

4406

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. Lester Jones *Director*

Hawaiian Is.
State of Hawaii.

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. "A" 4406

LOCALITY

0.8 mile East of
North Coast of Hawaii

To

Honokaa

0.7 mile West of

Honokaa, Hawaii, T. H.

1929

CHIEF OF PARTY

K. T. Adams.

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET

NO. "A"

SCALE 1:2,500

NORTH COAST OF HAWAII ISLAND

SURVEYED NOVEMBER 1928 TO JANUARY 1929

K. T. Adams, H. & G. Engineer, Chief of Party.
George W. Lovesee, Aid, Topographer.

LIMITS:

The work on this sheet covers the shore line from approximately 0.8 mile east of Honokaa Mill Landing to 0.8 mile west of the landing, Honokaa, Hawaii, T. H.

CONTROL:

The control consists of two triangulation stations inland about one-half mile from the shore line. Triangulation station Au was established in 1877 by the Hawaiian Government Survey. Triangulation station Stack Honokaa was established in 1913 by E. R. Hand. A third signal called Honokaa Mill Station was used. The location of this signal was secured from the Plantation Engineer at Honokaa Sugar Co. When checked with plane table and rod reading was found to check exactly with location given by the Plantation engineer.

As it was impossible to occupy station Stack Honokaa, the field work was started from Honokaa Mill Station. A plane table traverse was run down an inclined cable railway to the beach, checking on the three signals when possible.

These are the only triangulation stations in this vicinity which come within the limits of the sheet.

METHOD:

The plane table traverse method was used on the entire sheet, checking when possible with three point fixes on the two triangulation stations and the Topo. station.

Small signals for inshore hydrographic work were built in advance of the plane table work and were located by rod readings with check readings. These signals consisted mostly of rock cairns painted with white wash.

High cliffs and rough water made it impossible to rod in the high water line. Rod readings were obtained at the edge of the cliffs and high water line was cut in with the alidade. The cliffs along the entire shore line on this sheet are practically vertical and from 50 to 200 feet in height. Rough country and sugar cane thru which it is impossible to run traverse made it necessary to close the work with three point fixes.

GENERAL DESCRIPTION OF LOCALITY:

There is no beach on the limits of this sheet. It is a stern rock bound coast with rocky vertical cliffs ranging in height from 50 to 200 feet. Back of the cliffs the land rises gradually to an elevation of about 600 feet at the southern limit of the sheet. Practically all the land is cultivated, being planted to sugar cane. There are a few scattered groves of trees in the more rocky sections. The shore line is also planted to ironwood, algeroba, lauhala, and guava trees to protect the cultivated land from salt spray.

There is no sand beach on this sheet. Most of the high water line is made up of huge rocks and boulders which have fallen from the cliffs above. These rocks vary in size from one and two feet to ten feet in diameter.

PROGRESS:

Work was begun on November 7, 1928 and completed on January 30, 1929.

STATISTICS:

Statute miles of high water line	-----	2.8
Statute miles of low water line	-----	0.0
Area in square statute miles	-----	0.6

All work was done by a shore party of one officer and 3 seamen stationed at Honokaa Sugar Co. Plantation, Hawaii, T. H.

APPROVED,

K. T. Adams
K. T. Adams,
H. & G. Engineer,
Chief of Party.

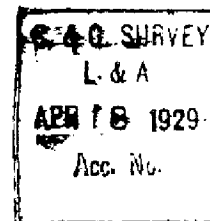
RESPECTIVELY SUBMITTED,

George W. Lovesee
George W. Lovesee,
Aid, C. & G. Survey.

Departures of the Meridian & Parallel for Topographic Signals at Honokaa, Hawaii.

NAME	LATITUDE	LONGITUDE	APPROX. ELEV.	DESCRIPTION
Tank	20° 06' (1393) 452	155° 28' (1006) 737	70'	Oil Tank
Oil	" (1386) 459	" (956) 787	70'	Oil Tank
Chim	" (1326) 519	" (979) 764	30'	Chimney on boom hoist building.
Mill Station	20° 05' (310) 1535	" (926) 717	490'	Flag on 16' two by four.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



REG. NO. 4406

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "A"

REGISTER NO. 4406

State Territory of Hawaii.

General locality North Coast of Hawaii ~~Island~~.

Locality Honokaa, Landing

Scale 1 - 2500. Date of survey Nov. 1928 to Jan., 1929

Vessel U. S. C. & G. S. S. GUIDE

Chief of Party K. T. Adams

Surveyed by G. W. Lovesee

Inked by G. W. Lovesee

Heights in feet above MTL to ground ~~topography of coast~~

~~Contours~~, Approximate contour, ~~Contours~~ 10 feet

Instructions dated October 8, 1928

Remarks: