

4300

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. 4300

LOCALITY

Hawaiian Islands

Kauai Island N. Coast

Kilauea Bay

Kapuhi Pt. to Kilauea Pt.

1927

CHIEF OF PARTY

F.G. Engle

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT
to accompany
Topographic Sheet # F., Kilauea Bay, Kauai Island, T.H.

F.G. Engle, Chief of Party

Director's instructions dated Nov. 23, 1926.

EXTENT:

This sheet includes the shore-line from Kepuhi Pt. to Kilauea Pt. It connects on the east with Topographic Sheet # D. and on the west with Topographic Sheet # G. This sheet also includes topographic features in the vicinity of Kilauea Bay.

GENERAL DESCRIPTION:

Kilauea Bay is a small open bight which indents the coast about three eighths of a mile and affords little protection except in southerly weather. From Kepuhi Pt. to Mokolea Pt. the coast line is low and cut with numerous valleys, back of which are large sugar cane fields. The head of Kilauea Bay is a sand beach. The Kilauea River empties into the bay at the west end of this beach but its mouth is obstructed by rocks and has a depth of from one to two feet at high water. Small boats may ascend the river about one mile.

Mokolea Pt. is a black rocky point about 140 feet high and is marked by two black buildings and a derrick. West of Mokolea Pt. the shore-line is steep and rocky and rises to a height of 568 feet about midway between Mokolea and Kilauea Pts. The land back of this coast-line is used chiefly for grazing.

Makapili Pt. is a rocky peninsula 156 feet high which appears as a high rock close to shore when seen from sea-ward. A natural arch about 30 feet wide and 25 feet high extends through this peninsula in an east and west direction but cannot be seen except when close to shore. Kilauea Pt. is a precipitous rocky bluff marked by Kilauea Pt. lighthouse. Mokuasae Island, just north of Kilauea Pt., appears as a large rock when viewed from sea-ward.

Steamers of the Inter-island Steam Navigation Co. call regularly at Kilauea Bay and cargo is handled between the steamer and shore by a cable. The chief export is sugar which is hauled on a narrow gauge railroad from Kilauea Sugar Mill $1\frac{1}{2}$ miles inland.

LANDMARKS and AIDS to NAVIGATION:

The only landmarks on this sheet are Kilauea Pt. Lighthouse and the black steel stack on Mokolea Pt. named Kilauea Landing Stack. Both of these were located by triangulation.

The buoys shown in Kilauea Bay are used to moor to when steamers are loading or discharging cargo.

SURVEY METHODS:

The three triangulation stations, RUDDY, KILAUEA LANDING STACK, and KIL furnished control for the shore-line traverse. The work was accomplished by the usual plane-table methods. A traverse was run from RUDDY to KILAUEA LANDING STACK with a closing error of 16 meters which was adjusted. From KILAUEA LANDING STACK to KIL a traverse was run closing with an error of 6 meters which was adjusted. A spur traverse was run up the Kilauea River and checked by a re-section on KILAUEA.

Elevations were obtained by intersecting cuts with vertical angles, and by vertical angles and rod readings.

Statute miles of shore-line	- - - - -	6.1
Statute miles of rivers	- - - - -	0.6
Statute miles of roads and railroads	- - - - -	1.3

Respectfully submitted,

Approved and forwarded,

J. C. Partington
Topographer

H. V. Eagle HVE
Chief of Party

Inspected and found adequate, except for the location of Kilauea Pt. lighthouse which was placed 14 meters west of its correct location.

E. O. Rees

Feb. 13, 28

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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.

4300

U. S. Coast and Geodetic Survey.

Register No. ^F 4300

State . . . Hawaiian Islands

General locality . ~~Kauai Island~~ North Coast

Locality Kilauea Bay, ^{Kapuhi Pt. to Kilauea Pt.} ~~North coast Kauai Island~~

Chief of party . F.G. Engle

Surveyed by . . J.C. Partington

Date of survey . May 1927

Scale 1 : 5,000

Heights in feet above . Mean high water

~~Form line~~
~~Contour~~ interval . 20 . 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: