Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey Topographic
Field No. Office No.
LOCALITY
State
General locality
Locality
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DATE





U. S. COAST AND GEODETIC SURVEY.

Gen. W. W. Duffield, Superintendent.

State: Haska.

DESCRIPTIVE REPORT.

Topographie sheet No. 2182.

LOCALITY

John River.

below Boundary

18**93**.

CHIEF OF PARTY:

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JUN. 8.1894. 007339

U. S. Coast and Geodetic Survey Office,

Washington, D. C.,

Ourtwas 573,

June 8th, 1394.

Dr. T. C. Mendenhall,

: Superintendent,

U. S. Coast and Geodetic Survey.

Sir: --

I respectfully submit the following descriptive report on the topographic sketch of the Taku River, Alaska, executed by me in the summer of 1893:

This sketch covers about one hundred and eighty square miles, and represents the general contour of the mountains and the approximate limits of the bottom land as seen and sketched from the banks of the river or the numerous sand bars.

The sketch was made on the plane-table, but is not of sufficient accuracy to be called a survey, except that portion that delineates the actual shore line of the river, as it was only practicable to occupy the river banks, cut in the mountains peaks and a few other prominent objects on the mountains, and then sketch in the form. Moreover, the work occupied only seven days time, and the distances were so great, that but few elevations

could be computed until after the completion of the sketch. It had, therefore, to make the sketch show relative forms and slopes which were subsequently converted into contours.

The greatest elevation determined is about seven thousand one hundred feet, on the Sittaknay River -- what I have called Sittaknay Mountain. Near the mouth of the river the hills are from two thousand five hundred to three thousand five hundred feet high, but as we recede from the coast they reach a greater elevation. From my camp just above the boundary, looking up the valley of the Taltakay, I estimated that some of the mountains vizible would reach ten thousand feet, and were probably fifteen or twenty miles distant, but I was unable to determine them.

The river bottom has an average width of two or three miles, and has been filled in with the detritus coming down from the river and from the glaciers. The sheet shows a number of extended arms of the main valley; two of them are still occupied by glaciers. There is little doubt in my mind that this whole region was at one time glaciated. All the mountains, especially for a height of one thousand to fifteen hundred feet above the water, show unmistakable evidences of this fact. To some extent these glaciated forms are delineated in the sketch. The mountains are all granite, the upper portions bare, and the peaks, although

sometimes pointed, frequently assume fantastic shapes, and present pinnacles, steeples, etc. The bottom lands are quite densely wooded, except the moraines in front of the glaciers; the growth being principally cotton-wood with some spruce. The hill sides are generally wooded to the height of two thousand feet with spruce and similar growth. The only navigation on the river at the present time is with cances; the bars at the mouth are so shallow that it is with difficulty that even a cance can pass up at low water. It is quite possible, however, that a small flat-bottom steamer passing into the river at high tide would be able to ascend some distance above the limits represented on the sketch.

About one and one-half miles above where my work left off there is a considerable affluent known as the Taltakay.

It is reported to have its source in a large glacier.

The Indians describe the region to the north and west-ward of the Taku to be an immense ice-field, in which the Twin Glacier, Foster Glacier, the Mendenhall Glacier, and the one at the head of the Taltakay, have their origin.

Through the kindness of the Office, this sketch has been inked by Mr. P. von Erichsen and is now in the hands of the Drawing Division for lettering, and although I am not able offi-

cially to transmit it to you, it is available for any work of reduction that may be required.

Respectfully yours,

Herry G. Dynie

U. S. Coast and Geodetic Survey.

Washington, D. C.,_

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Descriptive Report of Topographical Shelete of the Toku Rinir - alaska no 2182

The sheet Embrees The Rome talley from the Julet is notion a mule of the munito of the Tallahay Rue - The first counderste straw flowing cuto The Take from the north or west- wi are about 22 miles of River, and the mountains on Ester lede mille from the and bollow-The rally of the non is about three unles wide. It is low a nich the Exception of the areas at the foot of the Elociers, is deady norded with Collowood, wellow & sown your sto. The mountains on cetter hand an prototy grante. The forests rarely extend to a keight on the stopes of num than 2000ft - The tops an mostly aloop o me defined; the lower Herobous how here worn 6 rounded of the ece. Alm 5000 ft is opposent perpetual snow societ when the slopes are too sleep to permit The snow to mucin, The mountain sides

how here could a funded of the morning sa we the culumi part, but prout to day one of the grandest studies of glacial work. The Joni locur on the left bouck -& hught Elacin on The bout tout, mere brosed on the sheet for served under until lost in The herrs of the racceys or the pupiliol fulls of see - lusp Elacur, former an orm of hugh block, is most setuiet. but a small point of the see remains in the salley, will up at an chroban' of about 1600 fot - most houtifully formed moraues, served weles in lugth, are malle on Either side of the valley. and the salley seems whom here felled below If the leminal moraine hueding up and Somothing the Vollow, until now is privates the appearance of a spoon with the point of ice gradually nauding up the handle. The remains of glaciers o numerous moraines are sentle from the own banks, generally of eneale steat, but promuling most prote a entenshing demoustration of the formabou of moracues.

The sheet is only a shetch showing the general forms, there was not true to suprement details of form. Noch separans cliffs, or the accidents generally, with a few prominent seceptions, how there omitted, has may be clearly emogned from the form from to the contours. The general stevotion is naround, mee defined, (see repres of methody) the figures giving heights are protoss within 2% of their time value.

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Transportation to the field of labors, would
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All communications should be forwarded under cover to the "Superintendent U.S.

COPY Coast and Geodelie Survey, Washington, D. C."

Treasury Jepartment, Office of the Coast and Geodetic Survey,

Mashington, P. C.,

December 5th, 1899.

Sir:

In reply to your inquiry of the 27th ultimo, I respectfully state that I do not recall a special report on topographic sheet No. 2182, Taku River, below the Boundary.

I think that a reference to my report on this Survey will furnish all the information that it requisite.

Yours respectfully,

(Signed) Herbert G. Ogden.

Inspector of Hydrography and Topography.

To The Superintendent,

Coast and Geodetic Survey.