

7098

Graphic Control

Diag'd. on Diag. Ch. No. 8502-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Graphic Control

Field No. PF-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

8-1870-1 (1)

8604

Graphic Control

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. PF-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 } or PATHFINDER Chief of party R.F.A. STUDDS
~~Remix~~

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.
~~Top elevations~~ } or

Contours } by { Planetable } Interval ft.
Approximate contours } { Multiplex }
Form lines }

REMARKS Details to be obtained from Air Photographs.

T-7098

7098

DESCRIPTIVE REPORT
to accompany
GRAPHIC CONTROL SHEET PF-C-47 T-7098 (1947)

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

LOCALITY: Kvichak River, Bristol Bay, Alaska, between the junction of the Alagnak and Kvichak Rivers and four miles north of the settlement of Kvichak, 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 has an elevation of 74 feet at the eastern end. The terrain on this shore is thickly wooded with coniferous and deciduous 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 triangulation of J. C. Tribble in 1946 and by the personnel of the Ship PATFINDER in 1947. The positions are on the North American 1927 Datum (unadjusted field computation). ✓

DETAILS OF SURVEY: H-7615 (1947) This is a graphic control sheet for hydrographic sheet ~~2447~~. Standard planetable triangulation methods were employed for locating the signals with a minimum of three cuts in all cases. Representative sections of the HWL 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 ACE. 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 Levelock.

JUNCTIONS: This sheet joins PF-B-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 PF-B-47. The reading at SCUD was in agreement with the observations made by the magnetometer at Levelock. The declinatorie used was standardized 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.
EGG- 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
Robert C. Darling,
Lieut.(jg) USC&GS
Ship PATHFINDER

Forwarded and Approved:

R. F. A. Studds
R. F. A. Studds
Commander, USC&GS
Commanding Officer, Ship PATHFINDER

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

J. A. Dinmore
3/22/49

NAUTICAL CHARTS BRANCH

SURVEY NO. T7098

Record of Application to Charts

[illegible]

M-2168-1

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.