

# 6826

Diag. Cht. No. 8502-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. A Office No. T - 6826

### LOCALITY

State ALASKA

General locality COOK INLET

Locality KNIK ARM, VICINITY OF ANCHORAGE

1941

CHIEF OF PARTY

L. C. Wilder

### LIBRARY & ARCHIVES

DATE May 18, 1942

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T6826

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

REGISTER NO. T-6826

State Alaska

General locality Knik Arm, Cook Inlet

Locality Knik Arm, vicinity of Anchorage  
Anchorage. Cairn Pt. to Little Campbell Cr.

Scale 1: 10,000 Date of survey June, 1941

Vessel Motor Vessel "E. LESTER JONES"

Chief of party L. C. Wilder, H. & G. Engr.

Surveyed by Roswell C. Bolstad, Jr. H. & G. Engr.

Inked by Roswell C. Bolstad, Jr. H. & G. Engr.

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

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated April 24, 1941

Remarks: \_\_\_\_\_



①

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET, REG. NO. T-6826

M.V. "E. LESTER JONES", - - - - - L.C. Wilder, Chief of Party.

AUTHORITY:

This survey was conducted under authority of Instructions dated April 24, 1941 (ref. 22mjc 1995 ELJ 1).

LIMITS:

The survey covers only detail immediately adjacent to the waterfront, except in the vicinity of Ship Creek (shown as Woodrow Creek On U.S.C. & G.S. chart no. 8557) where detail was rodded in back to the railroad. The survey starts at Cairn Point, on the north, and extends southward as far as Little Campbell Creek (shown as Campbell Creek on U.S.C. & G. S. chart no. 8557. See paragraph NAMES for explanation.).

*Name omitted  
on latest  
chart.*

GENERAL DESCRIPTION:

In the vicinity of Cairn Point irregular bluff rises abruptly from the shore to a height of 87 feet (higher inshore elevations) with higher bluff line projecting southward about three-quarters of a mile along the waterfront, to marsh flat extending to the village of Anchorage. Lower bluff lies just to the SW and NE of Little Campbell and Chester Creeks with marsh land between. High ground adjacent to shore is covered with alder, brush and some pine. The entire length of shoreline is bounded by exten-

sive mud flats. These have not been shown on this sheet as the outer (low water) limits were not obtained by the topographic party; this information can be ascertained from the hydrographic sheets.

LANDMARKS:

Landmarks for this area were previously forwarded (transmitting letter dated Nov. 12, 1941) to the Washington office.

METHODS:

A planetable taped traverse, supplemented by sextant angles, was run between triangulation stations LOW and RAIL. The closing error was hardly measureable, about 2 meters, and the error was suitably adjusted on the sheet. Similar measured traverses were run between triangulation stations RAIL and CAN, and between CAN and BLUFF; no measurable error in either traverses existed. Cuts from control stations were taken to all signals wherever obtainable so as to make certain no stations were erroneously located. After signals had been located, setups were made near or at the stations and the topographic detail rodded in by the usual planetable methods.

NAMES:

The names ANCHORAGE, KNIK ARM, CHESTER CREEK, and CAIRN POINT, appearing on this sheet are well established names in local useage; they agree with the names as shown on U.S.C.& G. S. chart no. 8557. CAMPBELL CREEK, as shown on chart 8557, is known as LITTLE CAMPBELL CREEK; this information was verified by three separate parties, a cannery foreman, and two



local residents including one residing in the vicinity of Chester Creek. The creek about three miles southeast of Point Campbell is known as CAMPBELL CREEK. correct on chart of point date 2/6/42

WOODROW CREEK, as shown on chart 8557, is widely known as SHIP CREEK. This name appears to be well established, at least locally, as inquiry from over five parties whom had resided in this locality for some time developed the name SHIP CREEK to be in common local useage. None of the parties questioned had heard of the creek being called WOODROW CREEK. (U.S.G.B. Decision "not Ship Creek")

(Adopted 1914, dropped 1922) L.H.

#### AIR PHOTOGRAPHS:

After the topographic survey had been completed and the party had departed from the vicinity, aerial photographs were obtained from Fort Richardson (Correspondence attached to this report.).

At the time of inking in this topographic sheet, <sup>sheet,</sup> ~~topographic~~ latter on, a comparison with the photographs was roughly made. The top of the bluff line south of Cairn Point was taken from the photographs.

#### MAGNETICS:

Magnetic readings were taken with declinatoire no.4 (scratched on end of case, no other number) at triangulation stations LOW and BLUFF where it was considered least likely to show local disturbances. The following values were scaled from the topo. sheet before the inking:

At LOW - -  $26^{\circ}-48'$  , At BLUFF - -  $27^{\circ}-06'$  . The declination is easterly. The instrumental index error ~~will~~ was ~~have to be applied in the D.C. office when determined.~~ determined in Seattle in December and found to be  $(-) 20'$ .



④

GENERAL:

Such of the 1930 topographic stations as could be recovered (all others are lost) were relocated by the 1941 topographer; the following errors were found in the 1930 positions. (Azimuth listed is from 1941 position to 1930 position)

<u>Station Name</u>	<u>Azimuth Degrees, from North</u>	<u>Distance Scaled, in meters</u>
Tent	272	20
Yap	286	12
Nit	309	6
But	0	10
Nor	11	12
Sou	6	13

*Control for 1930 survey consisted of a baseline of 600m, a sun azimuth and the location of one topographic station.*

Inasmuch as these stations were carefully located from taped traverse with checks by numerous cuts the 1941 position is believed to be without question. The accuracy of the 1941 topography is further borne out by plotting the computed position of theodolite observed three-point location of AERO BEACON which had previously been located by two plane-table cuts, from STEEL and TREE (TREE was previously located by planetable cuts). The computed triangulation position coincides with the previous topographic location.

At the south end of this sheet a single cut was secured to a rock offshore; the rock was submerged during other periods when the topographic party was in this vicinity. A single cut to the Army Tank at Fort Richardson was also obtained; the tank falls off the sheet.

*Rock located on H-6658 (map)*

Ocean Dock has ~~been~~ been taken over by the U. S. Army.



The range for entering Ship Creek with the deepest water is shown on this sheet. The range is  $95^{\circ}$  true on the front range of the boom mast at the corner of Emard's cannery dock. There is a good back range on a distant high peak. Ship Creek is, however, subject to change from year to year in both position and depth and the range should be verified by local information; only small craft can go up the creek.

25

Respectfully submitted,

  
Roswell C. Bolstad, Jr. H. & G. Engr.

Nov. 21, 1941

POST-OFFICE ADDRESS: Fairbanks, Alaska.

TELEGRAPH ADDRESS:

~~CONFIDENTIAL~~

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

June 30, 1941.

To: Major G. G. Northrup, A.C.,  
C. O. 2nd Photo Squadron,  
Elmendorf Field,  
Anchorage, Alaska.

From: Riley J. Sipe,  
U. S. Coast & Geodetic Survey,  
Fairbanks, Alaska.

Subject: Photographs - Anchorage.

It is understood that the vicinity of Anchorage has been photographed on 1:10,000 scale. If prints of this area are available it is requested that single copies be forwarded to, Lieut. Leo C. Wilder, Commanding Officer, M. V. E. Lester Jones, U.S.C. & G Survey, Kodiak, Alaska.

Attached is a rough sketch of the area desired.

*Riley J. Sipe*  
Riley J. Sipe  
Lieutenant  
USC&G Survey

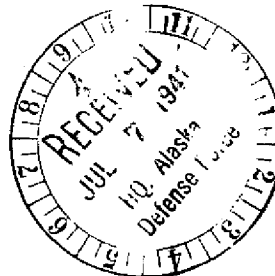
1st Ind.

/lcb

SECOND PHOTOGRAPHIC SQUADRON, A.C., Elmendorf Field, Alaska. July 6, 1941.  
TO: Commanding General, Alaska Defense Command, Fort Richardson, Alaska.

1. Herewith are prints requested in basic communication. Request these be forwarded to Commanding Officer, M. V. E. Lester Jones, U. S. C & G Survey, Kodiak, Alaska.

1 Incl.  
1-Prints, Anchorage & Vicinity



*G. G. Northrup*  
G. G. NORTHROP,  
Major, Air Corps,  
Commanding.

~~CONFIDENTIAL~~

*Photos sent to Wash  
Nov. 22 1941  
J. G. W.*



~~CONFIDENTIAL~~

061.

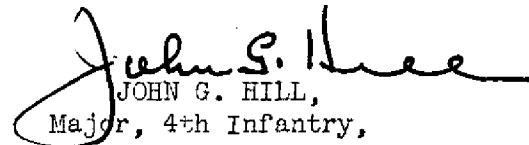
2nd Ind.

/wlm

HQ. ALASKA DEFENSE COMMAND, Fort Richardson, Alaska, July 7, 1941. TO:  
Lieut. Leo C. Wilder, Commanding Officer, M.V.E. Lester Jones, U.S.C. & G.  
Survey, Kodiak, Alaska.

Prints requested in basic communication enclosed herewith.

For the Commanding General:

  
JOHN G. HILL,  
Major, 4th Infantry,  
Adjutant.

127 Incl.

Prints #105 to 157 incl.  
#228 to 242 incl.  
#257 to 259 incl.  
#261 to 306 incl.  
#311 to 320 incl.

~~CONFIDENTIAL~~

## Remarks.

## Decisions

1		610495
2		"
3		"
4		"
5	Use this name since decision in 6th Rep. of U.S.G.B. is not binding, and general local usage should be followed.	"
6		"
7		"
8	For title	U.S.G.B.
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## GEOGRAPHIC NAMES

Survey No.

T6826

Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Cairn Point</u>										1
<u>Chester River Creek</u>										2
<u>Knik Arm</u>										3
<u>Little Campbell Creek</u>										4
<u>Ship Creek</u>										5
<u>Anchorage</u>										6
										7
<u>Cook Inlet</u>										8
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										M 234

Names underlined in red map made  
by L. Heck on 6/26/42

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

~~No. T~~

No. T **T6826**

received **May 18, 1942**  
registered **May 22, 1942**  
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			
22			
24			
✓ 25	Pg 5	<i>[initials]</i>	
26			
30			
40			
62			
63			
82			
✓ 83	Pg 4	<i>[initials]</i>	
88			
90			

RETURN TO

82	R. W. Knox
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DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6826

Field No. A

Alaska, Cook Inlet, Knik Arm, Vicinity of Anchorage

Surveyed June 1941, Scale 1:10,000

Instructions dated April 24, 1941

Plane Table Survey

Aluminum Mounted

Chief of Party - L. C. Wilder

Surveyed by - R. C. Bolstad

Inked by - R. C. Bolstad

Reviewed by - R. H. Carstens

Inspected by - H. R. Edmonston, June 25, 1942

1. Adjoining Surveys

There are no contemporary surveys on the north or south. No adjoining surveys were contemplated by the instructions for the project.

2. Comparison with Prior Surveys

T-3039 (1909) 1:20,000

T-3039a (1918) 1:10,000

H-5104 (1930) 1: 5,000 topographic information only

The present survey is in very good agreement with the prior surveys with respect to the high water line and the marsh areas. A few changes have been made in the piers at Anchorage. Four rocks awash lying within the low water line were carried forward to the new survey from T-3039a (1918). With the transferred rocks the new survey is adequate to supersede the earlier surveys in the common area.

3. Comparison with Chart 8557 (Latest print date 2-6-42)

a. Topography.

The charted topography within the area of the present survey originates largely with the previously mentioned surveys which need no further consideration. Additional topographic details in the vicinity of Anchorage originate with blue-prints 18603, 19817 and 19818, which should be retained for information not shown on the present survey.

b. Aids to Navigation.

The aero beacon in Lat.  $61^{\circ}12.9'$ , Long.  $149^{\circ}51.3'$  is charted in agreement with the survey position. There are no other aids to navigation within this area.

4. Compliance with Instructions for the Project

Satisfactory.

5. Condition of Survey

Standard practice was not followed in inking this sheet in that the station names appeared in a numbered list with corresponding numbers alongside the station symbols. In congested areas the present practice is to use leaders where necessary. The principal objection to the use of a list is that in the event a photostat of a portion of the sheet is desired, the list must also be photostated.

6. Additional Field Work Recommended


None.

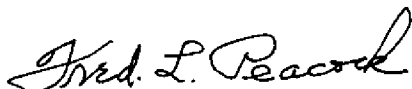
7. Superseded Surveys

T-3039 (1909) in part  
T-3039a(1918) in part  
H-5104 (1930) topographic information only

Examined and approved:

  
Chief, Surveys Section

  
Chief, Division of Charts

  
Chief, Section of Hydrography

  
Chief, Division of Coastal Surveys

Applied to CAP 8557 Aug. 1942. D.H.G.

8502-3