Form 501
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: Alaska
11-5199

DESCRIPTIVE REPORT.

Locality:

Logan Canal
Pt. At. Mary to
Indicott River

1921

CHIEF OF PARTY:
W. H. Webb
Department of Commerce.
U. S. Coast and Geodetic Survey.

E. Lester Jones Director.

DESCRIPTIVE REPORT TOPOGRAPHIC SHEET NO. D.

H.H. Hook Chief of party.

Field season 1921.

State S.E. Alaska.

Locality Lynn Canal.

Surveyed by Albert J. Hopkins.
LIMTS.

This sheet extends from north latitude 58° 41' - 24" to
35° 49' - 43", and from west longitude 134° 59' to 135° 31'.
On the eastern shore of Lynn Canal the work at the northern limit
connects with Mr. Weber's topography of 1901. At the southern limit
the topography was carried around Pt. St. Mary. On the western
shore at both the northern and southern limits the work connects
with that of Mr. Weber's (1881).

GENERAL DESCRIPTION OF SHORE.

From Pt. St. Mary to A Slate the shore is a cliff broken at
intervals by short stretches of boulder beaches. From A Slate to
the northern extremity of the work the shore is a boulder beach
with short sections of cliffs. From Pt. St. Mary to A Rule there
are many points and reefs which extend seaward from 135 to 250 meters.
The largest one being off A Rule. It is about 250 meters in length
and is 250 meters off shore.

The western shore from A Lost to the south entrance point
of William Henry Bay is a cliff extending to the low water line
in the form of a ledge which has an average width of about 150
meters at A Lost and gradually decreasing in width to about 25
meters at the entrance point of the bay. From here the shore is a
cliff for 35 meters at which point it changes to a sand and
gravel beach which extends around the southern end of the bay
and up to a point 400 meters south of A Henry, except for a short
stretch of cliffs due west of the south entrance point before
mentioned. From here to the mouth of Endicott River the shore is
a cliff with a narrow shelf extending to low water, except for a
small depth about 220 meters north of Δ Henry which is a sand and
gavel bank of 215 meters length. The mouth of Endicott River is
a large flat sand and mud bank which extends up to Δ Cot. From
here to Δ Cross the shore is an unbroken cliff with a narrow shelf
extending to the low water line.

LAND MARKS.

Pt. St. Mary: the north entrance point to Berners Bay.

A fish trap; located about 1300 meters south of Δ Slo,
it extends out from shore about 500 meters.

William Henry Bay: described in the coast pilot

North of Endicott River.

ANCHORAGE.

William Henry Bay: Described in the coast pilot.

EXPLICIT DANGERS.

On the eastern shore from Pt. St. Mary to Δ Slo there
are many rocks and reefs which lie from 150 to 350 meters off
shore. South of Pt. St. Mary and 200 meters off shore is a small
rock a rush at ⅓ tide. The largest and most dangerous of these
reefs is at Δ Pula. It is about 200 meters long and 250 meters
off shore and rises at ⅓ tide. About 700 meters south of Δ Bern
is an old fish trap which extends 150 meters off shore.

On the western shore from Δ Lost to the south entrance
point of William Henry Bay there is a shelf which extends from 200 to
300 meters off shore. This shore should be given a good berth by
small craft.
SURVEY METHODS.

The following points of control were located by triangulation: Stations Henry, Lost, River, Cot, Cross, Mary, Sinte, Fern, Pale, Slo, and Ian. (J.P. Fatti 1921.) The shore line was run in by traverse between triangulation stations with resection and three point fixes as a check on the work. Many of the points used in drawing the Form lines were located by cuts taken with a small theodolite by H.H. Heck and later transferred to the sheet.

Respectfully submitted

Albert O. Richardson
D.O.G. G.Survey

Note by H. A. Sack

Free line is at about 2000 feet above that line lies on bore. All are below that line heavily wooded unless noted otherwise. Many of control points is higher than expected. Peninsula only in Pt. St. Mary is very irregular in form—various ridges and small amounts
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON  October 27, 1924.

SECTION OF FIELD RECORDS
Report on Topographic Sheet No. 3657
Lynn Canal, Alaska
Surveyed in 1921
Instructions dated February 17, 1921

Chief of Party, N. H. Heck.

Surveyed and inked by A. J. Hoskinson.

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.
3. The plan and extent of the survey satisfy the specific instructions.
4. The junctions with adjoining surveys are satisfactory.
5. No additional surveying is needed within the area of the sheet.
6. The character and scope of the surveying and field drafting are good.
7. Reviewed by E. P. Ellis; October, 1924.
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. 3857

State... S.E. Alaska

General locality... Lynn Canal

Locality... From Pt. St. Mary to Endicott R.

Chief of party... W. K. Heck

Surveyed by... Albert J. Hoskinson

Date of survey... SEPT. 1921

Scale... 1/200,000

Heights in feet above Mean Sea level

Contour interval... 100 feet

Inked by Albert J. Hoskinson

Netted by Albert J. Hoskinson

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

Remarks: