Original

13097

13097

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)

Field No. ..... Office No. T-13097

LOCALITY

State WASHINGTON

[redacted]

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 13097

PROJECT NO. (II):

PH-6706

FIELD OFFICE (II):	CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Atlantic Marine Center	J. Bull, RADM Director, Atlantic Marine Center

INSTRUCTIONS DATED (II) (III):

OFFICE (Aerotriangulation) November 18, 1966
OFFICE (Compilation) January 18, 1967

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	1:6,000 pantographed to 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):	VERTICAL DATUM (III): MHW
N. A. 1927	EXCEPT AS FOLLOWS: *Elevations shown as (25) refer to mean high water* *Elevations shown as (5) refer to sounding datum* *i.e. or mean lower low water*

REFERENCE STATION (III):

EVELYN, 1962 ✓

LAT.:	LONG.:	
48° 08' 10.3012" (318.2) ✓	123° 09' 37.9002" (783.6) ✓	☒ ADJUSTED ☐ UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
Y = 423,040.99' ✓	X = 1,431,827.92' ✓	Washington	North

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.

USCOMM-DC 36393A-P66

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): Lyle Riggers	DATE: Oct. & Nov. 1966
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): July 26, 1966 - Air Photo Compilation	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE: Nov. 21, 1966
PROJECTION AND GRIDS CHECKED BY (IV): R. Glasser	DATE: Nov. 22, 1966
CONTROL PLOTTED BY (III): L. Graves	DATE: Jan. 1967
CONTROL CHECKED BY (III): C. Bishop	DATE: Jan. 1967
[redacted] STEREOSCOPIC CONTROL EXTENSION BY (III): Robert B. Kelly	DATE: Jan. 9, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh Plotter	PLANIMETRY: L. Neterer; Reviewed by: A. Shands — DATE: Feb. 2, 1967; Feb. 2, 1967
	CONTOURS: Inapplicable — DATE:
MANUSCRIPT DELINEATED BY (III): L. L. Graves	DATE: Feb. 18, 1967
SCRIBING BY (III): F. P. Margiotta	DATE: April 25, 1968
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop; FIELD EDIT: R.J. Pate; SCRIBING & STICK UP: R.E. Smith	DATE: Feb. 19, 1967; Feb. 2, 1968; June 3, 1968

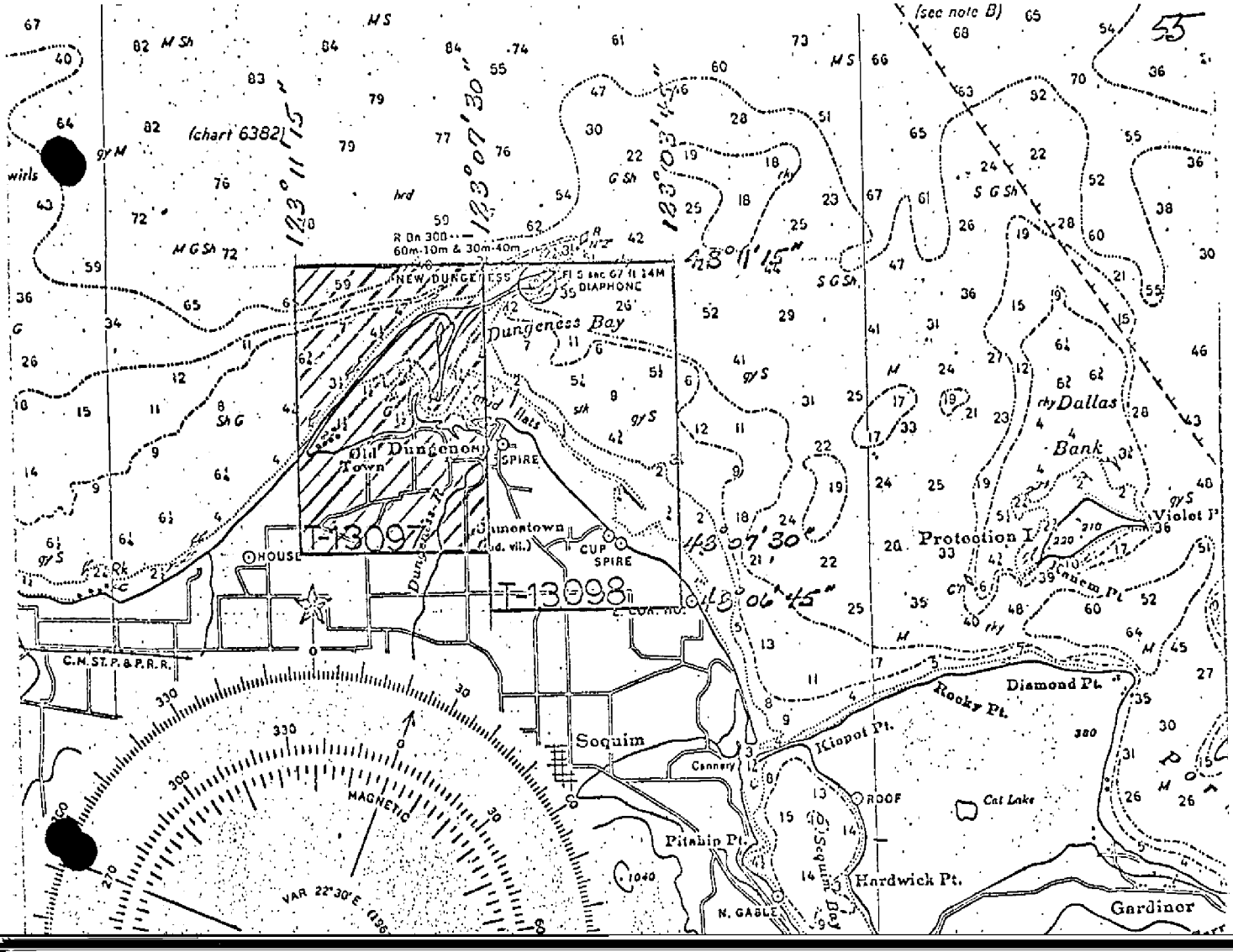
REMARKS:

FIELD EDIT BY: W. F. Forster, II — June, 1967 ~~August 23, 1967~~

4

T-13097

COMPILATION RECORD	COMPLETION DATE	REMARKS
ADVANCE MANUSCRIPT Alongshore area for hydrography	February 1967	Superseded
Field Edit applied Compilation Complete	September 1967	Superseded
Final Review	March 1969	


(see note B)
55
(chart 6382)
NEW DUNGENESS
Fl S sec 67 ft 14M
DIAPHONE
Dungeness Bay
mud flats
Old Dungeness Town
SPIRE
Dungeness R.
Dungeness (sd. vil.)
CUP
SPIRE
HOUSE
T-13097
T-13098
C.M.ST.P.&P.R.R.
Soquim
Cannery
ROOF
Cat Lake
Pitship Pt.
N. GABLE
Hardwick Pt.
Sequim Bay
Gardiner
Kiapot Pt.
Rocky Pt.
Diamond Pt.
Protection I.
Violet P
Bank
Dallas
MAGNETIC
VAR 22°30' E (1936)
48°11'15"
48°07'30"
48°06'45"
123°11'15"
123°07'30"
123°03'45"

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13097

Shoreline manuscript T-13097 is one of two 1:10,000 scale maps that comprise Ph-6706. The maps are for New Dungeness Harbor and Dungeness Bay in the Strait of Juan De Fuca, in the state of Washington. The sketch on page 5 of this report shows the position of T-13097 in Ph-6706.

This is a stereo-instrument job in advance of hydrographic surveys of the area. Color photographs were taken on July 26, 1966 at 1:20,000 and 1:30,000 scales with the "S" camera. The stero-bridges were run and adjusted to field identified control in the Washington Office using black and white diapositives of the 1:30,000 scale photographs. Compilation was done with the Kelsh Plotter. Ratio black and white cronapaque prints at 1:10,000 scale from the 1:30,000 photographs, were processed and provided for photo-hydro support.

Pre-compilation field work consisted of control identification on contact transparencies of the 1:30,000 scale color photographs, and field inspection on color contact prints of the 1:30,000 scale photographs.

Field edit was done during June 1967 in conjunction with hydro support. The map was scribed and stuck-up after applying the field edit.

Final review was done at the Atlantic Marine Center in March 1969.

The compilation manuscript was a vinylite sheet 3 minutes and 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex, from which a positive and negative are furnished for registry and record.

Field Inspection Report
Dungeness Bay, Washington
Project Ph-6706

Map Manuscripts T-13097 and T-13098
Oct.-Nov. 1966

The contact, color, photographic transparencies furnished the field unit was of excellent quality and no difficulty was encountered in the selection and identification of the photo-control points.

All horizontal control stations established by the Coast and Geodetic Survey was searched for and a Form 526 (Recovery Note, Triangulation Station) is being submitted for each station.

Four new horizontal control stations were located by triangulation intersection methods. They are the four range markers that designate measured, nautical mile course. They were photo identified in lieu of Station TAR, 1940.

All tidal bench marks were searched for and the disposition of each mark has been indicated on its respective Form 685A, Recovery Note, Bench Mark.

Landmarks and fixed aids to navigation were investigated and they have been listed on Form 567 (Non-floating Aids or Landmarks for Charts). One fixed aeronautical aid, a fan marker was also photo identified.

Eleven photo-hydro stations were identified and numbered on the contact, color photography. A list and brief description of the station follows:

- 9701 - North gable, green building with black roof
- 9702 - Base of half-round flume
- 9703 - ~~West~~ East gable, white building with red roof ((See F. Insp. Photo 66-S-3246A))
- 9704 - Northwest corner, pier
- 9705 - Lone, outbuilding
- 9706 - Box on lone pile
- 9801 - Southeast gable, ~~large barn~~ unpainted shed ((See F. Insp. photo 66-S-3236))
- 9802 - Northwest gable, large barn.
- 9803 - East end of 4 pile structure
- 9804 - Southwest corner, pier in ruins
- 9805 - Southwest gable, white house with red roof

Approved:

John O. Boyer, CDR
Chief, Operations Division
Pacific Marine Center

Respectfully submitted,

Lyle A Riggen

for. Robert B. Melby
Survey. Technician, C&GS
Photo Field Unit
Pacific Marine Center

PHOTOGRAMMETRIC PLOT REPORT
JOB PH-6706
DUNGENESS BAY, WASHINGTON

January 9, 1967

21. Area Covered

This report covers T-sheets 13097 and 13098 of Dungeness Bay, Washington.

22. Method

Two horizontal bridges were run to provide control for graphic compilation. [redacted]

Strip #1 and the C-5 was used for same of Strip #2. Photographs 66-S(C)-3255 thru 3259 and 66-S(C)-3292 thru 3297 were used for field editing an office identification of points. Black and white diapositives made from color negatives were used in bridging of the two horizontal strips. All pass and tie points were drilled on the diapositives. The adjustment on the IBM 1620 utilized 6 control stations for Strip #1 and 5 control stations for Strip #2. One control station was used as a check for Strip #1 and 3 control stations were used as checks for Strip #2.

