Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: ____________________

DESCRIPTIVE REPORT:

LOCALITY:
HAWAIIAN ISLANDS
HAWAII - WEST COAST
KAILUA BAY TO MANO PT.

1913

CHIEF OF PARTY:
Applied to compilation 4140 2. M. A. June 1941
This sheet rounds the most westerly point of the island, and like sheet "P", consists of a succession of lava flows rising very gently to the mountain, Kualalai; 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 olst 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 to two feet to not much over twenty, but the cinder kind has a jagged, crumby 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 deep, and these generally terminate in a neat circular 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 when groans, like animals in distress.

The hard lava is called in native, "kahoehe". The water W. of from Makolea Pt. appears to be full of dangers; there is a shoal extending much over a mile off Kahalu. There appear to be many sunken rocks off Hano Pt., though I could not locate them. From Makolea Pt. to Kailua seems to be clear.

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

As on that sheet there are several pleasant ones, with a few native, living at each; many sand beaches are shown but these are deceptive as there is almost always a line of rocks at the water's edge; may, however offer excellent sailboat landing.

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 Honolu (S.S. Mauna Loa) but the mails also come overland from Kawaihae, and by rail via Honoapu and steamers all of the buildings adjacent, and parallel to the wharf, belong to Dackfield & Co. who do a large general merchandise business and also sell coffee for shipment; there are several Chinese stores with limited stock. The Kona Development Co. has a plantation and will go from Kailua and export about 3,000 tons annually. Stack and mill open to sea out not conspicuous. Considerable coffee is grown on the slope S. of town. There are 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 sifo mill, shown, is in operation and now making sugar.
This sheet rounds the most westerly point of the island and like sheet "P" consists of a succession of lava flows rising very gently to the mountain, dual lava 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 clastic nature "ad" gradually resembling once forming slag and is exceedingly difficult to walk over. The other kind is hard and glassy, and its minutely wrinkled surface shows most beautifully the various pourings and edgings of the molten lava; the surface is usually deep fissured at intervals due to sub-surface explosions. In consequence of these two kinds there are two different varieties of cliff line; in some it varies from 20 to 200 feet to a degree; but the cinder and has a jumbled, crumbling shore line, subject to change as the clinders are eroded by the waves; 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 nest of old, circular rock ball, while the water may be seen to rise and fall with each receding 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 forced that the water is given out violently, in the form of mist again, the cracks will emit, and air in air only giving rise to strange whistling sounds, and also shrill groans, like animals in distress.

The hard lava is called in native "Pahonea".

The chart made from Hanaola Point appears to be useful of dangerous below 200 feet extending much over a mile off Hanaola Point appear to be sunken rocks all along off Hana Point though I could not locate from Hanaola Point to Hana Point seems to be clear.

I have used only those names I could verify in remarks on this.

matter in request for sheet "P" are not along the shore as on that sheet there are several pleasant ones with a few native living t each, many sand beaches are shown but these are deceptive as there is almost always a line of rock along the water's edge. There is excellent small boat landing.

Kailua is the next largest actual town after Hilo (Mokuaiki), it has a fine covered wharf and the harbor is used and is better than any other landing to the South. The place has a ten day service to Honolulu at six every day, and from Hilo via Hana and steamers all of the buildings adjacent are parallel to the shore belong to Hackfield & Co. who do a general merchant marine business and also sell coffee to shipment. There are several Chineses stores with limited stock. The Kona Development Co. has a plantation and mill at Kailua and export about 5,000 tons annually. Hackfield & Co. sell over 100,000 pounds but not near 500,000. Considers coffee is grown on the slopes South of town. There are good roads lead from town to the main govern road which encircles the island, and there is a good trail along shore 40 to 50 miles, 100, 110, 115, 120 miles shown is in operation and now making with sugar

sugar immediately behind is of signal "Tap" and on west side of road are two oil street lamps shown by red dots, about 100 apart. This would be useful to navigators when once learned, but unfortunately can not be demonstrated when.

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.

Colino R. Rand, Asst., Chief of Party.
# List of Positions

**Company topo sheet "O", Maria Pl. to Puwana Pl., Island of Hawaii

1913**

Edna R. HandAbe, Chief Party

<table>
<thead>
<tr>
<th>Name</th>
<th>D.P.</th>
<th>A.D.</th>
<th>Description and Symbols</th>
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<td>End</td>
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<td>Fall</td>
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<tr>
<td>Mars</td>
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<td>030</td>
<td>Same as Candle.</td>
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<td>Sun</td>
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Largest house on Manu'ana, highest steps in front.

Paint on stone wall.

Many lizards on stone rocks.

On stone rock, Manu'ana Pl.

On smooth boulder.

Paint on boulder.

Small, level, flat area at Manu'ana.

Paint on stone wall.