DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: S.E. Alaska

DESCRIPTIVE REPORT.

Topographic Sheet No. 4173

LOCALITY:
Chichagof I.- W. Coast
Elbow Passage and
Smooth Channel

1925

CHIEF OF PARTY:
A.M. Sobieralski
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. 73

**********

Smooth Channel - The Gate
Chichagof Island, S. E. Alaska.
September - October, 1925.

Scale 1:5000

Instructions dated February 4, 1925.

A. M. Sobiersalski - - - Chief of Party.

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Scale-1:5000

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EXTENT: This sheet embraces the group of small islands, and parts of Chichagof Island, forming the shores of Smooth Channel, The Gate, and a portion of Elbow Passage.

LAND FORMATION: The land is uniformly low and heavily timbered. The rock met with is partly loose shale and partly a fairly hard trap rock. Many of the islands are connected at low water. The passages between the islands are mostly shallow, so that kelp is found almost everywhere except in the middle of the three channels named.

LANDMARKS: There are no landmarks worthy of note that are not described in the Coast Pilot.

CONTROL: Abundant control by triangulation stations already existing was afforded. Short traverses were run, and a few fixes by graphic triangulation were used. The principal piece of traverse run was between Off and Shale via The Gate and Elbow Passage. No appreciable closure error was obtained. A few sunken rocks were located by rod readings, on a rod held in a skiff.

A beacon was erected (Aoo) which, with The Gate Beacon, forms a range line past the sunken rock near the left shore of The Gate. This was built sufficiently substantial to remain some time, or until it could be replaced by the Bureau of Lighthouses. Negotiations looking to this result were entered into with the Superintendent of Lighthouses at Ketchikan, Alaska, by the Chief of Party.

The area between Curt Point and Grey Rock was not carefully examined. It is known that this is a foul area. Elsewhere on the sheet the work can be accepted as final, all features appearing on earlier surveys of this area having been inspected, and represented here in correct form.

GEOGRAPHIC NAMES: The name Twin Island is the only new name used.
RECOVERABLE HYDROGRAPHIC SIGNALS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Lst</th>
<th>(DE)</th>
<th>Long</th>
<th>DP</th>
<th>Description</th>
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<tbody>
<tr>
<td>Tom</td>
<td>57</td>
<td>35</td>
<td>1134</td>
<td>136 06</td>
<td>67 Peak of Rock</td>
</tr>
<tr>
<td>Zu</td>
<td>57</td>
<td>36</td>
<td>656</td>
<td>136 06</td>
<td>494 Point of island</td>
</tr>
<tr>
<td>Hun</td>
<td>57</td>
<td>36</td>
<td>770</td>
<td>136 06</td>
<td>211 Point of island</td>
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<tr>
<td>Con</td>
<td>57</td>
<td>36</td>
<td>1134</td>
<td>136 06</td>
<td>36 Beacon</td>
</tr>
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<tr>
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<td>136 05</td>
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<tr>
<td>Kis</td>
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<tr>
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<td>57</td>
<td>36</td>
<td>20</td>
<td>136 07</td>
<td>570 Peak of rock</td>
</tr>
</tbody>
</table>

Respectfully submitted.

E. B. Roberts
Jr. H&G Engineer.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4173

State. S. E. Alaska

General locality. West Coast of Chichagof Island, W. Coast

Locality. Smooth Channel - The Gate

Chief of party. A. L. Sobierski

Surveyed by. E. B. Roberts

Date of survey. Season 1925

Scale. 1-5,000

Heights in feet above Mean High Water

Contour interval 100 feet

Inked by. E. B. R. Lettered by. E. B. R.

Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet

Remarks:

4173