ACKNOWLEDGED DEC 18 (122 L. & A. 850

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY State: J. E. alaska DESCRIPTIVE REPORT. 3982 LOCALITY: 1922

## DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 1.

## LIMITS:

This sheet extends from north latitude 58°55 to 59°03 and from west longitude 135°03 to 135°29.On the eastern shore or Lynn Canal the topography at the southern limit connects with the work of Mr Weber (1921). The two sheets connect at A MET. The morthern limit extends about a mile north of A SLIDE connecting with sheet no.2 of this seasons work. On the western shore the shore line connects at ° VIA: at it's southern limit runs to and includes the glacial spit west of the northern point of Sullivan I. This sheet also includes the two southermost Chilkat Islands, Eldred rock and Sullivan Island.

## GENERAL DESCRIPTION OF SHORE:

The eastern shore of Lynn Canal with the exception of the sandy bight just south of \$\Delta\$BOID; is all very steep clires. The slopes are that thickly covered with trees to about 2000 reet. Many places land slides have cleared wide paths in the trees.

The western shore is alternate rocky beachs and glacial fans

The glacial fans are roughly semicircular in shape, have broad sandy
beachs with a wide strip of grass between the high water mark and the
trees. The trees on these fans are a mixture of spruce and alder.

The mountain slopes are sparsely covered with trees.

## Sullivan Island:

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Sullivan island is a long hilly island, lying close to the wester shore of the canal. It is about 6 miles long and 1 miles wide at the widest part. The shore is alternate cliffs and boulder beachs. From A LIV to AISLAND and from a WEB to ASLR rocky reers show at low tide.

The island is thickly covered with trees. The island is stocked with foxes.

Chilkat Islands, (two southern islands)

Two low wooded islands lying about midway between Sullivan island and the east shore of Lynn Canal. The shore line is very rocky and the points make off quite a distance.

Eldred Rock

A small grass covered island. Lying about in midchannel, it is marked by a light house.

## LANDMARKS:

Described on seperate sheet.

## ANCHORAGES:

A small bight about a mile north or aVAN, affords good protection in a north wind for small gas boats. In entering from the north care must be taken to avoid the reef that makes off the north point, it extends about 1/5 of a mile.

In the second Chilkat Island, on the north side of the island.

A small bight suitable for small craft, affords protection in a south east storm. A gap in the trees allows the wind quite a sweep but there is good holding bottom. Many boats tie up at a dopphin driven near the head of the bight. There is quite a dangerous rock near the entrance but it is charted.

## SURVEY METHODS:

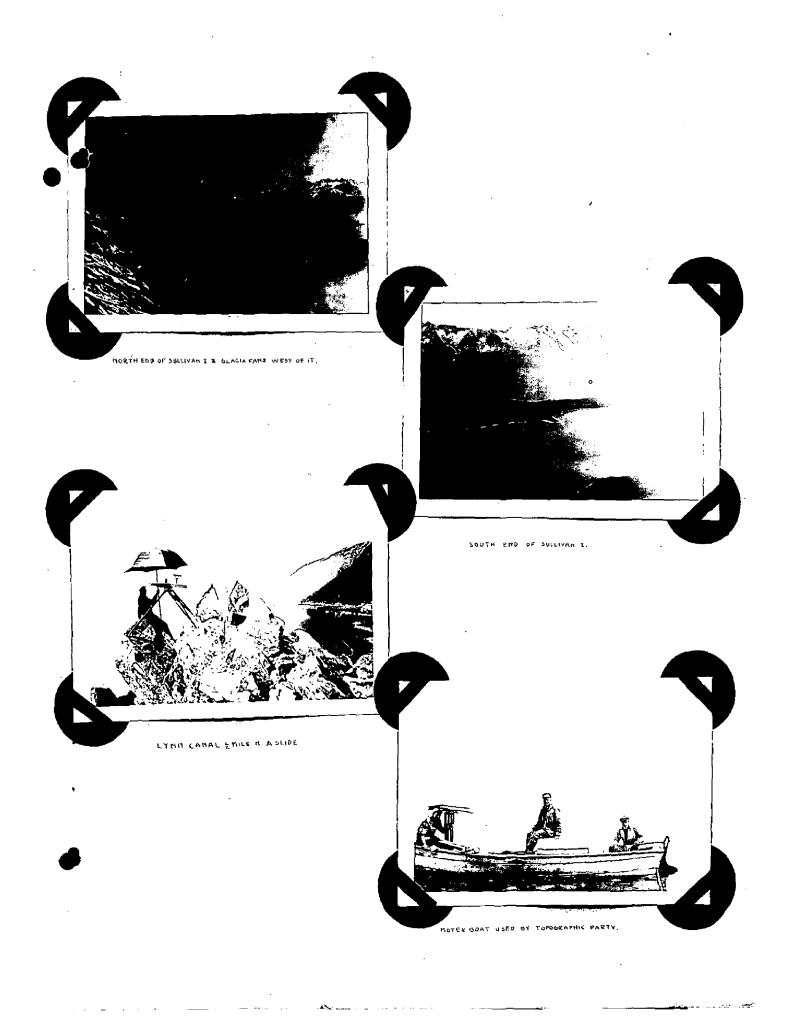
The following points of controll were established by triangulation MET: ,LOW, BOLD, SLIDE, ELD, SED, TREE, LIV, VAN, ISLAND;









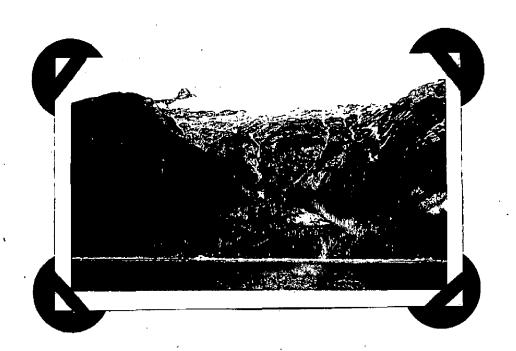


# LANDMARKS

Objects & Description Latitude D.M. Longitude D.P. Height Remarks

Large outcropping - 590 ol' 1390M 1350 ll' 798 M 390 Ft Probably Quartz.

Eldred RK. (Light) described in Light List.



CUARTZ, WEB, (MR Ratti 1921).SER, LACE (Mr Weber 1922). The plane table triangulation that I started on sheet, Register No 3853, I carried on to this sheet, tying it in at it's northern limit with signals SER and LACE. The following stations were located, Scan , die nav, via, he lie, an, thus.

The shore line was surveyed by traversing between stations

Due to the number of triangulation stations on both sides of

the canal I was able to check my position by three point fixes

and re sections, making no appreciable given between stations.

Submitted by Benjamin H Rigg. Jr. H&G. E.

Approved by

H.& G.E.

# ADDRESS THE DIRECTOR U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DRM

#### DEPARTMENT OF COMMERCE

#### U. S. COAST AND GEODETIC SURVEY

washington October 31, 1924.

### SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3982

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 two-thirds of the specified number of determined elevations.
- 3. The plan and extent of the survey satisfy the specific instructions.
- 4. The junctions with the adjoining surveys are satisfactory.
- 5. Eldred Rock Light and a large white rock are listed in the descriptive report as landmarks, but neither was shown or named on the sheet.
- 6. No further surveying is required within the limits of the sheet.
- 7. The character and scope of the surveying and field drafting are good.
- 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.

Remarks: