

4826

Diag. Cht. No 8502-2 & 8552

4826

Form 504

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

State: Alaska

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 10 4826
Hydrographic }

LOCALITY

Kenai Peninsula

Resurrection Bay, East Side

Bear Glacier to near Agnes
Bay

1928

CHIEF OF PARTY

R. R. Lukens

GOVERNMENT PRINTING OFFICE

Note by Chief of Party:

This hydrography was done for the purpose of filling in an area of inshore hydrography which was left unfinished by the survey of 1905.

NEW NAMES Several new names were supplied by the survey party, and these are all noted in the descriptive report of the topographic sheet with the exception of "Pony Bay" a small cove at the southern end of the sheet. This bay is of small extent, and deep with hard rocky bottom. It is of no use as an anchorage. There are several rocks in the northern part of the entrance. The largest rock (on which \odot Mid is located) is about 10 feet above high water. The small rock about 40 meters south from \odot Mid is only 2 or 3 feet above high water.

The signals in Pony Bay were located by the planetable starting from Δ Fine 1928, and orienting on Lighthouse Rocks Light 1928. It was done on the small boat sheet and then transferred to the smooth sheet.

TIDAL DATA Soundings were reduced from the tabulations of the automatic gauge maintained at Seward.


R.R. Lukens.

DESCRIPTIVE REPORT
to accompany
Hydrographic Sheet No.10, Resurrection Bay, S.W.Alaska.

Str. SURVEYOR

R.R.Lukens, Chief of Party

Director's instructions dated June 14, 1928.

EXTENT:

This sheet includes the inshore hydrography on the west side of Resurrection Bay from Lat. 59° 55' Long. 149° 29' to Lat. 59° 48' Long. 149° 36' and the hydrography of Pony Bay.

Reefs and Dangers:

No inshore or offshore dangers were found.

ANCHORAGES:

A suitable anchorage for small craft may be had in Porcupine Cove. The bottom is composed of hard sand. This cove is sheltered in all but southerly weather. In this cove there are a number of submerged tree stumps which indicates a subsidence of the shoreline in this vicinity.

Bulldog Cove may also be used as an anchorage for small craft. It is exposed to northerly weather and there are strong williwaws in this cove. The bottom is sticky mud and affords good holding ground.

SURVEY METHODS:

The hydrography shown on this sheet was done to supplement the original work in Resurrection Bay, which was incomplete. The sounding was done with two 30 foot launches each of which was equipped with a power sounding machine driven by a shaft connected with the launch engine. In launch No.4 the soundings were taken from the starboard quarter using an 18 lb. lead. In the motorsailer the sounding was done from the port side and a 25 lb. lead was used. In depths of less than 15 fathoms hand lead was used and in greater depths machine soundings were taken.

Approved and forwarded,

R.R.Lukens
Chief of Party

Respectfully submitted,

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

STATISTICS

HYDROGRAPHIC SHEET No. 10, RESURRECTION BAY, S.W. ALASKA.

Date	Letter	Volume	Positions	Soundings	Miles	Vessel
Oct. 4, 1928	a	1	124	371	25.5	Motorsailer
" 5 "	b	1	131	114	5.2	"
" 4 "	a	2	103	259	18.4	Launch #4
" 5 "	b	2	51	138	8.2	" 4
Totals		<u>2</u>	<u>309</u>	<u>882</u>	<u>57.3</u>	

Feb. 26, 1929

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4826

Locality: Resurrection Bay, S. W. Alaska

Chief of Party: R. R. Lukens in 1928.

Plane of reference is Mean lower low water, reading
2.6 ft. on tide staff at Seward, Alaska

~~XXXXXXXXXXXX~~

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 11-DEM

WASHINGTON

March 30, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4826

Surveyed in 1928

Chief of Party, R. R. Lukens.

Surveyed by S. B. Grenell and J. C. Partington.

Protracted and soundings plotted by J. C. Partington.

Verified and inked by J. Church.

1. The records conform to the requirements of the General Instructions, except the information notes at the beginning of each day's work, which are not complete in all cases; and the omission of the boat's heading by compass in Volume No. 1.
2. The plan and character of the development fulfill the requirements of the General Instructions.
3. The usual depth curves can be completely drawn, except the 0, 1, 2, 3 and 5 fathom curves. Suggestive portions of the usual depth curves that it is not possible to completely draw, are drawn.
4. The field plotting was completed to the extent prescribed in the General Instructions except the depth curves, which were not shown.
5. Remarks:

In the field plotting the symbol Co was platted as Coarse in all but two cases. In each case that the symbol Co was platted as Coarse it was changed to Co.

Since the positions of a considerable number of rocks are not shown on the sheets of the survey of 1928 (either Hydro. 4826 or Topo. 4384) which are shown on the sheets of the survey of 1905 (Hydro. 2760 and Topo. 2718), and there is a variance of the shorelines of the two surveys, the positions of the rocks

were transferred to Hydro. sheet 4826 in the same relative shoreline position as existed on Topo. 2718.

The shoreline of Pony Bay was transferred from a plane table survey on the small boat sheet to the smooth sheet by the field party.

6. Rating of work:

- (a) Character and scope of surveying
- (b) Field drafting

7. Report by J. Church, March 30, 1929.

Section of Field Records
Report on Hyd. Sheet No. 4826
West Coast of Resurrection Bay, Alaska
Surveyed in 1928.

Instructions dated June 14, 1928 (Surveyor)

Chief of Party - R. R. Lukens
Surveyed by - S. B. Grenell and J. C. Partington
Protracted and plotted by - J. C. Partington
Verified and inked by - J. H. Church

1. The records conform to the requirements except that no courses were noted in one volume.
2. The plan and character of development conforms to the requirements of the General Instructions.
3. The plan and extent of the survey satisfies the specific instructions.
4. No cross lines were run. Adjacent lines agree well.

5. Depth curves under ten fathoms can only be drawn in spots. The curve for ten fathoms and greater depths can be completely drawn.

6. No contemporary work joins this sheet. Most of the work on this sheet fills in gaps and open spaces on the old survey, H. 2760, but where it joins the old work, the agreement is good.

7. The usual amount of field plotting was well done by the field party. The bottom characteristic "co" was plotted as "coarse" in most cases. The recorder may have intended this for an abbreviation of "coarse", but as there were several spots where coral was noted, the "co" was used on the sheet, when ~~so~~ written ^{alone} in the record and plotted as coarse ^{when used as a modifying term.}

8. On the new topographic sheet, T. 4384, the signals were cut in but the shoreline was only sketched. This shoreline differs somewhat from the shoreline shown on the old topographic sheet, T. 2718, which shows in detail a number of inshore rocks along

the coast, which are not shown on either the new topographic or hydrographic sheet. These rocks have been transferred from J. 2718 to this sheet, H. 4826, in their same relative position to the shoreline.

In two cases rocks have been added from the record.

The signals and shoreline in Pony Bay were transferred from a plane table survey on the small boat sheet.

9. Character and scope of surveying - good.

No further hydrography is recommended

10. Reviewed by R. L. Johnston April 13, 1929.

This survey would have been complete & satisfactory if topography had been revised. The survey discredits the only topography available, but does not furnish sufficient data for a satisfactory correction of it.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4026

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 10

REGISTER NO. 4826

State Alaska

General locality ~~Koni Peninsula~~ East Side of Resurrection Bay
Locality Bear Glacier to near Agnes Cove and Pony Bay
~~Resurrection Bay~~

Scale 1:20,000 Date of survey October, 1928

Vessel Str. SURVEYOR

Chief of Party R.R. Lukens

Surveyed by S.B. Grenell and J.C. Partington

Protracted by J.C. Partington

Soundings penciled by J.C. Partington

Soundings in fathoms feet

Plane of reference Mean lower low water, Seward.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated June 14, 1928

Remarks: