

4489

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, *Director*

C. & G. SURVEY

L 1

DEC 23 1929

Acc. No.

State: Territory of
Hawaii.

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. "L" 4469

LOCALITY

S-E Coast of Hawaiian Is.

Punaluu, Hawaii

1929

CHIEF OF PARTY

K. T. Adams, H & G E

GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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 Letter "L"

REGISTER NO.

State Territory of HawaiiGeneral locality S E Coast of HawaiiLocality Punaluu, Hawaii.Scale 1:2,500 Date of survey October 18 to 24, 1929Vessel U.S.C. & G.S.S. GUIDEChief of Party K. T. AdamsSurveyed by W. H. BainbridgeInked by W H B

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated June 17, 1929

Remarks: _____

DESCRIPTIVE REPORT
to accompany

TOPOGRAPHIC SHEET "L".
Scale 1:2,500
Punaluu, Hawaii.

AUTHORITY: Director's Instructions dated June 17, 1929.
DATE OF SURVEY: October 18 to 24, 1929.
CHIEF OF PARTY: K. T. Adams, H & G E.
TOPOGRAPHER: W. H. Bainbridge, Jr. H & G E.

LIMITS: The sheet includes the shore line from about one mile east to one mile southwest of Punaluu, and the village of Punaluu.

CONTROL: The sheet was controlled by three triangulation stations: CHURCH, Punaluu, 1914, and PUN and LIU. The latter two were established this year for the control of this sheet and the hydrographic sheets.

METHODS: The usual plane table methods were used. Three men and an officer formed the party. First the traverse was run locating the hydrographic signals; then the topography was done. The traverse was begun at triangulation station LIU and was closed on triangulation station PUN, with a closing error of five meters, which was adjusted proportionally.

STATISTICS:	Statute miles of traverse.....	2.45
	Closing error in meters.....	5.0
	Signals built.....	22
	Statute miles of shore line.....	4
	Signals located.....	31
	Working days.....	7
	Men on party.....	3

GENERAL DESCRIPTION: Rough, Aa, lava extends from the southwestern limit of the sheet to the old fish pond north of station HAY, forming almost perpendicular cliffs about 20 to 25 feet in height. The pahoehoe, smooth, lava, extends from there to the black sand beach north of station SOT, with sandy stretches in between. The elevations of stations TOP and SOT are about twelve feet, with a lower general elevation between. The sand beach is higher than the ground immediately inshore.

The aa lava begins at station PAN and then rises to cliffs again of about 20 to 25 feet in elevation at station RIK, and both cliffs and aa lava extend to station GIB, where the pahoehoe lava commences and extends to triangulation station PUN, which is from 12 to 15 feet in elevation. The general elevation between the two latter stations is 8 to 10 feet.

The marshes shown north of stations HUT and DIE are merely shallow pools filled with brackish water, grass and reeds.

The small pool west of station TIN is fed by a spring. The natives bathe, and wash clothes in this pool.

The pool north of station TOP is a few inches above sea level at high tide. It is fed by springs or seeps and is only slightly brackish.

A stream of brackish water runs out from under the rocks at the lower western end of the old fish pond north of station HAY.

REMARKS: Punaluu is the port for Pahala, where the sugar mill of the Hawaiian Agricultural Co. is located. But this landing is being abandoned in favor of Honuapo landing.

At both places freight is conveyed in small boats between the ships anchored offshore and the landings.

According to local information landings can be made at Honuapo when it is impossible to land at Punaluu.

The oil tank, station WHITE, and the outermost warehouse, the outermost gable of which is station GAB, were being torn down at the time the survey was made.

Because of the thickness of the grove of coconut palms, algeroba, and other trees; and lack of time, a detailed survey of the village was not made. But two brown prints, one of the landing and warehouses and another of the village, were obtained from the engineering office of the Hawaiian Agricultural Co.

Two marked points on each print are identical and are marked ① and ② on both, with additional marks for combining the two. The warehouses, station GOT, and fence corners may be used in tying the prints to the sheet.

The grove of trees was indicated on the brown print of the village with symbols in white ink. A legend was placed on the print.

According to this survey and that of Mr. E. R. Hands, H & G E, the village of Punaluu as shown on chart No. 4115 is out of place, being shown about one-half mile too far north.

The scale of 1:2,500 was inadvertently used instead of 1:5,000 as called for in the instructions. Perhaps this may be explained in part by paragraph 4 of the instructions, which stated that these roadsteads, Honuapo and Punaluu, were to be developed as were the roadsteads surveyed the previous year, namely, Honokaa and Kukuiahaele.

LANDMARKS: As viewed from the sea approaching the landing there are three prominent objects in the immediate vicinity. The church, with a steeple, is on a high bluff to the left and above the large grove of coconut palm, algeroba and other trees. This grove stands out in sharp contrast to the surrounding barren country. Most of the houses constituting the village are in this grove.

The warehouse, built of corrugated iron sheeting painted black, at the landing, is to the right of the grove. The newer and outermost warehouse, built of corrugated, galvanized iron sheeting, and the oil tank, painted white, as previously stated, was being torn down when the survey was made; but it is fairly certain that the concrete foundations

of both will be left in place. These structures do not appear on the sheet made by Mr. E. R. Hand, having been built since his survey was made.

Respectfully submitted,

W. H. Bainbridge

W. H. Bainbridge,
Jr. H & G E, C & G Survey.

Forwarded

K. T. Adams

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

D.M.'s and D.P.'s of Topographic Signals, SHEET "L", Scale 1:2,500

1. NED	19-07-30	(2174.7) 1514.9	155-30-30	(1871.4) 1635.8	W W flag and cairn
2. BEN	19-07-30	(1311.0) (2378.6)	155-30-30	(1410.2) 2097.0	W W on rock
3. HAY	19-07-30	(719.6) 2970.0	155-30-30	(1099.7) 2407.5	W W on rock
4. TOP	19-07-30	(385.2) 3304.4	155-30-30	(1720.1) 1787.1	Flag
5. CEN	19-08-00	(3578.6) 111.0	155-30-30	(1731.7) 1775.5	Flag on sisal plant stack
6. HOW	19-08-00	(3310.6) 379.0	155-30-30	(1626.4) 1880.8	Outer gable of unpainted house.
7. RUST	19-08-00	(3220.6) 469.0	155-30-30	(1707.0) 1800.2	Center of rusty tin-roofed house.
8. RED	19-08-00	(2978.6) 711.0	155-30-30	(1785.8) 1741.4	Outer gable of red roofed house
9. HUT	19-08-00	(3325.6) 364.0	155-30-30	(2226.8) 1280.4	Flag on pole on rock fence at hut of palm leaves.
10. LON	19-08-00	(2713.6) 976.0	155-30-00	(20.2) 3487.0	Flag on pole in rock fence
11. SOT	19-08-00	(1786.0) 1903.6	155-30-00	(250.2) 3257.0	W W cairn
12. GOT	19-08-00	(1448.6) 2241.0	155-30-00	(67.0) 3440.2	Outer gable first house N E of church
13. TIN	19-08-00	(1108.3) 2581.3	155-30-00	(466.2) 3041.0	Square tin house on poles
14. DIE	19-08-00	(933.6) 2756.0	155-30-00	(633.7) 2873.5	White diamond target.
15. DOK	19-08-00	(1155.1) 2534.5	155-30-00	(975.4) 2531.8	Upright of derrick on dock.
16. GAB	19-08-00	(1168.6) 2521.0	155-30-00	(1072.2) 2435.0	Seaward gable of seaward warehouse.
17. WHITE	19-08-00	(1263.1) 2426.5	155-30-00	(1245.8) 2261.4	Center and top of white oil tank
18. PAN	19-08-00	(1316.0) 2373.6	155-30-00	(1265.0) 2242.2	W W on cemented rock pillar
19. RIK	19-08-00	(1637.2) 2052.4	155-30-00	(1741.8) 1765.4	Upright of derrick on rocks
20. ERN	19-08-00	(1592.4) 2097.2	155-30-00	(2225.2) 1282.0	Large W W on boulder
21. NEST	19-08-00	(1537.2) 2152.4	155-30-00	(2394.1) 1113.1	Small W W cairn
22. BOO	19-08-00	(899.0) 2790.6	155-30-00	(2377.0) 1130.2	flag
23. BAK	19-08-00	(879.6) 2810.0	155-30-00	(2741.2) 766.0	W W on rock
24. RUN	19-08-00	(1161.6) 2528.0	155-30-00	(3384.0) 123.2	Flag and W W on cairn.
25. GAL	19-08-00	(731.0) 2958.6	155-29-30	(183.5) 3323.7	Flag and W W cairn on large boulder

D.M. and D.P. of Topographic Signals, SHEET "L", (continued)

26. CAP	19-08-00	(596.4)	155-29-30	(593.5)	W W on boulder.
		3093.2		2913.7	
27. CHIEF	19-08-00	(257.7)	155-29-30	(442.3)	W W on rock
		3431.9		3064.9	
28. BILL	19-08-00	(101.0)	155-29-30	(752.5)	Flag
		3588.6		2754.7	
29. GIB	19-08-30	(3526.0)	155-29-30	(1153.0)	W W on rock
		163.6		2354.2	
30. LOVE	19-08-00	(134.6)	155-29-30	(2221.5)	W W cairn
		- - -		1285.7	
31. SEE	19-08-00	(358.3)	155-29-30	(2987.0)	W W and flag
		- - -		520.2	

Scaled by Glendon E. Boothe
 Checked by George W. Lovesee.

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

Section of Field Records

Report on Topographic Sheet No. 4469

Punaluu Harbor, Southeast Coast of Hawaii

Surveyed in 1929

In numerous places on this sheet a solid, light black line is shown outside of the heavy black line, which is evidently intended for the high water line. This light line is probably meant for a low water line, but this is an unusual way to show the low water line and the field draftsman, Mr. Lovesee, in transferring the shoreline to H. 4959, showed this light line as the shoreline on the hydrographic sheet, omitting the heavy line entirely. While this is probably an error, the fact that a member of the field party interprets this light line as the shoreline causes some doubt to arise as to just what the solid light line is intended for. Mr. Bainbridge should be asked to explain this.

P. L. Johnston

Aug 27, 1930

*Light line is intended for approximate low
water line W. H. Bainbridge.*

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Instructions dated June 17, 19 29

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