# 11934

5,7,0

Diag. Cht. No. 4116.

#### Form 504

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

#### DESCRIPTIVE **REPORT**

Type of Survey SHORELINE (Photogrammetric)

Field No. Ph-6012 Office No. T-11934

#### LOCALITY

State Hawaii

General locality Maui Island

Locality Kahawaihapapa Point

1960 - 19.63.

CHIEF OF PARTY
H. J. Seaborg, Honolulu District Office W. E. Randall, Baltimore District Office

#### LIBRARY & ARCHIVES

1967 DATE ....

USCOMM-DC 5087

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FORM C&G5-181a (12-61)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

	DESCRIPTIVE RE	<b>PORT - DAT</b> T -11934	A RECORD	
PROJECT NO. (II): Project	21034			
(PH-6012	·)			
FIELD OFFICE (II):			CHIEF OF PARTY	
Honolulu			H. J. Seaborg	
PHOTOGRAMMETRIC OFFICE (III)	:		OFFICER-IN-CHARGE	
Baltimore			William E. Randall	
INSTRUCTIONS DATED (II) (III):				
	14 November 1960 28 November 1960 13 June 1961 16 January 1962	0		
METHOD OF COMPILATION (III):	Kelsh plotter			
MANUSCRIPT SCALE (III):		STEREOSC	OPIC PLOTTING INSTRUMENT	SCALE (III):
1:5,000		1:5,0	00	
DATE RECEIVED IN WASHINGTON	OFFICE (IV):	DATE REP	PORTED TO NAUTICAL CHART	BRANCH (IV):
APPLIED TO CHART NO.		DATE:	DATE R	EGISTERED (IV):
GEOGRAPHIC DATUM (III):		<u> </u>	VERTICAL DATUM (III): MEAN SEA DEVEL SHOEP? Elevations shown as (25) ref	fer to mean high water
Old Hawaiian			Elevations shown as (5) referite, mean low water or mean	
REFERENCE STATION (III):		<del> </del>		
<u>D</u> (7700) 1000				
SHORE Z (HGS) 1881, 1	1958 Long.:		Ten ADMISTED	
20° 35° 12.118″	156° 18! 04.999	<b>9"</b>	MADJUSTED WHADJUSTED	
PLANE COORDINATES (IV):			STATE	ZONE
v = 92,160.31'	x = 624,938.01		Hawaii	2
ROMAN NUMERALS INDICATE WHE OR (IV) WASHINGTON OFFICE.	ETHER THE ITEM IS TO BE ENT			

2 FORM C&GS-181b (12-61) U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY **DESCRIPTIVE REPORT - DATA RECORD** FIELD INSPECTION BY (II): DATE: J. C. Lajoye 1961-1962 MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): By Kelsh Instrument and annotations on field photographs PROJECTION AND GRIDS RULED BY (IV): DATE R.A.C. 12-7-60 PROJECTION AND GRIDS CHECKED BY (IV): DATE J.O.C. 12-7-60 DATE CONTROL PLOTTED BY (III):

L. A. Senasack 2-26-62 CONTROL CHECKED BY (III): L. O. Neterer 2-26-62 RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. E. Fuechsel February 1962 STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY DATE J. D. Mc Evoy April 1962 CONTOURS DATE Inapplicable MANUSCRIPT DELINEATED BY (III): C. A. Lipscomb April 1962 SCRIBING BY (III): PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE 4/62 D. M. Brant REMARKS: F.E. 1963

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U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

#### DESCRIPTIVE REPORT - DATA RECORD T-12934

CAMERA (KIND OR SOURCE) (III):

