

83
STA
3391

3391

C. & G. SURVEY,
LIBRARY AND ARCHIVES
SEP-4 1913
Acc. No. _____

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: LN.

DESCRIPTIVE REPORT.

Top. Sheet No. 3391

LOCALITY:

Waipio Valley

1913

CHIEF OF PARTY:

E. P. Hand

11-4645

3391

DESCRIPTIVE REPORT

To accompany topographic sheet "D", Waipio Valley to Union Mill, Hawaii.
Eoline R. Hand, Asst., Chief of Party.

This sheet embraces within its limits the highest cliff line, the deepest gulches, and the wildest and most picturesque country of the entire island. Between Waipio valley and Pololu Gulch the land slopes back from the sheer cliff edge to over a mile in height: this wild and almost inaccessible region is cut by many exceedingly deep and steep sided gullies, but due to the difference between the land slope and that of the gulch bottoms, some break through the cliff line very inconspicuously, giving no hint of the ruggedness behind. Waimanu Valley comes next to Waipio in size: at one time much rice was raised here but now the land has been allowed to degenerate into the original swamp. About fifteen persons are now living here. Rice is grown in Polulu Gulch and many people live there, but the other gulches which break through at sea level are not under cultivation, excepting Honokane, which grows a little taro.

There was an extensive landslide during or about the year of 1910 and this spot shows up a conspicuous yellow scar: its centre is listed and should make an excellent off-shore hyd. signal. There was a similar slide many years ago at the spot marked Laupahoehoe, which means "flowing out of Rock" but this one is now vegetation covered: one family lives here and they grow successfully tomatoes, papayas, mangoes, and cocoanuts: their garden is obviously free from molestation. Small boats can make a successful landing on the smooth boulder-shingle beach 200 m. West of house.

Little can be said of the islands: they are merely smooth wedge shaped masses of rock, very sheer.

The bay at Honokane Iki offers fine protection and landing facilities for small boats. Note should be made of the off-shore sunken rock: aside from this the water between Polulu and Waipio appeared free.

Considerable shoal water was noticed between Keokea Harbor and Akokoa Pt. and there is more or less coral offshore from here Westward to limit of sheet.

Westward from Pololu every available bit of space is cane planted: the pine trees and bushes shown along coast are planted there to serve as wind break for the cane, for the N.E. trade sweeps stiffly across this Kohala Point almost incessantly: every tree in Kohala leans noticeably toward the S.W.

There are four sugar plantations on these sheet limits: Halawa, between Niulii and Kohala Sugar Co., is not shown as it is a mile or more inshore and is not seen from sea. There are in all five plantations in Kohala, the fifth is on next sheet: the official names are shown.

The "Hawaii Railway Co. Ltd" has a line from Mahukona to Niulii Mill, its Eastern terminus. Its main province is the transporting of sugar from the five plantations to Mahukona, but it also handles general freight: passenger business is not catered to. Japanese motor busses handle this traffic and very cheaply, up on the main govt. road. This road runs from Polulu Gulch and from Niulii Mill Westward through Kapaau P.O. to limit of sheet as indicated. It passes on to Mahukona.

The road shown as going up from R.R. station at Union Mill cuts the main road at right angles at a point slightly off the edge of sheet, and continues up toward Waimea: the

An irrigation company built a ditch into the high country behind the large gulches above mentioned, for the purpose of supplying the five sugar plantations with water for irrigating purposes. This is a remarkable piece of engineering: it winds around the heads of the gulches, up above Pololu, Honokane, Honokea and the others, for the most part tunneled through solid rock, and collects the seepage. This Co. built a trail into the interior, running East to beyond the head of Honopue Gulch. I

Eoline R. Hand

DESCRIPTIVE REPORT

To accompany topographic sheet "D", Waipio Valley to Union Mill, Hawaii.
Soline R. Hand, A. S. C., Chief of Party.

This sheet embraces within its limits the highest cliff line, the deepest gulches, and the wildest and most picturesque country of the entire island. Between Waipio Valley and Pololu Gulch the land slopes back from the sheer cliff edge to over a mile in height: this wild and almost inaccessible region is cut by many exceedingly deep and steep-sided gullies, but due to the difference between the land slope and that of the gulch bottoms, some break through the cliff line very inconspicuously, giving no hint of the ruggedness behind. Waimanu Valley comes next to Waipio in size: at one time much rice was raised here but now the land has been allowed to degenerate into the original swamp. About fifteen persons are now living here. Rice is grown in Pololu Gulch and many people live there, but the other gulches which break through at sea level are not under cultivation, excepting Honokane, which grows a little taro.

There was an extensive landslide during or about the year of 1910 and this spot shows up a conspicuous yellow scar: its centre is listed and should make an excellent off-shore hyd. signal. There was a similar slide many years ago at the spot marked Laupahoehoe, which means "flowing out of Rock" but this one is now vegetation covered: one family lives here and they grow successfully tomatoes, papayas, mangoes, and cocoanuts: their garden is obviously free from molestation. Small boats can make a successful landing on the smooth boulder-shingle beach 200 m. west of house.

Little can be said of the islands: they are merely smooth wedge shaped masses of rock, very sheer.

The bay at Honokane Iki offers fine protection and landing facilities for small boats. Note should be made of the off-shore sunken rock: aside from this the water between Pololu and Waipio appeared free.

Considerable shoal water was noticed between Keokea Harbor and Akokea Pt. and there is more or less coral offshore from here westward to limit of sheet.

Westward from Pololu every available bit of space is cane planted: the pine trees and bushes shown along coast are planted there to serve as wind break for the cane, for the N.E. trade sweeps stiffly across this Kohala Point almost incessantly: every tree in Kohala leans noticeably toward the S.W.

