

4681

Form 504
Ed. June, 1923
DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

U. S. COAST & GEODETIC SURVEY
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DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. 4681

LOCALITY

Northwest Coast of Maui.

~~Kaanapali Landing and Vicinity.~~

Hanakaoo Pt. to Kekaa Pt. and

Vicinity

1932.

CHIEF OF PARTY

O.W. Swainson.

4681

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET
FOR KAA NAPALI LANDING AND VICINITY.

General description of coast:

This section of the coast, with the exception of Kekaa Point, consists of a flat sandy beach fringed with algaroba bushes. Kekaa Point, however, is a prominent rocky point 85 feet high, which appears from a distance to be a detached rock.

Landmarks:

Approaching Kekaa Point from the south the rock crusher is a fair landmark and Honokawai Mill Stack is an excellent one which may be seen for many miles. Approaching from any other direction Honokawai Mill Stack may be seen for many miles. The pump house stack and water tanks at Kaanapali Landing are good landmarks when within 3 or 4 miles of the landing.

Closing errors of traverse:

The closing error of the traverse between triangulation station Kekaa and station Crush was 5 meters in latitude and 5 m. in longitude. These errors were distributed back between these two stations in proportion to the distance. Northward from station Kekaa there was no triangulation tie and therefor no traverse adjustment.

Junctions with previous surveys:

At the north end of this sheet the present shoreline has receded 25 meters from that which is indicated on sheet #3269 and at the south end it has receded about 15 meters from that which is shown on sheet #3268.

These discrepancies are due to recession in the shoreline rather than to any inaccuracies in the survey methods. At these places the beach consists of soft sand which shows considerable movement after each storm.

List of planetable positions:

Object and description	Lat.	D.M.	Long.	D.P.	Remarks.
- Tank, steel (shack)	20-55	1663	156-41	1535	
- (Pipe) Pump house stack	20-55	1683	156-41	1557	
- Water tank, black	20-55	1700	156-41	1404	
- (Me) Galv. iron shack.	20-55	1717	156-41	1411	

Changes of coast line:

The most noticeable change along this part of the coast was at Hanakao Point. If a light wind blew on this point for a few hours it left the sand in a vertical wall about 4 feet high where it had been washing it away. Such erosion as this would naturally cause considerable recession of the shoreline.

Mooring buoys:

There are 15 mooring buoys indicated on this sheet, but it is recommended that only two of these be charted. The two which should be charted are the two westernmost of the group. These are large buoys which are probably kept in the same positions for mooring steamers while they are being loaded from barges. It is believed that the other 13 buoys are moved around at random as they are only used for mooring barges and small tugs.

Kaanapali Landing:

This landing is only for small boats and barges. A heavy masonry pier has been constructed here with railroad tracks and a loading derrick on it. Sugar is brought down to this derrick in cars, transferred to barges alongside the pier, and then reloaded in the steamers at the outer mooring buoys.

Earl O. Heaton

Earl O. Heaton,
H.&G. Engineer.

REVIEW OF TOPOGRAPHIC SURVEY No. 4681

Title (Par. 56) *Hanalei Pt. to Kekaa Pt. & vicinity, Maui, Hawaiian Is.*

Chief of Party *Q. W. Swinson* Surveyed by *E. Q. Heaton* Inked by *E. Q. Heaton*

Ship *Pioneer* Instructions dated *Oct. 21, 1931* Surveyed in *Jan. 1932*

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.)
None
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None*
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.) *None submitted*
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.) ✓
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.

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 IMs and DPs, 68.) *List of planetable positions in Desc. Report.*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *Landmarks described in Desc. Report.*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
18. The geographic datum of the sheet is *Old Hawaiian* 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, 66k.) ✓
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 *The sheet was inspected by P. M. Obenshloke, Chief of Section of Field Records after inking was completed by the topographer in the Washington office!*
24. Remarks:

Reviewed in office by *R. J. Christman, Dec. 13, 1933*

Examined and approved:

K. T. Adams
Chief, Section of Field Records
R. O. Colburn
Chief, Division of Charts

J. B. Borden
Chief, Section of Field Work
G. H. de
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4681

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. _____

REGISTER NO. 4681

State ~~Maui Island, T.H.~~ Hawaiian Is. _____

General locality ~~Northwest Coast of Maui Island.~~ _____

Locality ~~Kaanapali Landing.~~ Hanakoo Pt. to Kekaa Pt. and Vicinity _____

Scale ~~1:5000~~ Date of survey Jan. 14-15, 1932

Vessel Pioneer _____

Chief of Party O.W. Swainson. _____

Surveyed by Earl O. Heaton. _____

Inked by Earl O. Heaton. _____

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated October 21, 1931. _____

Remarks: _____