

11915

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-11915
LOCALITY	
State	Hawaii
General locality	Maui Island
Locality	Hanakao Point
1960 19 62	
CHIEF OF PARTY	
H. J. Seaborg - Honolulu District Office	
Miller J. Tonkel - Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	1967

USCOMM-DC 5087

11915

12 0 120 - 4062

DESCRIPTIVE REPORT - DATA RECORD
T-11915

PROJECT NO. (II):

PH-6012

FIELD OFFICE (III):

Honolulu District Office

CHIEF OF PARTY

H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore District Office

OFFICER-IN-CHARGE

Miller J. Tonkel

INSTRUCTIONS DATED (II) (III):

14 November 1960
28 November 1960
13 June 1961
27 December 1961
16 December 1962
1 April 1963

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:5,000

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):

~~MEAN SEA LEVEL EXCEPT AS FOLLOWS~~ MHW

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

KEKAA (HGS) (Pioneer Sugar Co 1928) 1881

LAT.:

20° 55' 49.829"

LONG.:

156° 41' 54.858"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

= 216,893.90 ft.

x = 489,112.06 ft.

STATE

Hawaii

ZONE

2

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): John C. Lajoie		DATE: 1961-1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water line located by Kelsh plotter from photography of 5 October 1960 supplemented by 1961 photography.		
PROJECTION AND GRIDS RULED BY (IV): RAC		DATE October 1960
PROJECTION AND GRIDS CHECKED BY (IV): JDC		DATE October 1960
CONTROL PLOTTED BY (III): D. M. Brant		DATE April 1961
CONTROL CHECKED BY (III): H. P. Eichert		DATE April 1961
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. A. Kunics		DATE March 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY D. M. Brant	DATE May 1961
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L. A. Senasack		DATE November 1961
DRAFTING BY (III): C. A. Lipscomb		DATE July 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): J. D. McEvoy		DATE Sept. 1963
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
61 W 970 thru 972	24 Sept. 1961	11:27	1:15,000	0.1 ft. above MLW
60 W 2597	10 Oct. 1960	9:02	1:25,000	0.5 ft. above MHW

From predicted tide tables

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii			1.2	1.9
SUBORDINATE STATION: Lahaina			1.3	2.0
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1	RECOVERED: 1	IDENTIFIED: 1		
NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED: None	IDENTIFIED: None		
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		None		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		3		

REMARKS:

COMPILATION RECORD

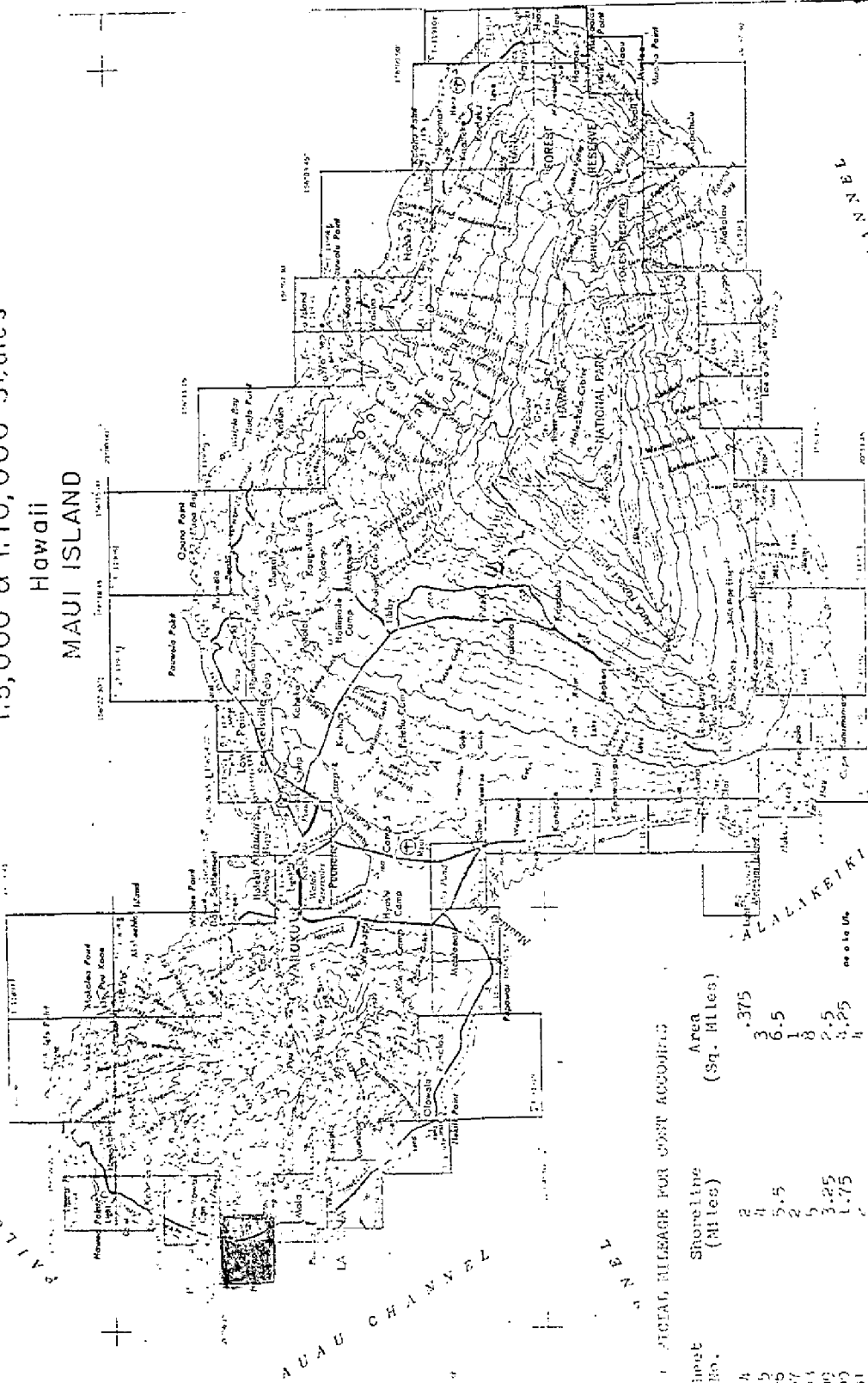
COMPLETION DATE

REMARKS

Alongshore area for hydro	Nov. 1961	superseded
Final Compilation	July 1963	

PLANNED Planimetric Mapping 1:5,000 & 1:10,000 Scales

Hawaii MAUI ISLAND



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Shoreline (Miles) Area (Sq. Miles)

2-11894	2	3.75	
2-11895	4	3	
2-11896	5.5	6.5	
2-11897	2	1	
2-11898	5	8	
2-11899	3.25	2.5	
2-11900	1.75	4.25	
2-11901	2.5	1	
2-11902	2	6	
2-11903	5	10	
2-11904	4.5	7.5	
2-11905	1	6	
2-11906	3.7	10.5	
2-11907	2.7	3	
2-11908	2.7	2.5	
2-11909	2.5	3.5	
2-11910	2.5	4	
2-11911	2.5	4	
2-11912	2.5	4	
2-11913	2.5	4	
2-11914	2.5	4	
2-11915	2.5	4	
2-11916	2.5	4	
2-11917	2.5	4	
2-11918	2.5	4	
2-11919	2.5	4	
2-11920	2.5	4	
2-11921	2.5	4	
2-11922	2.5	4	
2-11923	2.5	4	
2-11924	2.5	4	
2-11925	2.5	4	
2-11926	2.5	4	
2-11927	2.5	4	
2-11928	2.5	4	
2-11929	2.5	4	
2-11930	2.5	4	
2-11931	2.5	4	
2-11932	2.5	4	
2-11933	2.5	4	
2-11934	2.5	4	
2-11935	2.5	4	
2-11936	2.5	4	
2-11937	2.5	4	
2-11938	2.5	4	
2-11939	2.5	4	
2-11940	2.5	4	
2-11941	2.5	4	
2-11942	2.5	4	
2-11943	2.5	4	
2-11944	2.5	4	
2-11945	2.5	4	
2-11946	2.5	4	
2-11947	2.5	4	
2-11948	2.5	4	
2-11949	2.5	4	
2-11950	2.5	4	

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Shoreline (Miles) Area (Sq. Miles)

2-11951	3	3	
2-11952	2	3.5	
2-11953	2.5	1.5	
2-11954	2.5	1	
2-11955	2.5	1	
2-11956	2.5	1	
2-11957	2.5	1	
2-11958	2.5	1	
2-11959	2.5	1	
2-11960	2.5	1	
2-11961	2.5	1	
2-11962	2.5	1	
2-11963	2.5	1	
2-11964	2.5	1	
2-11965	2.5	1	
2-11966	2.5	1	
2-11967	2.5	1	
2-11968	2.5	1	
2-11969	2.5	1	
2-11970	2.5	1	
2-11971	2.5	1	
2-11972	2.5	1	
2-11973	2.5	1	
2-11974	2.5	1	
2-11975	2.5	1	
2-11976	2.5	1	
2-11977	2.5	1	
2-11978	2.5	1	
2-11979	2.5	1	
2-11980	2.5	1	
2-11981	2.5	1	
2-11982	2.5	1	
2-11983	2.5	1	
2-11984	2.5	1	
2-11985	2.5	1	
2-11986	2.5	1	
2-11987	2.5	1	
2-11988	2.5	1	
2-11989	2.5	1	
2-11990	2.5	1	
2-11991	2.5	1	
2-11992	2.5	1	
2-11993	2.5	1	
2-11994	2.5	1	
2-11995	2.5	1	
2-11996	2.5	1	
2-11997	2.5	1	
2-11998	2.5	1	
2-11999	2.5	1	
2-12000	2.5	1	

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Shoreline (Miles) Area (Sq. Miles)

2-11931	2.5	1.5	
2-11932	2.5	1.5	
2-11933	2.5	1.5	
2-11934	2.5	1.5	
2-11935	2.5	1.5	
2-11936	2.5	1.5	
2-11937	2.5	1.5	
2-11938	2.5	1.5	
2-11939	2.5	1.5	
2-11940	2.5	1.5	
2-11941	2.5	1.5	
2-11942	2.5	1.5	
2-11943	2.5	1.5	
2-11944	2.5	1.5	
2-11945	2.5	1.5	
2-11946	2.5	1.5	
2-11947	2.5	1.5	
2-11948	2.5	1.5	
2-11949	2.5	1.5	
2-11950	2.5	1.5	
2-11951	2.5	1.5	
2-11952	2.5	1.5	
2-11953	2.5	1.5	
2-11954	2.5	1.5	
2-11955	2.5	1.5	
2-11956	2.5	1.5	
2-11957	2.5	1.5	
2-11958	2.5	1.5	
2-11959	2.5	1.5	
2-11960	2.5	1.5	
2-11961	2.5	1.5	
2-11962	2.5	1.5	
2-11963	2.5	1.5	
2-11964	2.5	1.5	
2-11965	2.5	1.5	
2-11966	2.5	1.5	
2-11967	2.5	1.5	
2-11968	2.5	1.5	
2-11969	2.5	1.5	
2-11970	2.5	1.5	
2-11971	2.5	1.5	
2-11972	2.5	1.5	
2-11973	2.5	1.5	
2-11974	2.5	1.5	
2-11975	2.5	1.5	
2-11976	2.5	1.5	
2-11977	2.5	1.5	
2-11978	2.5	1.5	
2-11979	2.5	1.5	
2-11980	2.5	1.5	
2-11981	2.5	1.5	
2-11982	2.5	1.5	
2-11983	2.5	1.5	
2-11984	2.5	1.5	
2-11985	2.5	1.5	
2-11986	2.5	1.5	
2-11987	2.5	1.5	
2-11988	2.5	1.5	
2-11989	2.5	1.5	
2-11990	2.5	1.5	
2-11991	2.5	1.5	
2-11992	2.5	1.5	
2-11993	2.5	1.5	
2-11994	2.5	1.5	
2-11995	2.5	1.5	
2-11996	2.5	1.5	
2-11997	2.5	1.5	
2-11998	2.5	1.5	
2-11999	2.5	1.5	
2-12000	2.5	1.5	

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11915

Shoreline survey T-11915 (1:5,000 scale) is one of 49 similar maps in this project. It covers a part of the shoreline of Maui Island along the northwesterly coast from Latitude $20^{\circ} 54' 22.5''$ northward to Latitude $20^{\circ} 56' 15''$.

This was a stereoscopic instrument project in advance of hydrographic surveys to be made in the same area. The Zeiss Stereoplanigraph was used for bridging of control, compilation was by Kelsh Plotter using photography obtained in October 1960.

The field operations preceding compilation included field inspection, recovery and identification of horizontal control and the identification of hydro signals. A cronaflex copy of the manuscript along with a set of ratio prints was subsequently provided for hydro support purposes.

The compilation manuscript is a vinylite sheet $01' 52.5''$ in latitude by $02' 22.5''$ in longitude. The registered copies of the survey will consist of a cronar film positive and a film negative.

FIELD INSPECTION REPORT
T-11915

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

PHOTOGRAMMETRIC PLOT REPORT
T-11915

Please refer to the Photogrammetric Plot Report for Maui
Island, Hawaii dated March 1961 bound with the Descriptive Report
for T-11894.

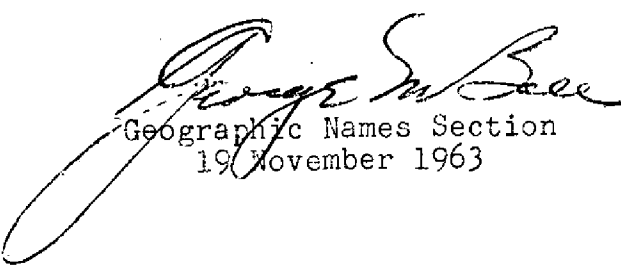
COMPILATION REPORT
T-11915

Please refer to the Compilation Report bound with the Descriptive Report for T-11913 which covers the compilation of map manuscripts T-11913 through T-11918.

48. Geographic Names List

Hanakaoo Point

Kaanapali
Kekaa Point


Geographic Names Section
19 November 1963

49. NOTES FOR THE HYDROGRAPHER

The following hydrographic stations, identified by the field inspector, were located during compilation:

1501	South end of bridge rail	60 W 2596
1502	Center of cross	60 W 2597
1503	North corner of concrete wall	60 W 2597

49. NOTES FOR THE HYDROGRAPHER

The following hydrographic stations, identified by the field inspector, were located during compilation:

1501	South end of bridge rail	60 W 2596
1502	Center of cross	60 W 2597
1503	North corner of concrete wall	60 W 2597

12.

FORM 182 (3-61) <div style="float: right;">50</div>		PHOTOGRAMMETRIC OFFICE REVIEW T-11915		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS <div style="text-align: center;">DMB</div>		2. TITLE <div style="text-align: center;">DMB</div>		3. MANUSCRIPT NUMBERS <div style="text-align: center;">DMB</div>	
4. MANUSCRIPT SIZE <div style="text-align: center;">DMB</div>		5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <div style="text-align: center;">DMB</div>		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) <div style="text-align: center;">NONE</div>	
CONTROL STATIONS		7. PHOTO HYDRO STATIONS <div style="text-align: center;">DMB</div>		8. BENCH MARKS <div style="text-align: center;">NONE</div>	
		9. PLOTTING OF SEXTANT FIXES <div style="text-align: center;">NONE</div>		10. PHOTOGRAMMETRIC PLOT REPORT <div style="text-align: center;">DMB</div>	
		11. DETAIL POINTS <div style="text-align: center;">DMB</div>			
ALONGSHORE AREAS (Nautical Chart Data)		12. SHORELINE <div style="text-align: center;">DMB</div>		13. LOW-WATER LINE <div style="text-align: center;">DMB</div>	
		14. ROCKS, SHOALS, ETC. <div style="text-align: center;">DMB</div>		15. BRIDGES <div style="text-align: center;">NONE</div>	
		16. AIDS TO NAVIGATION <div style="text-align: center;">NONE</div>		17. LANDMARKS <div style="text-align: center;">NONE</div>	
PHYSICAL FEATURES		18. OTHER ALONGSHORE PHYSICAL FEATURES <div style="text-align: center;">DMB</div>			
		19. OTHER ALONGSHORE CULTURAL FEATURES <div style="text-align: center;">DMB</div>			
PHYSICAL FEATURES		20. WATER FEATURES <div style="text-align: center;">DMB</div>		21. NATURAL GROUND COVER <div style="text-align: center;">DMB</div>	
		22. PLANETABLE CONTOURS <div style="text-align: center;">NONE</div>		23. STEREOSCOPIC INSTRUMENT CONTOURS <div style="text-align: center;">INAPPLICABLE</div>	
		24. CONTOURS IN GENERAL <div style="text-align: center;">INAPPLICABLE</div>		25. SPOT ELEVATIONS <div style="text-align: center;">NONE</div>	
		26. OTHER PHYSICAL FEATURES <div style="text-align: center;">DMB</div>			
CULTURAL FEATURES		27. ROADS <div style="text-align: center;">DMB</div>		28. BUILDINGS <div style="text-align: center;">DMB</div>	
		29. RAILROADS <div style="text-align: center;">NONE</div>		30. OTHER CULTURAL FEATURES <div style="text-align: center;">DMB</div>	
31. BOUNDARY LINES <div style="text-align: center;">NONE</div>		32. PUBLIC LAND LINES <div style="text-align: center;">NONE</div>			
MISCELLANEOUS		33. GEOGRAPHIC NAMES <div style="text-align: center;">DMB</div>		34. JUNCTIONS <div style="text-align: center;">DMB</div>	
		35. LEGIBILITY OF THE MANUSCRIPT <div style="text-align: center;">DMB</div>		36. DISCREPANCY OVERLAY <div style="text-align: center;">DMB</div>	
		37. DESCRIPTIVE REPORT <div style="text-align: center;">DMB</div>		38. FIELD INSPECTION PHOTOGRAPHS <div style="text-align: center;">DMB</div>	
		39. FORMS <div style="text-align: center;">DMB</div>			
SIGNATURE OF REVIEWER <div style="text-align: center;">J. D. Mc Evoy</div>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <div style="text-align: center;">Joseph Steinberg</div>			
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			SIGNATURE OF SUPERVISOR		

FIELD EDIT REPORT
T-11915

Please refer to the Field Edit Report for Maui Island, Hawaii
(strips 1 through 7) dated 17 August 1962 bound with the Descriptive
Report for T-11894.

14.

REVIEW REPORT
SHORELINE T-11915

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with copies of Registered Planetable Surveys No. 3268 and No. 3269. These were planetable surveys at 1:20,000 scale made in 1912 and registered March 30, 1914.

Shoreline manuscript T-11915 supersedes these two prior surveys and should be used for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. LAHAINA, Hawaii quadrangle, 1:24,000 scale edition of 1956.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets 8577 and 8578, 1:10,000 scales, dated 10-2-61 and 10-3-61 respectively. The shoreline of the manuscript and the boat sheets are identical as the shoreline for the boat sheets was taken directly from the map manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4130, 1:80,000 scale, 4th edition August 31, 1964.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Joseph Steinberg
For: Donald M. Brant
Approved by:

J. Bull
J. Bull, Director
Atlantic Marine Center

Approved by:

L. F. Woodward
Chief, Photogrammetry Division

Charles L. Lerner
Chief, Cartographic Branch SGO
Photogrammetric

Chief, Chart Division

Chief, Operations Division

