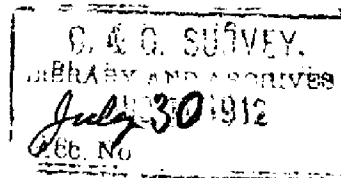




3267



Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Sheet No.

LOCALITY:

*Gastineau Channel - Douglas
and Treadwell*

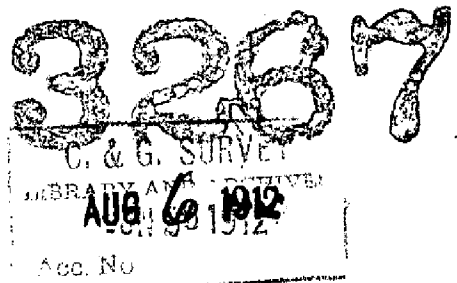
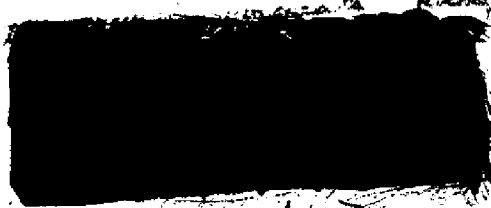
1912

CHIEF OF PARTY:

C. D. Quillian

11-4045

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COAST AND GEODETIC SURVEY

O. H. Tittmann, Superintendent.

G A S T I N E A U C H A N N E L .

Douglas and Treadwell

A L A S K A

Scale: 1- 10,000.

A Plane Table Survey by

A.M.Sobieralski, Asst. C.& G.S.

attached to

C.& G.Survey Str. McARTHUR

commanded by

G. G. Quillian, Asst. C.& G.S.

CHIEF OF PARTY.

June 7 to June 15, 1912.



C. & G. SURVEY,
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*Descriptive Report
to accompany
Topographic Sheet
of
Gastineau Channel
Douglas & Treadwell.*

3267



DESCRIPTIVE REPORT.

The objects of the topographic survey of the shores of Gastineau Channel between Treadwell and Douglas were: first, to determine the positions of hydrographic signals; and second, to revise the survey of the water-front, as many changes had been made since the last survey.

A projection was made on the scale of 1 : 10,000, but as none of the triangulation stations was recovered, it was disregarded, and the latitude and longitude lines erased.

A signal was built at a point which agrees with the description of A Pump and the topography was begun at this point. The sheet was oriented on the east tangent to Juneau Isle, as transferred from the bromide print of the previous survey.

When the survey was completed, it was found that the distances from Pump 2 to Nap 2 and from Pump 2 to Nag 2 agreed closely with the distances between the corresponding triangulation stations, so the topography can be fitted to the triangulation by means of these three points.

A plane table traverse was carried down the north side of the channel from o Pump about three miles. At the same time cuts were taken to signals, prominent buildings, etc. on the opposite side; ^{later} most of these points were occupied and the details rodged in. A sextant was used for locating some of the buildings away from the shore.

From e Pump to the end of the topography, the shore line is practically straight and a shingle beach about 50 meters wide extends along the whole stretch. A flat makes out about three hundred meters off the mouth of Sheep Creek. The shore is steep, covered with grass and brush, sparsely wooded, except along the water courses where it is more densely wooded.

The south shore of the channel is not as steep as the north shore, and there are buildings all along the shore within the limits of the topography. The hills back of the buildings have been cleared, but the tops of the hills are still wooded.

At the west end of the topography near e Freeze, a shingle spit makes off about 275 meters. From this spit to Douglas there is a shingle beach about 60 meters wide, which widens off the town almost to the end of the Alaska Steamship Company's wharf (e Coal)

Juneau Isle is a small islet about 35 feet high, covered with grass and a few trees, and has steep rocky shores. It is used as a city park, and a pavillion is being built upon it. The city wharf connects it with the city.

The bight between the mainland and the island is partly obstructed by a log boom of the lumber company, and the narrow channel close to the island is used only by small launches. Off e Vel the flat caused by the tailings from the Treadwell mines begins and extends out almost to the end of the main wharf at Treadwell, then in an irregular line to e Foundry. The spit on which e Foundry is located is a fill about 20 feet high.

From e Foundry almost to the Ready Bullion stamp mill there is a shingle beach about 40 meters wide. At this point another spit makes out about 125 meters caused by the tailings from the Ready Bullion mine. From the Ready Bullion wharf eastward there

is a shingle beach, and at the end of the topography there is a shingle spit which extends about 125 meters.

A trestle for an industrial railway with a walk about five feet wide alongside, extends from the sawmill at Douglas to the eastern end of the topography, following closely the high water line. Some of the buildings are built on piles outside of this trestle.

The buildings at Douglas are all frame structures. The principal buildings were carefully located by cuts and rod readings, while the others were grouped and sketched.

The buildings of the mining companies are all frame structures, except the Central Hoist, which is under construction, the steel framework being completed. The circles indicate steel tanks.

A list of Plane Table Positions follows, giving a brief description of the principal points determined. As no projection was used, the latitude and longitude are omitted.

Respectfully submitted,

A. M. Sobieralski

Asst. C. & G. Survey

LIST OF PLANE TABLE POINTS

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Pump 2 d.m. Approximate position of Pump.
 Nap 2 " " " " " Nap
 Se " " Hydrographic signal.
 Tel Telegraph pole nearest to engine house on N. side Gastineau Channel.
 Nag 2 d.m. Approximate position of Nag
 Two Hyd. signal end of old wharf near Sheep Creek.
 Rap N.W. edge of building on Ready Bullion wharf.
 Ready Flagpole on Ready Bullion Hoist.
 Flag Large flagpole 100 meters N.W. Ready Bullion Hoist.
 Fin Flag, end of outfall trestle at Ready Bullion mill.
 Stack Smokestack of Ready Bullion Mill.
 Foundry d.m. Hydrographic signal near Treadwell Foundry.
 Mex N. gable tower Alaska Mexican hoist.
 Smoke Stack on Alaska Mexican mill.
 Black Stack on 700 mill
 Glory Flagpole on Treadwell hoist, near Glory Hole.
 Dol flag, end of outfall trestle, 700 Mill.
 First Stack on power house of Treadwell 300 Stamp Mill.
 Yel N. gable small yellow house on Douglas waterfront.
 School Cupola Douglas public school.
 Hall Belfry Douglas City Hall.
 Isle Flagpole on Juneau Isle.
 City East gable warehouse on City Wharf, Douglas.
 B.M.#1 d. m. Disc C. & G. S. B. M.
 B.M.#2 " " Copper Bolt.
 Coal Coal hoisting tower on Alaska S.S. Co's wharf, Douglas.
 01

Old Hydrographic signal on old wharf at Douglas.

New Chimney of small house on beach west of Douglas.

Freeze 2 d.m. Hydrographic signal.