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FORM 504  DEPARTMENT OF COMMERCE  U. S. COAST AND GEODETIC SURVEY	
State: J. E. Alaska	
DESCRIPTIVE REPORT.	
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LOCALITY:	
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CHIEF OF PARTY:	
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U. S. COAST AND GEODETIC SURVEY.

DEPARTMENT OF COMMERCE

E. Lester Jones, Superintendent.

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DESCRIPTIVE REPORT

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TOPOGRAPHIC SURVEY 3688

OF

VICINITY OF THOMAS BAY AND CAPE OF THE STRAITS.

FREDERICK SOUND S.E. ALASKA.

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Compiled by
George L. Bean, Aid.
Nov. 7, 1917.

WIRE DRAG PARTY No. 3

A. Joachims, Chief of Party.

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Plane Table Survey of the Vicinity of Thomas Bay and Cape of the Straits.

Sheet "D" 3688 S.E.Alaska.

Wire Drag Party No. 3 June 1917. A. Joachims, Chief of Party.

Survey by A. L. Shalowitz, Aid.

#### Introductory notes.

This survey, which was on a 20,000 scale, was made to include both sides of Frederick Sound within the prescribed limits, and was done in conjunction with the wire drag work in this vicinity. In accordance with instructions the shore line of Thomas Bay was to be omitted unless sufficient extra time was available to make such work practical without holding up the drag work. As a consequence, no time was available for running in Thomas Bay.

#### Limits of the sheet.

On the south shore of prederick Sound this sheet joins sheet "C" at a point about two miles southeast of the Cape of the Straits and and continues westward to a junction with sheet "E" at a point about one-half mile east of triangulation station Bridge.

On the north shore of Frederick Sound in the Vicinity of Wood Ppont Point, it starts at a point about one-half mile east of triangulation station Wave and continues to a point about one-half mile north of Wood Point. On the West side of Thomas Bay it begins at the extremity of Vanderput Point and continues to the eastern side of the entrance to Farragut Bay at triangulation station Grand.

#### Control of the sheet.

The control of this sheet is founded upon the triangulation scheme including the signals Cape, Light, Kit, Catch, Grand and Wave. These stations being well distributed over the area of the sheet gave adequate control, making the establishment of topographic stations unesessary. Therefore station Mall was the only topographic station used.

#### Method.

The method of the survey was to start at a triangulation station and traverse to the next station, checking the traverse at intervals by a three point fix and resections. At the termination of all traverses and at the junctions with other sheets, very good checks were obtained.

#### Nature of the shorel line.

In the vicinity of Wood Point the shore line is low and a wide gravel beach extends from 100 to 800 meters out from the high water line. Large boulders are scattered about. The tree line comes to the high water line. From the extremity of Vanderput Point north to Triangulation station Catch and a sand beach with occassional boulders is found. From station Catch to the vestern limit of the sheet the shore line is bold with steep

bluffs and boulder beaches. The tree line comes to the high water line, On the southern shore of the Sound a rugged shore line is found. With the exception of a short sand beach at Ten Hile Creek, boulder beaches and ledges predominate.

The rocks of this sheet are of slate and granite and small quantities of quartz.

#### Flora.

Fir and yellow cedar form the greater part of the vegetation of this sheet. The trees are of medium size and not of great value as timber. A thick undergrowth of berry bushes, devil's club, alder and ferns is usually encountered.

### General resources.

Fishing forms the principal industry in this vicinity. Large amounts of shrimp are caught in Thomas Bay, and salmon run in large numbers. Lumber suitable for piling and simple building purposes may be had in large quantities.

Game and wild fowl are plentiful. Several gold claims have recently been staked in the vicinity of the Cape of the Straits.

One or two ranches are located in Thomas Bay.

#### Coast pilot.

Two large rocks are located about 100 meters off shore near Ten Mile Creek. They are marked by kelp and the larger is awash at high tide.

In the vicinity of Wood Point the beach extends about onehalf mile off shore. It is dotted with boulders.

Kelp is found all along the south shore of the Sound and at intervals between stations Catch and Grand.

A secure anchorage for boats up to 100 tons is found in Thomas Bay.

#### Conclusion.

It was hoped that an opportunity would be found to continue the survey further into Thomas Bay, but prolonged rains and the sudden termination of the season, due to the transfer of the personnel of the party, made this impractical.

Approved by,

Jr. Hyd. & Geodetic Engr. Chief of Wire Drag Party #3.

# Topographic stations used on sheet "D"

Station		itudə	D.M.	Longitude		D.P.
Mall	57	1 05	meters 215	133	108	maters 544

3688

## Statistics.

Miles of shore line:- 21.0

Area:- 15.0 square miles.

Miles of creeks:- 0.2

Plane Table Survey of the Vicinity of Thomas Bay and Cape of the Straits. Sheet "D" Wire Drag Party Nº 3. S.E. Alaska 103. June 1917. A. Joachims, Chief of Party. Survey by A.L. Shalowitz, Aid. Introductory Notes. This survey, and a 20,000 reals was made to wich be both shores of Frederick Sound and the whole of Thomas Bay He general plan adopted was to complete the outside work first and them, if compatible with the wire drag operations, the survey of the Bay was to be to been up. This, as however, was - rendered impossible by the centured in clausing of the weather during the latter part of the season as well as crythe sudden curtailment of the operation due to the war, conditions. Limits of the Sheet. This sheet includes both phoses of Frederick Sound On the ponth shore this sheet joins Sheet "C" at a point about two miles portheast of the Cape of the Straits and entires westward to a junction with sheet "E" at a point about see half inde east of ∆Bridge. On the north sline of Frederick Sound in the winity of Wood Point it starts at a point about one holf mile east of swave and continues to a point about one-half mile north of wood Voint. On the west side of Thomas Bay it begins at the extremity of Vandeput Voint and continues to the eastern side of the entrance to Juriaget Day it & Grandwhee it joins with sheet "" Clantrol and Method of Survey ... Starting with the servered triangulation stations. Moon and Cape, a tertiaing scleme was continued up the Sound establishing stationis Wave, Kit, Light, and Catch, and Grand. There stations being well distributed over the sheet dim I the furnished ample control for the topography and eliminated the necessity of ostablishing additional stations for wine drag purposes. The main portion of the slove line was running three point fixes and resections. The entire porth place was surveyed by three point fires. The shore line would Wood Ot was run in light a \_ traverse, but in all cares clacks were obtained by resettions. : The above line fram & Kit to A Catch was done by my traverse and

resections.

From & Catch to the first large bight to the northwest the sline line is extremely abrupt It was found extremely difficult to traverse and so a point had to be established on the opposite shore near the western limit of the sheet. With this point breated, three point fixes were possible

The remainder of the sheet was treversed, check cuts being taken

all triangulations stations were occupped and the location of the others verified

Nature of Shore line.

the shore line is generally bold at points and law in brights. The creek just south of a Cape brown as Jen mile creek has a long sand beach at its mouth. On the cent aide of this creek there is a small wooded islet with a roshy reef studing for about 300 metris official. Iron a Cape to the western limit of the sheet, the sheeline is chiefly mayed with occasional law spots in brights. The low water line incommend with occasional law spots in brights. The low water line incommend noting comists principally of rosky ledges interspersed with course grower. Reef stend out for a distance of one to two hundred meters at the points plane in the sheet.

Kelp patches are in evidence along the entire shore.

Kelp patches are in evidence along the entire shore.

On the north shore in the region of Wood Point the shore line is low. Sand and gravel beaches extend for from 100 to 800 meters from the high water line. From a Wave to the limit of the sheet large boulders line the entire beach. Continuing into Homes Bay two small high water islands exist at the mouth of a small creek. There islands are rocky and bare.

The shore line of the the west shore of St. Vandeput is low and wooded. He beach consists wainly of boulders, sound and grewel. In one or two places along here there is are potely of almost perfect and pand beaches.

From about one quarter vile sail of & Catch running M.W. for a a distance of two and a half wiles, the place line is bold and about. Porky belges make at from the leight water line for a very

short distance, but there is very little low water line to apeals of . The are very few landing places along line and there can only be used in the most favorable weather. From this good to the witom limit of the sheet, the shore is generally low exception the imediate vanily of & Grand where it is bold and nothy. To trave, rocky reefs make out from I want all the points while come gravel usually fills in the bights. Kelp patelos are present in yests along the place General Appearance of Country. The country is 4 in this vicinity is essentially heavily wooded and nountainous. In the south pute of the Sound the mountains rice. as fairly gentle slopes. With my for one or two exceptions, they are wooded to the top. This is also there of the area from & Grand to △ Catch. In the region back of the lagoon near SCatch the slopes rise to a leight of over 3000 feet in less than a mula. The mountains in this vicinity are usually sum capped the year round. The wountains back of Thomas Boar and near Patterson Pslacier are unusually rugged, there bring really no single peak which stands at a more promised but to are rather formed in clusters. A veen of this mountain range are a clear day or in the quietude of a calm summer's evening is an american eight and me that count so quickly be ended from the meno at the head of Thomas Bay the Cand slides form pulops the nort promised topographic feature of that vaccinity. Hey can be discerned in almost all brinds of weather and with late alonglish. they stand out like a beacon light on the lovely sea. They are an important aid to Newsgatian, particularly for entering Homes

around Wood Point the country is low and slightly rolling. The tumber is very thick in this section.

Boint Vandeput is one of the nort prominent points in the Sound.

Stir flat and world. It is along low, flat, piece of land about two and ahely riches in the length and running in almost a true north and south direction. It is fairly well wooded, the tree line beginning.

about are quarter side with of the extreme and of the point. endence a considerable member of for trees. a thick endingrowth of berry burles, devils club, alder and ferus is usually encountred. The heights of the trees vary from sixty to one hundred and fifty feet. The contours plane are at 100 ft. entervals. This is not a result of the plane table survey but was transferred from triangulation data and restant cuts When work was done in this vicinity the weather conditions rendered it impossible to obtain any plane table cuts: Various sextant cuts and elevations were taken from Current Station # 2 to the mountains near the Cape. of Straits No additional cuts, lowever, were obtained, for Current Station #3 was occupped in weather when me of the peaks were visible. The sudden termination of the season rendered any additional works in this locality impossible Ganeral Resources. Fishing forms the principal industry in this section. Large amounts of shring are conglit in Homes Bay and column run in Konge numbers ... Lumber suitable for piling and simple building purposes may be had in large a quantities. The rooks found here are generally of slate and granile with occasional small quantities of quarty. Several gold claims have recently been staked in the vicinity of the Cape of Straits. Same and wild fowl are plutiful Numerous small neeks and streams formish good water supply, but were, however, large enough for waterpower

about are-helf mile partheat of cape of straits Light there are

two rocks about one hundred to one hundred and fifty neters off shore. The outer rock is awash at average high tide while the

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Sheet "D"

## 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. 3688

State S.E. Alaska
General locality . Frederick Sound
Locality Vicinity of Thomas Bay
Chief of party
Surveyed by Aaron L. Shalowitz
Date of survey June, 1917
Scale
Heights in feet above . mean high water
Contour interval 100 feet.
Inked by A.L.S. & G.L.B Lettered by . G.L.B
Records accompanying sheet (check those forwarded): Photographs,
Descriptive report, Horizontal angle books, Field computations,
Data from other sources affecting sheet
Remarks:  Descriptive report and description of stations
forwarded on separate mail