

3853

DEC 19 1921  
AGE No.

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

State *S. E. Alaska*

11-5013

DESCRIPTIVE REPORT.

*Rept.* Sheet No. *3853*

LOCALITY:

*Lynn Canal*  
*Pt. Sherman to*  
*Sullivan Island*

*1921*

CHIEF OF PARTY:

*N. H. Hech*

3853

Limits:

This sheet extends from north latitude  $58^{\circ}48'30''$  to  $58^{\circ}56'$  and from west longitude  $135^{\circ}07'$  to  $135^{\circ}22'$ . The work connects at the southern limits with Mr. Hoskinson's work of 1921 and at the northern limit was carried on the eastern shore, as far as  $\Delta$  Met and, on the western shore, as far as  $\Delta$  New, including Sullivan Rk. and the island south of Sullivan I., beyond which points no topography has recently been done.

General Description of Shore:

On the eastern shore a gravel and boulder beach extends from  $\Delta$  Man to  $\Delta$  Com, with a long reef extending off Pt. Sherman; from  $\Delta$  Com to  $\Delta$  Met the shore is a fairly steep cliff.

On the western shore from  $\Delta$  Cross to  $\Delta$  Cove the shore is a cliff with occasional reefs; from  $\Delta$  Cove a sand and gravel beach extends to 1/2 mile south of  $\Delta$  Flat; from here a cliff extends to about 300 meters south of  $\Delta$  Ban. Thereafter boulder beaches and reefs prevail to about 1/2 mile north of  $\Delta$  Ban. From this point north the shore is a sand and gravel beach with a flat extending over 1/4 mile from the high water line at the river just north of  $\Delta$  Sand. The shore of Sullivan Rk. and the island just north consists of boulder beaches and reefs. At Comet, on the eastern shore, there is a deserted settlement, mine, and dock, with a railroad track running from the dock to the mine.

Landmarks:

Sherman Light, described in Light List.

A brown scar on the side of the cliff at  $\Delta$  Brown.

Inshore Dangers:

Sherman Rock and Ledge, described in Coast Pilot;

The bottom slopes very gradually along the entire eastern shore south of  $\Delta$  Com, and small craft should therefore not run too close to shore. The above mentioned ledge at Pt. Sherman bares 375 meters off shore at low tide.

#### Survey Methods:

The following points of control were established by triangulation: Station Man ( G.C.Jones 1921 ). Stations Sher, Brown, Com, Met, Cross, Cove, Flat, Ban, Sul, Liv, Van, Sand ( A.P.Ratti 1921 ).

Plane table stations Mine and New were established.

The shore line was run in by traversing between triangulation stations, with resection on stations and three point fixes as a check on the readings.

Altho it was originally planned to have this sheet and the one directly south join on the east shore at  $\Delta$  Man, the exigencies of the work required that I run several hundred meters south of  $\Delta$  Man to join Mr. Hoskinson's work. The two points did not check by 44 meters, but it was doubtful whether we had both taken readings on the same point and no time was afforded to investigate the matter. The form line work on this sheet was interrupted by bad weather at the close of the season, and, owing to the complicated nature of the country, only part of the form lines could be drawn, altho a number of peaks in other parts of the sheet were located.

U.S.G.S. SURVEY

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U.S.G.S. SURVEY

DEPARTMENT OF COMMERCE,  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 25, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3853

Lynn Canal, Alaska

Surveyed in 1921

Instructions dated February 17, 1921

Chief of Party, N. H. Heck.

and inked  
Surveyed by A. M. Weber.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the General Instructions except that there are only one-third the specified number of determined elevations.
3. The plan and extent of the survey satisfy the specific instructions. The unfinished formline work was done in 1922.
4. The junctions with the adjoining surveys are satisfactory.
5. No additional surveying within the area of the sheet is needed.
6. Sherman Light is an important topographic feature that should have been named.

The brown scar forming a landmark, which is mentioned in the descriptive report, is not shown or named on the sheet.

7. The character and scope of the drawing and surveying are good (except for the insufficient number of elevations.)
8. Reviewed by E. P. Ellis, October, 1924.

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. 3853

State S.E. Alaska

General locality ~~S.E. Alaska~~

Locality Lynn Canal Pt. Sherman to Sullivan Island

Chief of party N.H. Heck

Surveyed by Albert M. Weber

Date of survey August, September 1921

Scale 1 - 20000

Heights in feet above Mean sea level

Contour interval 100 feet.

Inked by A.M. Weber Lettered by A.M. Weber

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks:

3853a

ACKNOWLEDGED

DEC 18 1922

L. & A. SEC.

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: *S. E. Alaska*

11-5013

DESCRIPTIVE REPORT.

*Topo* Sheet No. *3853 a*

LOCALITY:

*Lynn Canal -  
Pt. Sherman to  
Sullivan Island*

*1922*

CHIEF OF PARTY:

*J. H. Hawley*

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 3853.

LIMITS:

This sheet extends from north latitude 58° 48' to 58° 55' and from west longitude 135° 01' to 135° 27'. This sheet completes the form lines and shore line on sheet register no. 3853, surveyed in 1921 by A.M. Weber. There is only a short strip of new shore line, and that is on the west shore of Lynn Canal, connecting with Mr Weber's work about 3/4 miles north of signal DNR and extending north to signal VIA where it connects with the next sheet.

GENERAL DESCRIPTION OF SHORE.

The shore line on this sheet, with the exception of a strip about 600 meters long extending from WIRE west, is all sand and boulder beach. There is a broad strip of grass between the high water mark and the trees. The creek flowing into the head of Peterson Bay is named Peterson Creek.

The form line area is very irregular and thickly covered with trees to a height of 1800 to 2000 feet. I obtained some excellent checks with Mr Weber's form lines run in 1921.

LANDMARKS:

A light on Pt. Sherman. This is described in the light list.

ANCHORAGES:

Peterson Bay, a good holding bottom can be found up in the head of the bight, off the point where the rock and sand beach connect. This is good protection in a southeaster, care must be taken in entering the bay from the north, a charted rock lies about 100 meters off the northern point of the bight.



NO. 1. SHORE NEAR ABAT.



NO. 2. DETACHED ROCK NEAR  
A CROSS

2



PETERSON BAY & GLACIAL FLAT  
JUST SOUTH OF IT.



NO. 3. SUN SHADE MADE FROM  
CEMENT SACK.

NO. 4. PUTTING ON CANVASS  
COVER TO PROTECT SHEET



4

3



SURVEY METHODS:

The following points of control were established by triangulation  
CROSS COVE FLAT BAN SUL LIV VAN CCM BROWN SHER and MAN (A.P. Ratti 1921).

Using  $\Delta$  BAN and  $\Delta$  SUL as initial stations the following stations  
were located by plane table triangulation, DER, TEN, DRAG, WIRE, VIA, THUS  
ONE and NO.

The shore on this sheet was surveyed by traversing south from  
signal VIA until I connected with the shore run by Mr Weber in 1921.

Submitted by

*Benjamin H. Rigg*

Jr. H & G E.

Approved by

*J. H. Hawley*

Comdg.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 31, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3853<sup>a</sup>

Lynn Canal, Alaska

Surveyed in 1922

Instructions dated February 13, 1922.

Chief of Party, J. H. Hawley.

Surveyed and inked by B. H. Rigg.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions except that there are only one-half the specified number of determined elevations.

The form lines on the western shore between 58° 49' and 51' were incorrectly drawn. Also those defining peaks 5320 and 5470 on the eastern shore were incorrect. Both of these areas were corrected in the office with the approval of Capt. Hawley.

Also the glacial stream south of Peterson Bay, which shows on the photograph submitted with the descriptive report, was omitted. This was added in the office with Capt. Hawley's approval.

3. The plan and extent of the surveys satisfy the specific instructions.
4. The junctions with the adjoining surveys are satisfactory.
5. No further surveying is required within the area of the sheet.
6. The character and scope of the surveying and field drafting are fair.
7. Reviewed by E. P. Ellis, October, 1924.

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. 3853<sup>a</sup>

State **S E Alaska** . . . . .

General locality **Lynn Canal** . . . . .

Locality **Pt. Sherman to Sullivan Island.** . . . .

Chief of party **J. H. Hawley** . . . . .

Surveyed by **B. H. Rigg** . . . . .

Date of survey **April 1922.** . . . .

Scale **1/20000** . . . . .

Heights in feet above **mean sea level.** . . . .

Contour interval . . . . feet.

Inked by **B. H. Rigg** . . . Lettered by **B. H. Rigg** . . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: **This sheet completes the form lines for sheet, (Register No. 3853), It also contains some shore line completing the glacial fan west of the southern end of Sullivan Island.**