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

State: *Washington*

11-5613

DESCRIPTIVE REPORT.

Tup Sheet No. *3921*

LOCALITY:
Willapa Bay

1902

CHIEF OF PARTY:
F. L. Pease

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
E. Lester Jones, Director

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET

OF

SHORE-LINE REVISION

WILLAPA BAY

STATE OF WASHINGTON

1922

Fred. L. Peacock, H. & G. E.
Chief of Party

Descriptive Report

To Accompany
~~Hydrographic~~ Topographic Sheet,

Shoreline Revision,

Willapa Bay, State of Washington.

The Topography was executed entirely by Mr. W. H. Overshiner, Jr. H. & G. E., with the exception of a small amount done by Mr. C. K. Green, H. & G. E.,. Each of the above Officers inked in the part of the work for which he was responsible. The sheet has not been thoroughly cleaned to avoid obliterating several ^{single} simple cuts which might prove of value. A large portion of the work was done during very rainy weather.

The shoreline was entirely rerun from a point on the ocean beach north of Cape Shoalwater near Δ Beach (1911) to Take Point and thence around the point and back a distance of about two statute miles; from Hawks Point westward nearly to the mouth of the Cedar River; from Bruceport to Stony Point; from Goose Point to below Bay Center Wharf; from Δ Dig around Leadbetter Point and back to Δ Better, including Grassy Islands; and the sand islets in the vicinity of Ellen Sands and Pine Island. This comprised all areas where changes were apparent. Some sloughing of the clay bank south from Goose Point on the west side was apparent but hardly of sufficient extent to be apparent on a 1: 20,000 scale.

A considerable amount of low water line was also run at points where the tide happened to be favorable for doing so and at other points where it could not well be done during the progress of the hydrography. Practically all aids to navigation within the limits of the sheet were located although some of these are more accurately located by theodolite cuts. A few hydrographic signals were located, principally in the vicinity of Bay Center. A short stretch of new highway in the vicinity of Cape Shoalwater was also run.

STATISTICS:

AREA: 16 Sq. Stat. Mi.
21.7 Stat. Mi. of Shoreline.
5 Miles of Roads and Sloughs.

Respectfully submitted,

Fred. L. Peacock
Fred. L. Peacock, H. & G. E.
Chief of Party.

Descriptive Report of Triangulation at Willapa Bay, Wn. 1922.

Character:

Secondary (formerly tertiary) for the main scheme. Numerous intersections stations and aids to navigation were located during the observing.

Purpose:

Only seven of the old triangulation stations of 1911 were recovered, viz., Willapa Bay L. H., Dig, Better, Goose (2), Bruce, Cave and George. No two of these were in the same figure of the 1911 triangulation. Two, namely, Bruce and Goose (2) were on clay banks so undercut in the vicinity of the stations that they could not be observed from. A five-figure scheme was laid out which furnished good control for all purposes required. For a starting line, a new station, Goose (3) on a firm ground, was located by traverse from Goose (2) and a back azimuth computation made from Better. Checks are obtained at two of the farther extremities of the scheme through stations Willapa Bay L. H. and Bruce (2), Bruce (2) being a new station situated on firm ground a short distance from unstable station, Bruce and connected thereto by traverse.

Accuracy:

One or two sets of six direct and six reverse were observed on each angle with 7 $\frac{1}{2}$ BERGER THEODOLITE #209. The observing was done by the Chief of Party, Mr. H. C. Warwick, Jr. H.& G.E. and Mr. W. H. Overshiner, Jr. H.& G.E.

Much of the observing had to be done under very poor seeing conditions because of an unusually small amount of favorable weather. For this reason some observations were rejected in the field for cause, while in other instances one set of observations would be given additional weight over another set observed under less favorable conditions. All lines in the scheme were observed in both directions except the line Fisher (2) - Inspector. The field computation of the average closing error of fifteen triangles in the main scheme is 3.95 seconds. The maximum closing error being 7.9 seconds.

Statistics:

Area covered	35 sq. stat. mi.
No. of old triangulation stations searched for	18.
No. " " " " " recovered	7.
No. " " " " " in new scheme	2.
No. " " " " " connected with new scheme by traverse	2.
No. of stations occupied	13.
No. of new secondary stations established	9.
No. of hydrographic signals located by cuts	15.
No. of aids to navigation located by cuts	28.

Note:

Six of the above aids were used as hydrographic signals and are included in both totals.

No. of eccentric occupations 6 (3 stations)

No. of eccentric targets observed 6.

Respectfully submitted,

Fred. L. Peaceck
Fred. L. Peaceck, H. & G. E.
Chief of Party, C. & G. S.

JUL 12 1922

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON November 12, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3921

Willapa Bay, Washington

Surveyed in 1922

Instructions dated January 5, 1922.

Chief of Party, F. L. Peacock.

Surveyed and inked by W. H. Overshiner and C. K. Green.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the General Instructions.
3. The plan and extent of the survey satisfy the specific instructions.
4. The junctions with adjoining surveys are satisfactory.
5. No additional surveying is required within the area covered by the sheet.
6. The character and scope of the surveying and field drafting are excellent.
7. Reviewed by E. P. Ellis, November, 1924.

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. 3921

State . . . Washington

General locality . . . Willapa Bay

Locality Willapa Bay

Chief of party . . . Fred. L. Peacock

Surveyed by W.H.Overshiner, C.K.Green

Date of survey . . . January - June 1922

Scale 1: 20,000

Heights in feet above

Contour interval feet.

Inked by W.H.O.; C.K.G. Lettered by

Records accompanying sheet (check those forwarded): Photographs,
Descriptive report, Horizontal angle books, Field computations,
Data from other sources affecting sheet

Remarks: