U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Graphic Control
Field No.: PP-C-47  Office No.: T-7098

LOCALITY
State: Alaska
General locality: Bristol Bay
Locality: Kvichak River, Vic. of Levelock

1947
CHIEF OF PARTY
R. F. A. Studds

LIBRARY & ARCHIVES
DATE: Jan. 12, 1949
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

Registry No. T-7098
Field No. FF-C-47
Scale 1:20,000

State Alaska
General locality Bristol Bay
Specific locality Kvichak River, Vicinity of Levelock

Dates: Survey began 18 June 1947 Completed 12 July 1947

Photography, Supplemented by ground surveys to

Project No. CS-327 Instructions dated 20 June 1946

Vessel PATHFINDER Chief of party R.F.A. STUDDS

Field work by R.C. Darling Office work by R.C. Darling

Final inking by R.C. Darling

Ground elevations in feet above M. H. W. of

Contours Approximate contours by Planetable Multiplex Interval ft.
Form lines

Remarks Details to be obtained from Air Photographs.

R. S. Government Printing Office 19—39120—1
DESCRIPTIVE REPORT
to accompany
T-7078 (1947)
GRAPHIC CONTROL SHEET FF-C-47

AUTHORITY: This survey was carried out in accordance with the
instructions by the Director for Project CS-327, dated 20 June 1946.

LOCALITY: Kvičak River, Bristol Bay, Alaska, between the junction
of the Alaskan and Kvičak Rivers and four miles north of the settle-
ment of Kvičak, from Latitude 59 00 to Latitude 59 10, and from
Longitude 156 46 to Longitude 156 52.

SCALE: The scale is 1 : 20,000.

GENERAL DESCRIPTION OF AREA: The shore on the east bank consists of
low flat marshes with patches of alder bushes at the creeks and river
banks, with scattered trees becoming more dense from Levelock north.
Inshore, the ground elevates slowly with a tundra covering and wooded
sections of deciduous and coniferous trees. The west shore consists of
a narrow strip of grass marsh up to the settlement of Levelock.
North of Levelock, the wooded section starts at the river bank. The
ground elevates sharply inshore from signal BAT to 87 feet at the highest
part of a sand and gravel bank. This is the highest bank in this
section of the river. Northwest of the signal GEM, a ridge running
east and west was an elevation of 74 feet at the eastern end. The
terrain on this shore is thickly wooded with coniferous and decid-
uous trees. There are few mud flats in this section on the west
shore. However, on the east shore there is a mud flat from Tak to
Scud which extends out to about midstream.

CONTROL: Control for this survey was furnished by the triangu-
lation of J. C. Tribble in 1946 and by the personnel of the Ship
PATHFINDER in 1947. The positions are on the North American 1927
Datum (unadjusted field computation).

DETAILS OF SURVEY: This is a graphic control sheet for hydro-
graphic sheet 2147. Standard planimetric triangulation methods
were employed for locating the signals with a minimum of three cuts
in all cases. Representative sections of the HNL were rodded in
using stadia rods for comparison with the air photographs. These
air photographs are sufficiently clear to leave the rest of the
high water line to be delineated there from.

The decision was made to extend the hydrography to the
59° 10' Latitude, the limit of chart No. 8802, after the topography
was completed to signals AGAR and CAB. To accomplish this, a short
open end traverse was run from signal CAB to AGE. The stadia readings
and orientations were made with deliberate care to assure the accuracy
needed. A resection from AGAR at the end of the traverse checked. On the east bank of the river, two hydrographic signals, PAG and BOB, were established on the high water line north of signal AGAR. The high water line can be delineated from the boat sheet by drawing straight lines between these signals on the smooth sheet. This method will be sufficient for this area as only a few local indians navigate the river north of Levalock.

JUNCTIONS: This sheet joins PP-3-47 on the south at triangulation stations WOG and TAK. There are no surveys above the north limit of this sheet.

MAGNETIC DECLINATION: The magnetic meridian was taken at WOG and SCUD. The results at WOG on this sheet checked the reading on Sheet PP-3-47. The reading at SCUD was in agreement with the observations made by the magnetometer at Levalock. The declinatorie used was standardised at the Inglewood, Washington, Magnetic Station on the 16 April 1947. No correction is necessary.

GEOGRAPHIC NAMES: There will be a separate report submitted on geographic names for this area.

RECOVERABLE TOPOGRAPHIC STATIONS:
NEW- East gable yellow school house.
RAG- S. E. gable, three story silver house.
ZAG- East gable white-washed barn.
EIG- Wooden tower at West gable house.
LAX- Center small white-washed house.

All of the above are described on form 524.

LANDMARKS FOR CHARTS: There will be a separate report submitted on the landmarks for chart in this area. See Chart Letter 470 (1948)

Respectfully submitted,

Robert C. Darling
Lieut.(jg) USCGS
Ship PATHFINDER

This graphic control survey has been compared with contemporary hydrographic surveys. No further review by the Hydrographic Survey Section is necessary at the present time.

F. A. Dinomore
3/22/49
NAUTICAL CHARTS BRANCH

SURVEY NO.    7098

Record of Application to Charts

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Note:

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.