NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline Job No. PH-6627 Map No. I-13041.
Classification No. Final Edition Nol
LOCALITY
State Alaska
General Locality Duncan Canal
Locality Ohmer Slough
19 66 TO 19 74
REGISTRY IN ARCHIVES

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

MAP NOT INSPECTED BY

QUALITY CONTROL OF PHOTOGRAMMETRY DIVISION

PRIOR TO REGISTRATION

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE.	TYPE OF SURVEY SURVEY	xx T-13041
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		_
	ORIGINAL MAPEDIT	он но. (1)
DESCRIPTIVE REPORT - DATA RECORD	T RESURVEY MAP CLAS	s Finàl
	REVISED JOB	рн. <u>6627 </u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDING MAP EDI	TION
Coastal Mapping Division		PH
Atlantic Marine Center, Norfolk, VA		S
OFFICER-IN-CHARGE	RESURVEY SURVEY D	ATES:
Jeffrey G. Carlen, Cdr.	REVISED 19_TO 1	9
I. INSTRUCTIONS DATED		
t. OFFICE	2. FIELD	
Aerotriangulation 8/16/66 (Cancelled		6 (annemon)
Office 9/06/66 (Cancelled	Free Don Marin -1	- lan
Office, Amend. I 10/24/66 (Cancelled		8/12
Office, Supp. I 11/11/71 (Cancelled	15	
Office, Supp. I 11/11/71 (Cancelled Office, Amend. I 12/02/71 (cancelled	Ι ζ	
Aerotriangulation 7/20/72	 '	
Office 7/18/72		
011169 //10/ (2		i
II. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
[A] 1927 NORTH AMERICAN		
MEAN HIGH-WATER	OTHER (Specify)	!
2. VERTICAL:		
MEAN LOWER LOW-WATER		•
MEAN SEA LEVEL		
3. MAP PROJECTION	4. GRID(5)	
Polyconic	Alaska Zone	1
5. SCALE 1:10,000	STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS		
	NAME	DATE
OPERATIONS 1. AEROTRIANGULATION BY	D. Norman	8/72
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY	Non e	0/14
2. CONTROL AND BRIDGE POINTS PLOTTED BY	D. Phillips	8/72
METHOD: Coradomat CHECKED BY		
	R. R. White	8/72
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. O. Neterer	8/72
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
SCALE: 1:15,000 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	S. S. Kumer	9/72
CHECKED BY		9/72
	F. P. Margiotta	
CONTOURS BY	NA NA	
METHOD: Smooth drafted CHECK PO BY	NA NA	
METHOD: Smooth drafted CHECKED BY MHWL Graphic HYDRO SUPPORT DATA BY	NA NA S. S. Kumer	9/72
метноо: Smooth drafted cнескыю ву	NA NA S. S. Kumer F. P. Margiotta	9/72 9/72
METHOD: Smooth drafted checked by MHWL Graphic HYDRO SUPPORT DATA BY SCALE: 1:10.000	NA NA S. S. Kumer F. P. Margiotta F. P. Margiotta	
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		T-13041 History of Field	OPERATIONS			OCEAN SURV
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		PERATION	NA NA	ME		DATE
CHIEF OF FIEL	D PARTY		R. H. Houlde			May 1972
		RECOVERED BY	 	L	-	may 1772
HORIZONTAL C	ONTROL	ESTABLISHED BY	None			
	•	PRE-MARKED OR IDENTIFIED BY	None			
·		RECOVERED BY	None			
VERTICAL CON	TROL	ESTABLISHED BY	NA			
		PRE-MARKED OR IDENTIFIED BY	NA	•		
		RECOVERED (Triangulation Stations) BY	None			**
LANDMARKS AN		LOCATED (Field Methods) BY	None			
AIDS TO NAVIG	ATION	IDENTIFIED BY	None			
		TYPE OF INVESTIGATION	1			
GEOGRAPHIC N	AMES	COMPLETE				
INVESTIGATION		SPECIFIC NAMES ONLY	}			
		NO INVESTIGATION				
PHOTO INSPECT	TION	CLARIFICATION OF DETAILS BY	None			
BOUNDARIES AL	ND LIMITS	SURVEYED OR IDENTIFIED BY	NA			
SOURCE DATA						
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. OTHER FIELD F	RECORDS (Sketch books, etc. DO NOT list data submit	red to the Geodesy Divi	eion)		
	None					
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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIG AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

HISTORY OF FIFE D OPERATIONS

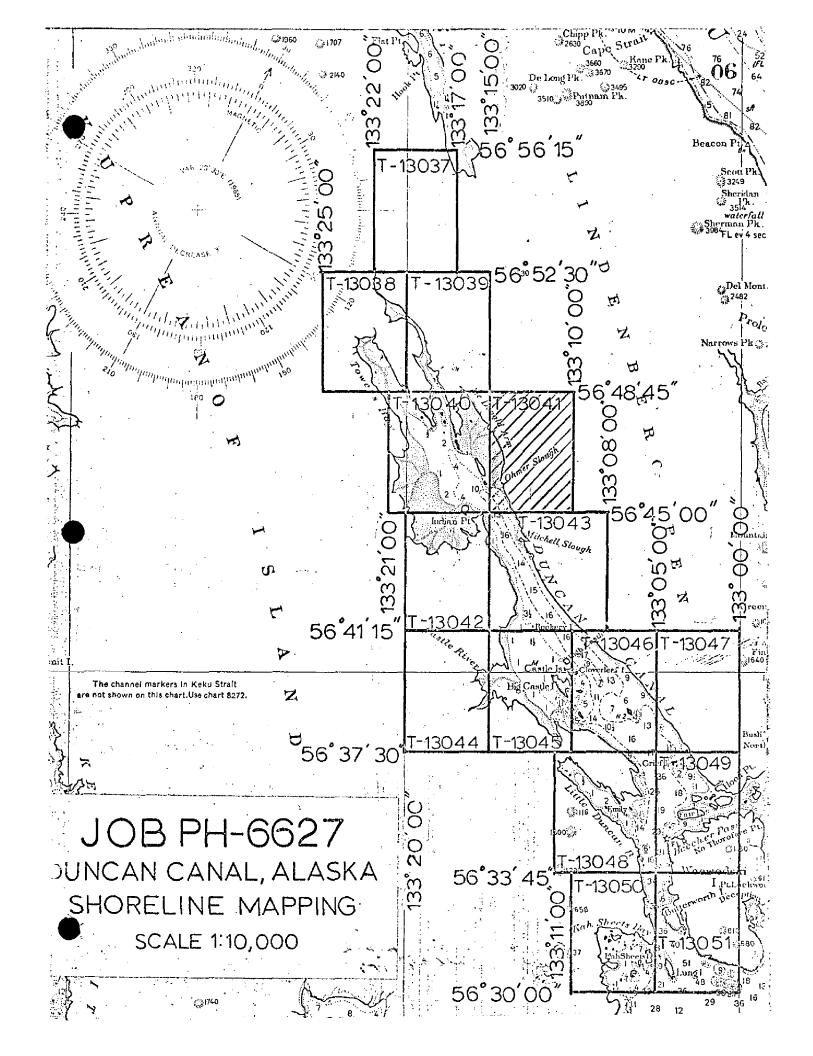
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	OPERATION	NAM	E DATE
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5194 Th - 0	RECOVERED BY	M. H. Fleming	Oct 1974
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	RECOVERED BY		
. VERTICAL CONTROL			
	PRE-MARKED OR IDENTIFIED BY		
	RECOVERED (Triangulation Stations) By	27	
LANDMARKS AND	LOCATED (Field Methods) BY	7 7 6 1	Oct 1974
AIDS TO NAVIGATIO	N IDENTIFIED BY	Mana	000 1974
	TYPE OF INVESTIGATION		
GEOGRAPHIC NAMES			
INVESTIGATION	SPECIFIC NAMES ONLY		
	X NO INVESTIGATION		
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. D. Sarb	Oct 1974
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SOURCE DATA			
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NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE

RECORD OF SURVEY USE

			RECO	RD OF SURVE	Y USE				
I. MANUSC	RIPT COPIES	•			•				
	Co	MPILA	TION STAGES	3			DATEM	ANUSCRI	T FORWARDED
	DATA COMPILED	ļ	DATE	RE	MARKS		MARINE	HARTS	HYDRO SUPPORT
	tion complete field Edit	Se	p 1972 [.]	Class III supersede		ipt	Sep 19	72	Sep 1972
	dit applied tion complete	Ma	y 19 7 5	Class I m	anuscrip	t	Jun 19	75	None
Final R	leview	Apr	il 1980	Fin	al		Dec. 19	81	
	ARKS AND AIDS TO NAVIGA								
1. REPO	ORTS TO MARINE CHART D	VISION	NAUTICAL	DATA BRANCH					
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4. 🗌	DATA TO FEDERAL RECO	RDS CE	NTER. DATI	E FORWARDED:	12/10	1.8/0			
IV. SURVE	Y EDITIONS (This section s	hall be			edition is re				
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SECOND	DATE OF PHOTOGRAPS		DATE OF FI	~			MAP CL		- FINAL
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EDITION	DATE OF PHOTOGRAPI	⊣ Y	DATE OF FI	ELD EDIT	□ 11.	□m.	MAP CL □iv.	ASS □v.	FINAL
	SURVEY NUMBER		JOB NUMBER	₹			YPE OF S	_	
FOURTH	TP	_ (4)	PH			□ REV		∐ RESC	RVÉY
EDITION	DATE OF PHOTOGRAPH	17	DATE OF FI	ELD EDIT	П.,	П	MAP CL		



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NOAA FORM 76-41 (6-75) HAND PLOTTING BY LISTED BY MAP NO. COMPUTED BY HILL, STYX. 1974 1959 STATION NAME T-13041 R. **4** Pate SOURCE OF INFORMATION (Index) JOB NO. P. 951 FIELD EDIT PH-6627 AEROTRI-ANGULATION POINT NUMBER 11/10/71 DESCRIPTIVE REPORT CONTROL RECORD DATE COORDINATES IN FEET GEODETIC DATUM HAND PLOTTING CHECKED BY COMPUTATION CHECKED BY Ψ Ÿ × ¥. χ, × ¥ LISTING CHECKED BY * × ĭ ۲ STATE. ZONE NA 1927 Charles Parker • 0 0 Φ. • GEOGRAPHIC POSITION 0 7 ф 0 0 133 133 片 56 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION A LONGITUDE \$ LATITUDE 10 115 14 G ORIGINATING ACTIVITY COASTAL Mapping Division, AMC, North lk, VA 11,026 14.396 51.967 02.595 FORWARD DATE 187.4 DATE 883.2 145.3 80.3 REMARKS (9°0T/TC) (1775.7)(832.2)136.5

SUPERSEDES NOAA FORM 75-41, 2-71 EDITION WHICH IS OBSOLETE.

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS T13037-13042 and T-13044

Project PH-6627 covers the entire area of Duncan Canal, Alaska from North of Towers Arm southeast, to Lung Island.

There were fifteen (15) maps assigned in this project T13037 thru T-13051 all at scale 1:10,000. The purpose of these maps was to provide contemporary shoreline data in the support of hydrographic operations and to aid in nautical chart revision.

Field work prior to compilation during the 1972 field season consisted of paneling horizontal control stations in advance of the aerial photography.

The area was flown in June 1972 with 1:50,000 scale B&W bridging photography with the "M" camera. Compilation photos were also taken with the "E" camera at 1:30,000 scale on color film.

Analytic aerotriangulation was performed at the Washington Science Center in August 1972.

The maps were compiled and hydro support ratios were prepared at AMC in September and October 1972.

Field edit was completed in October 1974. It was applied to the map at AMC in June 1975.

Final Review was performed at AMC in January - August 1980. The original base manuscript and all pertinent data was forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

T-13041

Field inspection was limited to the recovery and identification of horizontal control for aerotriangulation.

PHOTOGRAMMETRIC PLCT REPORT Job PH-6627 Duncan Canal, Alaska August 1972

21. Area Covered

The entire area of Duncan Canal, Alaska, is covered by this report. The southeastern corner of the project has the coordinates of 56 30'00" and 133 00'00". Included in the project are T-sheets T-13037 thru T-13051.

22. Method

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One strip of photography, 72-M-1086 thru 1095 at 1:50,000 scale, was bridged by analytic aerotriangulation methods. Four horizontal control stations were used in the adjustment with one station as a check. All points were drilled by the PUG method. Enough points were transferred and read to provide compilation and ratio points on four parallel strips of color photography. These strips, 72-E(C)-3830 thru 3847, 3854 thru 3862, 3912 thru 3930 and 66-L(C)-5659 thru 5661, all at 1:30,000 scale, will be used to compile the area. All points were plotted on Alaska Zone 1 coordinates using the Coradi Plotter. Ratios of the area were ordered.

23. Adequacy of Control

The control was adequate and complied with project instructions.

24. Supplemental Data

USGS topographic quadrangles were used to obtain vertical control for the bridged strip.

25. Photography

The photography was adequate as to coverage, overlap and definition.

Respectively submitted:

Approved and Forwarded:

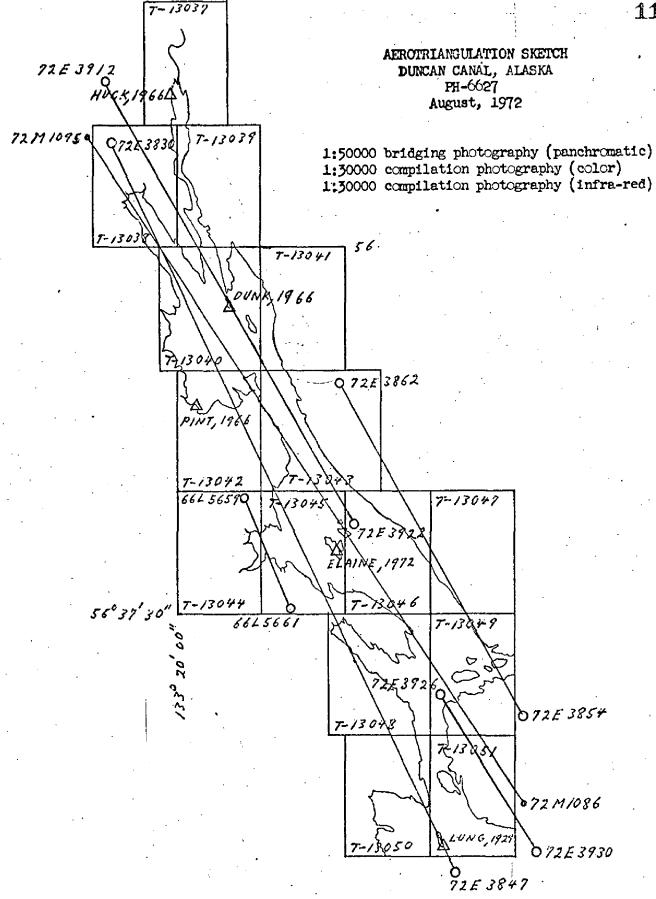
John D. Perrow, Jr.

Acting Chief

Aerotriangulation Section

Nor O. Norman

Cartographer



COMPILATION REPORT

T-13041

31. DELINEATION:

Compilation was by the Wild B-8 stereoplotter. The photography was good as to definition and coverage.

There was no field inspection prior to compilation.

32. CONTROL:

See "Photogrammetric Plot Report" dated August 1972.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Since the stage of tide at the time of photography is between MHW and MLLW, only the mean high water line was compiled using the Wild B-8. All foreshore data will be furnished by the field editor and/or hydrographer.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions are in agreement with T-13040 to the westand T-13043 to the south. There are no contemporary surveys to the north and east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle PETERSBURG (D-4), ALASKA, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with USC&GS Chart 8201, scale 1:217,828, 12th edition, dated July 4, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rausk M. For Susan S. Kumer Cartographic Aide September 20, 1972

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

7/31/80

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6627 (Duncan Canal, Alaska)

T-13041

Duncan Canal

Duncan Creek

Kupreanof Island

Lindenberg Peninsula

McDonald Arm

Ohmer Slough

Approved by:

Charles E. Harrington Chief Geographer, C3x5

FORM C&GS-1002			U.:	S. DEPARTMENT OF COMMERCE
19-00/	PHO:	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			13041	
	12		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIP! NUMBERS	4. MANUSCRIPT SIZE
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CONTROL STATIONS				
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	TIONS OF CCURACY	6. RECOVERAB OF LESS TH (Topographic	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY stations)	7. PHOTO HYDRO STATIONS
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8. BENCH MARKS	9. PLOTTING O	FSEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
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16. AIDS TO NAVIGATION	17. LANDMARK	5	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
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PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL C	ROUND COVER	22. PLANETABLE CONTOURS
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27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
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31. BOUNDARY LINES			32. PUBLIC LAND LINES	
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33. GEOGRAPHIC NAMES		34. JUNCTIONS	•	MANUSCRIPT
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36. DISCREPANCY OVERLAY FPM 40. REVIEWER	FI		38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS FPM
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36. DISCREPANCY OVERLAY FPM 40. REVIEWER	FI		38. FIELD INSPECTION PHOTOGRAPHS	FPM NOR UNIT, WER. 4.
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FIELD EDIT REPORT OPR-448 DUNCAN CANAL ALASKA

1974

FIELD EDIT REPORT

TP-13037

-TP-13038

TP-13039

TP-13040

TP-13041 TP-13042

TP-13044

STATION-LIST

FORM 567's

POSITION. COMPUTATIONS

FIX DATA ABSTRACT

ORIGINAL FIELD RECORDS

Field Edit Report TP-13041

Introduction

The area covered by this report is the eastern shoreline of Duncan Canal extending north from IndianPoint to the southeastern reach of McDonald Arm. The area is typically tidal flats bordered by heavily forested shoreline.

Method

A field edit T-sheet was taken into the field to verify questioned features, Where possible, sextant fixes (with check angles) were used. Signals were photo-picked from photographs #3836 and #3918.

Adequacy

Field Editing should be considered complete in the area investigated with all questions anwered.

The Field Edit Ozalid is fully andd completely annotated.

The office compilation is adequate for use on the chart.

Recommendations:

The manuscript should be accepted as complete with the corrections compiled by this field edit.

Respectfully Submitted famus D. Saul

James D. Sarb ENS., NOAA

Approved

M. H. Fleming
CDR., NOAA Cmdg

To charts

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REVIEW REPORT T-13041

SHORELINE

April 1980

61. GENERAL STATEMENT

See Summary, included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not available

COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Hydro in this area was "cancelled" 12/9/75; no comparison was made.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with chart 17360, scale 1:217,828, 23rd ed. June 16/79. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project instructions, and meets the requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by: Jim Byrd

Final Reviewer

Approved for forwarding:

albut C. Ranck n. Act. Chief Photogrammetric Branch, AMC

Approved:

Chief Photogrammetric Branch

Chief Photogrammetry Division