

6718

U. S. COAST & GEODETIC SURVEY
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Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. J-39 T-6718
State ALASKA	
LOCALITY UNALASKA ISLAND KULILIAK BAY	
1939	
CHIEF OF PARTY Ray L. Schoppe H. & G. E.	

U. S. GOVERNMENT PRINTING OFFICE: 1934

DECLASSIFICATION BY NOAA

PURSUANT TO DOC SYSTEMATIC REVIEW

GUIDELINES AS DESCRIBED IN SECTION

3.3 (a), EXECUTIVE ORDER 12356

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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.

Project HT-218

Field No. J-39

T6713

REGISTER NO. T-6718

State ALASKA - ALEUTIAN ISLANDS

General locality UNALASKA ISLAND

Locality Vicinity of KULILIAX BAY

Scale 1:10,000 Date of survey AUGUST, 1939

Vessel U.S.C. & G.S. Str. SURVEYOR

Chief of party Ray L. Schoppa

Surveyed by J.C. Partington

Inked by J.C. Partington

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

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

DIRECTOR'S RADIOGRAM

Instructions dated July 10, 1939

Remarks: _____

DESCRIPTIVE REPORT

to accompany

Topographic Sheet Field No. J-39 Register No. T-6718

KULILIAK BAY, UNALASKA ISLAND, ALASKA

U.S.C. & G.S.S. SURVEYOR

RAY L. SCHOPPE Com'd'g'

INSTRUCTIONS:

This survey was done in accordance with the Director's telegram of July 10, 1939. The purpose of the survey was to determine the volume of the lagoon areas as a measure of the fill required to convert them into landing fields.

EXTENT:

This sheet together with sheet ^{T-6717} K-39 covers the valley of Unalaska Id. from Kuliliak Bay on the Pacific Ocean side to Kashega Bay on the Bering Sea side. This valley is approximately 4 miles long and one mile wide. The floor of the valley is covered with fresh water lagoons which are fed by small streams. The sides of the valley are bounded by high hills. The entire area is covered with grass.

CONTROL:

Control for this sheet consist of second and third order triangulation executed in 1935 and 1937.

The following triangulation stations shown on the sheet were not used in this survey:

Kuli, 1935
Diwide, 1935

Kail 1935
Kuliak 1935

Triangulation stations N.W. Base 1937, Kuliliak Bay S.E. Base 1937, and Kash 1935 were recovered and signals were erected over each. The signal at station Kiluk 1935 was still standing at the time of this survey. Although the station was not visited, the position was verified by plane table cuts. Station Gab 1935 is a gable of a shack.

The control on this sheet is well distributed and was ample for rigidly controlling the topography.

SURVEY METHODS:

The sheet was done entirely by plane table methods.

The elevations of triangulation stations and peaks were determined by vertical angles. Three or more cuts and vertical angles were obtained to peaks and the mean elevation of a peak seldom differed by more than 5 ft. from an individual determination.

Elevations in the valleys and on slopes were obtained by stadia and vertical angles from strongly determined three point fixes. This was done from plane table set-ups on commanding sites.

Signals were located by three or more cuts from triangulation stations or strong three point fixes or by two or more cuts and a stadia distance. The shore line of lagoons and streams were delineated by stadia.

Since three point fixes were readily obtained in the area of this survey no traverses were run.

MATERIAL:

Since the survey party was not equipped to take borings, no definite information could be obtained concerning the character of sub surface material. The entire is thickly covered with grass except for a few rocky out-cropping peaks. In sounding the lagoons a special snapper type of specimen cup was used and the bottom was mostly composed of sand and gravel with occasional rock.

The shoreline of the lagoons is mostly rocky with few stretches of sand beach. It appears doubtful as to whether this material could be sluiced into the lagoons.

COMPARISON WITH PREVIOUS SURVEYS:

The shoreline of Kuliliak Bay shown on this sheet in pencil was traced from the topographic sheet of this area surveyed by Lieut. (J.G.) J. C. Tison in 1937. T-6600 (1937)

The form lines shown in pencil on this sheet south of latitude $53^{\circ} 27'$ were traced from topographic sheet T-6640. A satisfactory junction was made with the form lines on T-6640.

In the vicinity of Latitude $53^{\circ} 28.5'$ Longitude $167^{\circ} 03.5'$ it was found that the form lines on this sheet differed considerably with the previous topographic sheet. It is believed that the form lines on the previous sheet were sketched from the photographs and are shown on the photographic map of this area. Numerous elevations in this valley were obtained on this sheet. It is recommended that the form lines on this survey be used in preference to those on the previous sheet since it is believed that enough elevations were determined to prove the former survey to be in error in this vicinity.

See
review.

^{T-6717}
COMPARISON WITH SHEET K-39:

^{T-6717} ^{T-6718}
Sheets K-39 and J-39 were surveyed at the same time using adjoining control. The junction was compared and found to be exact.

NAMES:

The only names shown on this survey are Unalaska Island and Kuliliak Bay. These are taken from Chart 8802.

No new names were added and no other geographic names are known to exist.

RECOVERABLE OBJECTS:

All the topographic signals located on this sheet were temporary banners for use in hydrography. None of the signals is recoverable.

TRIANGULATION RECOVERY:

Recovery cards form No. 526 for triangulation stations in this area are attached. ^{Forwarded to Div. of Geodesy.}

MAGNETIC STATIONS:

Magnetic meridians were observed at two triangulation stations on this sheet with declinatoire No. 232. This declinatoire was sent to the Washington office before comparison at a standard magnetic station. Its index correction, however, can be obtained from a field comparison with declinometer No. H-16 at triangulation stations Ama 1938 and Samalga 1938. See descriptive report for topographic sheet T-6710. ^{Index corr. at beginning of season was +0°41.5'. This agrees with results at Ama and Samalga. Declination normal.}

STATISTICS:

Statute miles of shoreline-----	7.3
" " " streams-----	4.0
Square statute miles of area-----	6.0

Respectfully submitted

J. C. Partington
J. C. Partington
Jr. H. & G. E.
Topographer

Examined and approved

Ray L. Schopf
RAY L. SCHOPF
H. & G. E.
Chief of Party.

Remarks.

Decisions

1		USGB
2		530670
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9	The valley between Kuliliak and Kashega Bays (see also T6717) may eventually be named. No action taken at present (5/21/40).	
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GEOGRAPHIC NAMES

Survey No.

T6718

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A.	B.	C.	D.	E.	F.	G.	H.	K.	
<u>Unalaska Island</u>									1
<u>Kuliliak Bay</u>									2
									3
Names underlined in red approved by L. Heck on 5/21/40									4
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MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~No. 11~~

No. T

T6718

CONFIDENTIAL

received April 18, 1940
registered April 30, 1940
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
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25	✓	<i>ABC</i>	<i>Pages 1 & 2</i>
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RETURN TO

82	T. B. Reed
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✓ *ABC*

DIVISION OF CHARTS

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6718 (1939) FIELD NO. J-39

Aleutian Islands; Unalaska Island; Vicinity of Kuliliak Bay
Surveyed in August 1939, Scale 1:10,000
Instructions dated July 10, 1939 (SURVEYOR)

Plane Table Survey

Aluminum Mounted

Chief of Party - R. L. Schoppe.
Surveyed and inked by - J. C. Partington.
Reviewed by - J. A. McCormick, August 28, 1940.
Inspected by - H. R. Edmonston.

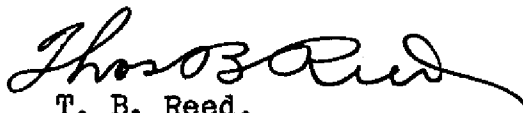
1. Purpose and Extent of Survey.

This area was previously surveyed on T-5270 (1936), T-6600 (1937) and T-6640 (1937-38), but more detailed information was required in the vicinity of the lagoons for use of the U. S. Army Air Corps in connection with the proposed establishment of a landing field. The resurvey was confined to lagoon shorelines and detailed form lines.

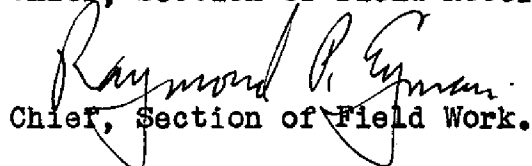
Office adjustment of form lines on T-5270 (1936) and T-6640 (1937-38) to those of the present survey presented relatively minor difficulties. On T-6600 (1937), it was necessary to erase and redraw approximately five square miles of form lines to effect a satisfactory junction. Fortunately, the air photographs used by the field party in the original form lining of T-6600 were available for the corrections.

Shoreline of the lagoons were in good agreement with those of the previous surveys and the junction with T-6717 (1939), part of the present project, was excellent. Depths in the lagoons are shown on H-6508 (1939).

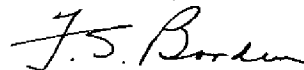
Examined and approved:



T. B. Reed,
Chief, Section of Field Records.



Chief, Section of Field Work.



Chief, Division of Charts.



Chief, Division of H. & T.