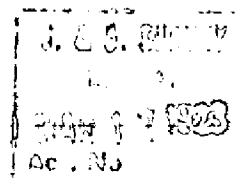


4010



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| Form 504 |
| DEPARTMENT OF COMMERCE |
| U. S. COAST AND GEODETIC SURVEY |
| Territory of <u>State: Alaska</u> |
| 11-5013 |
| DESCRIPTIVE REPORT. |
| Topographic Sheet No. <u>"D" 4010</u> |
| LOCALITY: |
| <u>Icy Bay</u> |
| <u>and</u> |
| <u>Robinson Mountains</u> |
| <u>North Shore</u> |
| <u>1922</u> |
| CHIEF OF PARTY: |
| <u>H. B. Campbell</u> |

Note
[see 4003, 4004, 4005 for other work done by
same party]

DESCRIPTIVE REPORT
TOPOGRAPHIC SHEET "D"

4010

ICY BAY, ALASKA.

1922

Launch "WILDCAT"

M. Leff, Aid, Topographer.

By H. B. Campbell, H. and G. E., in charge.

Descriptive Report on Sheet "D."

Topographic sheet "D", scale 1:40000, was laid out to show the form lines of the Robinson Mountains. Time did not permit this work to be more than started. M. Leff, Aid, did the work on this sheet.

I cannot even make a good approximation of the form lines so I have put none on the sheet.

I have sketched on the approximate limits of the West edge of the glacier which should show on the chart. To the West of the ice the Mountains rise steeply, as can be seen in some of the prints. North of the beach between Bear and Goat on topographic sheet "C" is a line of hachuring which indicates the position of the bases of these mountains. From this line of hachuring the mountains rise steeply.

At Δ Goat the base of this range trends to the Northwest and the hundred foot contour on sheet "C" is at their base. This hundred foot contour is located on the side of a bench forming the base of the range. North of the bench the mountains are very irregular, and the formation is quite broken.

By referring to Mr. Baldwin's blue print the position of this bench can be determined farther to the West. In this locality, that is farther to the West, the formation behind the bench is irregular ~~and the mountains~~ and the main ridge of the mountains lies behind an extremely rugged and broken up country which generally increases in elevation from the benches.

As stated before Mr. Leff did all the work that was done on this sheet and if he is available in the office, he might be able to approximate the form lines.

Respectfully submitted,

Feb. 16 - 1923

H. B. Campbell

H. B. Campbell,

H. and G. Engineer.

April 13, 1923.

DESCRIPTIVE REPORT

Topographic Sheet No. ~~4005~~.

4010

The projection on this sheet was penciled in the field and verified and inked by me in the office. The shore-line was transferred from topographic sheets #4003, #4004 and #4005 and does not represent work as done on this sheet in the field. The contouring of Robinson Mountains and the Glacier was done in the office from the following sources: 1-4 incl.

1. Triangulation stations were plotted on the sheet in the field and those on the east shore together with Δ . Dock were occupied as plane table positions. Prominent points on the glacier which were not located on the other sheets, accompanying this survey, were cut in and only well defined points on Robinson Hills were resected on so as to avoid hopeless confusion.

2. The bench skirting the base of the foothills of Robinson Range was transferred from sheets (1:10,000) showing original work on west shore of Icy Bay.

3. Triangulation stations on east shore were also occupied with Theodolite and vertical angles observed. The positions computed were plotted and verified with plane-table locations.

4. Photographic prints were of some assistance.

5. The long continuous ridge of mountains visible in the vicinity of Icy Bay extend as the Robinson Range from \odot Tongue on the east to Yakutat on the west in a general westerly direction.

6. The heights increase from the east to an elevation of six thousand feet and gradually decrease to westward. This was the highest elevation attained although it is not altogether improbable that elevations above this exist behind the range fronting the sea, that were invisible from stations occupied. A secondary range of apparent higher altitude appeared to us in the Launch in the run to Yakutat which inclines me to believe that greater elevations might exist. Those peaks that have been determined are not in any way characteristic and furthermore were only located from one general direction.

4610

2 - Topo. Sheet No. ~~4610~~.

7. There are many points even from this same direction that have not been observed for purposes of simplifying observations and computations. Those points that have been observed were selected for their apparent higher altitude as well as prominence, more particularly the former. In all cases, the hill tops are bare of vegetation and ^{with} reference to those ranging above 4000 feet, were attended by a covering of snow in places not unlike miniature glaciers.

8. The hills are extremely rugged in all directions from the tops. No attempt has been made to show this condition on the sheet. No general rule lends itself to the vegetable life on the west shore. Timber line may variously be estimated at not much more than 1500 feet high. A heavy growth of alders and bushes extends over the bench verging into the timber line with ascending altitudes. Above the timber line is a growth of grass, ^{moss} ^{and} ^{bushes} ranging, I should judge, not in excess of 50 % of the altitude of the hill tops. An irregular line marks this growth and higher up the hills are devoid of all vegetable life rising abruptly to their full height displaying a very rugged range of stratified rock formation visible to the naked eye afar.

M. Leff

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

D 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. ~~4006~~ 4010

~~State Territory of Alaska~~

General locality . . . Icy Bay

Locality . . . ~~Robinson Hills~~ North Shore

Chief of party . . H. B. Campbell, H. & G. Engr.

Surveyed by . . . M. Leff

Date of survey . . . Sept 18-19, 1912

Scale . . . 1/40,000

Heights in feet above . H.W.

Contour interval 500 feet.

Inked by . M. Leff. . . Lettered by M. Leff.

Records accompanying sheet (check those forwarded): Photographs (Contained in Desc. Report 4003 and Season's Report)
Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet One Blue Print of Survey by Asa Baldwin
and descriptive report accompanying blue print

Remarks:

Contours on glacier in 100 ft intervals and also at base of Robinson Hills up to 500 ft. above 500 ft. except on glacier, contour interval 500 ft.

all shore-line transferred from sheets 4003, 4004 & 4005.