DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: Hawaiian Is.

DESCRIPTIVE REPORT 4754

LOCALITY
Kahuku Point,
Island of Oahu,
Hawaiian Islands

1932

CHIEF OF PARTY
Robert A. Paton
Descriptive Report

to accompany

Sheet "BE"

Kahuku Point, Oahu.

INSTRUCTIONS:

Work on this sheet was done in accordance with verbal in-
structions of the Department Engineer and his representatives. It was de-
sired to investigate only possible landing sites for troops and to expe-
dite the work as much as possible. Accordingly, only the hydrographic
signals and shore line were located. Such additional information as was
obtained could be done without delaying the progress of the party.

GENERAL DESCRIPTION OF COAST:

The area covered by this sheet is in general quite low near
the shore. At a distance of one-half to one mile the land rises abruptly
to low rolling hills about 800 feet high. The topographic maps of the
Geological Survey, on a scale 1:20,000 were found to be quite accurate and
the contours and development of the area could be used advantageously on
our charts.

Most of the area is under cultivation, pineapple fields cover-
ing most of the hills. On the flat areas, sugar cane is grown south of the
railroad and pasture grasses north of the railroad.

CONTROL:

Eight triangulation stations, well distributed, furnished the
basic control for the topographic survey. Directions to eight additional
signals were taken by the triangulation party, which were plotted on the
topographic sheet and were not computed. In this manner, the control was so
profuse that it was unnecessary to run any stadia traverses.

METHODS:

Usual methods recommended by the manual were used. In one
instance, the small island north, northwest of signal RED could not be lo-
cated conveniently by the plane table. Sextant fixes were taken by the
hydrographic party lending an observer and a recorder. These fixes will be
found in the records of Sheet #50. They were plotted directly on the
topographic sheet.

Respectfully submitted,

Hubert A. Paton,
Lieutenant,
Chief of Party.
<table>
<thead>
<tr>
<th>OBJECT &amp; DESCRIPTION</th>
<th>Lat.</th>
<th>D.M.</th>
<th>Long.</th>
<th>D.P.</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fence Corner</td>
<td>21°41'</td>
<td>693</td>
<td>156°01'</td>
<td>336</td>
<td>5'</td>
</tr>
<tr>
<td>&quot;Ant&quot;, north corner of house</td>
<td>21°41'</td>
<td>1359</td>
<td>156°01'</td>
<td>746</td>
<td>10'</td>
</tr>
<tr>
<td>&quot;Hut&quot;, detached iron wood tree</td>
<td>21°41'</td>
<td>1547</td>
<td>156°01'</td>
<td>411</td>
<td>15'</td>
</tr>
<tr>
<td>&quot;Dog&quot;, w. cor. s.w. house</td>
<td>21°42'</td>
<td>5</td>
<td>156°01'</td>
<td>145</td>
<td>10'</td>
</tr>
<tr>
<td>&quot;Pole&quot;, flagpole</td>
<td>21°42'</td>
<td>98</td>
<td>156°01'</td>
<td>39</td>
<td>20'</td>
</tr>
<tr>
<td>&quot;Ney&quot;, s.w. cor. green ho., red roof, &quot;Sonova&quot;</td>
<td>21°41'</td>
<td>1815</td>
<td>156°00'</td>
<td>1671</td>
<td>15'</td>
</tr>
<tr>
<td>&quot;Rama&quot;, n.w. cor. grey ho. (water tank in rear)</td>
<td>21°41'</td>
<td>1756</td>
<td>156°00'</td>
<td>1563</td>
<td>20'</td>
</tr>
<tr>
<td>&quot;Fig&quot;, n. cor. brown house</td>
<td>21°41'</td>
<td>1721</td>
<td>156°00'</td>
<td>1464</td>
<td>15'</td>
</tr>
<tr>
<td>&quot;Han&quot;, w. cor. club house</td>
<td>21°41'</td>
<td>1779</td>
<td>156°00'</td>
<td>1274</td>
<td>15'</td>
</tr>
<tr>
<td>&quot;Nel&quot;, n.w. cor. grey house</td>
<td>21°42'</td>
<td>200</td>
<td>156°00'</td>
<td>1102</td>
<td>15'</td>
</tr>
<tr>
<td>&quot;Barn&quot;, n.w. cor.</td>
<td>21°41'</td>
<td>1375</td>
<td>156°00'</td>
<td>555</td>
<td>15'</td>
</tr>
<tr>
<td>&quot;Let&quot;, n. cor. north house, camp #3</td>
<td>21°42'</td>
<td>493</td>
<td>156°00'</td>
<td>21</td>
<td>12'</td>
</tr>
<tr>
<td>&quot;Up&quot;, w. cor. small shack</td>
<td>21°42'</td>
<td>842</td>
<td>157°59'</td>
<td>1016</td>
<td>8'</td>
</tr>
<tr>
<td>&quot;Gauge&quot;, on side of water tank</td>
<td>21°41'</td>
<td>1272</td>
<td>157°59'</td>
<td>359</td>
<td>15'</td>
</tr>
<tr>
<td>&quot;Tel&quot;, radio pole (s.w. 'ly one of eight)</td>
<td>21°42'</td>
<td>207</td>
<td>157°59'</td>
<td>362</td>
<td>355'</td>
</tr>
<tr>
<td>&quot;Vic&quot;, center of green ho., red roof</td>
<td>21°42'</td>
<td>1256</td>
<td>157°59'</td>
<td>464</td>
<td>15'</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Soc&quot;, wind sock, landing field</td>
<td>21°42'</td>
<td>1287</td>
<td>157°58'</td>
<td>1182</td>
<td>20'</td>
</tr>
<tr>
<td>&quot;Pip&quot;, pipe on sewer outfall</td>
<td>21°42'</td>
<td>1429</td>
<td>157°58'</td>
<td>913</td>
<td>5'</td>
</tr>
<tr>
<td>&quot;Power&quot;, highest power line pole (on hill)</td>
<td>21°41'</td>
<td>938</td>
<td>157°58'</td>
<td>894</td>
<td>20'</td>
</tr>
<tr>
<td>&quot;End&quot;, n.e. cor. large shack</td>
<td>21°42'</td>
<td>1331</td>
<td>157°58'</td>
<td>546</td>
<td>10'</td>
</tr>
<tr>
<td>&quot;Hoc&quot;, cylinder rock</td>
<td>21°42'</td>
<td>1392</td>
<td>157°58'</td>
<td>368</td>
<td>10'</td>
</tr>
<tr>
<td>&quot;Wai&quot;, east end rock wall</td>
<td>21°42'</td>
<td>914</td>
<td>157°57'</td>
<td>1719</td>
<td>4'</td>
</tr>
<tr>
<td>&quot;Post&quot;, 8&quot; x 6&quot; wooden post</td>
<td>21°42'</td>
<td>801</td>
<td>157°57'</td>
<td>1678</td>
<td>4'</td>
</tr>
<tr>
<td>&quot;May&quot;, 6' x 9', concrete block,</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Windmill&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Masonic sign)
LANDMARKS FOR CHARTS

HONOLULU, HAWAII, FEBRUARY 16TH, 1935

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

[Signature]

Robert A. Poton
Chief of Party

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor tank (CAKIKI)</td>
<td>21 41'</td>
<td>157 59'</td>
<td>1930</td>
<td>Stand topo</td>
<td># 4110</td>
</tr>
<tr>
<td>Chimney (B.C.F. chim.)</td>
<td>21 42'</td>
<td>157 59'</td>
<td>929</td>
<td>triangu.</td>
<td></td>
</tr>
<tr>
<td>Green house, red roof</td>
<td>21 42'</td>
<td>157 59'</td>
<td>929</td>
<td>topo</td>
<td></td>
</tr>
<tr>
<td>Shack (UP)</td>
<td>21 42'</td>
<td>157 59'</td>
<td>929</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio pole S/Nly one of 6</td>
<td>21 42'</td>
<td>157 59'</td>
<td>929</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The following objects should be removed from Chart # 4110:

Stack: 21 41 1560 158 00 550
Stack: 21 42 --- 157 59 240

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these objects are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
Title (Par. 56) Kakaha Point vicinity, Oahu & Kaua'i

Chief of Party Dr. A. Paton
Surveyed by Dr. A. Paton
Inked by Dr. A. Paton


1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)

2. The character and scope of the survey satisfy the instructions.

3. The control and closures of traverses were adequate. (Par. 12, 29.)

4. The amount of vertical control that the Manual specifies for contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. The delineation of contours-formlines- is satisfactory. (Par. 49, 50.)

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.)

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) Coral reefs near #10 were added in. Farther offshore the limits of breakers were cut in by tapers. Where in conflict with §5318, the hydrographic location should control.

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

10. The span, draw and clearance of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.)

12. The tree line was shown on mountains. (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
REVIEW OF TOPOGRAPHIC SURVEY No. 4754

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of LMs and DPs, 68.)

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, 5, 60.)

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) found to be 13°10' E. This does not check charts.

18. The geographic datum of the sheet is Old Hawaiian Datum and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate.

20. Geographic names are shown on the sheet and are covered by the descriptive report. (Par. 64, 68k.)

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks:

Reviewed in office by H. A. Paton, Dec. 11, 1933.

Examined and approved:

L. O. Pollard
Chief, Section of Field Records

F. Boden
Chief, Division of Hyd. and Top.

E. Van Duin
Chief, Division of Field Work

Chief, Division of Charts
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. .B.B.

REGISTER NO. 4754

State.......................... Hawaiian Islands

General locality.............. North Coast of Oahu

Locality........................ Kahuku Point and Vicinity

Scale........1:5000........ Date of survey........July-August, 1932

Wessel Inshore Hydrographic Survey of Oahu

Chief of Party............... Hubert A. Paton, Lieut.

Surveyed by.................... Hubert A. Paton

Inked by......................... Hubert A. Paton

Heights in feet above........ H.W. to ground to top of trees

Contour, Approximate contour, Form line interval........ feet

Instructions dated............ July 14, 1932

Remarks: Surveyed in cooperation with the U.S. Army