23. Adequacy of Control

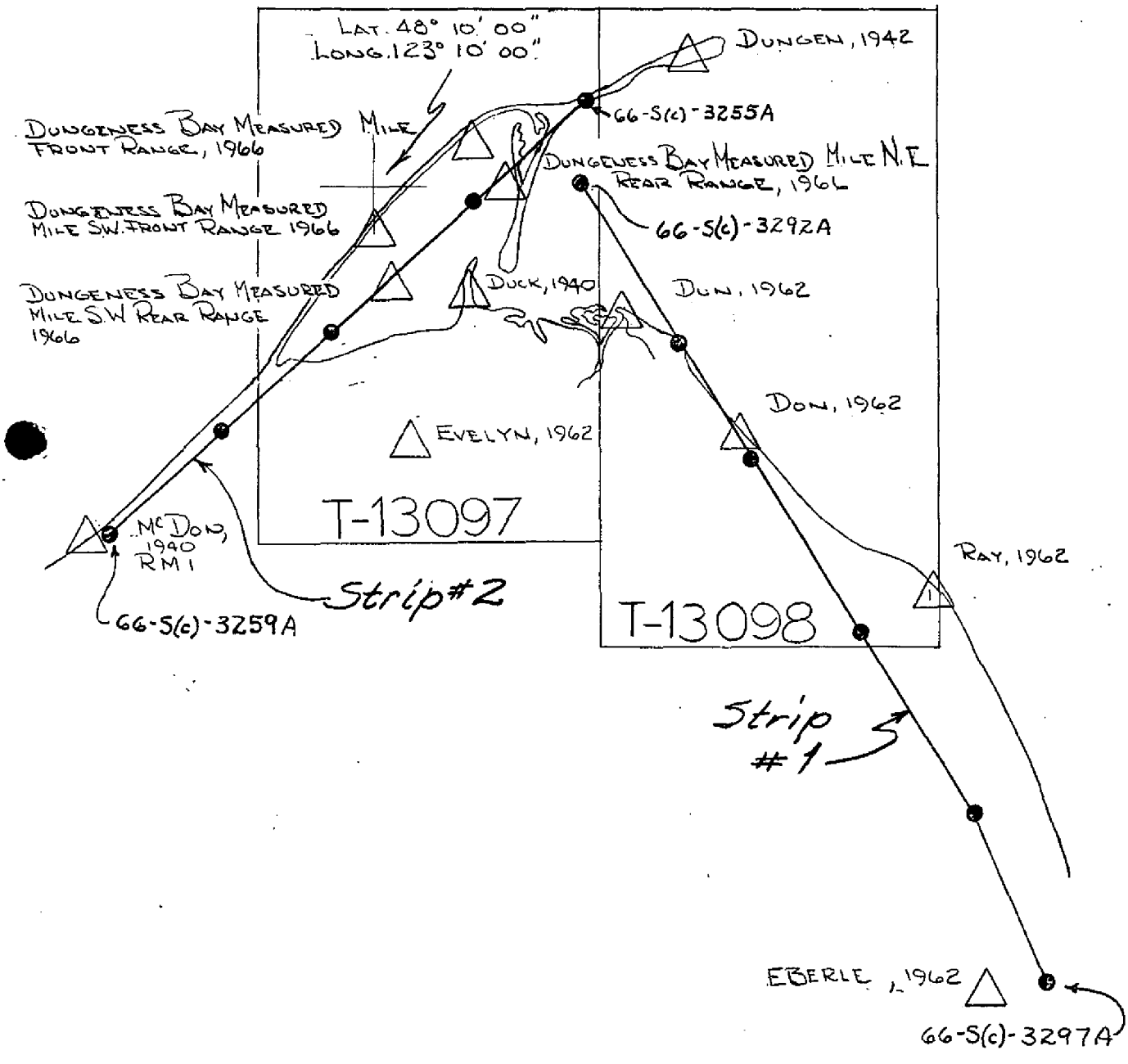
Horizontal control accuracy meets the standards for delineating shoreline sheets at 1:10,000 scale. An error was found in distances from EBERLE 1962 to substitute stations A & B. The reason for error was due to the reversal of the distances recorded on the control station identification sheet. Correction of error caused all control stations to hold within the accuracy required by the National Map Standards.

Common points were hit between Strips #1 and #2 to augment datum tie. All tie points were averaged between the two strips.

25. Photography

AEROTRIANGULATION SKETCH
DUNGENESS BAY, WASHINGTON

PH - 6706
JANUARY, 1967



FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-13097 PROJECT NO. PH-6706 SCALE OF MAP 1:10,000 SCALE FACTOR NONE

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
EVELYN, 1962	P.C. Vol. II Pg. 317	N.A. 1927	423,040.99	3,040.99 (1,959.0)			
			1,431,827.92	1,827.92 (3,172.08)			
DUCK, 1940	" " Pg. 316	" "	429,651.86	4,651.86 (348.14)			
			1,434,595.87	4,595.87 (404.13)			
DUNGENESS BAY MEASURED MILE, NORTHEAST							
FRONT RANGE, 1966	CLARY COMP.	" "	436,641.76	1,641.76 (3,358.24)			
			1,436,007.40	1,007.40 (3,992.60)			
DUNGENESS BAY MEASURED MILE, NORTHEAST							
REAR RANGE, 1966	"	" "	434,187.33	4,187.33 (812.67)			
			1,436,587.25	1,587.25 (3,412.75)			
DUNGENESS BAY MEASURED MILE SOUTHWEST							
FRONT RANGE 1966	"	"	432,472.02	2,472.02 (2,527.98)			
			1,430,743.91	743.91 (4,256.09)			
DUNGENESS BAY MEASURED MILE SOUTHWEST							
REAR RANGE 1966	"	"	429,984.88	4,984.88 (15.12)			
			1,431,331.16	1,331.16 (3,668.84)			
TAR, 1940	G.P. Pg. 1816	"	48°10'30.581"	944.6 (908.6)			
			123°08'42.960"	887.5 (352.1)			
MC DON, 1940	P.C. Pg. 390	"	419,394.71	4394.7 (605.3)		About 2 mi. west of T-13097	
			1,417,295.15	2,295.2 (2704.8		and PH-6704, "Identified"	

1 FT. = .3048006 METER

COMPUTED BY: A.C. RAUCK, JR. DATE JAN. 25, 1967 CHECKED BY: L.L. Graves DATE Jan 26, 1967

COMM-DC-57843

COMPILATION REPORT
T-13097

31. DELINEATION

Kelsh instruments were used in the compilation of this map manuscript.

32. CONTROL

Refer to Photogrammetric Plot Report and the Field Inspection Report submitted with this Descriptive Report. Control was adequate. The drilled pass point control held very well.

33. SUPPLEMENTAL DATA

U.S.C.&G.S. Hydrographic Survey No. 6650, dated Nov-Dec 1940
Scale 1:10,000

U.S.C.&G.S.Hydrographic Survey No. 6651, dated Dec-Jan 1940,1941
Scale 1:10,000

These data were used for comparison purposes only.

34. CONTOURS AND DRAINAGE

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

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. The mean high water line was not located by the field inspector. Alongshore details such as bluffs, piers, piling, roads, etc. were identified.

Compilation photos were taken at a time of near high water, which was significant in the delineation of this feature. No low water lines were delineated.

Six photo hydro signal sites were selected and described by the field inspector. One of these, No. 9706, was positioned by the Kelsh; the others were plotted from plane coordinates included in the IBM readout.

36. OFFSHORE DETAILS

Offshore details were compiled from field inspection data and office interpretation of the photographs.

37. LANDMARKS AND AIDS

Four non-floating aids were located and identified by the field inspector. These are also triangulation stations.

Form 567 "Non-floating Aids or Landmarks for Charts" is herewith submitted for these aids.

38. CONTROL FOR FUTURE SURVEYS

A descriptive list of photo-hydro stations for this sheet has been included with "Notes for the Hydrographer".

39. JUNCTIONS

A satisfactory junction has been made to the east with survey T-13098.

There are no contemporary surveys to the north, west or south.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to "Photogrammetric Plot Report" included with this report concerning horizontal accuracy. Vertical accuracy is inapplicable.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S.G.S. Dungeness

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted:

Charles H Bishop

Charles H. Bishop
Cartographer

Approved and Forwarded:

Allen L. Powell
RADM, USESSA
Director, Atlantic Marine Center

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6706 (Dungeness Bay, Washington)

T-13097

✓ Dungeness Bay

* Dungeness National Wildlife Refuge

✓ Dungeness River

✓ Dungeness Spit

** Dungeness Valley

** Matriotti Creek

** Meadowbrook Creek

✓ New Dungeness Harbor

✓ Old Town

✓ Strait of Juan de Fuca

* Not used, boundary not delineated
** " " , outside delineation limits.

Approved by:

A. J. Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

An ozalid copy of this map manuscript has been prepared for your use. On it are noted items which may require further clarification or verification during hydrography or edit.

The following photo hydro signal sites, pre-selected by the field inspection party have been shown on the copy (ozalid and cronaflex) of the manuscript.

9701 - North gable, green building with black roof
9702 - Base of half round flume
9703 - East gable, white building with red roof
9704 - Northwest corner, pier
9705 - Lone outbuilding
9706 - Box on lone pile

15.

FORM C&GS-1002
(9-66)

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-13097

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CHB	CHB	CHB	CHB

[redacted]

FORM CD-181 (11-63) (PRES. BY O. 106-10)

UNITED STATES GOVERNMENT

Memorandum

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

TO : Chief, Photogrammetry Division

DATE: August 23, 1967

In reply refer to:

FROM : Commanding Officer,
USC&GS Ship HODGSON

SUBJECT: Field Edit Report: Projects Job PH-6714, Admirality Inlet, and PH-6706, Dungeness Bay, Wn.

In accordance with Project Instructions OPR 412-Port Discovery - to Dungeness Bay dated 6 February 1967 the above subject assigned field editing was accomplished.

Under separate cover are submitted field edit ozalids and photographs for OPR 412 and subject projects. Signals were located by standard photo-grametric methods and all location of photo-hydro signals are considered final.

Final verification of preliminary control overlays is now being undertaken. After final control verification the mylar cronaflex copies of the "T" sheets will be forwarded to your office.

Attached with this report is a summary per "T" sheet of field editing accomplished. All notes are in purple ink. Little photo-identification of rocks was accomplished on the southern part of the subject survey area because of heavy shadowing. Hydrographic fixes were plotted on all "T" sheets to aid in the final varification of questioned items and uncharted rocks.

The HODGSON is being deactivated as of 25 August 1967. All field data that is remaining aboard will be transferred to Chief Processing, Seattle, Washington.

Walter F. Forster II

Enclosure: Summaries of accomplished
field editing

JOB PH-6706

T-13097

Verification of T-13097 is complete. All notes to the verifier are on the field edit ozalid attached. Field edit was made only within the area of the hydrographic survey, these limits are shown on the ozalid. The MLLW line will be developed in its final correct position on smooth sheet H-8930.

The field edit ozalid notes are dated 4/67

C&GS FORM 567
(11-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Dungeness Bay
Measured Nautical Mile Course

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~
} STRIKE OUT TWO

Sequim Washington — November 2, 1966

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by Lyle L. Riggers

Robert B. Melby
Chief of Party

STATE: Washington			POSITION					METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE*		LONGITUDE*								
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.M. METERS	° ′	″ D.P. METERS	DATUM						
MARKER	Dungeness Bay, Measured Mile, Southwest Rear Range		48 09	18.650 576.0	123 09	48.320 998.7	N.A. 1927	F-13697 Triang.	10/31/66				6300 6382 6401
MARKER	Dungeness Bay, Measured Mile, Northeast Front Range		48 10	25.707 794.0	123 08	42.332 874.6	"	" "	"				" "
MARKER	Dungeness Bay, Measured Mile, Northeast Rear Range		48 10	01.667 51.5	123 08	32.694 675.6	"	" "	"				" "
MARKER	Dungeness Bay, Measured Mile, Southwest Front Range		48 09	43.008 1328.4	123 09	58.089 1200.4	"	" "	"				" "

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 16234-P61

REVIEW REPORT T-13097
SHORELINE
SEPT. 1969

61. GENERAL STATEMENT

See Summary, page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 21 through 23), which shows the differences noted in Items 62 thru 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey T-6819; 1:10,000; December 1940.

The T-6819 differences with this survey are shown in blue on the Comparison Print.

T-6819 shows a "pile" near 48° 08.9, 123° 10.84'; "pier and piling remains from T-4193" in the same area; and "deadheads" near 48° 08.83', 123° 10.7' (all on page 22). None of these features are on this survey because they were not identifiable on the photographs, and were not noted by the field inspector or the field editor.

There are shoreline changes of up to 125 meters near 48° 09.2', 123° 07.5' to 123° 07.95' (see page 23); 48° 09.1', 123° 08.5' (page 23); and 48° 08.8', 123° 11' (page 22). There are also changes apparent on Dungeness Spit (pages 21 thru 23).

This survey supersedes the previously registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. quad DUNGENESS, WASH.; 1:24,000, Field Check 1956.

The quadrangle differences with this survey are shown in brown on the comparison Print.

The largest differences are in the shoreline near 48° 09.14', 123° 08.5', and 48° 09.2, 123° 08' (page 23).

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Smooth Sheet H-8929; 1:10,000; May 1967

This survey was the source of the shoreline for H-8929. The hydrographic survey shows some offshore details not on T-13097; they are shown in green on the Comparison Print.

H-8929 shows a "log" near 48° 10.33, 123° 08' (page 21); a rock (3) near 48° 08.9', 123° 10.2 and "scattered submerged piling" near 48° 09.1', 123° 10.6 (page 22). None of these appear on this survey because they are not identifiable on the photographs, and were notenoted by either the field inspector or the field editor.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 6382; 1:80,000; 9th Edition - October 14, 1968.

The chart differences with this survey are shown in red on the Comparison Print.

The "danger area" enclosed near 48° 09', 123° 10.7' (page 22) on the chart is obviously the same area noted as "piling remains" in paragraph 2 of Item 62; and paragraph 2 of Item 64 as "scattered submerged piling".

The scale difference between the chart and this survey makes possible only a generalized comparison of the shoreline; and may exaggerate the difference in the placement of the geographic names, "Old Town" and "Dungeness" (page 23).

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with the job instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Submitted by:

M. M. Slavney

M. M. Slavney

Approved by:

Allen L. Powell

Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Approved by:

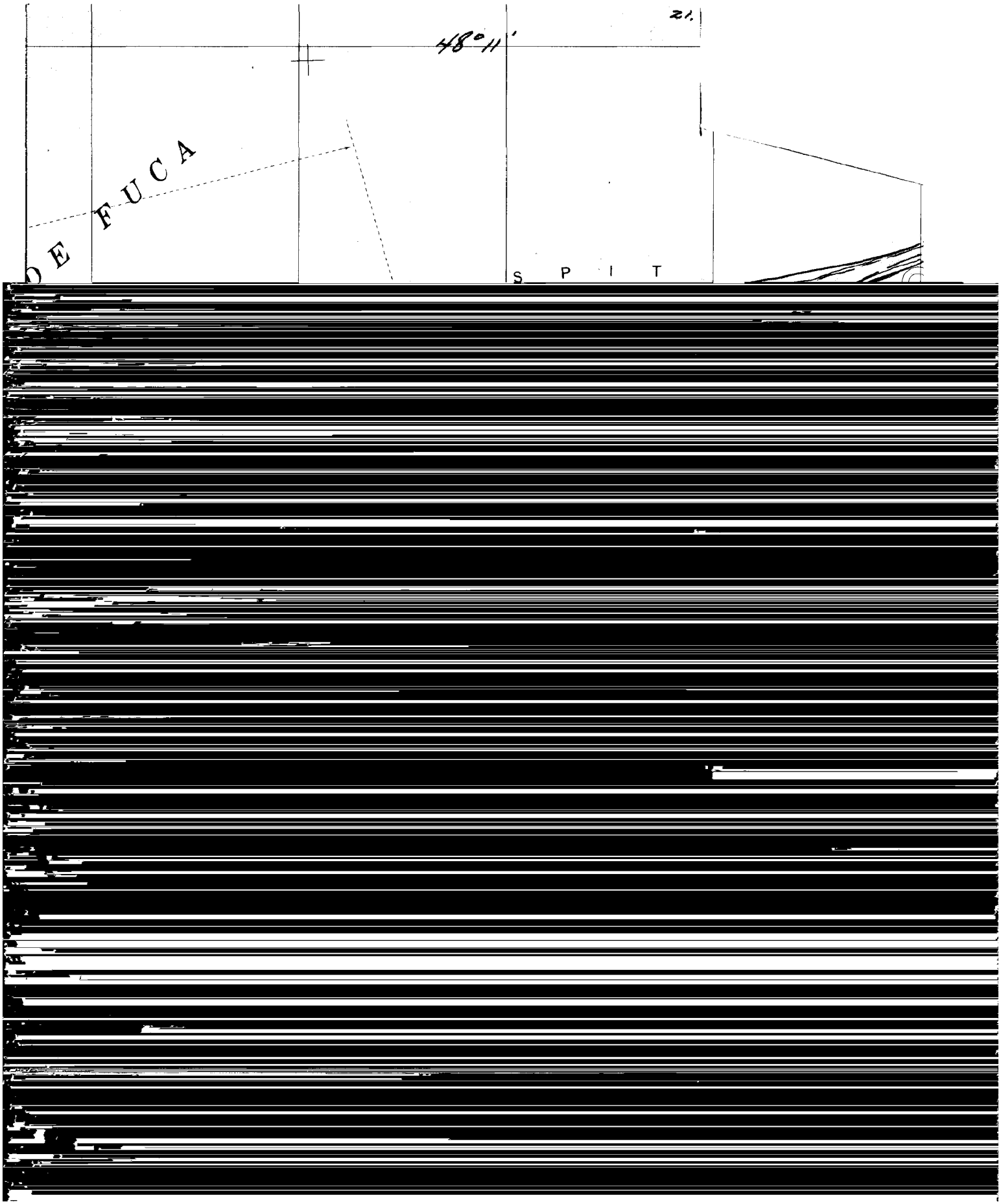
Chief, ~~Cartographic~~ Photogrammetric Branch

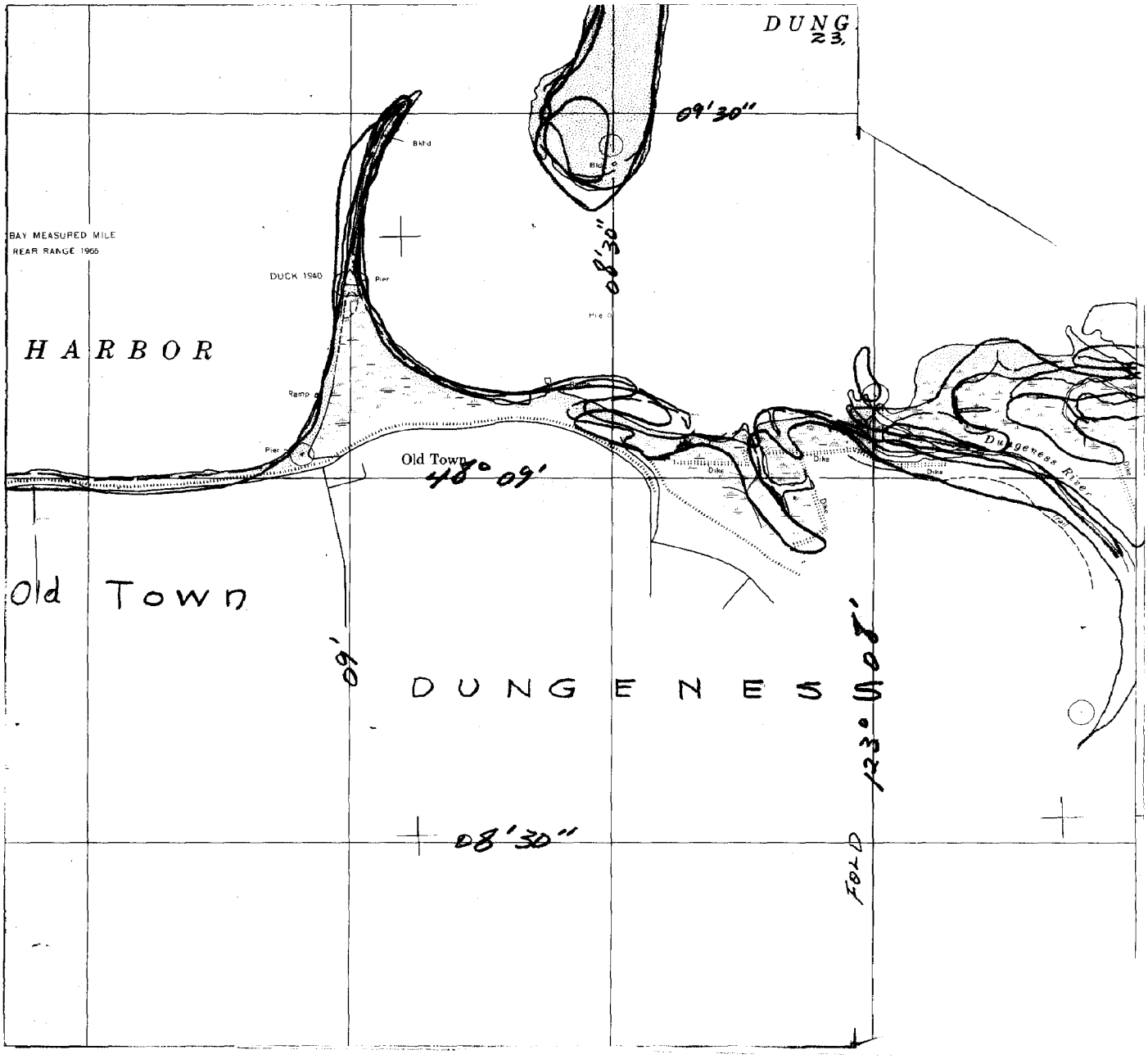
R H Houtster

Chief, Photogrammetry Division

~~Chief, Chart Division~~

~~Chief, Operations Division~~


48°11'
21.
DE FUCA
SPIT


DUNG
23,
09'30"
08'30"
BAY MEASURED MILE
REAR RANGE 1966
DUCK 1940
Pier
HARBOR
Ramp
Pier
Old Town
48° 09'
Dungeness River
Dike
Old Town
09'
DUNGENES
123° 08'
08'30"
FOUL

NOTES TO VERIFIER
T-13097, Job PH-6706
SMOOTH SHEET No. H-8929 (HO-10-2-67)

Please note Items 64 and 65 in the Final Review portion of the Descriptive Report for T-13097.