DEPARTMENT OF COMMERCE
U. S. COAST AND GEEODETIC SURVEY
R. S. PATTON, Director

State: WASHINGTON

DESCRIPTIVE REPORT

Topographic Sheet No. "A"

Hydrographic

LOCALITY

Cove
APPLES POINT

TO
MEADOW POINT
FUGET SOUND

1934

CHIEF OF PARTY
JACK SENIOR
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter ...."A"
REGISTER NO. 6259

State........................................Washington

General locality.............................Puget Sound

Locality....................................Between Apple Cove Pt., to Meadow Pt. 

Scale......1:20,000.....Date of survey.....June 6 to 22,.....1934

Vessel........................................U.S.C. & G.S.S. EXPLORER

Chief of Party........Jack Senior

Surveyed by..................W. F. Malnate

Inked by......................W. F. Malnate. - H. H. Hardy

Heights in feet above........M.H.W. to ground........irregular

Contour Approximate contour Form line interval......feet

Instructions dated........March 22.........................1934.

Remarks:........................................................................

N. E. Q. CO.-PRINTING OFFICE 1934
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "A"

APPLECOVE POINT TO MEADOW POINT

PUGET SOUND

WASHINGTON

- 0 -

JACK SENIOR, CHIEF OF PARTY

SEASON OF 1934
INSTRUCTIONS: The survey was made in accordance with the Director's Instructions for Project No. HT - 171, dated March 29, 1934.

LIMITS: The east shore of Puget Sound between Edwards Point at Latitude 47° 48.4' N. to Meadow Point, Latitude 47° 41.7' N. and the west shore between Apple Cove Point at Latitude 47° 49.0' N. and Jefferson Point, Latitude 47° 44.7' N.

Junctions are made with topographic sheet "B - 1934" at triangulation station "THOMAS - 1931" at Latitude 47° 44.63' N., Longitude 122° 29.0' W. and with topographic sheet "C - 1934" at triangulation station "MEADOW - 1933" at Latitude 47° 41.65' N., Longitude 122° 24.27' W.

METHODS: The standard survey methods outlined in the Topographic Manual, Special Publication No. 144, were used throughout.

CONTROL: Control was furnished by a first order scheme of triangulation established in 1921 and a supplemental second order scheme established in 1934.

TRaverse Closures: There were no closing errors of traverse.

MAGNETIC OBSERVATIONS: Observations with a magnetic declinatoire were made at triangulation stations "EDWARDS - 1921" and "JEFFERSON - 1921".
CONTOURS: It was impossible to obtain elevations to establish sufficient control to draw the contours in this area at the time of the survey. Because of the steepness of the bluffs adjacent to the shoreline, elevations could not be measured with the alidade, and could not be determined from the opposite shore because of the prevailing hazy weather at the time. The contours are therefore omitted.

GENERAL DESCRIPTION: In general the eastern shore line is steep directly back of the highwater line having an average elevation of 100 to 150 feet. A double track railroad parallels the highwater line excepting at the points. A granite retaining wall at the high water line protects the road bed a greater part of the distance.

Prominent oil tanks are located at Edwards Point and Wells Point. Wharves extending to deep water are also located here.

About one-half mile south of Point Wells is located the small village of Richmond Beach. No wharves of any kind are in existence here.

Meadow Point is a low grassy point, with a marshy lagoon within and higher ground behind it.

The western shore is also steep along the highwater line but is distinguished by an open bight, Apple-tree Cove, in which is located the village of Kingston.

A ferry wharf is located at Kingston.

On the highland back of President Point is located a transformer station of the Puget Sound Power and Light Company connecting with a similar station on the opposite side of the sound at Richmond Beach.

Between President Point and Jefferson Point the land rises rapidly to an elevation of about 100 feet and is heavily wooded.

Westward from Jefferson Point are broken white bluffs reaching an average elevation of about 80 feet.
COMPARISON WITH EXISTING CHARTS:

Chart No. 6450:

The survey agrees well with the existing chart, excepting in man made changes.

Respectfully submitted,

[Signature]

William F. Malnate,
Jr. H. & G. E., C. & G. S.,

Approved and forwarded:

[Signature]

Jack Senior,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.
STATISTICS

Statute miles of shoreline........................................ 19.1
Statute miles of highway........................................... 0.9
Statute miles of railroads.......................................... 8.3
Area, in square statute miles..................................... 2.4
Number of hydrographic stations located....................... 111
LANDMARKS FOR CHARTS

Seattle, Washington,  
March 30, 1935

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Jack Senior, Comdg. Str. EXPLORER  
Chief of Party.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td>APPLE COVE PT. LIGHT</td>
<td>47 48</td>
<td>1653.0</td>
<td>122 28</td>
<td>1042.0</td>
<td>N.A. Plane</td>
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<td>FRONT RANGE LIGHT</td>
<td>47 47</td>
<td>143.5</td>
<td>122 23</td>
<td>819.0</td>
<td>&quot; &quot; Plane</td>
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<td>BEAR RANGE LIGHT</td>
<td>47 46</td>
<td>1616.5</td>
<td>122 23</td>
<td>593.5</td>
<td>&quot; &quot; Plane</td>
</tr>
<tr>
<td>(A Richmond Beach Siren, SIREN 1921)</td>
<td>47 46</td>
<td>1720.8</td>
<td>122 23</td>
<td>980.3</td>
<td>&quot; &quot; Triangulation</td>
</tr>
</tbody>
</table>

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
LANDMARKS FOR CHARTS

Seattle, Washington

March 30, 1935

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

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Jack Senior, Comdg. Sr. EXPLORER
Chief of Party.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>POSITION</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
<tr>
<td></td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>°</td>
<td>D.METERS</td>
<td>°</td>
</tr>
<tr>
<td>ILLUMINATED SIGN</td>
<td>47 46</td>
<td>550.0</td>
<td>122 23 641.0</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OIL TANKS at Wells Pt.</td>
<td>47 47.0</td>
<td>---</td>
<td>122 23.5 ---</td>
</tr>
<tr>
<td>OIL TANKS at Edwards Pt.</td>
<td>47 48.2</td>
<td>---</td>
<td>122 23.4 ---</td>
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<tr>
<td>ILLUMINATED SIGN (O Ig)</td>
<td>47 45</td>
<td>1472.0</td>
<td>122 26 301.5</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Apple Cove Point</td>
<td>Same</td>
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</tr>
<tr>
<td></td>
<td>Edwards Point</td>
<td>&quot;</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Kingston</td>
<td>&quot;</td>
<td></td>
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<tr>
<td></td>
<td>Appletree Cove</td>
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<tr>
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<td>Point Wells Point</td>
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<td>Richmond Beach Point</td>
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<tr>
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<td>President Point</td>
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<td></td>
<td>Point Jefferson Point</td>
<td>&quot;</td>
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<td></td>
<td>Spring Beach</td>
</tr>
<tr>
<td></td>
<td>Meadow Point</td>
<td>Same</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Pugat Sound</td>
<td>&quot;</td>
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</table>
REVIEW OF TOPOGRAPHIC SURVEY No. 6259

Title (Par. 58) Apple Cove Pt. to Meadow Pt.

Chief of Party Jack Senior Surveyed by W.F. Maldon Inked by W.F. Maldon

Ship Explorer Instructions dated Mar. 28, 1934 Surveyed in June 22, 1934

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓

2. The character and scope of the survey satisfy the instructions. ✓

3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓

4. The amount of vertical control that the Manual specifies for contours-formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.) Unable to yet elevations

5. The delineation of contours-formlines is satisfactory. (Par. 49, 50.)

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) None Submitted

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

See reverse side

10. The span, draw and clearance of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.)

12. The tree line was shown on mountains. (Par. 18g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
Paragraph 9

T583 (1856)

This survey is only of Appletree Cove and does not show much
detail. It is generally in good agreement with the present survey.

T1303-b & c (1872)

This survey is on a scale of 1:10,000 whereas the present survey
is on 1:20,000. The two are in very good agreement except for very
minor details.

T1389-b (1872)

Only a very small part of this survey is comparable to the present
survey. The sunken rock on T1389 just north of Pt. Wells, is shown as
a rock awash on H5709 (1935) but is not shown on T6259. The remainder
of the survey T1389 is in good agreement with the present survey, T6259.

T1390-a (1874)

This survey on a scale of 1:10,000 whereas the present survey
T6259 is on 1:20,000. Despite the difference in scale the two surveys
show very good agreement.

T3389 (1913)

This survey was only to locate the oil tanks at Points Wells
which are shown on T6259.

T3675 (1917)

This survey is only a revision survey on a copy of Chart 6443.
A pile is shown off President Point which is not shown on the present
survey T6259 as the contemporary hydrographic survey H5709. It is not
shown on Chart 6450.

The present edition of Chart 6450 is in good agreement with the
present survey T5259.

T5259 supersedes T583 and T1303-c and supersedes in part T1303-b,
T1389-b, T1390-a, T3389 and T3675.
13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) None submitted

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.)

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) No note of having checked declination.

18. The geographic datum of the sheet is N.A. 1927 (Adjusted) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate.

Junction T 6460 (1034) on the west
Junction T 6261 (1034) on the south.

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks:

Reviewed in office by Chas. A. Beach Jr. June 25, 1936.

Examined and approved:

[Signatures and titles]

Chief, Section of Field Records
Chief, Section of Field Work
Chief, Division of Charts
Chief, Division of Hyd. and Top.