Form 804
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Planimetric (Photogrammetric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-155</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-10359</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LOCALITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
</tr>
<tr>
<td>General locality</td>
</tr>
<tr>
<td>Locality</td>
</tr>
</tbody>
</table>

V. Ralph Sobieralski, Chief of Party
Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES
DATE: MAY 1962

USCOM-W-DC 5087
DESCRIPTIVE REPORT - DATA RECORD

T - 10359

Project No. (II): Ph-155  Quadrangle Name (IV):

Field Office (II): Astoria, Oregon  Chief of Party: V. Ralph Sobiersalski
Photogrammetric Office (III): Portland, Oregon  Unit Chief: W. P. James

Officer-in-Charge: Lorne G. Taylor  Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III):  1:10,000  Stereoscopic Plotting Instrument Scale (III):  1:5000
Scale Factor (III):
Pantograph Scale:  1:10,000

Date received in Washington Office (IV):
Applied to Chart No.  Date:  Date reported to Nautical Chart Branch (IV):

Publication Scale (IV):
Publication date (IV):

Geographic Datum (III): N.A. 1927  Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): GALENA (ASTOR) RM 2, 1958

Lat.: 46° 08' 59.2908"  Long.: 123° 57' 16.7875"  Adjusted X
Unadjusted

Plane Coordinates (IV):
State: Oregon  Zone: North

Y = 924,044.93  X = 1,124,593.83

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. P. James & C. H. Bishop  Date: Sept. 1957

Planetable contouring by (II):  Date:

Completion Surveys by (II):  Supplementary landmarks located  Date: 1958

Mean High Water Location (III) (State date and method of location): Sept. 1957 by field inspection and compilation by Kelah Instrument.

Projection and Grids ruled by (IV): J. B. Phillips  Date: 8-30-57

Projection and Grids checked by (IV): J. B. Phillips  Date: 8-30-57

Control plotted by (III): D. N. Williams  Date: 11-22-57

Control checked by (III): L. L. Graves  Date: 11-22-57

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr.  Date: 10-28-57

Stereoscopic Instrument compilation (III): Planimetry L. L. Graves, shoreline Date: 1-6-58

D. N. Williams, Interior  Date: 10-13-58

Contours

Manuscript delineated by (III): L. L. Graves, Scribing  Date: 3-10-60

C. C. Harris, Stick-up  Date: 7-1-60

Photogrammetric Office Review by (III): J. E. Deal  Date: 8-30-60

Elevations on Manuscript checked by (II) (III):  Date:

com- pc- 57842
### Descriptive Report - Data Record

**Photographs (III)**

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>55-W-8596</td>
<td>6-6-55</td>
<td>11:05</td>
<td>1:10,000 ratio</td>
<td>3.2' above M.L.W.</td>
</tr>
<tr>
<td>55-W-8600 &amp; 9781</td>
<td>6-6-55</td>
<td>11:05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55-W-9782 &amp; 9785</td>
<td>9-24-55</td>
<td>11:50</td>
<td>1:25,000 contact</td>
<td>3.0'</td>
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<tr>
<td>57-L-1819 thru 1821</td>
<td>8-18-57</td>
<td>14:45</td>
<td>1:10,000 ratio</td>
<td>5.5'</td>
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</table>

**Tide (III)**

<table>
<thead>
<tr>
<th>Ratio of Mean Spring Ranges</th>
<th>6.5</th>
<th>8.2</th>
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<tbody>
<tr>
<td>Reference Station:</td>
<td>Astoria, Oregon</td>
<td></td>
</tr>
<tr>
<td>Subordinate Station:</td>
<td>Entrance North Jetty</td>
<td></td>
</tr>
</tbody>
</table>

Washington Office Review by (IV): [Signature]

Date: 2/23/62

Final Drafting by (IV): [Signature]

Drafting verified for reproduction by (IV): [Signature]

Proof Edit by (IV): [Signature]

Date: [Signature]

**Land Area (Sq. Statute Miles) (III):** 6

**Shoreline (More than 200 meters to opposite shore) (III):** 5

**Shoreline (Less than 200 meters to opposite shore) (III):** None

**Control Leveling - Miles (II):**

**Number of Triangulation Stations searched for (II):** 4

**Recovered:** 2

**Identified:** 2

**Number of BMs searched for (II):** None

**Number of Recoverable Photo Stations established (II):** 2

**Number of Temporary Photo Hydro Stations established (III):** None

Remarks:
FIELD INSPECTION REPORT

Map Manuscript T-10359

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth of Columbia River to Altoona, July to November 1957.
PHOTOGAMMETRIC PLOT REPORT

Map Manuscript T-10359

Project Ph-155

Refer to the Stereoplanigraph Bridge Reports for Strips #1 and #2 which are included in the Descriptive Report for T-10353 1957.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td>FORWARD (BACK)</td>
<td>FORWARD (BACK)</td>
<td>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
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<tr>
<td>Galena (Astor)</td>
<td>Field Comp. 1927</td>
<td>924.044.96</td>
<td>4044.96 (955.04)</td>
<td>1232.9 (291.1)</td>
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<tr>
<td>RM 2, 1958</td>
<td></td>
<td>1124.593.80</td>
<td>4593.80 (406.20)</td>
<td>1400.2 (123.8)</td>
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<tr>
<td>D0</td>
<td></td>
<td>924.071.14</td>
<td>4071.14 (928.86)</td>
<td>1240.9 (283.1)</td>
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<tr>
<td>Sub Station</td>
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<td>1124.582.78</td>
<td>4582.78 (417.22)</td>
<td>1396.8 (127.2)</td>
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<tr>
<td>Mt. 1958</td>
<td></td>
<td>46 11 02.641</td>
<td></td>
<td>81.5 (1771.1)</td>
<td></td>
</tr>
<tr>
<td>D0</td>
<td></td>
<td>123 58 09.662</td>
<td></td>
<td>207.2 (1079.6)</td>
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<tr>
<td>Sub Station</td>
<td></td>
<td>123 58</td>
<td></td>
<td>72.3 (1780.3)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>208.3 (1078.5)</td>
<td></td>
</tr>
</tbody>
</table>
COMPILATION REPORT
Map Manuscript T-10359
Project Ph-155

31. Delineation:
The Kelah Instrument was used for the compilation of planimetry.

32. Control:
Horizontal control was adequate.

33. Supplemental Data:
1. Exhibit #87, Fort Stevens Park, Scale 1\" = 800',
   Oregon State Highway Department.
2. Hammond, Map, Scale unknown
3. Fort Stevens Addition, Paper Tracing 1\" = 200'
4. City of Warrenton, Map 1\" = 1000' approx.
5. Part of Fort Stevens - Hammond Boundary, Paper
   Tracing 1\" = 200'.
6. Exception to Map of Fort Stevens, Portland District
   C. of E. Scale 1\" = 50'.
7. Ft. Stevens Management Area, 4\" = 1 Mile.
8. Real Estate, Columbia River at the Mouth,
   (Fort Stevens) Scale 1\" = 300'.
9. 6 Blueprints, Scale 1\" = 400' and 1\" = 200', sections
   4, 9, 29, 32 and 33 of T-7N, R-10-W and T-8N, R-10-W.

34. Contours and Drainage:
Contours are not applicable.

Most of the drainage was field inspected. Any drainage not
field inspected was interpreted in the compilation office assisted
by reference to the Warrenton, Oreg. - Wash. 7½ minute U.S.G.S.
quadangle.
35. **Shoreline and Alongshore Details:**

The shoreline was adequately field inspected.

Foreshore areas visible on the photographs were compiled.

None of the photographs were taken at or near M.L.L.W. and no approximate low-water lines were compiled.

36. **Offshore Details:**

The "Peter Iredale" wreck, which is a landmark in the area, is shown just offshore from the M.H.W. line. There are no other offshore features visible on the photographs.

37. **Landmarks and Aids:**

Forms 567 are submitted for two landmarks.

38. **Control for Future Surveys:**

Forms 524 are submitted for two monumented recoverable topographic stations. They are listed under Item 49, Notes to the Hydrographer.

39. **Junctions:**

Satisfactory junctions were made to the north with T-10353, to the east with T-10360 and to the south with T-10650. The Pacific Ocean is to the west.

40. **Horizontal and Vertical Accuracy:**

Vertical accuracy is not applicable. There are no areas believed to be of sub-normal horizontal accuracy.

46. **Comparison with Existing Maps:**

Comparison was made with U.S.G.S. 7½ minute Warrenton, Oreg.-Wash. quadrangle, Scale 1:24,000, published in 1953.
47. Comparison with Nautical Charts:


Items to be Applied to Nautical Charts Immediately:

None.

Items to be Carried Forward:

None.

Approved:   Respectfully submitted:

Fred Natella, CAPT, C&GS   J. Edward Deal
Portland District Officer for
Lorne G. Taylor, CDR, C&GS   Cartographer
49. Notes to the Hydrographer:

Two recoverable topographic stations were located by Kelsh Instrument and the sub station method. They are:

DUNE, 1957
JEEP, 1957

The station BEACH ROAD (USE) 1935 is considered to be of less than 3rd order accuracy and has been shown as a recoverable topographic station.

GALENA (ASTOR R.M. 2) 1942 was recovered and identified by sub station method.
PHOTOGRAMMETRIC MAP REVIEW

1. Projection and grid  
2. Title  
3. Manuscript numbers  
4. Manuscript size  

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  
6. Recensurable horizontal stations of less than third-order accuracy (topographic stations)  
7. Photo hydro stations  
8. Bench marks  
9. Plotting of contour lines  
10. Photogrammetric plot report  
11. Detail points  

ALONGSHORE AREAS
(Nautical Chart Date)  
12. Shoreline  
13. Low-water level  
14. Rocks, shoals, etc.  
15. Bridges  
16. Artesian wells  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features  

PHYSICAL FEATURES  
20. Water features  
21. Natural groundcover  
22. Plantable contours  
23. Stereoscopic instrument mounts  
24. Contours in general  
25. Spot elevations  
26. Other physical features  

CULTURAL FEATURES  
27. Roads  
28. Buildings  
29. Railroads  
30. Other cultural features  

BOUNDARIES  
31. Boundary lines  
32. Public land lines  

MISCELLANEOUS  
33. Geographic names  
34. Boundaries  
35. Legibility of the manuscript  
36. Descriptive survey  
37. Descriptive Report  
38. Field inspection photographs  
39. Maps  

40. 

41. Remarks (and attached sheets)  

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. 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. 

Supervisor  

43. Remarks  

Supervisor  

[Signatures]
**MONITORING LANDMARKS FOR CHARTS**

Portland, Oregon 17 Aug. 1961

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 J. E. Deal

<table>
<thead>
<tr>
<th>STATE</th>
<th>OREGON</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>DAYMARK</td>
<td>Large Daymark on Triangulation Sta. WALENA N.E. 2 (1942) 1956 Ht. = 21' (93&quot;)</td>
</tr>
<tr>
<td></td>
<td>Charted 1958, CHARTS AFFECTED: X 6151</td>
</tr>
<tr>
<td>DAYMARK</td>
<td>Large Daymark on Triangulation Sta. WISE, 1956 Ht. = 25' (106&quot;)</td>
</tr>
<tr>
<td></td>
<td>Latitude: 46° 11' 02.66&quot; N, Longitude: 123° 58' 09.86&quot; W, Datum: M.A. Triangulation 1958</td>
</tr>
<tr>
<td></td>
<td>Charted 1958, CHARTS AFFECTED: X</td>
</tr>
</tbody>
</table>

Note: Inquiry was made at the Portland District, C. of S. on 8-17-61 and the daymarks are in position and in good condition.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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.
48. Geographic Names:

Abbot Lake
Burke Lake
Camp Clatsop Military Reservation
Cemetery Lake
Clear Lake
Coffenbury Lake
Crabapple Lake
Creep and Crawl Lake
Fort Stevens State Park
Kyle Lake
Leinenweber Lake
Long Lake
*Neacoxie Creek
Wild Ace Lake

* B.G.N. Decision

Geographic Names Section
25 January 1963
62. **Comparison with Registered Topographic Surveys**

<table>
<thead>
<tr>
<th>Map No.</th>
<th>Scale</th>
<th>Year</th>
<th>Map No.</th>
<th>Scale</th>
<th>Year</th>
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<tr>
<td>317</td>
<td>1:22,962</td>
<td>1850-51</td>
<td>1806</td>
<td>1:10,000</td>
<td>1887</td>
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<td>1112</td>
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<td>1868</td>
<td>4226</td>
<td>1:20,000</td>
<td>1926</td>
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<tr>
<td>1123</td>
<td>&quot;</td>
<td>1868</td>
<td>4250</td>
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<td>1869</td>
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<td>1870</td>
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<td>1870</td>
<td>6521b</td>
<td>&quot;</td>
<td>1936</td>
</tr>
</tbody>
</table>

The manuscripts covered by this review report supersede the surveys listed above for purposes of nautical chart construction.

63. **Comparison with Maps of Other Agencies**

Comparison was made with the latest existing maps during the photogrammetric review. Each report lists under "Comparison with Maps, etc." the quadrangles that were used.

64. **Comparison with Contemporary Hydrographic Surveys**

Where applicable, each map was compared with the latest hydrographic survey. All available hydrographic surveys are unverified. Discrepancies are listed under the heading of each map. If the map is not listed, no discrepancies exist during review.

**T-10352** - The submerged rocks shown on the manuscript which appear to once have been part of the jetty were compiled in the photogrammetric office from a U.S. Engineer Survey dated 1956. This feature was not developed by hydro on sheets H-8421 through H-8423. See the Descriptive Report for this survey for details.

**T-10354** - A pile is shown on the manuscript above MHW whereas hydro shows this pile submerged at latitude 46°14'37" and longitude 123°55'16". The pile was field inspected.

**T-10356** - A rock is shown on the manuscript as awash MHW and on hydro sheet H-8420 as (A) with a position difference of approximately 5 meters. The rock is located at latitude 46°12'45" and longitude 123°45'18". The height of the rock was given by the field inspector.
T-10357 - Piles and/or shags shown on Chart 6151 in the vicinity of latitude 46°13'30" and longitude 123°42'30" and latitude 46°12'30" and longitude 123°42'30" are not shown on the unverified smooth sheet. They are too far offshore for photogrammetric location.

65. Comparison with Nautical Charts

Comparison was made with Charts 6151 and 6152, 34 Edition October 10, 1960 corrected June 26, 1961. Nautical Charts did not use these surveys for the construction of the new edition. Many minor changes in offshore features and planimetric detail were noted. Only dangers to navigation or significant changes in detail have been noted for each sheet.

T-10354 - Some differences were noted in; shoreline features in the vicinity of Raymond at latitude 46°11'30", longitude 123°56'00". The pile area in the vicinity of latitude 46°12'30", longitude 123°52'30" is incomplete. It is a shoal area and of no danger to navigation.

T-10361 - A difference exists in the position of a shag at latitude 46°11'03" and longitude 123°51'46" in Young's Bay. Landmark "Drum" should be deleted from Chart as recommended on Form 567.

66. Adequacy of Results and Future Surveys

These maps comply with instructions and meet National Standards of Map Accuracy.

Respectfully submitted:

A. K. Heywood

A. K. Heywood

Approved:

L. Leude
Chief, Review and Edit Sect.

M. L. Vassar
Chief, Div. of Nautical Charts

J. W. Whalley
Chief, Div. of Photogrammetry

M. E. M. Rehfeldt
Chief, Div. of Coastal Surveys
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before</td>
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<tr>
<td></td>
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<td>After</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Verification and Review</td>
</tr>
</tbody>
</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.