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

U. S. S. Y
MAR 25 1930
Acc. No.

State: Alaska

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. "E" ⁴⁴⁸⁷ 4487

LOCALITY:

Taku Inlet, S. E. Alaska

Circle Pt. to Cooper Pt.

U.S.C. & G.S.S. EXPLORER.

1929

CHIEF OF PARTY:

E. W. Eickelberg, H. & G. Engr.

4487

Applied to New Compilation of Chart 8235 12/26/39 Chas. A. Busby Jr.

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "E"

MOUTH OF TAKU INLET, S. E. ALASKA.

AUTHORITY: Director's instructions of
February 19, 1929. E. W. Eickelberg, Chief of Party.

EXTENT: This sheet includes a survey of the shoreline and location of signals on the west side of the mouth of Taku Inlet from Bishop Point, Latitude $58^{\circ} 12'$ and Longitude $134^{\circ} 10'$, to Cooper Point, Latitude $58^{\circ} 14'$ and Longitude $134^{\circ} 06'$, and the east side of the same inlet from Latitude $58^{\circ} 12'$ and Longitude $134^{\circ} 05'$, to Circle Point, Latitude $58^{\circ} 08'$ and Longitude $134^{\circ} 05'$.

The survey was made for the purpose of determining the most practicable location for a cable crossing between Bishop Point and the east entrance point to Taku Inlet. Only shoreline and signals were located.

GENERAL DESCRIPTION: The shoreline shown on this sheet is composed of rocky bluffs which rise abruptly from the water's edge. The high and low water lines are practically the same except for the short stretch of shoreline in the vicinity of station LAST and the low water line shown at the mouth of Slocum Inlet. The heights of the bluffs range from 10 feet to about 60 feet. The area back of the shoreline is heavily wooded, being covered mostly with spruce trees which grow down to the water's edge all along the shore.

SURVEY METHODS: The nine triangulation stations shown furnished control for this survey. All of these stations were built and located by the party of Lieutenant W. M. Scaife, except triangulation station CIRCLE, which was recovered and rebuilt by Lieutenant (j.g.) J. C. Partington.

The topography was accomplished by the usual plane table methods and all the work was done in accordance with the Topographic Manual, Special Publication No. 144.

A traverse was run from triangulation station BISHOP to topographic station LAST, and closed back to BISHOP with an error of two meters which was adjusted.

A traverse was run from triangulation station HARD to triangulation station ODD₂ with an error of three meters which was adjusted.

The shoreline north of triangulation station MAN₂ was located by a traverse and checked back to MAN₂ with no error, so that no adjustment was necessary. The traverse from TAP₂ to SLOCUM was closed with an error of 2 meters which was adjusted.

A traverse was run from SLOCUM to CIRCLE closing with an error of 3 meters which was adjusted.

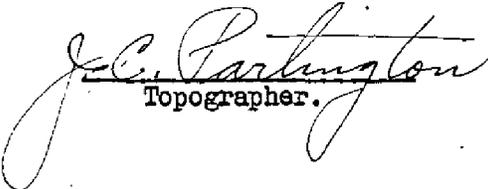
All traverses were run by sighting on the turning points ahead and orienting by back-sighting on the previous turning point.

Magnetic declination with declinatoire No. 110, was observed at triangulation stations HARD and SLOCUM. The index correction for this declinatoire was found to be plus 0° 10.8' from comparison with declinometer No. 12 at station FAST, topographic sheet "F", and station DEVIL, topographic sheet "G".

No form lines or elevations were determined because it was not considered necessary in connection with the purpose of this survey.

Miles of shoreline = 11.8.

Respectfully submitted,


Topographer.

Approved and forwarded,


Chief of Party.

STATISTICS TO ACCOMPANY TOPOGRAPHIC SHEET "E"

TAKU INLET, S. E. ALASKA

Area surveyed in square statute miles.....	=	0.0
Length of detailed shoreline in statute miles...	=	11.8
Length of shoreline of rivers in statute miles..	=	0.0
Length of shoreline of creeks in statute miles..	=	0.0
Length of shoreline of ponds in statute miles...	=	0.0
Length of roads in statute miles.....	=	0.0

Scale of Sheet "E" = 1:10,000

APPROVAL SHEET FOR TOPOGRAPHIC SHEET "E", TAKU INLET, S. E. ALASKA.

The purpose of this sheet was to furnish control for the hydrographic examination of several selected locations for a landing place of a submarine power cable. No contours and other details unnecessary for the purpose of the survey were done.

No data of previous surveys was on hand so that comparisons for disagreement could not be made.

It is noted however, that the declinoire reading at triangulation station SLOCUM 1917, is 5 degrees different from that at triangulation station HARD. This was not noted by the survey party before it left Juneau and no verification thereof was made.



E. W. Eickelberg,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

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Form 537a
11-5813

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4487

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. "E"

REGISTER NO. 4487

State Alaska

General locality Taku Inlet

Locality Circle Pt. to Cooper Pt.
~~Mouth of Taku Inlet~~

Scale 1:10,000 Date of survey July, 1929

Vessel U.S.C. & G.S.S. Explorer

Chief of Party E.W. Eickelberg

Surveyed by J.C. Partington

Inked by J.C. Partington

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated February 19, 1929

Remarks:

LIST OF PLANETABLE POSITIONS

TOPOGRAPHIC SHEET "E"

STATION	LAT.	D.M.	LONG	D.P.	REMARKS
LAST	58° 12'	(1054) 802	134° 09'	(218) 762	Whitewash
NO	58 12	(1176) 680	134 09	(563) 417	"
BY	58 12	(1199) 657	134 09	(726) 254	"
IF	58 12	(1371) 485	134 09	(954) 126	"
SIG	58 12	(1581) 275	134 09	(930) 50	"
NAL	58 12	(1686) 169	134 08	(31) (949)	
BIN	58 12	(1536) 320	134 08	(242) 738	
BAY	58 12	(1449) 407	134 08	(118) 862	Whitewash on tree trunk.
ROCK	58 12	(1290) 566	134 08	(212) 768	Whitewash.
WHITE	58 12	(1150) 706	134 08	(163) 817	"
WASH	58 12	(1067) 789	134 08	(226) 754	"
FOR	58 10	(749) 1107	134 05	(872) 109	
GREY	58 10	(1708) 48	134 04	(360) 621	
SET	58 09	(740) 1116	134 04	(320) 662	
DAN	58 09	(1230) 626	134 04	(358) 624	½" iron pipe.
MARK	58 09	(1594) 263	134 04	(408) 574	U.S.C. & G.S. Hydro. Mark in white rock.
DECK	58 08	(31) 1825	134 04	(467) 515	Whitewash.

STATION	LAT.	D.M.	LONG.	D.P.	REMARKS
DEN	58° 08'	(675) 1181	134° 04'	(527) 455	$\frac{1}{2}$ inch iron pipe.
DIN	58 08	(1171) 685	134 04	(767) 214	$\frac{1}{2}$ inch iron pipe.
CLO	58 08	(1256) 600	134 04	842 140	Whitewash.
SLO	58 08	(1554) 302	134 03	(185) 797	"
LEF	58 07	(457) 1399	134 03	(144) 838	"
IN	58 07	(387) 1469	134 04	(933) 49	"
CUM	58 07	(313) 1543	134 04	(579) 403	"