NOAA FORM 76-35
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>SHORELINE</th>
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<tbody>
<tr>
<td>Job No.</td>
<td>PH-6211</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-12261</td>
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<tr>
<td>Classification No.</td>
<td>Final</td>
</tr>
<tr>
<td>Edition No.</td>
<td>1</td>
</tr>
<tr>
<td>Field Edited</td>
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LOCALITY

State .......... Washington
General Locality .......... Hond. Canal
Locality .......... Warrentville

1962 TO 1969

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-778
MAP NOT INSPECTED BY
Quality Control of Photogrammetry Division
Prior to Registration
### Descriptive Report - Data Record

**Photogrammetric Office**
Rockville, Md  
*Officer-in-Charge*
V. Ralph Sobieralski

#### I. Instructions Dated

**1. Office**
- Original, June 15, 1967  
- Amendment No. 1, Nov. 22, 1965  
- Amendment No. 2, Feb. 16, 1966  
- Amendment No. 3, July 1, 1966  
- Amendment No. 4, April 5, 1967

**2. Field**
- Field, Feb. 5, 1963  
- Field Supplemental, Feb. 23, 1967

#### II. Datums

**1. Horizontal:**  
- 1927 North American

**2. Vertical:**  
- Mean High Water

**3. Map Projection:**  
- Polyconic

**4. Grid(s):**
- State: Washington  
- Zone: North

**5. Scale:**  
- 1:10,000

#### III. History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
<th>Name</th>
<th>Date</th>
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</table>
| 1. Aerotriangulation | Stereoplanigraph & analytic | J. Gerlach  
by J. Perrow | 5/1/67 |
| 2. Control and Bridge Points  
Method: Plotted by Checked by | J. Phillips  
M.C. Webber | 4/11/67 |
| 3. Stereoscopic Instrument Compilation  
Instrument: B-8 stereoplotter  
Scale: 1:30,000 | Planimetry by Checked by | M.C. Webber  
K.N. Maki | April 1967 |
| 4. Manuscript Delineation  
Method: Graphic worksheets, ratio prints  
Scale: 1:10,000  
Hydro Support Data by Checked by | Planimetry by Checked by | M.C. Webber  
K.N. Maki | Apr. 1967  
May 1967 |
| 5. Office Inspection Prior to Field Edit | Checked by | H.K. Lucas  
J. Battley, Jr. | Dec. 1971  
Nov. 76 |
| 6. Application of Field Edit Data | Checked by | J. Battley, Jr.  
P. Dempsey | Nov. 1976  
Mar. 1982 |
| 7. Compilation Section Review | Checked by | J. Battley, Jr.  
P. Dempsey | Nov. 1976  
Mar. 1982 |
| 9. Data Forwarded to Photogrammetric Branch | |  
10. Data Examined in Photogrammetric Branch | |  
11. Map Registered - Coastal Survey Section | |  

**Chief, Photog.S. G.P.O. 1972-769382/582 REG.#6**
1. COMPILATION PHOTOGRAPHY

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2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high water line is office interpretation of the photographs listed in item 1.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

There is no MLW line delineated on this manuscript.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS

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REMARKS
### HISTORY OF FIELD OPERATIONS

**T-12261**

1. **FIELD INSPECTION OPERATION**
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<td>R.B. Melby</td>
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<td>HORIZONTAL CONTROL</td>
<td>R.B. Melby</td>
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<td>VERTICAL CONTROL</td>
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<td>LANDMARKS AND AIDS TO NAVIGATION</td>
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4. **LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**
   - Two stations
     | PHOTO NUMBER | OBJECT NAME         | PHOTO NUMBER | OBJECT NAME         |
     |--------------|---------------------|--------------|---------------------|
     | 65L5646      | Oak Head Light, 1963| 65L5646      | Lone Rock, 1878     |

5. **GEOGRAPHIC NAMES:**
   - REPORT: NONE

6. **BOUNDARY AND LIMITS:**
   - REPORT: NONE

7. **SUPPLEMENTAL MAPS AND PLANS:**
   - None

8. **OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division):**
   - None
HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION  ☑ FIELD EDIT OPERATION.

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II. SOURCE DATA

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2. VERTICAL CONTROL IDENTIFIED

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<th>OBJECT NAME</th>
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3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

5. GEOGRAPHIC NAMES: ☐ REPORT  ☑ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT  ☑ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None
## Record of Survey Use

### I. Manuscript Copies

<table>
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<th>Data Collected</th>
<th>Compilation Stages</th>
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### II. Landmarks and Aids to Navigation

#### 1. Reports to Marine Chart Division, Nautical Data Branch

<table>
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<th>Number</th>
<th>Chart Letter</th>
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#### 2. Report to Marine Chart Division, Coast Pilot Branch. Date Forwarded: [Blank]

#### 3. Report to Aeronautical Chart Division, Aeronautical Data Section. Date Forwarded: [Blank]

### III. Federal Records Center Data

1. Bridging Photographs; Duplicate Bridging Report; Computer Readouts.
2. Control Station Identification Cards; Form Nos. 567 Submitted by Field Parties.
3. Source Data (except for Geographic Names Report) as Listed in Section II, NOAA Form 76-36C. Account for Exceptions.

### IV. Survey Editions

<table>
<thead>
<tr>
<th>Survey Edition</th>
<th>Survey Number</th>
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<th>Type of Survey</th>
<th>Map Class</th>
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<td>Second Edition</td>
<td>TP - (2)</td>
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NOAA FORM 76-36D
PH-6211
SHORELINE MAPPING
SCALE 1:10,000
HOOD CANAL, WASH.

PHOTOGRAPHY
- 1:30,000  Date Jun 62
- 1:25,000  " Aug 65
- 1:15,000  " Jun 62
This 1:10,000 scale shoreline manuscript is one of 17 maps that comprise Project Ph-62I1, which covers an area in the Northern part of Hood Canal from Port Gamble Southward to Hood Point and includes all of Dabob Bay. All maps in this project were field edited and reviewed. The field edit was accomplished by the hydrographic field party for project OPR-412.

The initial purpose of this map was to provide support for our nautical and aeronautical charting program and provide photo-hydro support data for hydrography scheduled in the area.

A field investigation was performed prior to compilation in April to June 1963. This investigation was to establish control, in order to meet aerotriangulation requirements, and to locate all landmarks and aids previously un determined. All fixed aids to navigation not previously located by triangulation were located by triangulation or traverse at this time.

Photo coverage for compilation and aerotriangulation was flown in June 1962 with the "W" wild Aviogon camera at a scale of 1:30,000 with panchromatic film and in August 1965 with the "L" Wild camera at a scale of 1:30,000 (ratio to 1:10,000) with panchromatic film. The 1:10,000 scale ratio prints were used for field notes.

Analytical aerotriangulation was adequately provided by the Rockville office.

Compilation was performed at both the Rockville office and the Atlantic Marine Center. Five sheets (T-12248, T-12249, T-12250, T-12253 and T-12254) were compiled in the AMC office in July, August and September 1966. The other twelve sheets were compiled in the Rockville office in April, May and June 1967. The field edit was applied in the Rockville office only.

Final review for this map was performed in the Rockville office in 1962.
FIELD INSPECTION

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and indentification of the horizontal control necessary for the aerotriangulation of the project.

See attached report on panelling of control.
Horizontal Control and Identification Report  
Project Ph-6211  
Hood Canal, Washington  
April–June 1963

The following comments and remarks are pertinent to the conditions and methods utilized to perform the required photo-control in Project Ph-6211. (Reference control diagram Ph-6211, Hood Canal, Wash.)

Sheet T-12246
Station T.T. 1 RB (USGS), 1955 was identified by the substitute station method, incorporating a dog-leg traverse to one of the substitute stations.

Station LELAND, 1955 was not identified. See station LARSON, 1955 north of sheet T-12247.

Sheet T-12247
Station LARSON, 1955 was identified in lieu of station LELAND, 1955. Station SANDY SHORE, 1955 was identified by a traverse to the substitute stations. A sun azimuth was observed at both ends of the traverse to secure adequate azimuth control of the traverse of the traverse line.

Station GRASS 2, 1955 was identified by the substitute station method.

Sheet T-12248  T-12249
Station HOOD CANAL LIGHT 4, 1961 was identified direct and by the reverse, substitute station method.

Sheet T-12249
Station SET 2, 1934 was identified by a single substitute station,
Sheet T-12255

Station SYLLOPSH POINT LIGHT, 1963, was identified by the reverse substitute station method.

Sheet T-12256

Station PULALI 2, 1961 was identified direct. A suitable substitute could not be found.

Sheet T-12257

Station CURRENT 2, 1934 was identified with a single substitute station. This can serve as the second identification point in this area as HOOD CANAL LIGHT 10 1963 was identified direct. Station HAZEL POINT LIGHT, 1963 was identified direct. Nearby station OAK HEAD LIGHT, 1963 in sheet T-12261 was also identified direct to serve as the other required identified point. In the course of the location of station HAZEL POINT LIGHT, 1963, station HAZEL POINT 3, 1945 was found to be in error by about 36 feet. The azimuth of the line CHUTE 3, 1945-HAZEL POINT 3 1945 was in error by 10 minutes. A new position of HAZEL POINT 3, 1945 was determined by the field unit. Station TABOOK POINT LIGHT, 1963 was identified direct.

Sheet T-12258

Station BANGOR, 1955 was identified by a single substitute station. Nearby station BANGOR LOOKOUT TOWER, 1955 was identified direct.

Sheet T-12259

Station QUATSAP 2, 1934 was identified by the substitute station method utilizing a single closed triangle observation.

Sheet T-12260

Station BOULDER, 1878 was identified by two substitute stations.

Sheet T-12261
Station LONE ROCK, 1878 was identified by the substitute station method by a single closed triangle observation.

Sheet T-12214

No station were identified in the sheet.

None of the control identification was considered substandard.

Landmarks and aids

All landmarks and aids previously undetermined were located at this time. All fixed aids to navigation not previously located by triangulation were located by triangulation or traverse methods at this time.

Respectfully submitted

Robert B. Helby
Surveying Technician
Aerotriangulation Report
Charge No. 21053
Hood Canal, Washington

21. Area Covered

The bridging covers the area of Hood Canal, approximately 20 miles northwest of Seattle, Washington.

22. Method

Six strips were bridged on the Zeiss C-8 stereoplaniograph to provide control for compilation of shoreline (see attached sketch). Strip 2 was not bridged because the area was duplicated by Strip 1. Strip 7 was adjusted on the IBM 650 and all other strips on the IBM 1620.

23. Adequacy of Control

Control positions were adequate for bridge adjustment. However, sub stations of Pelil 2, 1961 and Computer Building (USN) 1961 were impossible to locate with any accuracy due mainly to poor imagery. Sisters Rock Light, 1963 also had a very poor image on the photographs in strip 6.

No explanation could be found for the discrepancy of Tabook Point Light, 1963 and sub-station B of Hoods Point, 1878. Sub station B of Hoods Point was within accuracy limits on Strip 3.

All other points held within accuracy requirements.

24. Supplemental Data

Common tie points were hit between adjoining bridges and were averaged. Vertical control points were taken directly from the quads and can be expected to have only the accuracy of the contours of the quad itself.

25. Photography

Photography was adequate as to coverage. The overlap was too great on Strip 1, necessitating the use of every other photograph in the bridge. Definition was poor on the strips to the west, partially because of sun reflections.

Submitted by:

John T. Gerlach

Approved by:

John D. Perrow, Jr.
PHOTOGRAFMETRIC PLOT REPORT
JOB PH-6211
HOOD CANAL, WASHINGTON
PART III

May 1, 1967

21. Area Covered

The area covered by this report is the west shore of Dabob Bay and the portion of Hood Canal at the mouth of Dabob Bay. It includes T-sheets 12246, 12251, 12255, 12256 and 12259 thru 12261.

22. Method

Two strips were bridged, one (#32, 62-W-5088 thru 5093) on the C-8 stereoplanigraph and the other (#12, 62-W-5374 thru 5401) by analytic methods. Strip #32 was adjusted on four control stations. Strip #12 was adjusted on five control stations.

23. Adequacy of Control

Control was adequate and complied with job instructions. Stations PULAT 2, 1961 and COMPUTER BUILDING (USN) 1961, subpoint "B", could not be held in the bridge due to the poor image quality of the points.

24. Supplemental Data

Local USGS quads were used to provide vertical control for the bridging process. Ratio prints were provided for compilation.

25. Photography

Photography was adequate as to coverage, overlap and definition. Strip #12 could not be bridged by stereoplanigraph methods due to film shrinkage along one edge. This problem was eliminated by using analytic methods.

Submitted by:

John D. Perrow, Jr.

Approved by:

Henry P. Eichert
## PROJECT PH-6211
### SHORELINE MAPPING
#### WASHINGTON
##### HOOD CANAL

**SCALE 1:40,000**

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31. DELINEATION

This manuscript was compiled at 1:10,000 scale on the B-8 stereoplotter using panchromatic photography. Shoreline, alongshore, and foreshore details were delineated.

Models were set holding to bridge points. Pass points were dropped along the shoreline and in the interior for hydrographic signal location. Ratio prints of August 1965 photographs were prepared for photo hydro support. Photocenters were resected on the manuscript.

32. CONTROL

Aerotriangulation furnished the horizontal control which was adequate to control models and drop pass points for compilation. (See Aerotriangulation Report.) B-8 models were leveled on shoreline points.

33. SUPPLEMENTAL DATA - None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was applied by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAIL

Delineation of the shoreline was office interpreted by using computed tide values to determine the stage of tide at the time of photography. The shallow line was delineated by office interpretation of the photographs.

36. OFFSHORE DETAIL

Shadows from overhanging trees made delineation of rocks along the shoreline difficult and sometimes impossible.

37. LANDMARKS AND AIDS

There are no landmarks located on this manuscript. One navigational aid has been located.

38. CONTROL FOR FUTURE SURVEYS - None.

39. JUNCTIONS

Junctions were made to the North with T-12257, to the East with T-1234 and to the West with T-12260. There is no contemporary survey to the South.

40-45. Inapplicable.
46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with USGS Quadrangle SEABECK, Washington, scale 1:24,000, dated 1953.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with Nautical Chart No. 6422, scale 1:25,000, 3rd edition, dated February 8, 1965, corrected to June 11, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY - None.

ITEMS TO BE CARRIED FORWARD - None.

Respectfully submitted
M. C. Webber

Approved and Forwarded by:
K.N. Maki
Chief, Compilation Section
FIELD EDIT REPORT
HOOD CANAL AND DEBOB BAY, WASHINGTON
MARCH, APRIL 1969
PROJECT 0FR-412

This report covers the area in Hood Canal from Carson Point south to Quatsap Point and the entire Debob and Quilcene Bays.

The entire shore line was inspected using a small boat. The Field Edit copies (Discrepancy Prints) of the map manuscripts were used as a guide and all corrections, except as noted below, were recorded on them.

ADEQUACY OF COMPILATION:

The extent and accuracy of the maps appear to be reasonably complete, considering the compilation was accomplished without the benefit of Field Inspection.

METHODS:

The shoreline was inspected primarily with respect to the Discrepancy Prints of the map manuscript. All items specifically noted on the prints were investigated thoroughly. All shoreline was inspected and any comments were recorded on the Discrepancy Print. Where positions were needed, sextant cuts on Hydrographic Signals were recorded. These positions were numbered and plotted on the appropriate Boat Sheet of the area. The proper sheet is stated on the individual Discrepancy Prints.

Mean High Water was established with sextant angles and references to along shore objects and Hydrographic Signals. The shore is generally a sand gravel composition with areas cluttered with medium size boulders. The Dashed Line shown on the manuscripts were generally excellently positioned to indicate areas or limits of shoal water.

There are numerous homes and summer homes along the shore. Many have private railways or small mooring buoys offshore. The positions of the larger, most dangerous items have been noted.

SHEET T-12261:

Refer to Sheet DA-10-1-69.

Area is well settled. The major change in shoreline is the slide area on the upper right. The outline is as of the time noted.
SHEET T-12260:

Refer to Sheet DA-10-2-69.

Area is well settled. Shoreline of Misery Point is Rocky and rises sharply from the beach. The area is prone to slides.

SHEET T-12259:

Refer to Sheet DA-10-2-69.

The area at the mouth of the Duckabush River is extremely shallow and sandy. The high water line appears satisfactory, but is difficult to determine.

SHEET T-12257:

Refer to Sheet DA-10-1-69.

This area is generally uninhabited. Fisherman's Harbor is accessible only at or near high tide.

SHEET T-12258:

Refer to Sheet DA-10-1-69.

This area is well inhabited. The dashed shoreline is generally very steep with trees growing to the High Water Line.

SHEET T-12256:

Refer to Sheet DA-10-1-69.

SHEET T-12255:

Refer to Sheet DA-10-1-69.

The area is well inhabited. The Brinnon Flats area is very shallow. The High Water Line is as good as can be expected, considering the sand shoreline and the river mouth.

SHEET T-12252:

Refer to Sheet DA-10-3-69.

SHEET T-12251:

Refer to Sheet DA-10-3-69.

There are numerous buoys owned and maintained by the Navy off of the southern end of Bolton Peninsula. These are positioned on DA-10-3-69.
Sheet T-12246:

Refer to Sheet DA-10-3-69, Photo 62115383, and Sketch Book.

The north end of Guilcene Bay is very shallow with miscellaneous piles, etc. Filings, bulkheads, etc. near East Guilcene have been photo identified on Photo 62115383.

Sheet T-12247:

Refer to Sheet DA-10-1-69 and DA-10-2-69.

Sheet T-12247:

Refer to Sheet DA-10-3-69.

Tarboo Bay is dry, except for a shallow stream, and inaccessible at low water.

Respectfully Submitted,

[Signature]

Kanezo A. Domoto
LT, USESA
Operations Officer
USCG&SS DAVIDSON

Approved & Forwarded:

[Signature]

Ray E. Moses
CDR, USESA
Comdg. Officer
USCG&SS DAVIDSON
61. GENERAL STATEMENT

No accurate evaluation of the sketch shown on the discrepancy print for a change in the MHWL at approximately 47°39'55" latitude and 122°45'30" longitude could be determined. The angles given at the compiled shoreline were checked and agreed with the change made on the registered hydrographic survey (H-9036). It is a slide area, therefore the MHWL was compiled as approximate and labeled.

Three rocks were delineated just East of the slide area. They were not investigated during field edit and were carried forward on H-9036.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS - Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES - Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with Hydrographic Survey H-9036 and it is in agreement with T-12261.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Nautical Chart 18458, scale 1:25,000, 10th edition, dated August 15, 1981. No significant changes 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:
PATRICK DEMPSEY
Final Reviewer

Approved:

CHIEF, PHOTOGRAMMETRY BRANCH
CHIEF, PHOTOGRAMMETRY DIVISION
GEOGRAPHIC NAMES

FINAL NAME SHEET.

PH-6211 (Hood Canal, Wash.)
T-12261

Anderson Creek
Big Beef Creek
Big Beef Harbor
Hood Canal
Little Beef Creek
Lone Rock
Oak Head—p.p.
Warrenville

Approved by:  
A. J. Wraight  
Chief Geographer

Prepared by:  
Frank W. Pickett  
Cartographic Technician
Project PH-6211 Material on File
Hood Canal, Washington

Federal Records Center
Control Station Identification Cards
Field Edit Photographs
Computer Readouts
Field Edit Photographs
Field Edit Ozalids (Discrepancy Prints) for each map
Project Completion Report

Bureau Archives
Registered Copy of each map
Descriptive Report of each map

Reproduction Division
8x Reduction Negative of each map

Office of Staff Geographer
Geographer Names Standard
### NONFLOATING AIDS OR LANDMARKS FOR CHARTS

The following objects **HAVE** been inspected from seaward to determine their value as landmarks.

**Opr Project No.:** PH-6211  **Survey Number:** T-12261  **Datum:** N.A. 1927

<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Office</th>
<th>Field</th>
<th>Charts Affected</th>
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</thead>
<tbody>
<tr>
<td>LIGHT</td>
<td>Oak Head Light 1963</td>
<td>47°40'</td>
<td>55.101</td>
<td>Triang. Rec.</td>
<td>April 1963</td>
<td>6422</td>
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</table>
By photogrammetric methods, field positions are determined by field observer

**PHOTOGRAFMETRIC FIELD POSITIONS ARE DEPENDENT UPON ELEVATION METHODS.**

**PHOTOGRAFMETRIC FIELD POSITIONS ARE DEPENDENT UPON ELEVATION METHODS.**

111. Position Verified Visually On Photographic

- Trilateration
- Horizontal
- Located
- Field

Example: 74L(c)2925

8-12-75

11. Triangulation Station Recovered

Example: P-8-V L

4 - Resection
1 - Intersection
6 - Traverse
5 - Field Identified

When a landmark or a point which is also a tri-

1. New position determined or verified

Field Foundation Information No. 4

Office

Field Activity Representative

Other (Specify)

Geodetic Party

Hydrographic Party

Photo Field Party

Type of Action

NAME

Position determined and verified

Activities and Review Group and Final Review

Forms originated by Quality Control

Positions determined and verified

Objects inspected from seaward

Responsibility Personnel
INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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