

# 11909

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-11909

### LOCALITY

State Hawaii

General locality Maui Island

Locality Honomaele

11909

## DESCRIPTIVE REPORT - DATA RECORD

T-11909

PROJECT NO. (II):  PH 6012		
FIELD OFFICE (II):  Honolulu, Hawaii		CHIEF OF PARTY  H. J. Seaborg
PHOTOGRAMMETRIC OFFICE (III):  Baltimore, Maryland		OFFICER-IN-CHARGE  W. E. Randall
INSTRUCTIONS DATED (II) (III):  14 November 1960 28 November 1960 13 June 1961 16 January 1962		
METHOD OF COMPILATION (III):  Kelsh Plotter		
MANUSCRIPT SCALE (III):  1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:5,000 Pantograph 1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):  Old Hawaiian		VERTICAL DATUM (III): <b>MSL</b> MEAN SEA LEVEL EXCEPT AS FOLLOWS: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>
REFERENCE STATION (III):  HANA SOUTHEAST BASE, 1950		
LAT.:  20° 47' 16.357"	LONG.:  156° 01' 37.166"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):		STATE:      ZONE:

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): <b>J. C. Lajoie</b>		DATE: <b>Nov. 1961</b>
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): <b>Located by Kelsh Plotter from photography of October, 1960 supplemented by color photography of January 1962.</b>		
PROJECTION AND GRIDS RULED BY (IV): <b>R.A.C.</b>		DATE <b>11-30-60</b>
PROJECTION AND GRIDS CHECKED BY (IV): <b>J.D.C.</b>		DATE <b>12-6-60</b>
CONTROL PLOTTED BY (III): <b>L. A. Senasack</b>		DATE <b>4-62</b>
CONTROL CHECKED BY (III): <b>L. O. Neterer</b>		DATE <b>4-62</b>
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): <b>Aerotriangulation - Washington Office</b>		DATE <b>1962</b>
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY <b>E. L. Williams</b>	DATE <b>5-62</b>
	CONTOURS <b>Inapplicable</b>	DATE
MANUSCRIPT DELINEATED BY (III): <b>E. L. Williams</b>		DATE <b>6-62</b>
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): <b>D. M. Brant</b>		DATE <b>6-62</b>
REMARKS: <b>FIELD EDIT - USC&amp;GSS PATHFINDER</b> <b>DATE : Map Legend - June 1964</b> <b>NOTE : Records in this report (pages 13, 14, 15) indicate that the</b> <b>- Survey<sup>edit</sup> was probably accomplished in 1963; the date, however, is of</b> <b>no particular significance, inasmuch as only rocks and foul lines</b> <b>required correction.</b>		

FORM C&GS-181c  
(12-61)

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):  
"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2957 thru 2960	15 Oct. 1960	0924	1:25,000	1.8 Ft. Above MLLW
62 W(C) 2300 thru 2310	26 Jan. 1962	0959	1:10,000	0.9 Ft. Above MLLW
Tides computed from Predicted Tide Tables				

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION: Hana, Hawaii		1.8	2.5
SUBORDINATE STATION:			

FINAL  
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Norfolk Regional Office

DATE: Nov. 1965

PROOF EDIT BY (IV):

DATE: Dec. 1965

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 5	RECOVERED: 5	IDENTIFIED: 4
NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED: 0	IDENTIFIED: 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 10

REMARKS:



