

DESCRIPTIVE PEPORT

to accompany

Topographic Sheet # A., East coast Kauai Island, T.H.

Blem L. Garner, Chief of Party

Director's instructions dated Nov. 23,1928

EXTENT:

This sheet includes the shore-line and signals on the east coast of Kauai Island from Makahuena Pt. to the village of Kapaa. The surveys of Nawiliwili and Hanamaulu Bays were accomplished on large scale sheets.

GENERAL DESCRIPTION:

Makahuena Pt., the southeast point of Kauai Island, is a low rocky point marked by a lighthouse. From Makahuena Pt. to Kawelikoa Pt. the shore-line is low and rocky with eccasional stretches of sand beach. Kawelikoa Pt. is a high black rocky point about 680 feet high which drops off rapidly to the water's edge. Back of this stretch of coastline the land is used chiefly for the cultivation of sugar cane. From Kawelikoa Pt. to Nawiliwili Bay the shore-line is mostly steep and rocky. The area back of this is high and rugged and much cut up by valleys. From Nawiliwili Bay to the northern limit of the sheet the shore-line is mostly sandy and the country is low and rolling. Sugar cane is grown here in large quantities.

Breakers extend off-shore almost continuously from Makahuena Pt. to Nawiliwili Bay but landings can be made in smooth weather back of the point near topographic signal BUT and in the small bight near signal BLIND. Breakers are almost continuous from Nawiliwili Bay to Hanamaulu Bay and from Hanamaulu Bay to Lehuawehe Bay. The limits of breakers are shown on the hydrographic sheet of this area.

Nawiliwili Bay and Hanamaulu Bay are the principal ports on the island. The surveys of these bays were accomplished on large scale sheets. Hanamaulu Bay, the port of which is known as Ahukini, is the only port on the island where ships may go alongside the dock at present.

SURVEY METHODS:

The survey was accomplished by the usual plane-table methods except for a small part which was located by neextant cuts.

From triangulation station MAKAHUENA to KAWELIKOA a combination of traverse and three point fix was used, closing on KAWELIKOA with an error of 4 meters which was adjusted. A traverse was run from KAWELIKOA to topographic station WEN and the shore-line rodded in to within 100 meters of topographic station WHIR. The position of topographic station WHITE was determined by plane-table cuts from Ninini Light and Kukii Light and the location was checked by running a traverse from Kukii Light to WHITE. From WHIR to WHITE the shore-line could not be traversed by plane-table but was located by sextant cuts taken from the ship.

SURVEY METHODS: (continued)

From Ninini Light to Derrick a traverse was run closing with an error of 5 meters and a traverse was run from DERPICK to AHUKINI LIGHTHOUSE with an error of 4 meters. Both traverses were adjusted. From AHUKINI LIGHTHOUSE to POLO a combination of traverse and three point fix was used checking the traverse positions by three point fix. From POLO a traverse was run to EAST STACK KAPAA closing with an error of 6 meters which was adjusted.

No attempt was made to locate contours and topographic features inland because the area seemed adequately covered by the U.S. Geological Survey map of this island.

List of plane-table positions and statistics accompany this report.

Pespectfully submitted,

Approved and forwarded,

Thief of Party

Impeter January, 1928.

Six Do pointo on this sheet different from the field competations, with a maximum difference of 25 meters. They have been correctly plotted in The Mfice.

The only topography that appeared to be affected by the erronewally located points was that between Kickin Lt. and OWhite. As The topography in this location is also shown on T.4292 it has been erased from T. 4296 north of OWhite.

To agree with T. 4292. E.P. Ellis.

LIST of PLANE TABLE POSITIONS to accompany
Topographic Sheet # A, East coast Kauai Island, T.H.

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Object	Latitude		D.M. meters	Longitude		D.P. meters	Remarks
Mak	21 ⁰	521	(15 55) 290	159 ⁰	26	(335) 1388	Center of Makahuena Pt. lighthouse.
Loa	21	53	(19) 1826	159	26	(210) 1513	Koloa Mill Chimney.
B y	21	53	(775) 1070	159	24	(820) 902	Center of conspicuous detached islet.
Blind	21	5 5	.(1469) - 376	159	23 `	(1389) - 333	Flag staff on north gable of green house.
Vane	22	00	(1193) * 650	159	20	(1143) 578	Weather vane on north end of barn.
Fen	22	00	(528) 1317	159	20	(1111) 610	End fence post on sand beach.
Ree	22	02	(1495) 350	159	20	(1204) 517	Lone green tree.
Gin	22	02	(377) 1468	159	20	(1193) 528	White railroad crossing sign, north of bridge.
Sign	22	02	9 335) 1510	159	20	(1210) 511	White square sign, north of Gin.
Square	22	03	(1787) 58	159	20	(1367) 354	White square sign on beac south of Japanese temple.
₩₽	22	03	(1618) 227	159	20	(1594) 127	Flag pole back of Japanes temple.

Statute miles of shore-line - - - - - 20.1 Statute miles of roads and railroads - 13.3

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4296...

State . Hawaiian !s.

General locality . East coast Kauai !sland ...

Locality . Makahuena Point to Kapaa ...

Chief of party . Clem L. Garner ...

Surveyed by . J.C.Partington ...

Date of survey . February 1927.

Scale . 1 : 20,000. ...

Heights in feet above Mean high water.

Contour interval feet.

Inked by . J.C.P. ... Lettered by ... J.C.P. ...

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet ...

Remarks:

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4296