There are four sugar plantations on these sheet limits: Malawa, between Niulii and Kohala Sugar Co. is not shown as it is a mile or more inshore and is not seen from sea. There are in all five plantations in Kohala, the fifth is on next sheet: the official names are shown.

The "Hawaii Railway Co. Ltd" has a line from Mahukona to Niulii Mill, its eastern terminus. Its main province is the transporting of sugar from the five plantations to Mahukona, but it also handles general freight: passenger business is not catered to. Japanese motor busses handle this traffic and very cheaply, up on the main govt. road. This road runs from Pololu Gulch and from Niulii Mill westward through Kapaau P.O. to limit of sheet as indicated. It passes on to Mahukona.

The road shown as going up from A.S. station at Union Mill cuts the main road at right angle, at a point slightly off the edge of sheet, and continues up toward Maimea.

An irrigation company built a ditch into the high country behind the large gulches above mentioned, for the purpose of supplying the five sugar plantations with water for irrigating purposes. This is a remarkable piece of engineering: it winds around the heads of the gulches, up above Pololu, Honokane, Honokea and the others, for the most part tunneled through solid rock, and collects the seepage. This Co. built a trail into the interior, running east to beyond the head of Honopue Gulch.

Soline R. Hand

LIST of Positions

to accompany topog. sheet "D", Waipio Valley to Union Mill, Hawaii Co. T. H.

Eoline R. Hand, Asst. Chief of Party.

Name	♂	DM	λ	D.P.	hei.	Description, and symbol. (various devices and figures in point)
Tim	20	09	1486 339	155° 36'	278 465	Paint, Δ
Bar	08			36	25	" on mound at edge.
Cone	08			36	210	Where the fine rock and dust sitting over edge has formed a semi cone against cliff *
Dub	08			36	25	Paint on two rocks at edge slide.
Vat	08			36	10	Paint.
Met	08		155	37	7	A choc. drop shape rock at H.W.M. at point.
Let	08			37		Paint.
Bit	08			38	10	" junction cliffs beach E. side Waimanu Valley.
Old	08	1673 172		38	673 1070	Seagable 2 story house: circle of point below.
West	20	09		38	15	Paint on cliffs, W. side Waimanu Valley.
Square	09			38	10	Paint, solid square.
Join	09			38	8	" on very large rock.
Pool	09			38	0	Waterfall and pool E. end Laupohoe slide.
Sharp	09		155	39	12	Point top sharp pointed rock.
House	20	10	140 1735	39	676 1077	Centre house of Laupohoe: papaya trees around.
Wet	10			39	0	Waterfall and pool.
Go	10			39	5	Paint at waterfall, ⊕
Tree	10		155	40		Paint on pahoehoe tree.
Slide	10			40	15-20	" ○
Pin	10			40	8	" on strange pin. rock: points inward.
Two	10			41	10	" Δ
Out	10			41	15	" on rock, jutting out from cliff side.
Hon	10			41	3	" junction cliffs beach W. side Honopue Gulch.
Fall	20	11		41		Waterfall
Turn	11			41	0	Point between Honokea and Honopue gulches.
Shaft	11		155	42		Smallest of 3 islands, a pin. rock.
Win	11			42		Inside point middle sized island; outer island.
Sin	11			42		" " largest island.
Low	11			42		Waterfall.
Nice	11			43	3	A round top rock just at base sharp cliff pt. W. side Honokanani Gulch.
Pue	20	12		43		Junction cliffs beach W. side Honokanani Gulch.
Roc	12			43	4	Larger & more Ely. of 2 off shore rocks off Palala.
Pol	12			43		Paint junction cliffs beach on E. side of Palala Gulch.
Gul	12	892 953	155	44	40 1703	" " " " " W. " " "
Point	12			44		Sharp point about 20 m N. of grass covered slide.
Ako	20	13		44	15-20	Paint on outer large rock offshore, Akohia Point
Hook	13			44	15-20	" " " " " Point W. side entrance to little bay.
Off	13			44	10	Highest point of innermost of 3 flat islets E of Niuli mill: highest point of all three.
Flat	13			44		Paint above flat ledge immediately below Niuli Mill.
Geo	13			44	30-35	Paint of point E. side Hecker Harbor.
Grey	13			44	10	" on rock
Fan	13		155	45	25-30	" ledge, middle point Hecker Harbor.
Step	14			45	0	A wash rock, most Wly. of three.
At	20	14		45		Point on cliff S. E. end beach
17	20	14		45	65	" corner of ledge.
Map	14			45	30	" on point below Waipioaiki sta.
Mat	14			45	10	Paint.
What	14			45		(most in doubt, may be point)
Sw	14			45	10	Paint on rock at base of cliffs
Hos	14			45		"
Ref	14		155	46	10	"
Boy	14			46		Derrick on edge cliff
Hot	14			46	30	Point, N. E. corner Maunaloa Pt.
Wed	14			46		Wedge like point at perp. cliff
Dry	14			46	20	A shack.
Isle	14			46	15	Grass topped islet.
Step	20	15	155	47		Outermost point of H.W.M. looks like steps.
Arch	15			47	40-50	Point above & W. of arch.
Bo	15			47	10	"
Vim	15		155	48	65	" at sharp point.
Lone	15			48	5	Rock, out at end narrow wash point.
Cor	15			48	10-15	N. E. corner cliff point just W. of R.R. sta. Union Mill. looks square seen from E.
						* Offshore object, use centre yellow slide.

Applied to compilation 4140 J.M.A. June, 1941