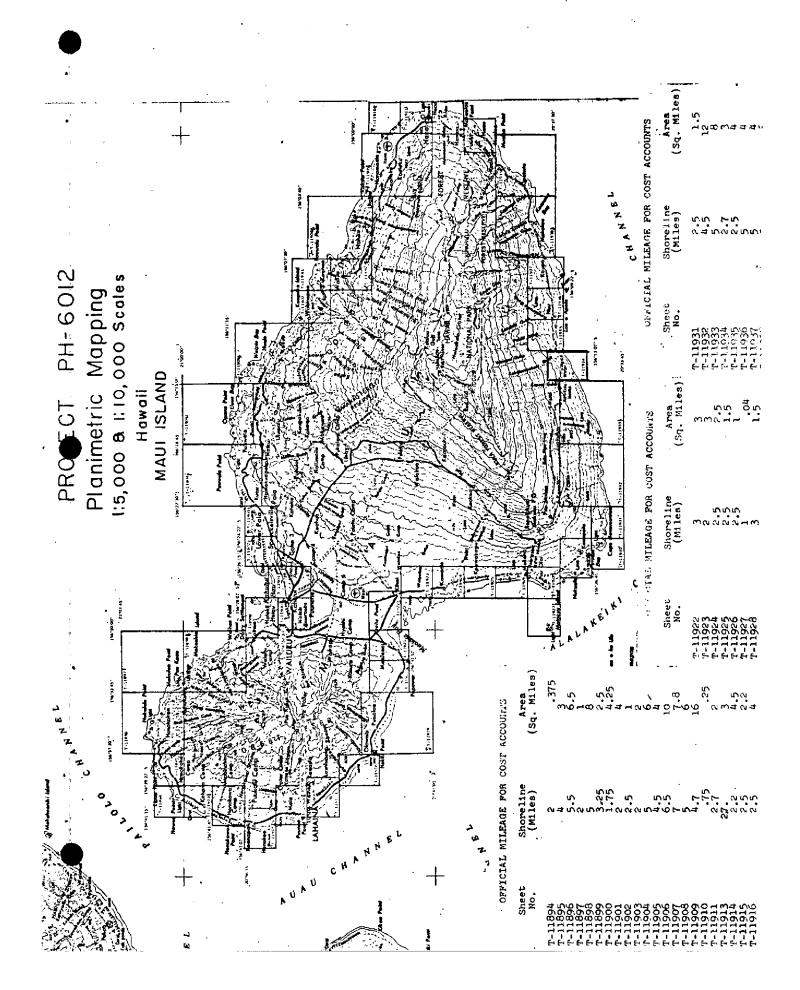
- nMn	Camera					
	PH	OTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	ST	AGE OF TI	DE
60 W 2292 60 W 2462 & 2463 61 W(C) 1128 thru 1131	1.5 F	t above t "	11			
The above computed fr	om Predicted T	ide Tables.				
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REFERENCE STATION:	olulu				1.2	1.9
BORDINATE STATION: Make	kena				1.5	2.1
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY	(IV)Leo F. Beugn	et, Norfolk Re	rine Center gional Office	Sept.	1965	
PROOF EDIT BY (IV):				DATE:		
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FOR	R (II):	RECOVERED: None	None	D:	
NUMBER OF BM(S) SEARCHED FOR (II):  RECOVERED: IDENTIFIED  None None						
NUMBER OF RECOVERABLE PHOT	O STATIONS ESTABLE	SHED (III):	None	110110		
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST	ABLISHED (III):	None			
REMARKS:						

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	April, 1962	Superseded
Compilation completed	Dec. 1963	
	·	



## SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-11934

Shoreline manuscript T-11934 covers a part of the coastline of Maui Island, Hawaii, in the vicinity of Kahawaihapapa Point. This is one of forty-nine similar maps which cover the shoreline of the island. The maps were compiled primarily for updating the shoreline on nautical charts and to provide photo-hydro signals for hydrographic surveys to be made in the area.

Field operations preceding compilation included recovery and/or establishment and identification of horizontal control; the selection of hydro signal sites and field inspection.

The maps were compiled by Kelsh plotter methods from 1:25,000 scale panchromatic photography taken on the 2nd and 8th of October 1960, supplemented by color photographs obtained 25th September 1961. Control established by Aerotriangulation was used to control the Kelsh models.

A cronaflex copy of the map manuscript showing shoreline, along-shore detail and shoreline pass points was furnished for preparation of the hydrographers boat sheet and for the location of photo-hydro signals by photogrammetric methods. 1:5,000 scale ratio photographs were furnished as part of the hydro support data and for field edit purposes.

The compilation manuscript is a vinylite sheet from which the smooth sheet was drafted and reproduced. One cronar positive and a cronar negative are provided for record and registry.

#### FIELD INSPECTION REPORT PROJECT PH-6012 Map Manuscript T-11934

Please refer to the Field Inspection report for Maui Island, Hawaii bound with the Descriptive Report for Map Manuscript T-11894.

FORM **164** (4-23-54)

MAP T. 11934.

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

FROM GSID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) FORWARD SCALE FACTOR (BACK) N.A. 1927 - DATUM DATE. FORWARD DATUM SCALE OF MAP 1:5,000 THERE IS NO HORIZONTAL CONTROL OF THIRD-ORDER ACCURACY OR HIGHER WITHIN OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) CHECKED BY: FORWARD PROJECT NO. PH-6012 LONGITUDE OR x-COORDINATE LATITUDE OR W-COORDINATE DATE DATUM SOURCE OF INFORMATION (INDEX) 1 FT. - .3048006 METER STATION COMPUTED BY:...

## PHOTOGRAMMETRIC PLOT REPORT T-11934

Please refer to the Photogrammetric Plot Report, Maui Island (East Half) Hawaii, dated February 1962, which is bound with the Descriptive Report for T-11931.

#### COMPILATION REPORT PROJECT PH-6012 (21034) Map Manuscript T-11934

#### 31. DELINEATION

The Kelsh Plotter was used for delineation using the photography taken on October 2nd and October 8th, 1960.

#### 32. CONTROL

Adequate supplemental control, based on identified horizontal control, was established by aerotriangulation for the setting of the Kelsh madels.

#### 33. SUPPLEMENTAL DATA

None

#### 34. CONTOURS AND DRAINAGE

Contours - Inapplicable

Drainage was compiled by the Kelsh operator by analogy using the U.S.G.S. quadrangle as a guide.

#### 35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and alongshore details were delineated on the Kelsh Plotter in accordance with the field inspection notes provided on field inspection photographs.

#### 36. OFFSHORE DETAILS

Details offshore of the MHWL were delineated from office interpretation of the photographs and are subject to verification by the hydrographer.

#### 37. LANDMARKS AND AIDS

There are no landmarks or aids to navigation within the limits of this map.

#### 38. CONTROL FOR FUTURE SURVEYS

No supplemental control for future surveys was established.

#### 39. JUNCTIONS

Satisfactory junctions were made with T-11933 on the west and T-11935 on the east. There is no contemporary survey on the north and it is bound on the south by Alenuihaha Channel.

#### LO. HORIZONTAL AND VERTICAL ACCURACY

Please refer to the Photogrammetric Plot Report bound with the Descriptive Report T-11894.

#### 46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangle LAULAILUA HILLS, Hawaii, scale 1:24,000, 1957 edition.

#### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4116, 1:250,000 scale, 11th edition, April 16, 1941, revised January 9, 1961.

#### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

#### ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

For Donald M. Brant

Carto. (photo)

Approved and Forwarded:

Capt. C&GS

Norfolk Regional Officer

#### GEOGRAPHIC NAMES

Ph 6012

T-11933 T-11934

- \* Kahaleaimakani Gulch
- \* Kahawaihapapa Point
- Kahikinui House
- \*Kepuni Gulch
  Kiakeana Point
- \* Manawainui Gulch Nakaohu Point
- ★ Palaha Gulch
- \* Pukai Gulch Wekea Point

These Names Not Separated by T Number.

All Names Approved by Office of Geography

Approved 1-20-66 A. J. Wraight

\* Appear on this monuscript

### 49. NOTES TO THE HYDROGRAPHER

The following photo-hydro signals, identified by the field inspection party, were located during compilation.

3401	Flag at corner of walls	60 W 2292
3402	Flag at N.W. corner of wall	60 W 2292
3403	Falg on end of rock outcrop	60 W 2292
3404	Flag at S.E. corner of old wall	60 W 2292
3405	Extreme end of sharp point (not flagged)	60 W 2292
3406	Flag at N.W. corner of old wall	60 W 2292
3407	Flag at break in wall	60 W 2292

FORM 182		P.	ното	GRAMMETRIC OF	FICE REVIEW		DEPARTMENT		
				T- 1193				/3	
PROJECTIO	DMB	2 TITLE	Ď	MB			3. manuscript numbers DMB	4. MANUSCRIPT SIZE DMB	
CONTROL		ZONTAL CONTROL IGHER ACCURACY DMB	STATIO	NS OF THIRD-ORDER	1		TAL STATIONS ( TOPOGRAPHIC		
STATIONS	7. PHOT	O HYDRO STATIONS DMB	8. BE	NONE	9. PLOTTING, OF	SEXTANT NONE	10. PHOTOGR PLOT RES	AMMETRIC PMB	
	11. DETA	DMB	******						
<del></del>	12. SHOR		13. LO	W-WATER LINE	14. ROCKS, SHOA	LS, ETC.	15. BRIDGES		
ALONGSHORE AREAS		DMB		DMB	DMB		NONE		
(Nautical Chort Data)	16. AIDS	TO NAVIGATION  DMB	<u>-</u>	17. LANDWARKS	DNW	18. OTHE FEAT	R ALONGSHORE PHYSICAL URES		
.e 2g	19. ОТНЕ	R ALONGSHORE CU	ILTURA	<u> </u>		1_2125		<del></del>	
		DMB			· · · · · · · · · · · · · · · · · · ·		<del></del>		
;	20. WATE	DMB			DMB	OUND COVE	R		
FEATURES	22 PLANETABLE CONTOURS NONE				23. STEREOSCOPIC INSTRUMENT CONTOURS NONE				
	24. CONT	OURS IN GENERAL NONE			25. SPOT ELEVATINONE	rions .			
	26. OTHE	DMB	JRES				_		
CULTURAL	27. ROAD	s DMB		28. BUILDINGS DMB	<u>,,,, ,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,</u>	29. RAIL NONE	ROADS		
FEATURES	30. OTHE	R CULTURAL FEAT	rures	<u></u>		<del>]</del>			
JOUNDARIES	31. BOUN	NONE			32. PUBLIC LANG	LINES			
MISCEL- LANEOUS	33. GEOG	DMB				34. JUNC	TIONS DMB		
5	35,LEGIB	ILITY OF THE MANU	SCRIPT	36. DISCREPANCY O	VERLAY	37. DESCI	RIPTIVE REPOR	·	
, £	L	INSPECTION PHOT			39. FORMS				
AFIELD COM	For PLETION	RE OF REVIEWER  D.M. Brant.  ADDITIONS AND CO			SIGNATURE OF SI	h Ale	s furnished by	the field com-	
pletion surv	ey have b	een applied to the	manus	ript. The manuscrip	ot is now complete	except as n	oted in temarks	on reverse side.	
SIGNATURE OF	COMPILE	<del></del>			SIGNATURE OF SI	JPERVISOR Lein	bug		
e <sup>1</sup>		-i	JSE REV	VERSE SIDE FOR REM	iarks // 🏹	•	USCOM	M-DC 28383-P61	

#### FIELD EDIT REPORT T-11934

No formal Field Edit Report was received for this manuscript. It is assumed that it was field edited at the same time as its adjoining manuscripts T-11933 and T-11935. Please refer to the copy of the letter which follows and is the next page of this report.

DATE: 8 July 1963

## Memorandum

COAST AND GEODETIC SURVEY

TO'

The Director

Coast and Goodetic Survey U.S.Dopartment of Commerce Mashington 25, D.C.

FROM : Commanding Officer USC&GSS Pathfinder

705 Federal Office Building

Scattle, Machington

SUBJECT: Field Edit Roport - OFR-419

During the first half of the 1963 field season, Pathfinder personnel field edited the manuscripts listed below for accuracy and employeenes. All roc mended changes have been noted on the blackling improssions in red and groon ink. In general, the manuceripte were found to be very reliable with only minor descrepancies botog potod.

Four manuscripts with noted changes are being forwarded to the Caphington Office on July 9. These manuscripts with no recommended charges have been neved below. The remaining manuscripts will be forwarded on need as we have had an opportunity to compare them with the boat choots now in Machington for photographying.

<b>T-11</b> 905	Edited - No charges
T-11986	Mited - Will be forwarded later
7-31907	Edited - Will be forwarded later
T-11503	Edited - Will be forwarded later
T-11959	Edited - Will be forwarded later
7-11910	Edited - Will be forwarded later
7-11911	Edited - Will be forwarded later
7-11930	Permanded 9 July
T-11931	Edited - Ho recommend changes
2-11993	Edited - No recommended changes
7-11933	Editod - No recommended changes
T-11935	Forwarded 9 July
7-11936	Ferwarded 9 July
T-11937	Forwarded 9 July
7-17991	Edited - Will be forwarded later
7-11992	Pritod - Will be forwarded later

It is requested that these namescripts be returned to the Ship as seen as is practical as they will be needed for smooth plotting.

H. J. Sonborg

Captain, USCEGS

#### REVIEW REPORT T-11934 SHORELINE March 21, 1966

#### 61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of Registered Planetable survey No. 3276, made in 1912 at 1:20,000 scale, and approved March 30, 1914. The shoreline on map manuscript T-11934 is shown in greater detail than on the old planetable survey. No major discrepancies between the two surveys were noted.

Shoreline manuscript T-11934 supersedes the prior survey and should be used for all future nautical chart constructions.

#### 63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Lualailua Hills, Hawaii, quadrangle, 1:24,000 scale, edition of 1957.

There are no discrepancies of importance between the two maps. Map manuscript T-11934, being at a much larger scale, shows the shoreline and alongshore area in greater detail than does the U.S.G.S. quadrangle.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None. See Notes to Verifier.

#### 65. COMPARISON WITH NAUTICAL CHARTS

The only chart that covers the area (chart 4116) is at 1:250,000 scale. Because of the difference in scales only a visual comparison was made between the chart and manuscript.

#### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

No items were noted which require investigation by future surveys in the area.

Reviewed by:

Approved by:

Director, Atlantic Marine Center

Approved by:

O<del>artograph</del>ic Branch Photogrammetric

Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

#### NOTES TO VERIFIER

No contemporary hydrographic surveys, in the area of this manuscript, were available at the time of Final Review.

#### NAUTICAL CHART DIVISION

#### RECORD OF APPLICATION TO CHARTS

T-11934 FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		·	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
<u> </u>			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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