

4201

A. & B. CHYER
L.S.A.
FEB 5 1922

Diag. Ct. No. 8202-2

4201

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

State: *A. E. Alaska*

11-5613

DESCRIPTIVE REPORT.

Hyd. & W. D. Sheet No. *4201*

LOCALITY:

Fatstonau Channel -
Marrison Pt. to
Salmon Creek

19*21*

CHIEF OF PARTY:
N. H. Heck

DESCRIPTIVE REPORT, SHEET D.

The entire area of Gastineau Channel has been either dragged or sounded or both. The work has been carefully examined to see that no discrepancies exist. The low water line where it has been greatly altered ~~is~~^{by} a deposit of mine tailings has been determined both by topographic and hydrographic methods with practically the same position. Attention is called to the 14th sounding off signal Stack. On this work the drag was carried as close to shore as possible, the launch grounding in one case.

Drag depth and soundings are shown in feet in order to have the same unit throughout.

Verification Report of Wire Drag #201.

The records for this sheet were well kept save for those containing the soundings. These latter were faulty for the following reasons: no courses, objects written in "foat's head by compass" column (vol. 1.); and number of position in this same column (vol. 2). The drag records were very well kept, the depth diagrams at the end of each day being lucid and accurate.

The hydrograph was accurately plotted. Each sounding position, besides the fixed positions was unnecessarily picked and inked. All soundings were also plotted in feet and fractions of feet which latter was uncalled for.

The drag work was plotted without fault. Though there were some complicated sections correct plotting was well adhered to.

Due to the steepness of the slope in the channel and the slight weakness of buoy positions some of the soundings apparently fall in ~~some~~ areas which were swept over by greater depths than these soundings. As the sounding positions are stronger than those of

the day buoy the sounding should be accepted as correct
irrespective of the effective depth of day.

Respectfully submitted,

Elois Bae,

Professors

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ADDRESS THE DIRECTOR
U.S. COAST AND GEODETIC SURVEY

AND REFER TO No. 9-DRM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4201

Surveyed in 1921.

Chief of Party: N. H. Heck.

Surveyed by: Field Party

Protracted and Inked by: W. S. Chovan

Verified and Area and Depth Sheet by A. Baer

1. The sounding records do not conform to the requirements of the General Instructions for the following reasons.
 - a. No courses were given.
 - b. Names of objects entered in column marked "boats head by compass".
 - c. Position numbers entered in same column.
2. The methods and character of operations fulfill the requirements of the General Instructions.
3. The depth and extent of dragging satisfy the specific instructions except for the fact that the small area near the west shore opposite Thane should have been dragged to a deeper depth in conformity with the main dragged depth of the channel.
4. The least water was found on all shoals discovered.
5. The supplemental hydrography is suitable for correcting the charts. It is to be noted that many soundings are of less depth than the effective depth shown by the drag. As these fall so close to the edge of the drag it is very probable that a slight adjustment in both the buoy positions and the sounding positions would correct this discrepancy. It should not be attributed to faulty dragging.

6. The overlaps are sufficient.
7. There are no splits on this sheet and no further dragging will be required as far as ordinary navigation is concerned. However, from a standpoint of future submarine possibilities, it is recommended that the small area near the west shore west of Thane, shown on the smooth sheet as dragged to 37 feet should be dragged to a greater depth to conform to the main dragged depth of the channel.
8. The soundings were plotted in feet and fractions of feet, which is contrary to the General Instructions. Otherwise, the field plotting was excellent.
9. The office draftsman had to do over only that work as noted in paragraph 8.
 - (a.Character and scope of drag operations: excellent,
10. Rating of the work(
 - except as noted in paragraph 7.
 - (b.Field drafting: very good.
11. Reviewed by: A. L. Shalowitz, September, 1922.

March 15, 1922.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

2 volumes of sounding records ~~for~~ and 2 vols. of wire-drag records for

HYDROGRAPHIC SHEET 4201

Locality: Gastineau Channel, S. E. Alaska

Chief of Party: N. H. Heck in 1921

Plane of reference is mean lower low water, reading
10.5ft. on tide staff at Pacific S. S. Co. Wharf, Juneau

For reduction of soundings.

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 each 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.



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic 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. 4201

State . S.E. Alaska

General locality . Gastineau Channel

Locality . Tantallon
Magnus Point to Salmon Creek

Chief of party . N.H. Heck

Surveyed by . G.C. Jones

Date of survey . June to September 1921

Scale 1-20000

Soundings in Feet

Plane of reference M.L.L.W.

Protracted by W.J. Chovan . Soundings in pencil by A.J. Hoskinson

Inked by W.J. Chovan . . . Verified by A. Bair

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, 1 Marigrams, 2 Boat sheets,

2 Sounding books, 2 Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks:

Applied to Reconstruction of Chart 5235 2-10-90 by Chas R Bundy