

4709

4709

Form 504

**DEPARTMENT OF COMMERCE**  
U. S. COAST AND GEODETIC SURVEY

....., *Director*

NOV 3 1927  
H. W. A.  
No. No.

State: Hawaiian Is.

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**DESCRIPTIVE REPORT**

~~Topographic~~ } Sheet No. <sup>12</sup> 4709  
Hydrographic }

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LOCALITY

Kauai-Northwest Coast

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Makaha Pt-Wainiha Bay

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1927

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CHIEF OF PARTY

F.C.Engle

Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: Hawaiian Islands

11-5613

DESCRIPTIVE REPORT.

Hydro. Sheet No. <sup>4709</sup> 12 4709

LOCALITY:

Kauai Island - Northwest Coast

~~Honolulu Bay to Makaha Point to~~

~~West Coast of Kauai.~~

Wainiha Bay

19<sup>27</sup>

CHIEF OF PARTY:

F. G. Engle

*Wainiha*

DESCRIPTIVE REPORT  
to accompany  
HYDROGRAPHIC SHEET NO. 12  
HANALEI TO MAKAHA POINT      KAUI, T. H.  
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LIMITS: This sheet covers the inshore hydrography between Wainiha Bay and Makaha Point and joins the hydrography of field sheet No. 11 on the east and of field sheet No. 14 on the south. The sounding lines were carried off shore to approximately the 10 fathom curve.

SURVEY METHODS AND CONTROL: Control for this survey consisted of triangulation stations established by the field party and of a series of topographic signals established on topographic sheet H, 1:20,000.

This survey was made in accordance with the usual methods of launch hydrography using a 30 ft., motor sailer and a copper centered hand lead line with a 10 lb., lead. The sounding lines were carried as close to the beach as safety would permit. The outer limit of reefs and breakers was sketched in from the sounding launch while at the inner ends of the sounding lines.

Tidal reducers for this sheet were obtained from a portable automatic tide gauge operated at Hanalei Bay.

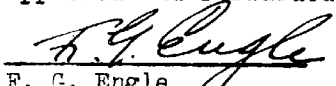
GENERAL DESCRIPTION OF THE COAST: This subject is covered in the descriptive report accompanying Topographic Sheet H, Wainiha Bay to Makaha Point.

LANDMARKS: There are two houses at the mouth of Kalalan Valley, described in the report accompanying Topographic Sheet H. These show for several miles off shore and are the only buildings in this vicinity. There is a large building, fairly prominent about 30 meters north of signal OUT shown on topographic sheet H.

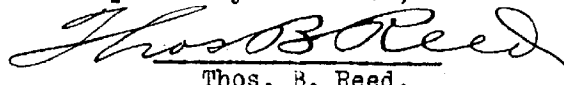
INSHORE DANGERS: Between signals NIHA and TREE the outer limit of breakers was sketched from the hydrographic launch. All other coral reefs along shore were located by the topographer and shown on topographic sheet H. There is a small shoal with a least depth of 4 1/6 fathoms 460 meters north of signal CON.

ANCHORAGES: The small harbor behind the coral reef off signal NER makes a good smooth anchorage for small boats with a good landing place on a sand beach.

Approved and Forwarded:

  
F. G. Engle,  
Com'dg., Str. DISCOVERER.

Respectfully submitted,

  
Thos. B. Reed.

STATISTICS SHEET NO. 12

WEST COAST KAUAI, SCALE, 1:20,000 - - - - HANAIEI BAY -- MAKAHA PT.

<u>Date, 1927</u>	<u>:</u>	<u>Letter</u>	<u>:</u>	<u>Volume</u>	<u>:</u>	<u>Positions</u>	<u>:</u>	<u>Soundings</u>	<u>:</u>	<u>Miles Stat</u>	<u>:</u>	<u>Vessels</u>	
June	:	8	:	a	:	1	:	84	:	309	:	14.0	:Stbd.Motorsailer
	:	10	:	b	:	1	:	60	:	172	:	9.2	: " "
	:	17	:	c	:	1	:	13	:	41	:	1.5	: " "
	:	24	:	d	:	1	:	13	:	32	:	1.5	: " "
July	:	14	:	e	:	1& 2	:	156	:	619	:	30.4	: " "
	:	21	:	f	:	2	:	52	:	209	:	9.5	: " "
	:	22	:	g	:	2	:	11	:	41	:	1.7	: " "
	:	25	:	h	:	2	:	12	:	43	:	2.0	: " "
	:	26	:	i	:	2	:	11	:	45	:	1.5	: " "
Aug.	:	8	:	j	:	2& 3	:	159	:	660	:	19.9	: " "
	:	9	:	k	:	3	:	102	:	503	:	20.5	: " "
				Totals	----	673		2674		111.7			

*H.P.H.*

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
volumes of sounding records for

**3**  
HYDROGRAPHIC SHEET

**4709**

Locality:

**KAUAI ISLAND, T. H.**

Chief of Party:

Plane of reference **P. G. Engle, 1927.**

ft. on tide staff at **L L W**

**2.2** **Hanaalei Bay**

**2.3** " " " " **Hanalei Bay**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

*[Signature]*

Chief, Division of Tides and Currents.

## SECTION FIELD RECORDS

REPORT ON

HYD. - 4709

SURVEYED 1927

Chief of Party F. G. ENGLE, Surveyed by Thos. B. REED  
 Protected by G. R. Shelton  
 Verified & inked by J. Fleming Soundings Plotted by G. R. Shelton

- 1 Records conform to general instructions
- 2 Sounding line crossings are adequate
- 3 Complete depth curves cannot be drawn
- 4 Field plotting quite accurate - Ten positions were found to be greatly in error, examples.  
1-F 40.4J 117-J
- 5 Spacing of soundings good but legibility of position numbers poor
- 6 Signal 'TRY' was given for position 81-K no doubt... signal TRAY was used.  
Signal PEN was given as center signal for position 14-d the signal used was probably signal CAN
- 7 It is believed that the area directly above signals 'OUT' and 'FIR' require further development as there may be lesser depths to the right of position 152-J which should be known
- 8 The signals are defective in the following respects  
The same name has been given to two signals in three instances namely, signals HOW FIR AT.
- 9 The similarity of names such as THEY and TRAY CRY and TRY ~~and others~~ have prevented their use. Also the possibility of mistaking WAS for WES when written, should have influenced the selection of other names.

J. Fleming March 28-1928

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

April 13, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4709

Northwest Coast Kauai, T. H.

Surveyed by T. B. Reed.

Chief of Party, F. G. Engle.

Protracted and soundings plotted by R. G. Shelton.

Verified and inked by J. Fleming.

1. The general and specific instructions of the work were complied with except in a few places where the sounding lines were too far apart. This was caused by a change in the position of the triangulation signals due to a small adjustment after the work was done.
2. A few small changes were made by office draftsmen on the drafting done by the field party.
3. Junctions with adjacent sheets were not tested because the adjacent sheets had not been finished.
4. A 7 3/4 fathom and an 8 3/4 fathom spot near Haena Pt. show indications of shoaling which were not investigated.
5. The surveying and drafting were good.
6. Reviewed by W. M. Gibson, April 7, 1928.

Approved:

*Inspected by Colburn*

\_\_\_\_\_  
Chief, Section of Field Records (Charts)

*L. O. Rollat*  
\_\_\_\_\_  
Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4709

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 12

REGISTER NO. 4709

C. & G. SURVEY  
L. & A  
DEC 80 1927  
Acc. No.

State Hawaiian Islands

General locality Kauai Island-Northwest Coast

Locality Hanalei Bay to Makaha Point to Wainiha Bay

Scale 1:20,000 Date of survey June<sup>8</sup> to August<sup>9</sup>, 1927

Vessel DISCOVERER

Chief of Party F. G. Engle

Surveyed by Thos. B. Reed

Protracted by G. R. Shelton

Soundings penciled by G. R. Shelton

Soundings in fathoms -feet

Plane of reference M.L.L.W. Staff reading 2.2 Ft.

Subdivision of wire dragged areas by

Inked by J. Fleming

Verified by J.F.

Instructions dated Nov. 23, 1927

Remarks:



appeal to chart 4100 Wittman 11/7/57