COMPILATION RECORD

COMPLETION DATE

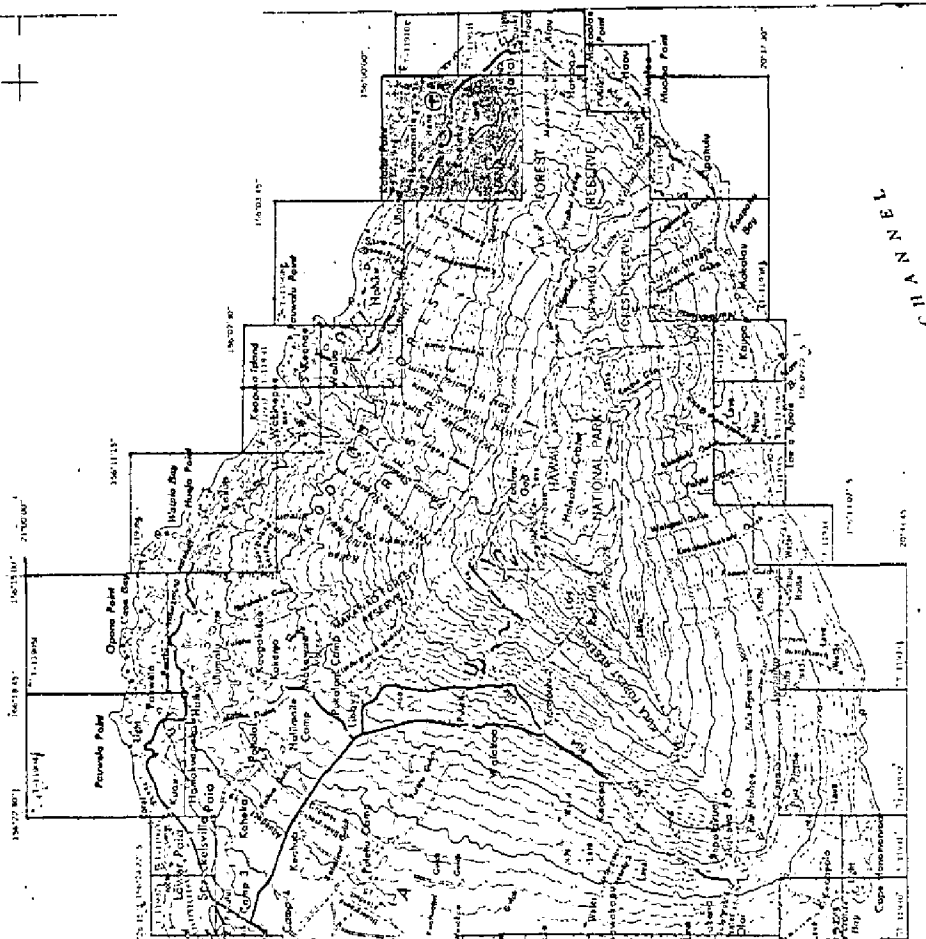
REMARKS

Alongshore area for hydro/	June 1962	superseded
Final Compilation	June 1964	

# Planimetric Mapping

1:5,000 & 1:10,000 Scales

## Hawaii MAUI ISLAND



OFFICIAL MILEAGE FOR COST ACCOUNTS			OFFICIAL MILEAGE FOR COST ACCOUNTS		
Shoreline (Miles)	Area (Sq. Miles)	Sheet No.	Shoreline (Miles)	Area (Sq. Miles)	Sheet No.
3	3	T-11931	2.5	1.5	
2	2	T-11932	4.5	12	
2.5	2.5	T-11933	5	8	
2.5	1.5	T-11934	2.7	3	
1	1	T-11935	2.5	4	
1	.04	T-11936	5	4	
1.5	1.5	T-11937	5	6	
3	3	T-11938	4.5	3	
1.5	.25	T-11939	2.5	2	

6.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11909

Shoreline map T-11909 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island. This was a Kelsh project in advance of hydrographic surveys in the area. The field operations preceding compilation included recovery and identification of horizontal control and field inspection. Kelsh compilation was at 1:10,000 scale from photography of October 1960 at 1:25,000 scale. Ratio prints were subsequently furnished for hydro support along with a cronaflex positive with shoreline, alongshore features and pass points for preparation of the hydrographers boat sheet. The manuscript is a vinylite sheet  $4\frac{1}{4}$  minutes in latitude by  $3\frac{3}{4}$  minutes in longitude which was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

## FIELD INSPECTION REPORT

Please refer to the Field Inspection Report for Maui Island  
bound with the Descriptive Report for T-11991.



SCALE FACTOR 1

[illegible]

CHECKED BY: **R.F.C.**

DATE 5-28-62

**COMM-DC-57843**

## COMPILATION REPORT T-11909

For additional data pertaining to this survey please refer to the Field Inspection Report for Maui Island bound with T-11991 and the Photogrammetric Plot Report bound with T-11907.

ITEMS 31 THRU 36

Please refer to the Compilation Report bound with T-11896

37. LANDMARKS AND AIDS

There are no landmarks or aids to navigation within the compilation limits.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established.

39. JUNCTIONS

Satisfactory junctions were made with the following surveys along their common junctions, T-11908, T-11910, T-11911, and T-11989.

46. COMPARISON WITH EXISTING MAPS

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

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4116, scale 1:250,000, 12th edition, August 17, 1964.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

*Joseph Steinberg*  
For: Donald M. Brant  
Carto. (Photo.)

Approved:

*J. Bull*  
J. Bull  
Capt. C&GS  
Norfolk Regional Officer

11.  
T-11909

48. Geographic Names List:

The Geographic Names listed below were furnished by the Washington Office on U.S.G.S. Hana, Hawaii 7½ minute quadrangle, scale 1:24,000, edition of 1957.

Heleleikeoha Stream

Honomaele Gulch

Honomaele

Kalahu Point

Keakulikuli Point

Keawaiki Bay

Koali\*

Muolea\*

Oilowai Gulch

Pailoa Bay

Pakaulua Point

Ulaino

*A. J. Wright*

ALL NAMES APPROVED BY  
GEOGRAPHIC NAMES SECTION  
UNLESS OTHERWISE MARKED.

*\* Not shown on this survey*



Ph-6012  
Maul Island, Hawaii  
Surveys T-11907 thru T-11909

19. NOTES FOR THE HYDROGRAPHER

A set of ratio prints has been prepared for use during photo-hydro support. Photography was taken in 1960 and 1961. Color photography, where available, was used as an aid in interpreting offshore details and foul lines.

The positions of the following hydrographic signal sites have been established photogrammetrically for the following surveys.



## PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

T- 11909

1. PROJECTION AND GRIDS <i>L.F.B.</i>		2. TITLE <i>L.F.B.</i>		3. MANUSCRIPT NUMBERS <i>L.F.B.</i>	4. MANUSCRIPT SIZE <i>L.F.B.</i>
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <i>L.F.B.</i>		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) <i>None</i>		
	7. PHOTO HYDRO STATIONS <i>None</i>	8. BENCH MARKS <i>None</i>	9. PLOTTING OF SEXTANT FIXES <i>None</i>	10. PHOTOGRAMMETRIC PLOT REPORT <i>L.F.B.</i>	
	11. DETAIL POINTS <i>L.F.B.</i>				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE <i>L.F.B.</i>	13. LOW-WATER LINE <i>L.F.B.</i>	14. ROCKS, SHOALS, ETC. <i>L.F.B.</i>	15. BRIDGES <i>None</i>	
	16. AIDS TO NAVIGATION <i>None</i>		17. LANDMARKS <i>None</i>	18. OTHER ALONGSHORE PHYSICAL FEATURES <i>L.F.B.</i>	
	19. OTHER ALONGSHORE CULTURAL FEATURES <i>L.F.B.</i>				
PHYSICAL FEATURES	20. WATER FEATURES <i>L.F.B.</i>		21. NATURAL GROUND COVER <i>L.F.B.</i>		
	22. PLANETABLE CONTOURS <i>None</i>		23. STEREOSCOPIC INSTRUMENT CONTOURS <i>None</i>		
	24. CONTOURS IN GENERAL <i>None</i>		25. SPOT ELEVATIONS <i>None</i>		
	26. OTHER PHYSICAL FEATURES <i>L.F.B.</i>				
CULTURAL FEATURES	27. ROADS <i>L.F.B.</i>	28. BUILDINGS <i>L.F.B.</i>	29. RAILROADS <i>None</i>		
	30. OTHER CULTURAL FEATURES <i>L.F.B.</i>				
BOUNDARIES	31. BOUNDARY LINES <i>None</i>		32. PUBLIC LAND LINES <i>None</i>		
	33. GEOGRAPHIC NAMES <i>L.F.B.</i>				
MISCELLANEOUS	34. JUNCTIONS <i>L.F.B.</i>		35. LEGIBILITY OF THE MANUSCRIPT <i>L.F.B.</i>		
	36. DISCREPANCY OVERLAY <i>L.F.B.</i>		37. DESCRIPTIVE REPORT <i>L.F.B.</i>		
	38. FIELD INSPECTION PHOTOGRAPHS <i>L.F.B.</i>		39. FORMS <i>L.F.B.</i>		
	SIGNATURE OF REVIEWER <i>Leo F. Bugnet</i>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i>		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER <i>Leo F. Bugnet for E. L. Williams</i>			SIGNATURE OF SUPERVISOR <i>Joseph Steinberg</i>		

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25353-P61

FIELD EDIT REPORT  
T-11909

There is no formal Field Edit Report. Please refer to the two following Memorandums concerning field edit of this manuscript.

# Memorandum

24 14.

DATE: 3 July 1963

TO : The Director  
Coast and Geodetic Survey  
U.S. Department of Commerce  
Washington 25, D.C.

FROM : Commanding Officer  
USSAGSS Pathfinder  
705 Federal Office Building  
Seattle, Washington

SUBJECT: Field Edit Report - CFR-419

During the first half of the 1963 field season, Pathfinder personnel field edited the manuscripts listed below for accuracy and completeness. All recommended changes have been noted on the blackline impressions in red and green ink. In general, the manuscripts were found to be very reliable with only minor discrepancies being noted.

Four manuscripts with noted changes are being forwarded to the Washington Office on July 4. Those manuscripts with no recommended changes have been noted below. The remaining manuscripts will be forwarded as soon as we have had an opportunity to compare them with the boat sheets now in Washington for photographing.

2-11905	Edited - No changes
2-11906	Edited - Will be forwarded later
2-11907	Edited - Will be forwarded later
2-11908	Edited - Will be forwarded later
✓ 2-11909	Edited - Will be forwarded later
2-11910	Edited - Will be forwarded later
2-11911	Edited - Will be forwarded later
2-11912	Forwarded 9 July
2-11913	Edited - No recommended changes
2-11914	Edited - No recommended changes
2-11915	Edited - No recommended changes
2-11916	Forwarded 9 July
2-11917	Forwarded 9 July
2-11918	Forwarded 9 July
2-11919	Edited - Will be forwarded later
2-11920	Edited - Will be forwarded later

It is requested that those manuscripts be returned to the Ship as soon as is practical as they will be needed for smooth plotting.

*G. J. Seaborg*  
G. J. Seaborg  
Captain, USCGS



UNITED STATES GOVERNMENT

# Memorandum

15.  
U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

*[Handwritten signature]*  
C 6314

TO : Chief, Photogrammetry Division

DATE: January 24, 1964

C 631/w

FROM : Commanding Officer  
USC&GS PATHFINDER  
705 Federal Office Bldg.  
Seattle 4, Washington 98104

SUBJECT: Field Edit data, Project 2103<sup>4</sup> (Ph-6012), Maui Island,  
Hawaii

Manuscripts T-II907 and T-II99I were corrected and sent 1/9/64 with transmittal letter PATH I-64. Manuscripts T-II906, T-II908 through T-II911 and T-II992 are being sent. Shoreline revision was necessary on T-II909 and T-II908 only.

Replying to 6314/ih

*[Handwritten signature]*  
for *[Handwritten signature]*  
E. J. Seaborg Capt. USC&GS  
Ship PATHFINDER  
Seattle, Washington

Joe

YOU WILL NOT RECEIVE ANY NOTIFICATION  
OTHER THAN THIS LETTER RE FIELD EDIT ON  
MANUSCRIPTS WITH NO CHANGES NOTED. THE  
~~THEY~~ ~~(T-II907)~~ PROBABLY COPIES THAT WERE  
TRANSMITTED HERE WITH NO CHANGES I  
SENT BACK TO THE SHIP (T-II911, T-II912, T-II913)  
THEY ARE IN OUR RECORDS

*[Handwritten signature]*  
1/31/64

16.

REVIEW REPORT T-11909  
SHORELINE

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with Registered Planetable survey No. 3274, 1:20,000 scale dated March 30, 1914.

Shoreline manuscript T-11909 supersedes Planetable survey 3274 and should be used for all future chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8719-PF-10-2-63 sheet CC and H-8721-PF-10-4-63. The shoreline of the manuscript and boat sheets are in good agreement. BP 64431

64335

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4116, 1:250,000 scale, 12th edition of August 17, 1964.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

\* Refer to page 18 of this report concerning agreement between the shoreline & hydro surveys.



Reviewed by:

Leo F. Bugnet

Approved by:

J. Bull  
J. Bull, Director, Atlantic Marine Center

Approved by:

Charles Hemm  
Chief, Cartographic Branch *566*

Chas. D. Boyer 2/21/68  
Chief, Chart Division  
Marine

L. F. Woodward  
Chief, Photogrammetry Division

Chief, Operations Division

*Refer to page 18*



NOTES TO VERIFIER  
H-8719 and H-8721  
(Comparison with T-11909)

T-11909 was field edited (Ship PATHFINDER) in conjunction with hydrography (H-8719 and H-8721). Changes in the shoreline survey resulting from the edit were concerned only with foul lines. These changes were applied in the compilation office prior to production of the final map.

During the final review of T-11909 comparisons were made with copies of boat sheets PF-10-2-63 sheet cc (H-8719) and PF-10-4-63 (H-8721). Shorelines shown on the surveys were found to be in agreement. No additional comment was made.

Prior to registration, T-11909 was compared with BP-64431 (H-8719) and BP-64395 (H-8721) at the Washington office. Soundings have been carried inshore of the edited foul line; and some rocks located near the shoreline survey foul line are not shown on the hydro surveys. For the present the above hydro survey information will not be considered to constitute an edit - the information will not be applied to T-11909.

If in the opinion of the hydro survey reviewer, hydrography was sufficiently developed (and/or sounding volumes contain applicable references) to consider the information an edit, the shoreline survey will be corrected.

*W.D. Review Unit  
568*



