DESCRIPTIVE REPORT.	
Topographio Sheet No. 4302 LOCALITY: Kauai, Northwest Coast -North Coast of Kauai, T.H. Makaha Pt. to Wainiha Bay	
1917 ———————————————————————————————————	

Descriptive Report

to accompany

	<i>*</i>	Topographic	Sheet E	I, Island	of Kauai, T	. Н.	
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EXPEND.

This sheet includes the shore line on the north coast of Kauai from longitude 159-33 on the east to 159-44 on the west.

GENERAL DESCRIPTION OF COAST:

The entire shore line with the exception of the section to the eastward of longitude 159-35 consists of cliffs. These vary from a hundred to over a thousand feet in height. There are numerous ravines and valleys, running inland, which cut up this wall at frequent intervals. There are also short stretches of sand and gravel beach but these extend only a short distance inland, from 50 to 200 meters, being terminated by the cliffs. The most extensive of these is at Kalalau Valley. Here also the cliff line recedes gradually from the sea on the westward side but comes down again abruptly on the east side. From there eastward to the termination of the cliff coast there are but few breaks in the cliff wall. Along the greater portion of this section there is a shelf a few feet above high water but there are numerous impasses due to caves and overhanging cliffs.

Wind and Surf Conditions: The prevailing winds are from the north east and are fairly constant with a strength of about 5 - Beaufort scale. There is a dealer variation however, the wind usually not attaining its full strength

boulders set free from the eroded drift bank.

Following is a list of the best landings with their positions and condition:

]	a	t <u>. </u>	: i	Meters	:	Lo	ng.	• :]	Meters	<u>: N</u>	ear Hyd 5	q:	Sheltered from winds	:	Condition of sea at landing when sheltererd.
	22	_	09	:	850	:	159	-	42:	1000	:	Why	:	N.NE.& E.	:	Slight swell no surf.
	82	*	09	:	1150	:	159	-	42:	300	:	At	:	N.NE.& E.	:	Slight swell no surf.
•	22	-	10	:	100	:	159	-	40:	800	:	Pet	:	N.NE.& E.	:	Slight wash of surf.
	22	-	10	:	100	:	159	-4	40 :	650	:	Won	:	NW.& W.	:	Slight wash of surf.
	22	-	10	:	700	:	159	-	39:	1150	:	Wal	:	Not sheltered sand beach.	:	Always surf in proportion to wind & sea.
	22	-	11	:	1500	:	159	_	37:	950	:	But	:	NE.& E.	:	No surf.Steep rock beach ldg.5-6' rise & fall of sea
	22	-	12	:	600	:	159	-	36:	900	;	Can	:	NE.& E.	:	No surf. Steep rock beach 3-4' rise & fall of sea.
	22	_	13	:	450	:	159	_	35:	300	:	Out	:	All winds.	:	Smooth - slight swell with wind.
	22	-	13	:	1000	≟	159	_	33:	1200	H	aena Vil	:	All winds.	:	Smooth.

SURVEY METHODS:

Traversing with the usual plane table equipment was used exclusively, the nature of the coast barring any other method. It was not deemed necessary to obtain form lines since the Geological Survey Map of Kauai contains contours.

Length of traverses and closing errors:

Maka to Kala	5-1/2 n	autical	miles	8	meters
Kala to Kailiu	4-3/4	ff	IŤ	40	F1
Kailiu to Niha	2	11	11	6	n

These closures were within the required limits and were adjusted.

OFFLYING DANGERS:

None except coral reefs as noted on the sheet.

LANDMAPKS:

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There are two unpainted houses in Kalalau Valley which may be seen for several miles off shore. They may be identified as hydrographic signals HOW and RAK.

HOW	Lat.	22-10	(1100)	Long.	159-39	(558)
RAK	Lat.	22-10	(1270)	Long.	159-39	(308)

List of marked Topographic Stations & Plane Table positions:

Station:	Lat.	:	Meters	:	Long.	:	Meters
Cad :	22 - 09	:	1402	:	159 - 41	:	1652
San	22 - 10	:	480	:	159 - 40	-:	70
Rat	22 - 11	. :	1430	:	159 - 37	: _	1240
Cliff	22 - 12	:	725	:	159 + 36	:	810

STATISTICS:

Miles of shore line (statute) ----- 15

Respectfully submitted,

Jeorge a. Melson Topographer

Approved and Forwarded:

F. G. Engle

H. & G. Engineer.

Impected Jamery, 1928 and found adaptate, at The junction with T. 4203 sheet 4302 shows a shap Turn in the shoreline, whereas T. 4303 indicates that the shoreline runs in a straight line.

The steep turn is probably a stream in the valley at the junction of the two sheets.

E. P. Eccis

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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. 4302

Ctoto	Hawaii Hawaiian Is
General locality	and of Kauai - Northwest Coast
Mai Locality No	caha Pt. to Wainiha Bey rth. Coost
	te of survey <u>Jume-July</u> , 1927
VesselD	ISCOVERER
Chief of PartyF	.G. Engle
Surveyed by	eorge A.Nelson
Inked by G	.A.N.
Heights in feet above	H.W. to ground INTERPRETATION
Contour, Approximate co	ntour, Form line intervalfeet
Instructions dated	Nov. 23, 1926 , 1926
Remarks:	