Knob double yellow hill
					 	
149	58		43		35	Paint on point N.W. end beach at cliff edge.
747	18957		43		40	" Near W. end beach at A Puy Hou.
57 0	57		155°42.			" on cair, 50 m in shore.
9 0	57	1321	9°2.	1646	[" rock at 1st point SE ofPua Hou. Orient on Umis Ahu.
Vo	57'		42			" " Cairn N. W. end boulder beach.
lound	57'		72		45	Mound, grass on M. Side, 61. 1944 around.
	57		·		 	
114			42		22	Cuinn
010	57'	<u> </u>	42		21-25	
19 +	1886		155 41		60	" " rock up slope, where cliff leaves the sea.
01e	56		41		280	A 2'x3' scantling set lam from edge cliff.)
ine	56		4/		160	it was intended that paint be placed as foot of cliffs directly below sticks, and the placed as the
tick	1885		3/		103	theplotted positions shifted down to H.W.
ed	55	 	41		60	Paint IIIII on chocdrop shoped rock edge cliff
	 ,	 	}		 	1 HILL OIL COLOR OF CHAPLET LOCAL EN A COLLAS.
14.9	55		41		45	
1/0	55	ļ	41		35	
1122	18.54	Ĺ	155.76		L	Small mill at South Paint 450M E of Light
rust	54		40'		15-20	Paint on both sides wall of Stone house.
14	1835		70		25	Stone house on grassy plain.
1417	55		40			Paint on stone shelter
	<u> </u>	 -	-	 -	20	
tag	55	-	40	<u> </u>	140	Small house, rusty tin roof: small tree at end, up in old lava flow.
nap	55	ļ <u> </u>	15539	L	55	Paint on cairn with stick; sea end old lava Alow
ate	55		39		48	· · · top low hill
one	55		39'		20-25	" Lava mound 40m inside, + 30m S.W. from stone house.
319	18.56		155"38"		115	Hill at deep bax
			38		65	Paint on Stone house.
ap	56	 	 -	ļ	}	
10	56		38		15	cairn back 20m from edge yellow soil.
torn	56		38'		45	" highest of 3 stone wind shields about 15 m. apart.
of	1857	<u> </u>	155937	<u> </u>		" rock N.E. side point
46	57		37	-	35	- cairn
15,0	67'		37		1015	" · Loose stump on grass.
146	57	1800		847	65	" con Stone house Orient Lae offamile
417	1858	 =	37		25	· on lava hump inside double point
	<u>!</u>	 - -		} -	 -	" Sea End stone wall.
100	58"	ļ . 	37			
ed	58		37	ļ	645	White Washed house nearest boy. 2 Windows S. side.
Ed	58		37		50	Ranch house Waiohinu Agricultural & Grazing Co. at Naclualu. Bay.
-ry	58	1	155736	[[Bone pile, innerbay, Kaulyalu.
Vall	58		36	i		Paintonwall " "
Chin	58		36	t	_	Most Sly of two shacks, " hos Tin root.
	58]) -	 -	1,-	Paint on cairn on mound of sand.
Yep			36	 	15	<u> </u>
<u>-eg</u>	58	 	15536	 	 	Double shack midst vine covered sand wall around.
Pold	18'59'	L	35"	<u> </u>	L	Paint on prom rock loom, inside.
one	59		35			" " cairn at deep bight,
	19:00	1593	35	596	60	. " on rough Java 150m inside
atch	00	a) *	15536		100	Ancient stone nouse or enclosure in hend gross patch.
2111	00	 	155°35	 -		Paint on loose rock set up on larger rock
		 	35	ļ		" " nighest Lava point.
219	00		1			
0 g	1901	 	35	 -	70	" lava ledge 20m inside clift.
Tarp	0/	ļ	155 34		0	" " Wall front old house with gross roof.
Ball	oi		155*35		205	Alarge, spherical tree close to steep slope: neurest of all trees to sea
lext	.01	1	155.34) '	125	Paint, small, top cliffs, & S of A Kipaepae.
209	01	T	155 35		50	· on cairn on high mound.
•	1		<u> </u>			
	 	-	 	 		
						,