

4206

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Hawaiian Islands

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. 4206

LOCALITY:

~~Koloa Landing, Kauai Id.~~

Koloa Landing and

~~Pt. H.~~

Makahuena Pt.

19²⁶

CHIEF OF PARTY:

Clem L. Garner, Lieut. Comdr.

DESCRIPTIVE REPORT
to accompany

TOPOGRAPHIC SHEET NO. _____.

KOLOA LANDING, KAUAI ISLAND, T. H.

Clem L. Garner - - - - - Chief of Party.
Instructions dated Nov. 23, 1925.

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TERRITORY COVERED: This survey covers the shoreline of the south Coast of Kauai in the vicinity of Koloa Landing, from the Spouting Horn eastward to a point about $2\frac{1}{2}$ miles northeast of Makahuena Point.

GENERAL DESCRIPTION OF THE COAST: The most conspicuous feature of the area is Makahuena Point, the summit of which is an old crater about 130 feet above sea level. From seaward the point appears as a long sandy ridge terminating in rocky cliffs from 10 to 40 feet in height. Makahuena Point Lighthouse was found as described in the current light list. Inshore from Makahuena Point is a long, low ridge, the first summit being marked by a rocky crater, the final summit being covered with low brush. The slopes of the ridge are planted in cane. To the westward of Makahuena Point is a group of houses extending along the coast about $\frac{3}{4}$ mile. The remaining half mile to Koloa Landing is covered with a thick growth of cactus.

Koloa Landing is an open roadstead, with a small slip of timber, rock and concrete to accomodate whaleboats. The platform on the west side of the slip is housed over with an open wooden shed, and a derrick run by a donkey-engine is located on the east side. There is a frame warehouse a short distance from the landing and a small office building with telephone connections. These buildings are built against a rocky cliff about 25 feet in height, which extends, with gradually diminishing height, about 200 yards to the eastward. A narrow gage railway runs along this cliff to its end, then bears northeasterly to the Koloa Sugar Company's mill. A road, surfaced for the greater part of its length, leads from the landing to the town of Koloa, about 2 miles inland. Roads parallel the beach in either direction, the one leading east terminating with the group of houses mentioned above, the one leading west extending beyond the limits of the survey.

The shoreline west of Koloa Landing is made up of a series of rocky and sandy beaches. Kukuiula Bay, $1\frac{1}{4}$ miles from the landing, affords excellent shelter for small boats, during northeasterly weather, and is the site of a small fishing village.

LANDMARKS: As stated above, the principal landmark located by the survey is Makahuena Point, with the lighthouse near its extremity. The low cliff at Koloa Landing serves as a convenient mark for coming in to the anchorage, as does the small bight about 30 meters west of the landing. The Spouting Horn, at the western extremity of Kukuiula Bay, throws a column of water in the air even in smooth weather. Koloa Mill Chimney is quite conspicuous from seaward.

PERMANENCY OF THE COASTLINE: There appears to be no likelihood of any perceptible change in the coastline as the determining points are of hard rock, and the short sand beaches seem well established. There are no active volcanoes in this region.

SURVEY METHODS: Beginning at Δ Horn, with orientation on Makahuena Light (old position) a plane table traverse was run eastward along the beach, checking on such old stations as could be recovered. A four inch iron pipe set in concrete was found at the approximate position of Δ Post, and is believed to be a re-marking of this station by a local survey. In passing Δ Small White House, the traverse was checked by a rod reading on the house. A spur traverse was run to Δ Koloa Warehouse, East Gable, checking exactly on the center of the east end of an old foundation. The warehouse itself has been removed. The main traverse was continued up the beach, checked but not corrected by resections on Δ Koloa Church Spire, past High Gable S.E., on which an approximate check was had by resection, to the foundation of the old lighthouse, with a closure of 12 meters in distance. Because of the geometric weakness of the traverse between \odot Red and \odot Boni, the bulk of the adjustment was applied to \odot Pipe and \odot Boni, with a slight correction carried back as far as \odot Bench. \odot Flag and \odot Koloa Mill Chimney were located by graphic triangulation from points along this traverse.

From a setup on top of the present lighthouse (\odot Mak) the control was carried forward a distance of 2 miles to the 122 foot hill shown on the sheet by a combination of traverse and graphic triangulation, principally resections on Koloa Mill Chimney. From this point to the limits of the sheet the shoreline was determined solely by graphic triangulation.

\odot Spire and \odot Tree were located by cuts from one or two points along the beach and from a number of three point setups along the road past Δ Koloa Church Spire. The detail of the town of Koloa was transferred from a map obtained from a local surveyor, using these points as control. A traverse was run up the road leading inland from Koloa Landing, and swung in on \odot Spire.

STATIONS RECOVERED: Stations, Horn, Post, Small White House, Koloa Warehouse, E. Gable, High Gable SE, Makahuena Lighthouse and Koloa Church Spire were recovered. Stations Koloa Station, Nuk and Al were not recoverable.

(Point)	(Latitude)	(D.P.)	(Longitude)	(D.M.)
Spouting Horn	21 53	183.2	159 29	1287.2
Gable (<i>See Desc. below</i>)	21 53	97.4	159 29	650.0
Crusher	21 52	1801.4	159 28	1581.0
Pole	21 52	1687.1	159 28	1038.2
Derrick	21 52	1416.6	159 28	450.5
Red	21 52	745.8	159 27	592.7
Pipe	21 52	430.0	159 26	1649.6
Mak	21 52	294.7	159 26	1373.3
Sign	21 52	842.0	159 26	986.3
Flag	21 53	1807.0	159 28	1631.7
Spire (<i>See below</i>)	21 54	08.9	159 28	226.2
Tree	21 54	51.0	159 28	78.8
Koloa Mill Chimney	21 53	1820.8	159 26	1503.6

SIGNALS ESTABLISHED:

- Spouting Horn - The blow-hole locally known by this name.
- Gable - The west gable of the house on the point at the east side of Kukinula Bay.
- Crusher - An "A" frame on the west side of a rock crusher on the north side of the road, 3/4 mile west of Koloa Landing.
- Pole - A flagpole on the grounds occupied by "Small White House".
- Derrick - The derrick at Koloa Landing.
- Red - A small house
- Pipe - A short length of 1" pipe projecting from the ground. Evidently a survey mark.
- Mak - Makahuena Point Lighthouse (present position).
- Sign - A "No trespassing" sign set in a rock wall.
- Flag - Not visited. Believed to be a target marking a station of the Hawaiian Government Survey.
- Spire - The spire of the Hawaiian Church in Koloa.
- Tree - A tall evergreen tree in the parsonage grounds, Koloa. Visable from seaward.
- Koloa Mill Chimney - The steel stack of the sugar mill of the Koloa Sugar Company.
- s West, East, Rag, Bench, Boni, Al (1926), Can and Cave not permantly marked.

Respectfully submitted

Approved and forwarded:

Earl M. Buckingham
Earl M. Buckingham, Lieut. (j.g.)

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

STATISTICS SHEET TO ACCOMPANY TOPOGRAPHIC
SHEET NO. _____

Miles of shoreline : 8.5 (Statute)

Miles of roads: 9.5 "

Area: 9.5 (Sq. Statute)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

4206

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. 4206

State . . . Hawaiian Islands

General locality Kauai Island

Locality Koloa Landing and Makahuena Pt.

Chief of party . . Clem L. Garner, Lieut. Comdr.

Surveyed by . . . Earl M. Buckingham, Lieut. (j.g.)

Date of survey . . January & February, 1926.

Scale 1:10,000

Heights in feet above . Mean High Water

Contour interval 100 . . feet.

Inked by . . E.M.B. Lettered by . . E.M.B.

Records accompanying sheet (check those forwarded): Photographs,

☒ Descriptive report, ☒ Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: