

4298

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director

C. & G. SURVEY

L. & A.

DEC 30 1927

Acc. No.

State: Hawaiian Is.

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No.

4298

LOCALITY

Hawaiian Islands

Kauai Island

East and north coast Kauai

1927

CHIEF OF PARTY

F. G. Engle

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT
to accompany
Topographic Sheet # D, East and north coast Kauai Id. T.H.

F.G. Engle, Chief of Party

Director's instructions dated Nov. 23, 1926.

EXTENT:

This sheet includes the shore-line and signals; on the east coast of Kauai Island from Latitude $22^{\circ} 04\frac{1}{2}'$ N. to Latitude $22^{\circ} 07\frac{1}{2}'$ N., on the northeast coast from Latitude $22^{\circ} 10\frac{1}{2}'$ N. to Latitude $22^{\circ} 13'$ N., and on the north coast from Longitude $159^{\circ} 27\frac{1}{2}'$ W. to Longitude $159^{\circ} 29\frac{1}{2}'$ W. The surveys of Anahola, Kilauea, Kalihiwai, and Hanalei and Wainiha Bays were accomplished on separate sheets on a scale of 1 : 5,000.

This sheet connects on the south with Topographic sheet # A, east coast Kauai Island; and on the west with Topographic sheet # I, Hanalei and Wainiha Bays.

GENERAL DESCRIPTION:

The shore-line from Kapaa to Kealia is low and is mostly a sand beach. North of Kealia a stone breakwater extends out about 100 meters. Small craft anchor behind this breakwater in rough weather. From topographic station FIT to triangulation station DRIFT the shore-line is low and rocky with occasional short stretches of sand beach. The area inland from Kapaa to triangulation station DRIFT is low and used for the cultivation of sugar cane.

From triangulation station PAPAA to topographic station JACK the shore-line is low and rocky. A rock bare at low water is located in Papaa Bay about 320 meters ~~north-by-east~~ true of topographic station SIGN. From topographic station JACK to the east side of Moloaa Bay the shore-line is a boulder strewn beach, back of which the ground rises almost vertically to an average height of about 200 feet. Pineapples are grown in this region.

Moloaa Bay is a small bight about $\frac{1}{4}$ mile wide and indents the coast about the same distance. The head of the bay is a sand beach with a few scattered houses. During the northeast Trades a heavy swell sets into this bay and there is very little protection except in southerly weather. In smooth weather small boats may land back of the point just south of topographic signal FAL.

From the west side of Moloaa Bay to Kapuhi Pt. the shore-line is low and mostly sandy. The land back of this is low and cut up with valleys leading to the coast. A coral reef fringes this part of the coast, the limits of which were sketched in by the hydrographic party.

From triangulation station HONONO to topographic station BAT the shore-line is low and sandy. From topographic station BAT to triangulation station CAM the coast is mostly rocky ledges with occasional stretches of boulder strewn beaches. A coral reef fringes this shore-line, the limits of which were sketched in by the hydrographic party. Back of this coast the ground rises abruptly to a height of from 100 to 200 feet and forms a rolling table-land which is used for grazing.

LANDMARKS:

The prominent landmarks on this sheet are: Gray Chimney Kapaa, Black Chimney Kealia, Kamoku, and Kilauea Mill Chimney.

Gray Chimney Kapaa is a gray masonry chimney 114 feet high in the village of Kapaa. Black Chimney Kealia is a black steel stack at the north end of the sugar mill at Kealia. A gray chimney is close to the black steel stack but the latter is the higher and more prominent of the two. Kamoku is a dome shaped hill with a conspicuous clump of trees on the highest point. This hill is about 200 feet higher than the surrounding country and is easily recognized from the east or north-east. Kilauea Mill Chimney is the black steel stack of Kilauea Sugar Mill. This chimney is prominent from off-shore but is obscured when close to the coast.

SURVEY METHODS:

The survey was accomplished by the usual plane-table methods. Traverses were run between the following triangulation stations with corresponding closures:

	Closure	Distance
DERRICK to LIA	3 meters	1 mile
LIA to DRIFT	8 "	2 "
PAPAA to MOLOAA	4 "	1 "
MOLOAA to PINE	2 "	1 "
PINE to HUDDY	4 "	1 $\frac{1}{4}$ "
HONOKO to HANAIEI	6 "	1 $\frac{3}{4}$ "
HANAIEI to CAM	2 "	$\frac{3}{4}$ "

These closures are within the required limits and the local field adjustments were applied.

No attempt was made to locate contours because the area seemed adequately covered by the U.S. Geological Survey Map of the island.

List of Plane-table Positions and Statistics accompany this report.

Respectfully submitted,

J. C. Partington
Topographer

Approved and forwarded,

R. G. Hughes
Chief of Party

Inspected January, 1928 and found adequate.

E. P. Ellis

LIST of PLANE-TABLE POSITIONS
to accompany
Topographic Sheet # D, East and north coast Kauai Island T.H.

Object	Latitude	D.M. meters	Longitude	D.P. meters	Remarks
Jap	22° 04'	(660) 1185	159° 19'	(1406) 314	Glass ball on top of gray stone monument.
Pole	22 04	(369) 1476	159 18	(30) 1690	White flag pole on beach.
Flat	22 06	(865) 980	159 17	(181) 1539	Seaward end of dumping platform.

Statute miles of shore-line 11.8
Statute miles of railroads & roads 6.6

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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.

4298

U. S. Coast and Geodetic Survey.

Register No. ^D 4298

State . . . ~~Hawaiian Is.~~

General locality . . ~~Kauai Island~~

Locality . . ~~East and North coast, Kauai Island~~

Chief of party . ~~F.G. Engle~~

Surveyed by . . ~~J.C. Partington~~

Date of survey . ~~April and July 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: