

4210

Diag. Chart No 8152-1

4210

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <i>N. E. Alaska</i> <small>11-5613</small>
DESCRIPTIVE REPORT. W. D. Sheet No. <i>4210</i>
LOCALITY: <i>W. Coast Prince of Wales Is.</i> <i>Gulf of Esquibel</i>
<hr/> <i>1921</i> <hr/>
CHIEF OF PARTY: <i>T. J. Mathew.</i>

DESCRIPTIVE REPORT

To Accompany

WIRE DRAG SMOOTH SHEET

GULF OF ESQUIBEL

West Coast Prince of Wales Island

S.E. ALASKA

U.S.S. SURVEYOR

1921

T. J. Maher, Chief of Party

Only those shoal areas in the Gulf of Esquibel, which it was felt were not sufficiently surveyed by the use of the leadline, were examined by means of the wire drag. As the time available was too short to drag all the doubtful areas to their effective depth, it was decided to drag all of them at ten fathoms first, and then to drag the most important of them, in the time remaining, at eight fathoms. As the smooth sheet shows, only the shoal area at the entrance to Steamboat Bay was dragged at eight fathoms, no more time being available.

Shoals discovered.

A spot 1470 meters 356 degrees (true) from A Camp which close developments with the lead showed 12 fathoms, was reduced to 10 fathoms. The shoal spot 1220 meters 344 degrees (true) from A Pasqual, on which 14 fathoms was the least water obtained with the hand lead, was dragged at 10 fathoms. The drag hung up on same, but owing to termination of season and weather conditions, were unable to further develop this shoal. 9 fathoms was obtained on a spot 1425 meters 285 degrees (true) from A Palisade, where 13 fathoms was the least depth previously obtained.

8-1/4 fathoms was obtained on a spot 412 meters 285 degrees (true) from \odot Bert, which was not detected by the previous sounding.

The 12 fathom shoal about 650 meters 318 degrees (true) from Δ Palisade, and the 7-3/4 fathom shoal about 425 meters 71 degrees (true) from \odot End, were not reduced by the use of the wire drag.

Survey Methods.

The separate control system was used to locate the position of the end buoys. The same signals as were used in running the lines of soundings were used to determine the positions of the boats and buoys.

M. M. Norman, D.D.

COPY TO FIELD RECORDS

May 24, 1922.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

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

HYDROGRAPHIC SHEET 4210

Locality: Gulf of Agulhas, S. E. Alaska

Chief of Party: F. J. Maher in 1921

Plane of reference is Mean lower low water, reading
3.4 ft. on tide staff at Steamboat Bay, Hayes Island

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.

Hammann
Acting Chief, Division of Tides and Currents.

Verification Report of U.D. 4210

The drag work on this sheet is characterized by its indefiniteness. Three out of the four places where the drag grounded the obtained soundings are greater than the depths at which the drag was set when it went aground. In Steamboat Bay it appears that the minimum depth lies somewhere between 36 and 40 ft. which is a small ~~margin~~ margin range but at the other two places the least water is indefinite.

At the point north-west of Steamboat Bay (at the extreme western end of sheet) where the drag grounded the drag-party according to note in record considers it worth while to dredge. The above points are clarified by accompanying notes on the original and U.D. sheet.

The plotting of the work was accurate and well done

Respectfully submitted,
Elois Dale
Naples

208

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

TO REFER TO NO.

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

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4210

Surveyed in 1921.

Chief of Party: T. J. Maher.

Surveyed by: R. W. Healy.

Protracted and inked by: M. Weisman and A. Baer.

Verified and Area and Depth Sheet by A. Baer.

1. The records conform to the requirements of the General Instructions.
2. The methods and character of operations fulfill the requirements of the General Instructions.
3. The least water was not found on all shoals discovered. At the northwest end of Steamboat Bay the drag grounded at 56 feet and the least sounding obtained was 69 feet. This should be redragged. The 37 foot spot found due north of Hermagos Is. should be redragged. The drag went aground and 37 feet was found, but no further investigation was made. North of Palisade Pt. the drag set at a depth of 50 feet grounded, but the least water found was 74 feet. This is probably the 8 fathom spot shown on the chart. As it is possible that less water exists here, it would seem advisable to redrag.
4. The overlaps are sufficient.
5. Further dragging will be necessary as noted in paragraph 3. If work is done in this vicinity again, it would be well to drag again the shoal spot north of Steamboat Bay where the drag grounded at 56 feet but 62 feet was the least water found. Although this spot was subsequently cleared at 38 feet, there is too wide a range between 38 and 56 feet. It is, therefore, recommended that a deeper drag be swept over this area.

No. 4210

6. The field plotting was completed to the extent prescribed in the General Instructions and the office draftsman did not have to do over any of the work.
7. Attention is called to the fact that the sunken rock shown on 8152 northwest of Pt. Garcia was swept over by a drag set at 53 feet. As this rock was put on the chart from information which was very approximate, it is quite likely that the informer made an erroneous estimation of the distance offshore. It is, therefore, recommended that the rock be marked P. D. on the charts.
8. Rating of the work { a. Character and scope of drag operations:
 { Good.
 { b. Field drafting: Excellent.
9. Reviewed by A. L. Shalowitz, September, 1922.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET
WIRE DRAG

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. WD-4210

State ALASKA

General locality WEST COAST PRINCE OF WALES ISLAND

Locality GULF OF ESQUIBEL

Chief of party T. J. MAHER

Surveyed by R. W. HEALY

Date of survey OCTOBER 1921

Scale 1 : 20,000

Soundings in FATHOMS

Plane of reference MEAN LOWER LOW WATER

Protracted by M. WEISMAN. Soundings in pencil by M. WEISMAN

Inked by *A. Baer* Verified by *A. Baer*

Records accompanying sheet (check those forwarded):

Des. report, _____ Tide books, _____ Marigrams, _____ Boat sheets,

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

Data from other sources affecting sheet

Remarks: