

3801

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

State: *S. W. Alaska*

11-5613

DESCRIPTIVE REPORT.

Topo Sheet No. *3801*

LOCALITY:

Alaska Peninsula
North Entrance to
Kialagvik Bay

1920

CHIEF OF PARTY:

F. H. Hardy

DESCRIPTIVE REPORT.
To accompany Hydrographic Sheet No. 3801

In accordance with your instructions dated August 23, 1920, a topographic survey was made of the North entrance to Kialagvik Bay by a party from the Str. SURVEYOR.

LIMITS. The finished topography begins at a large stream about $3/4$ mile South of Coal Pt. (there is a new shack about 100 yards from the beach at this stream). From this point the topography extends North along the mainland shore to the Easterly entrance of a small bay at the extreme North end of Kialagvik Bay. The group of small islands, six in number, lying about $1\ 1/2$ miles East of Coal Point were finished and several cuts at tangents of other islands and points were taken and used in sketching.

CONTROL. Triangulation had not been carried down to this point and control was not available. A magnetic meridian was placed on the sheet.

METHOD. Owing to the lack of control, a projection was not used. The plane table was set up at \odot SET, on one of the off-lying islands and a 1:20000 scale was adopted. The group of islands surrounding \odot SET was run in with the plane table and at each set-up cuts were taken to all prominent features. The table was then set up at \odot COAL, which had been located and the shoreline was run in for about $3/4$ mile to the Southward. This far the work may be considered a finished job.

As frequent rain squalls and strong Westerly winds had made plane-tabling slow and difficult, it was decided to use a sextant. The shoreline from Coal Point, Northward to Flag 3 and around to the Eastern entrance to the bight in the North of Kialagvik Bay was done by a sextant and is not a finished job.

The stations were not permanently marked owing to the temporary character of the work. However many of the stations, such as pinnacles and off-lying rocks can be easily distinguished from the Description of Stations.

GENERAL DESCRIPTION. The shoreline of the off-lying islands is in general formed by precipitous cliffs from thirty to fifty feet high. The water between the islands is very shoal. The mainland shore from Coal Pt. to Flag 3 is hard sand with cliffs a little way back from shore and rocks bare a hundred yards or more off shore at low tide, especially at the points. From Flag 3 to the Northerly end of the beach the shoreline is sandy with occasional sand dunes, twenty to thirty feet high, and in places is marshy. The Northerly shore of Kialagvik Bay is a precipitous gray cliff.

UNFINISHED. The best place to take up the topography would be at \odot COAL. This station should be recoverable and it sees both Δ BECHAROF and Δ IGVAK, affording control by triangulation. From here topography could be carried in both a Northerly and a Southerly direction and signals on the unsurveyed off-lying

islands could be located.

NAMES. Kialagvik Bay is known locally as Wide Bay. Coal Point is the local name for the most prominent point on the West side of Kialagvik Bay.

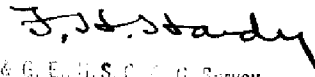
Respectfully Submitted.



E. F. Lewis.
Jr. H. & G. Eng.
USS. SURVEYOR.

To the Director
Through F. L. Hardy
Commdg. Str. SURVEYOR.

Forwarded:



H. & G. Eng. U. S. C. & G. Survey.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

December 22, 1920.

SECTION OF FIELD RECORDS.

Report on Topographic Sheet 3801. Surveyed in 1920.
Chief of Party: F. H. Hardy. Surveyed by I. M. Dailey and
E. F. Lewis.
Inked and lettered by E. F. Lewis.

1. The shoreline from Coal Pt. to three-fourths mile southward of same and the group of islands southeast of Coal Pt. may be considered an adequate survey. The balance of the survey is a reconnaissance only, and should be re-surveyed when opportunity offers. See descriptive report.
2. With the limitations noted, the survey may be considered as complying with the General and specific instructions.
3. The field drafting is good.
4. Reviewed by E. P. Ellis, December 18, 1920.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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. 3801

State S.W. Alaska

General locality Alaska Peninsula

Locality North Entrance to Kialagvik (Kila) Bay

Chief of party F.H. Hardy

Surveyed by I.M. Disley and E.F. Lewis

Date of survey September 1920

Scale 1:20,000

Heights in feet above

Contour interval feet.

Inked by E.F. Lewis . Lettered by E.F. Lewis

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: Some of the shoreline on this sheet was located by use of a sextant. This is brought out in the Descriptive Report.