4230

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Hawaiian Is.

11—5613

DESCRIPTIVE REPORT.

Topographic | *Sheet No.* 3 4230

LOCALITY:

S. Coast of Kauai

~~South coast Kauai Island~~

Lawai Bay to Anakua Pt

~~Hanapepe and Waimea Bays~~

1926

CHIEF OF PARTY:

Clem L. Garner

4230

DESCRIPTIVE REPORT

to accompany

Topographic Sheet #3, South Coast Kauai Island, T. H.

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Instructions to Chief of Party dated May 1, 1926.

Limits:

The topography on this sheet includes a survey of the south shore of Kauai Island from Makaweli to about three miles west of Makahuena Point and connects the shore line with the topographic sheets on either side. This work was done on a scale of 1:20,000 .

In addition, a detailed survey of Hanapepe and Wahiawa Bays was made on a scale of 1:5,000 .

General Description:

As seen from seaward the area shown on this sheet is rolling and gently sloping toward the sea and is covered with sugar cane fields. Rows of trees fringe the edges of the fields and are scattered along the shore line. The central part of the island is rugged and mountainous and the peaks are often covered with clouds.

Except for the sand beach in Iawai Bay, the shore line from triangulation station HORN to triangulation station GOV is steep and rocky and varies in height from 25 to 100 feet. From triangulation station GOV to the west side of Hinalua Point the shore line is low and rocky, averaging about 10 feet in height. From the west side of Hinalua Point to the east side of Hanapepe Bay the shore line becomes steep again and ranges from 30 to 70 feet in height. From the east side of Hanapepe Bay to topographic station POW the shore line is low, rocky and full of indentations.

Ships approaching Hanapepe Bay will find the Hanapepe Lighthouse on Puolo Point, west entrance to the bay, the most conspicuous landmark. Other outstanding objects are; the white oil tanks of the Standard Oil Co. , the white flagstaff at triangulation station EIEEIE, and the gray buildings of the McBryde Sugar Co. 1 1/2 miles Eastward.

The mooring buoys in Hanapepe Bay and the fixed red light on the east side of the bay are maintained by the Kauai Ry. Co.

Accompanying this sheet is a photograph of Port Allen showing the harbor.

Inshore Dangers:

The only inshore danger on this sheet is Lanipuao Rock about ¼ mile SSE of Hinalua Point. The position and depth of water on this rock is shown on hydrographic sheet number 6 . Ships approaching this vicinity should keep outside of the red buoy shown on this sheet.

Ports:

The only port on this sheet is Port Allen in Hanapepe Bay. Steamers of the Inter-island Steam Navigation Co., Matson Navigation Co., and others call here to load and discharge sugar, passengers, oil, and other cargo. Passengers and freight are lightered from the ships to the docks in gas and whale boats.

The village of Hanapepe is situated on the Hanapepe River about one-half mile inland. Several small stores, two garages, and a postoffice are located here. Food, water, and general merchandise may be purchased in limited quantities.

Streams:

The only stream of any size on this sheet is the Hanapepe River. This river is shallow and of very little importance for navigational purposes because it's mouth is constricted by a sand spit. At the mouth of the river the greatest depth at time of low water is from one to two feet.

Survey Methods:

Beginning at topographic station POW (plotted from Topographic Sheet #1) a traverse was run to triangulation station PUOLO closing with an error of 4 meters. From triangulation station PUOLO to triangulation station ELEELE the signals were located by graphic triangulation and checked by resection. The shore line was rodded in from setups at the topographic stations. On the 1:5,000 sheet the position of topographic station DEN was determined by cuts and checked by a traverse run from triangulation station ELEELE.

On the 1:20,000 sheet a traverse was run from triangulation station ELEELE to triangulation station GOV closing with an error of 33 meters which was adjusted. A traverse was also run from triangulation station GOV to triangulation station HORN closing with an error of 5 meters.

The buildings and roads in Port Allen were located by a spur traverse and the final position of the plane-table was checked by resection.

No attempt was made to locate contours on this sheet because this area seemed adequately covered by U.S. Geological Survey maps. Railroads were transferred from a map from the McBryde Sugar Co.

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

Respectfully submitted,

Joe C. Partington
Joe C. Partington
Topographer.

Approved and forwarded,

Clem L. Garner
Clem L. Garner,
Chief of Party.

LIST of PLANE-TABLE POSITIONS.

Object	Lat.	D.M. meters	Long.	D.P. meters	Remarks
Barn	21° 54'	(1590) 256	159° 37'	(1640) 81	Seaward gable of small barn
Tree	53'	(181) 1658	36'	(661) 1056	Large tree in bight NW of Puolo Pt.
Shed	53'	(504) 1336	36'	(660) 1053	SW corner of old shed
Blink	53'	(736) 1109	36'	(1016) 702	Hanapepe Lighthouse on Puolo Pt.
Ore	53'	(392) 1454	36'	(1700) 18	Cairn of whitewashed rocks
Wind	54'	(1408) 432	35'	(409) 1314	Wooden tower, head of Hanapepe Bay.
Pole	54'	(1308) 532	35'	(560) 1160	Flag pole, west side of river.
Der	54'	(1751) 90	35'	(981) 732	Derrick on north dock
Jap	53'	(232) 1614	35'	(1479) 236	Small Japanese shrine N of cemetery.
Palm	53'	(218) 1627	34'	(539) 1178	Large palm tree, NW corner Wahiawa Bay
Club	53'	(271) 1575	34'	(672) 1046	Half-circle on gable of house
Pol	53'	(1817) 22	31'	(426) 1290	Flag pole on Hinalua Point.

Statute miles of shore line 11.1

" " " railroads & roads 12.6

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON April 9, 1927.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4230

Lawai Bay to Anakua Pt., Kauai, H. I.

Surveyed in 1926

Instructions dated November 23, 1925 and May 1, 1926
(DISCOVERER)

Chief of Party, C. L. Garner.

Surveyed and inked by J. C. Partington.

1. The records conform to the requirements of the General Instructions.

2. The plan and character of the survey satisfy the requirements of the General Instructions, except for the omission of a magnetic meridian.

3. The specific instructions called for a complete topographic survey. With the exception of Hanapepe Bay this survey contains practically nothing but shoreline. The descriptive report states that the Geological Survey map of Kauai (scale 1:62,500) should be used for contours. With the exception of a strip of topography one-fourth mile wide around Hanapepe Bay all topographic details will have to be enlarged from the Geological Survey map in charting. Topographic sheets 4206 and 4234 by party of C. L. Garner which adjoin this survey contain complete details for one to two miles inland from the shoreline.

   If original surveying by the Coast and Geodetic Survey of the inshore details were necessary on these two sheets, it would seem to be necessary on sheet 4230 also.

   The name Port Allen was omitted from the sheet.

4. The character of the surveying and field drafting are excellent, but the scope of the surveying is only fair.

5. Reviewed by E. P. Ellis, April, 1927.

Approved:

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Chief, Section of Field Records (Charts)

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Chief, Section of Field Work (H. & T.)

Form 537a
11—5813

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.

4230

U. S. Coast and Geodetic Survey.

Register No. 4230

State . Hawaiian Is. . . . . .

General locality . ~~Kauai Island~~ S. Coast of Kauai . . . . . .

Locality . ~~South coast, vicinity of Hanapepe and Wahiawa Bays.~~ Lawai Bay to Anakua Pt.

Chief of party . Clem L. Garner . . . . . .

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

Date of survey . May 1926 . . . . . .

Scale . . . 1 : 20,000 and 1 : 5,000 . . . . . .

Heights in feet above . Mean high water . . . . . .

Contour interval . . . . feet.

Inked by J.C.Partington Lettered by . J.C.Partington . . . .

Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet . . . . . .

Remarks: Photo of Port Allen (Eleele) see Library I.H.C.

I.H.C