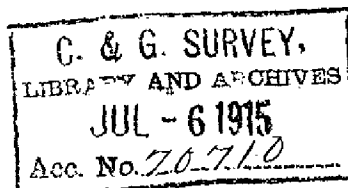


3524



Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: *Hawaii*

DESCRIPTIVE REPORT.

*Top* Sheet No. *3524*

LOCALITY:

191*5*

CHIEF OF PARTY:

Tap. 3524

To accompany topog. sheet "M", Keaiwa Cairn to Apua Pt. Island of Hawaii. 1914.  
Eoline R. Hand, Asst., Chief of Party, Topog'r.

This sheet comprises the desert waste immediately below the active volcano of Kilauea: the land is useless either for agricultural or grazing purposes being one succession of rough (aa) and smooth (pahoehoe) lava flows, with here and there a soil pocket covered with grass. There is however a patch of very heavy grass several acres in extent up on top first cliff line, about 1 1/2 mi. W. from the hill Puu Kapukapu. This is conspicuous from the sea.

The shore is all ragged cliff line from 5 to 100 ft in height except where the first cliff line joins: here it is several hundred feet in height as marked, and it is impossible to pass along the shore at this point but one must go up and around the hill: in fact this is what gives the hill its name as Puu Kapukapu means forbidden hill.

There is a low islet just below this hill: Japanese Sampans find some shelter behind it, and in seeking this shelter one should go around the ~~west~~ end, not the East end.

There are three places, and only three, where water (brackish) may be found: as indicated, below the great grass patch, in a deep pit approached by a set of natural steps; in a deep crack close to, and S.E. of, a short line of very low cliff lying midway between the island and Puu Kapukapu; and also in a pit at the abandoned village of Keauhou, between the white cement tank and the shore.

Keaouhou was at one time a flourishing village in the times when it was used as a landing place for tourists on way to the Volcano: these were landed here by frequent steamers, and then proceeded on horseback and stage the eight miles or more to crater. The old trail may still be found, and it proceeds up the great cliff to a sheep ranch where a fair road is found which joins the main road near the Crater House. At present time the above mentioned village, as also the entire coast on this sheet, is uninhabited.

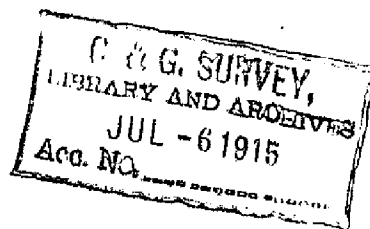
A wonderful cliff parallels this coast, about two miles inside, trends East, and joining a cliff which starts in vicinity of Keaouhou, continues on sheet "N" as one. The land above this great cliff is for the most part heavily wooded.

Thousands of wild goats roam over this area, both above and below the great cliff: they do not have access to water, but, strange to say, manage to make out on the dew found on the scant grass: they are not able to get down into the pools of brackish water.

There is a faint trail which goes across this sheet from the village of Pahala to the village of Kalapana, about thirty three miles: this is a most difficult trip but parties of natives sometimes make it, stopping for the night at one of the water holes near Puu Kapukapu. It is over hard rasp-like lava, and horses newly shod at one end usually have to be re-shod before reaching the other, and wise horsemen always carry extra nails and shoes for this purpose.

No offshore dangers were observed excepting that it is shoal off Apua Pt. This however was mentioned in report accompanying sheet "N".

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



# LIST of POSITIONS

to accompany sheet "M," Keaiwa Cairn to Apua Pt. Island of Hawaii, 1914.

\* suggestions far offshore.

Eoline R. Hand, Asst. Chief of Party.

Name	#	D.M.	λ	D.P.	hgt.	Description and Symbols.
Verd	19'11		155°24		160	Sharp, grassy hill: see sheet L.
Fit	3	11	155°23			point on lava mound.
Go	19°12		23	44-50		" " " " " "
Fari	12		23	44-50		" edge cliff at narrow point.
Dip	12		155°22			Rock, short distance off.
Opp	12		22		15	Small islet.
Mud	12		22			point " where lava has poured over cliff.
Pie	12		22			" " " " " "
Mound	12		155°21		125	" on two lava mounds 150 paces apart: 4 m. inside: should show well.
Oil	12		21		65	" Δ
Or	12		21			"
Sag	12		21			" on small cairn on mound 30 m. inside of prom. point.
Rip	19°13		155°20			" many spots.
Pin	13		20		50	" edge cliff.
Rock	13		20			Large awash rock: most N.W. of two.
Rag	13		20		50	Point on mound at point.
Arch	19°14		20			natural arch.
Wash	14		155°19		110	Point on cairn on prom. grassy sand hill directly on shoreline.
Tub	14		19			" " Small pile large boulders.
So	14		19		15	" B " rock.
Tin	14		19		20	" C
Sarn	14		19		20	" " edge cliff.
Tap	19°15		155°18		30	" many lines edge cliff.
Vase	15		18		50	" on cairn.
White	15		18		70	Whitewash, large, on lava mound: conspicuous offshore.
Uan	15		18			point on large rock at grass patch.
Up	15		155°17			" Δ
Vag	15		17			" on two rocks. br. water in deep pit 150 m. N.E. close to shore.
Vim	19°16		17			" " cairn.
Cor	16		17		0	the place at H.W.M. immediately below the sharp rocky cliff corner in cove.
Low	16		155°16			point on cairn. E. side low, flat point, 1 1/2 mi. S.W. from Δ Puu Kapu Kapu.
Jap	16		155°15			Shack of wood and stone behind island.
Yet	16		155°14		50	Point on lava mound 1/2 mi. E. of island.
Wit	16		14		35	" " cairn.
Tank	16		14		40	White cement water tank at Keauhou (village abandoned)
Zone	19°15		155°13			point on cairn.
Woe	15		13		30	" " "
Wig	15		155°12		10	" " "
Stag	15		12		55	" " mound, two spots. see Sheet N.
Vag	15		155°11		55	" " seq end elongated pile upheaved rock. see Sheet N.

G. & G. SURVEY,  
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} at Apua Pt.