

4348

Form 504

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

G. & G. SURVEY
L. & A.
MAY 9 - 1929
Acc. No.

State: SE. Alaska

DESCRIPTIVE REPORT
Topographic } Sheet No. 4348
Hydrographic }

LOCALITY

San Alberto Bay
Head of Klawak Inlet.
Big Salt Lake

1927

CHIEF OF PARTY
H. A. Cotton

GOVERNMENT PRINTING OFFICE

4348

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. _____

(Field Letter "G")

BIG SALT LAKE

HEAD OF KILAWAK INLET

SAN ALBERTO BAY - ALASKA

May, 1927

Scale 1:10,000

AUTHORITY:

The topography was executed in accordance with Instructions of February 18, 1927 to the Commanding Officer of the Steamer EXPLORER.

LIMITS:

The survey extends from the south east end of BIG SALT LAKE to the head of the lake. The limits of the sheet are: Latitude $55^{\circ} 34'$ to $55^{\circ} 40'$, longitude $132^{\circ} 52'$ to $132^{\circ} 04'$. Junction is made with sheet "F" at stations (triangulation) "GRED" and "DAY".

CONTROL:

Control for the survey was furnished by triangulation of the party during the season. The method of carrying the scheme thru the entrances to the lake is described in the report on sheet "F".

ELEVATIONS:

Elevations are in feet above high water and were taken to the tops of the trees. A subplan which was made to form a junction with sheet "F" at the north west edge of this sheet was submitted with the report for sheet "F". The subplan shows the continuation of the form lines at that point.

METHODS:

The survey was made by the planetable and stadia method. Control was obtained generally by three point fix positions from triangulation stations and by planetable triangulation. Only a few very short traverse lines were run and these checked so as to require no adjustment.

DESCRIPTION OF COUNTRY:

Most of the shore line is composed of rock ledge except for those places along the north shore where there are grass flats as indicated on the sheet. Trees make down nearly to high water. The hills rise

abruptly from the water's edge along most of the south shore. Along the north shore the rise of the hills is gradual and in places the ground is comparatively level for some distance back from the beach.

The surrounding country is mountainous and heavily wooded. The lake lies in a valley between mountain ranges on the north and south. The range of mountains on the north side comes off the edge of this sheet, but part of that range is shown on sheet "F".

A description of the entrances to the lake is given in the report accompanying topographic sheet "F".

LOW WATER:

The range of the tide in the lake is only from about two to four feet and the low water areas are almost negligible except for the flats at the head of the lake which are shown on the sheet.

RECOVERABLE PLANETABLE POSITIONS

NAME & DESCRIPTION	LATITUDE & LONGITUDE	SECONDS in METERS	HEIGHT in FEET	REMARKS
HE--top of high water rock.	55° 37' 133° 00'	1811.0 67.0	2	Station is at the center of the com- paratively flat high water rock.
MAT--extreme end of rocky point.	55° 37' 132° 59'	1066.0 333.0	3	Station is on the end of the small rocky point at the south west end of the island.
NOR--extreme north end of the island.	55° 37' 132° 58'	1828.0 398.0	3	Station is on the end of the rocky point of the island.
BIG--largest boulder standing on the north point of the island	55° 37' 132° 58'	1420.0 169.0	4	The station is the top of the boulder at the extreme end of the point. The boulder is con- siderably larger than any immediately around it.
WHY--highest point of a high water rock.	55° 37' 132° 57'	982.0 55.0	2	Station is at the highest point of the largest of the high water rocks in this group.

STATISTICS

Statute miles shore line--high water	16.0
Statute miles of shore line--low water	4.0
Area square statute miles	9.0
Number of elevations	26
Number of recoverable stations: Triangulation	7
Planetable	5
Positions occupied	36

Examined, approved and forwarded.

Respectfully submitted.

Harold Cotton

HAROLD A. COTTON,
Hyd. & Geo. Engineer,
C. & G. Survey,
Commanding S. S. EXPLORER.

B. G. Jones
B. G. Jones,
Jr. Hyd. & Geo. Eng'r.,
C. & G. Survey.

*Inspected & found adequate, the only criticism
being that in 8 instances one more formline was
shown than the elevation called for.*

E. P. Ellis, July, 1928

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REG. NO.

4348

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "G"

REGISTER NO. 4348

State SE ALASKA

General locality SOUTH EAST ALASKA San Alberto Bay

Locality SAN ALBERTO BAY HEAD OF KILAWAK INLET, Big Salt Lake

Scale 1:10,000 Date of survey May, 1927.

Vessel Steamer EXPLORER

Chief of Party Harold A. Cotton

Surveyed by B. G. Jones

Inked by B. G. Jones

Heights in feet above h. w. ~~to ground~~ to tops of trees

~~Contour interval~~ Form line interval 100 feet

Instructions dated February 18, 1927.

Remarks: