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<td><strong>Locality</strong></td>
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<td>NEW DUNGENESS HARBOR</td>
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<td><strong>1966-67</strong></td>
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<td><strong>CHIEF OF PARTY</strong></td>
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<tr>
<td>John O. Boyer, CDR, Pacific Marine Center</td>
</tr>
<tr>
<td>Allen L. Powell, RADM, Atlantic Marine Center</td>
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**LIBRARY & ARCHIVES**

**DATE**
DESCRIPTIVE REPORT - DATA RECORD

T - 13097

PROJECT NO. (III):
PH-6706

FIELD OFFICE (III): CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center

OFFICER-IN-CHARGE
J. Bull, RADM
Director, Atlantic Marine Center

INSTRUCTIONS DATED (III) (IV):
OFFICE (Aerotriangulation) November 18, 1966
OFFICE (Compilation) January 18, 1967

METHOD OF COMPILATION (III):
Kelsh Plotter

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
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):

GEODETIC DATUM (III): VERTICAL DATUM (III):
N. A. 1927 NAV

REFERENCE STATION (III):
EVELYN, 1962

LAT.: 48° 08' 10.3012" (318.2)

LONG.: 123° 09' 37.9002" (783.6)

ADJUSTED

PLANE COORDINATES (IV):

STATE Washington

ZONE North

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAEMETRIC 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 (III):

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

STEREOSCOPIC CONTROL EXTENSION BY (III):

Robert B. Kelly

DATE
Jan. 9, 1967

STEREOSCOPIC INSTRUMENT COMPILATION (III):

Kelsh Plotter

PLANIMETRY
L. Neterer

DATE
Feb. 2, 1967

Reviewed by: A. Shands

DATE
Feb. 2, 1967

CONTOURS

Inapplicable

MANUSCRIPT DELINEATED BY (III):

L. L. Graves

DATE
Feb. 18, 1967

SCRIBING BY (III):

F. P. Margiotta

DATE
April 25, 1968

PHOTOGRAHMETRIC OFFICE REVIEW BY (III):

COMPILATION: C.H. Bishop

DATE
Feb. 19, 1967

FIELD EDIT: R.L. Pate

DATE
Feb. 2, 1968

SCRIBING & STICK UP: R.E. Smith

DATE
June 3, 1968

REMARKS:

FIELD EDIT BY: W.F. Forster, II

DATE
June, 1967

August 23, 1967
DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):
Wild RC-8 152.29 mm (5)

PHOTOGRAPHS (III)

| NUMBER   | DATE       | TIME   | SCALE  | STAGE OF TIDE*
|----------|------------|--------|--------|----------------
| 66-S(c) 3239A | July 26, 1966 | 12:13  | 1:20,000 | 5.7 above MLLW
| thru 3240A   | "          | 12:26  | "      | "              
| 66-S(c) 3215A | "          | 12:43  | 1:30,000 | "              
| thru 3241A   | "          | 14:35  | "      | 5.2' above MLLW
| 66-S(c) 3255A | "          | "      | "      | "              
| thru 3252A   | "          | "      | "      | "              
| 66-S(c) 3292A | "          | "      | "      | "              
| thru 3293A   | "          | "      | "      | "              

* Predicted TIDE (III)

REFERENCE STATION: PORT TOWNSEND, WASHINGTON
SUBORDINATE STATION: DUNGENESS, WASHINGTON

Atlantic Marine Center
WASHINGTON OFFICE REVIEW BY (IV):

PROOF EDIT BY (IV):

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):
8** RECOVERED: 8** IDENTIFIED: 8**

NUMBER OF BM(5) SEARCHED FOR (II):

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):
6

REMARKS:
*Established during October-November 1966 field inspection.
** One station, "MC DON," falls about 2 miles west of F-13097 and this job.

DATE: March, 1969
<table>
<thead>
<tr>
<th>ADVANCE MANUSCRIPT</th>
<th>COMPLETION DATE</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>Alongshore area for hydrography</td>
<td>February 1967</td>
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<td>Field Edit applied</td>
<td>September 1967</td>
<td>Superseded</td>
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<td>Compilation Complete</td>
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<tr>
<td>Final Review</td>
<td>March 1969</td>
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JOB PH-6706

WASHINGTON

Dungeness Bay

Shoreline Mapping

Scale 1:10,000

OFFICIAL MILEAGE

For Cost Accounts——

<table>
<thead>
<tr>
<th>Sheet Numbers</th>
<th>Area Sq. M.</th>
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<tr>
<td>T-13097</td>
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<td>T-13098</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7</strong></td>
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**6382**

**6401**

**Note:** As possible
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 dia positives of the 1:30,000 scale photographs. Compilation was done with the Kelsh Plotter. Ratio black and white cronapque 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 Sur-
vey 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 inter-
section 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 - Northwest gable, white building with red roof
- 9704 - Northwest corner, pier
- 9705 - Lone, outbuilding
- 9706 - Box on lone pile
- 9801 - Southeast gable, large barn unpainted shed
- 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,
Robert B. Melby
Survey Technician, C&GS
Photo Field Unit
Pacific Marine Center
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. The C-8 was used for the instrumentation of 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. A 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**

Adequate as to coverage, overlap and definition.

Submitted by:

[Signature]

Robert B. Kelly

Approved by:

[Signature]

John D. Perrow, Jr.
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 Quadrangle dated 1956, scale 1:24,000.

Only changes of minor significance were apparent.

47. **COMPARISON WITH NAUTICAL CHARTS**

A comparison was made with U.S.C.&G.S. Chart No. 6401, dated June 28, 1965, scale 1:150,000. This scale did not permit a reasonable comparison.
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
A. J. Wraight
Chief Geographer

Prepared by: Frank W. Pickett
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
### PHOTOMGRAMMETRIC OFFICE REVIEW

**T-13097**

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<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
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**CONTROL STATIONS**

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<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
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**BENCH MARKS**

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<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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**ALONGSHORE AREAS (Nautical Chart Data)**

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<th>14. ROCKS, SHOALS, ETC.</th>
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**AIDS TO NAVIGATION**

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<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
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**PHYSICAL FEATURES**

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**STEREOSCOPIC INSTRUMENT CONTOURS**

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<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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**CULTURAL FEATURES**

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**MISCELLANEOUS**

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<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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**REVIEWER**

| Charles McPherson | C. H. Bishop 2/19/67 | Supervisor, Review Section or Unit: Albert C. Rauck, Jr. |

**REMARKS (See attached sheet)**

**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 under item 43.

**COMPILED**

| L.L. Graves 2/1/68 | Supervisor: Albert C. Rauck, Jr. |

**REVIEWED BY**

| R. J. Pate 2/2/68 | A. C. Rauck, Jr. |

**REMARKS**

- FIELD EDIT applied from Field edit ozalid T-13097
Memorandum

TO: Chief, Photogrammetry Division  
FROM: Commanding Officer, USC&GS Ship HODGSON

DATE: August 23, 1967

In reply refer to:

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-grammetric 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 verification 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

BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN
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 1/67
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Dungeness Bay
Measured Nautical Mile Course

Sequim Washington
November 2, 1966

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

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

Robert B. Malby
Chief of Party

<table>
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<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDES</th>
<th>LONGITUDES</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
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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.
61. **GENERAL STATEMENT**

See Summary, page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 2/ 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 not noted by either the field inspector or the field editor.

65. COMPARISON WITH NAUTICAL CHARTS


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

Approved by:

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

Chief, Cartographic Branch

Chief, Chart Division

Chief, Photogrammetry Division

Chief, Operations Division
NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."
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.