4717 4718
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

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State: Alaska

DESCRIPTIVE REPORT

Topographic | Sheet No. A & B 4717 4718 4719
~~Hydrographic~~

LOCALITY

Behm Canal
Kah Shakes Cove
~~Peggy Pt.~~, to Tramp Pt.

1932

CHIEF OF PARTY

G. C. Jones

U. S. GOVERNMENT PRINTING OFFICE: 1931

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DESCRIPTIVE REPORT

TO ACCOMPANY FORM LINE SHEETS "A" AND "B"

SEASON OF 1932.

G. C. JONES, CHIEF OF PARTY.

DESCRIPTIVE REPORT

TO ACCOMPANY, FORM LINE SHEETS, "A" AND "B", 1932.

INSTRUCTIONS:

This work was executed in accordance with the Director's Instructions dated March 24, 1932.

FIELD SHEETS:

In addition to the regular topographic sheets for the seasons work, three sheets for form line work only were used:- "A - West", "A- East", and "B".

LIMITS OF SHEETS:

SHEET "A - WEST", extends along the West side of Behm Canal from Tramp Point to the Southern end of Princess Bay. The topography and hydrography for this area were completed during the season of 1931. T.4719

SHEET "A - EAST", extends along the East shore of Behm Canal from the Southern side of Rudyerd Bay to Point Trollop; thence along the North shore of Smeaton Bay to the entrance of Wilson Arm. The topography and hydrography for this area were also completed in 1931. T.4718

SHEET "B", extends along the South shore of Smeaton Bay, from the entrance of Wilson Arm, to Point Nelson; thence along the East shore of Behm Canal to Point Sykes; thence along the East shore of Revillagigedo Channel to Kah Shakes Cove. The topography and hydrography for the area between Wilson Arm and Point Nelson were completed in 1931. T.4717.

METHODS OF SURVEY:

The form line interval on all sheets is one hundred feet.

SHEET "A - WEST", was done entirely from the ship by means of the sextant.

SHEET "A - EAST", was done entirely by planetable and alidade.

SHEET "B", was done entirely from the ship by means of the sextant with the exception of a few peaks located by triangulation.

DISCREPANCIES:

All three sheets were compared with charts, aerial photographs, and Geological Survey maps.

SHEET "A - WEST" - The form lines on this sheet agree favorably with the contours on the Geolofical Survey map. The lakes as shown on the aerial photographs of this area agree satisfactorily. T.4719

The elevation of 2970 feet in Latitude 55°30' - 536 meters, Longitude 131°08' - 668 meters was located by only two cuts. The two cuts were very definite and the elevations agreed within fifty feet. The mean value is plotted. Other peaks were located and elevations obtained by three or more cuts.

SHEET "A - EAST" - There are no Geological contour maps nor aerial photographs for the area covered by this sheet. There are two elevations believed to have been determined by the triangulation of J. M. Smook, in 1929, which plot on the sheet but which could not be checked in the field. The location of these elevations are as follows:- T.4718

4463 feet	Latitude 55°24' - 680 m. Long. 130°45' - 1000 m.
2636 feet	Latitude 55°20' - 640 m. Long. 130°48' - 400 m.

Since several checks on these peaks were taken with the alidade, it is recommended that the elevations as shown on the sheet be charted.

SHEET "B" - On Chart 8075, Backbone Mountain, approximate position, Latitude 55°10', Longitude 131°00', is shown as having an elevation of 3620 feet. Through careful investigation it was determined that there is no hill of such elevation in that vicinity. The four elevations to the Northeastward of Behm Mountain could not be checked in either position or elevation, and it is recommended that they be removed from the chart. Other peaks included in the area covered check well in position with slight discrepancies in elevation. In the case of North Quadra Mountain, it is evident that in the previous survey the highest part was not located. T.4717

There appears to be a valley extending across the peninsula to Boca de Quadra, from the entrance to Smeaton Bay. The beginning of this valley is shown on the sheet.

Immediately Northeast of the Behm Mountain Ridge, there is a low pass extending well across the peninsula toward Boca de Quadra.

There is also a passage of low elevation extending well into the peninsula between the hills North of Quadra Mountain.

VEGETATION:

In general the hills are heavily wooded from the shoreline up to an elevation of approximately two thousand feet. Above this the hills are sparsely wooded or bare rock.

Respectfully submitted,

Henry E. Finnegan,
H. & G. Engr.,
U.S.C. & G.S.S. EXPLORER.

APPROVED AND FORWARDED:

G. C. Jones,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

REVIEW OF TOPOGRAPHIC SURVEY No. 4719 (Formline sheet)

Title (Par. 56) Rudyerd I. to Tramp Pt. Behm Canal, Alaska

Chief of Party G. C. Jones Surveyed by ~~H. C. Pinnegar~~ G. C. Jones Inked by R. C. Rowse

Ship Explorer Instructions dated March 24, 1932 Surveyed in June-July 1932

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
Projection and signals not verified. Reference station not placed at bottom of sheet.

2. The character and scope of the survey satisfy the instructions. ✓

3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
Sextant determination of locations and elevations were used for formlines.

4. The amount of vertical control that the Manual specifies for ~~-contours-~~ formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓

5. The delineation of ~~-contours-~~ formlines- is satisfactory. (Par. 49, 50.) ✓
Elevation 1120 and adjacent formlines at head of Princess Bay have been revised to conform to Geological Survey aero photos.

6. ~~There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.)~~

7. ~~High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)~~

8. ~~The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)~~

9. ~~Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)~~

10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~

11. Locations and elevations of summits are given. (Par. 19, 51.) ✓

12. The tree line was not shown on mountains. (Par. 16g.)
Desc. Report states approx. 2000 feet elevation is the tree line.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. ~~The~~ Not descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.)

16. No list of landmarks for charts was furnished on Form 567. (Par. 16d, e, 60.)

17. ~~The~~ No magnetic meridian was shown and declination was not checked. (Par. 17, 52.) No planetable work on this sheet

18. The geographic datum of the sheet is North American 1927 and the reference station is ~~correctly~~ not noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate. ✓
No formlines to northward

20. Geographic names are shown on the sheet. ~~and are covered by the descriptive report.~~ (Par. 64, 66k.) ✓

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓

22. No additional surveying is recommended. ✓

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

Reviewed in office by R. F. Christman, April 18, 1933

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography and Topography

(NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual.)

Form 537a
11—5813

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
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MAR 17 1933
No.

REG. NO. 4717

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. "B"

REGISTER NO. 4717

State ~~XXXX~~ Alaska

General locality Behm Canal

Locality Kah Shakes Cove to Smeaton Bay

Scale 1:40,000 Date of survey July, Aug. & Oct., 192 32.

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

Chief of Party G. C. Jones

Surveyed by G. C. Jones & Henry E. Finnegan

Inked by Roger C. Rowse.

Heights in feet above M.H.W. to ground ~~xxxtopsxofxtrees~~

~~xContourxxApproximatexcontourx~~ Form line interval 100 feet

Instructions dated March 24, 192 32.

Remarks:

GPO

Form 537a
11—5813

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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REG. NO. 4718

FORM LINE ~~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. "A - East"

REGISTER NO. 4718

State ~~XXXX~~ Alaska

General locality Behm Canal

Locality Smeaton Bay to Pt. Louise

Scale 1:40,000 Date of survey June & July, 1932.

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

Chief of Party G. C. Jones

Surveyed by Henry E. Finnegan and G. C. Mast

Inked by Roger C. Rowse

Heights in feet above M.H.W. to ground ~~xxxxxxxxxxxxxxxx~~

~~Contour xxApproximate contour~~, Form line interval 100 feet

Instructions dated March 24, 1932.

Remarks:

GPO

Form 537a
11—5813

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REG. NO. 4719

~~TOPOGRAPHIC~~ FORM LINE 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. "A - West"

REGISTER NO. 4719

State ~~XXXX.~~ Alaska

General locality Behm Canal

Locality ~~XXXXXXXXXX~~ Rudyerd I., to Tramp Point

Scale 1:40,000 Date of survey June-July, 19~~2~~ 32.

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

Chief of Party G. C. Jones

Surveyed by G. C. Jones, and Henry E. Finnegan

Inked by Roger C. Rowse

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~Contour, Approximate contour~~, Form line interval 100 feet

Instructions dated March 24, 19~~2~~ 32.

Remarks:

GPO

Applied to drawing (compilation) of reconstructed
Chart № 8075 ..... S.B.M. Sept. 1934

Applied to drawing of Chart № 8102 ..... S.B.M. Sept. 1934

" " " " " " 8002 ..... S.B.M. " "