

4470

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| Form 504 | |
| DEPARTMENT OF COMMERCE | |
| U. S. COAST AND GEODETIC SURVEY | |
| K. S. Patton <i>Director</i> | |
| <div>U. S. SURVEY L DEC 23 1929 Acc. No.</div> | |
| State: <u>T. H.</u> | |
| DESCRIPTIVE REPORT | |
| <i>Topographic</i> <i>Hydrographic</i> | Sheet No. K 4470 |
| LOCALITY | |
| <u>S. E. Coast of Hawaii</u> | |
| <u>Honolulu Bay</u> | |
| <u>1929</u> | |
| CHIEF OF PARTY | |
| <u>K. T. Adams</u> <u>U. S. G. Eng.</u> | |

GOVERNMENT PRINTING OFFICE

Topo

DESCRIPTIVE REPORT
to accompany
~~HYDROGRAPHIC~~ SHEET NO. K
Scale 1:2500

Honuaipo Bay, Hawaii, T. H.

Date of Instructions: June 17, 1929.
Date of Survey: October 10th to 23rd, 1929.
Chief of Party: K. T. Adams, H & G Engineer.
Topographer: V. M. Gibbens, Aid.

LIMITS:

This sheet consists of a complete shoreline survey from Latitude $19^{\circ} 04' 430.2$ Meters to the northeastward, including a detail survey of Honuaipo Bay, Dock, railroads, buildings and other features, to Latitude $19^{\circ} 05' 30'' 490$ Meters.

CONTROL:

Control for this survey was based on two triangulation stations, CHURCH HONUAIPO 1914 and HONUAIPO 1914. These stations are nearly in the center of the sheet and about $\frac{1}{4}$ mile apart, which makes the control rather weak. Triangulation STACK HONUAIPO 1914 has been taken down.

METHOD:

The party consisted of one officer and three men. The usual plane table method was used in this survey. In order that the hydrographic party might commence work as soon as possible, a party built the signals and they were all located by the topographic party before any of the other work was done.

The topography was started from the triangulation station HONUAIPO, orienting the table on CHURCH HONUAIPO, and running to the end of the sheet in each direction from Honuaipo.

GENERAL DESCRIPTION:

Honuaipo Bay is a small bight or depression in the shore line of about one half mile in and about one mile in length and is not protected from any easterly weather. Nearly all the shipping in this port is for the Hutchinson Sugar Plantation Co. and the Hawaiian

Agricultural Company. Ships can not tie up to the dock, but anchor off, and tie up to mooring-buoys, and the cargo is taken to the dock by small boats. The cargo is lifted in and out of the boats by a small derrick on the dock, run by a donkey engine.

The dock is owned by the Territory of Hawaii but the management of it has been turned over to the Matson Navigation Company by certain agreements, for a period of one year, during which time the Matson Navigation Company expects to widen the dock six feet on the northern side and rebuild and shift the derrick a short distance N.E. on the dock.

From signal POINT to the northern limit of the sheet there is a sheer rocky coastline from 15 to 20 feet in elevation. From signal POINT to the dock the shoreline is all rocky but slopes back rather gradually from the waters edge. From DOCK the shoreline is sheer and rocky, increasing in elevation from 20 feet just west of the dock to a little over 50 feet at signal ROCK and to a maximum elevation of 236 feet between the signals BOY and PAT. From signal CAN to END the shoreline varies from 30 to 40 feet in elevation.

All the changes on the blueprints of Honuapo sugar mill and landing which accompany this sheet are completed or under construction at the present time. The topographer examined the blueprints and found them correct ^{except} for the corrections that are marked in red pencil.

LANDMARKS.

(Bps. 231-22 + 231-23)

The most prominent landmarks are:

1. The 236 foot cliff one half mile southwest of the dock. It shows dark or black against the light brown hills in the background.
2. The five Standard Oil Company tanks in a row, painted aluminum in color and about .1 mile north of the dock.
3. The Honuapo Sugar Mill stack surrounded by the mill buildings which are of corrugated iron and aluminum in color, .4 of a mile north of the dock. The stack is black and 70 feet high.
4. The triangulation station HONUAPU which is a whitewashed cairn about eight feet in diameter and ten feet high.
5. The yellow church which is about .1 mile north of the dock. The S.E. corner of this church is signal YELL. This church has no steeple.

Respectfully submitted,

V. M. Gibbens
V. M. Gibbens, Aid.

Approved.

K. T. Adams

K. T. Adams
Commanding,
Steamer GUIDE.

STATISTICS.

| | |
|---|-----|
| Statute miles of high water line | 3.4 |
| Statute miles of road and trails | 0.7 |
| Statute miles of shoreline of ponds | 0.4 |
| Square miles of area | 0.5 |
| Working days | 6 |
| Number of men in party | 3 |

Description and Location of Topographic Signals on Sheet No. K.

| STATION | LATITUDE | METERS | LONGITUDE | METERS | DESCRIPTION |
|---------|---|--------|-----------|------------------|---|
| ND | 19 04 ^{493.0} _{1371.8} | 430.8 | 155 33 00 | 653.1 | Flag on rocky point. |
| SAM | 19 04 ^{232.4} _{1612.3} | 690.8 | 155 33 30 | 699.9 | Flag and W W cairn on paint |
| ABE | 19 04 ^{84.3} _{1406.3} | 918.8 | 155 33 | 687.5 | W W cairn |
| UBE | 19 04 ^{721.4} _{1313.4} 30 | 201.0 | 155 33 | (189.5) 684.2 | W W cairn on face of cliff |
| CAN | 19 04 ^{498.0} _{1345.7} 30 | 424.4 | 155 33 | 678.6 | W W cairn and flag |
| PAT | 19 04 ^{308.2} _{1536.6} 30 | 614.4 | 155 33 30 | (- - -) 4.4 | Flag on fence post |
| BOY | 19 04 ^{6.5} _{1837.8} 30 | 915.9 | 155 33 | (56.4) 820.6 | W W cairn and small flag |
| ROCK | 19 05 ^(- - -) _{1137.8} | 67.0 | 155 33 | (218.4) 658.6 | W W cairn |
| HUNG | 19 05 ^(628.0) _{1550.0} | 294.4 | 155 33 | (357.4) 519.6 | W W cairn |
| WHITE | 19 05 ^(499.7) _{1421.4} | 422.7 | 155 33 | (390.2) 486.8 | W W on cliff |
| DOCK | 19 05 ^(466.8) _{1389.2} | 455.6 | 155 33 | (536.9) 340.1 | Upright beam of derrick on dock |
| WARE | 19 05 ^(385.2) _{1307.4} | 537.2 | 155 33 | (513.2) 363.8 | Most seaward corner of government warehouse |
| POLE | 19 05 ^(366.8) _{1287.0} | 555.6 | 155 33 | (568.0) 309.8 | Rag on pole |
| TIN | 19 05 ^(300.7) _{1124.1} | 621.7 | 155 33 | (594.5) 282.5 | Seaward gable of small tin hut |
| DOG | 19 05 ^(279.2) _{1210.3} | 688.6 | 155 33 | (630.5) 246.5 | Flag |
| DER | 19 05 ^(249.5) _{1172.1} | 672.9 | 155 33 | (694.0) 183.0 | Upright member of old derrick |
| SHED | 19 05 ^(214.4) _{1136.7} | 708.0 | 155 33 | (801.0) 76.4 | Flag on seaward side of shed |
| CLOTH | 19 05 ^(279.5) _{1280.1} | 642.9 | 155 32 30 | (79.2) 797.8 | Flag |
| WASH | 19 05 ^(302.4) _{1307.3} | 620.0 | 155 32 30 | (221.8) 655.2 | W W cairn |
| POINT | 19 05 ^(269.0) _{1271.8} | 653.4 | 155 32 30 | (368.6) 508.4 | Cross banner |
| CAT | 19 05 ^(178.5) _{1178.2} | 743.9 | 155 32 30 | (478.9) 398.1 | Flag |
| ZAG | 19 05 ^(24.9) _{125.1} | 897.5 | 155 32 30 | (500.4) 376.6 | Flag |
| BAN | 19 05 ^(802.9) _{1601.4} 30 | 120.5 | 155 32 30 | (545.9) 331.1 | Half banner |
| RAG | 19 05 ^(- - -) _{1582.8} 30 | 236.8 | 155 32 30 | (610.7) 266.1 | Rag around rock |
| FLAG | 19 05 ^(- - -) _{1591.2} 30 | 331.2 | 155 32 30 | (659.0) 217.8 | Flag |
| CAIRN | 19 05 ^(- - -) _{1487.0} 30 | 435.2 | 155 32 30 | (722.5) 154.5 | W W cairn |
| NOT | 19 05 ^(- - -) _{1413.3} 30 | 490.8 | 155 32 30 | (801.2) 75.8 | Flag |
| YELL | 19 05 ^(386.4) _{1324.7} | 536.0 | 155 33 | (415.8) 461.2 | S E corner of small yellow church |
| STACK | 19 05 ^(653.0) _{1413.3} 30 | 269.4 | 155 33 | (700.4) 176.6 | Stack on Honuapo sugar mill, 1929 |

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4470

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. X

REGISTER NO. 4470

Hawaiian Is.
State Hawaii, U. S.

General locality S. E. Coast of Hawaii Island

Locality Honolulu

Scale 1/2500 Date of survey October 10 to 23rd 192⁹

Vessel Steamer Galde

Chief of Party K. F. Adams

Surveyed by V. M. Gibbons

Inked by V. M. Gibbons

Heights in feet above M. S. L. to ground ~~to tops of trees~~

~~Contour~~ Approximate contour, ~~from line interval~~ 50 feet

Instructions dated June 17, 192⁹

Remarks: