

3704
3704A

U. S. COAST AND GEODETIC SURVEY
L. & A.
NO. 10 1918
Acc. No.

Type

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: _____

11-5813

DESCRIPTIVE REPORT.

Top Sheet No. *3704 & 3704A*

LOCALITY:

191

CHIEF OF PARTY:

3704
3704A

DEPARTMENT OF COMMERCE.

COAST AND GEODETIC SURVEY.

Dr.E Lester Jones,Superintendent.

Report To Accompany

Topographic Sheet Of Sakie Bay,Dall Id.,Alaska.

Steamer Explorer,
July 1917.

SAKIE BAY, DALL ISLAND, ALASKA.

Report to accompany Topographic Sheet, Scale 1:20,000.

Steamer Explorer, July 1917.

The topographic sheet was laid out to cover the unsurveyed portion of Dall Id. lying between Cape Augustine and a point approximately E.S.E. from Divers Rocks, Meares Passage.

An anchorage near the working grounds was necessary. A reconnaissance by a launch party showed the bay to the south of Juel Point to be suitable. If the ship were to use these waters, some knowledge of the depths was necessary. Some signals were located to control hydrography. The topography was then started.

Control:--Two triangulation stations, located at the mouth of the bay control the work. Signals were located by plane table triangulation and stadia readings. The shore line was rodded, rocks and off-lying dangers were located by cuts.

Description:--The shore line is rocky and bold. Numerous rocks and breakers extend off both shores. The country is hilly and heavily timbered with spruce and hemlock. The ridges and peaks on the south side of the bay vary in elevation from 1400 to 2500 feet. The various islands, rocks and points are described in the report accompanying the hydrographic sheet as that survey is more complete.

Contours:--Unfortunately the officer in charge seemed unable to get contours as the work progressed. As the sheet, or a copy of it, will probably be sent into the field again, cuts to peaks and points, for the determination of contours, were left on the sheet. These may be of assistance to the topographer who completes the work.

The work did not progress rapidly enough to furnish control for the hydrographic party. Signals were located on boat sheet paper, on a scale of 1:10,000, by plane table triangulation. This work covers the north arm of the bay, and overlaps the work done by the topographic party, in the area between Gap and Bold Points. In this area, on each side of the channel, the shore line was rodded, for a distance of about one mile, with the accuracy required in plane table work. Contours were gotten in this section; some were also gotten on the north side of the north arm. The shore line of the north arm, between plane table stations was sketched in. The section which was duplicated on each sheet, gives good control for joining the sheets for hydrographic purposes. This work was done only to permit the completion of such hydrography as was necessary to permit the navigation of the ship in safety. It was intended that the topographer should continue his detailed survey. Telegraphic orders to close field work prevented this.

An enlargement of the topographic sheet to a scale of 1:10,000 was made. To this the other work was joined. A vellum tracing, scale 1:10,000 was made. It shows all of the work done. The shore line on this tracing shows the sketched portion corrected in accordance with notes and sketches submitted by the hydrographic party.

The south arm of the bay was not surveyed. Its general appearance is as shown on chart 8150.

The hydrographic sheet is more complete than the topographic sheet. Lists giving positions and descriptions of stations accompany that report. Blue prints from the tracing, if furnished with descriptions, will be of assistance to any party which may require them.

Any topographic features likely to be of use are described in the report which accompanies the hydrographic sheet. Sufficient information is given on the hydrographic sheet, to enable the greater part of the bay to be shown on the chart in its proper form--also to make it available as an anchorage.

The topographer gives the elevation of Entrance Id. as 180 feet. An officer who occupied the triangulation station on the island, gives its elevation as 85 feet. As the island is an important land mark, this point deserves attention; it is recommended that the elevation be omitted from any publication until a more certain value is obtained.

Records as follows accompany the topographic sheet.

1 Tracing-scale, 1:10,000--1 sheet (boat sheet paper) showing topography of North Arm of the Bay--17 descriptions of stations, form 524.

" accompanying the hydrographic sheet.

2 boat sheets; 1 descriptive report containing list of signals; 1 vol. of soundings; 1 vol. of tides; 1 vol. level records.

The topographer was ordered to another party while in the field, and later was detailed for military duty. He did not have an opportunity to submit a report.

J. P. Miller.
Chief of Party, Corp.

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. 3704.

State S. Alaska.

General locality Dall Id.

Locality ~~Sakie Bay.~~ Sea Otter Har.

Chief of party T. J. Maher.

Surveyed by R. A. Wheeler, mid.

Date of survey July 1917.

Scale 1:20000.

Heights in feet above M.H.W.

Contour interval 100 feet.

Inked by R. A. W. Lettered by T. J. M.

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet 1 piece of boat sheet paper
with supplemental topography.

Remarks: