

6711

WIRE DRAG

Original

6711
WIRE DRAG

Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. _____
Field No. 20 A 41, WIRE DRAG

State S.W. Alaska

LOCALITY
~~Deer Island Alaska Peninsula~~
~~South Side Alaska Peninsula~~

~~Deer Island Passage~~
Approaches to Cold Bay

(Wire Drag)

1934

CHIEF OF PARTY
G.C. MATTISON

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 20 A 41 WIRE DRAG

REGISTER NO. H6711 WIRE DRAG

State S.W. ALASKA

General locality ALASKA PENINSULA ~~Deer Island~~

Locality ~~DEER ISLAND PASSAGE~~ Approaches to Cold Bay

Scale 1: 20,000 Date of survey August, 19 1941

Vessel SURVEYOR- Launches No. 1, 3, and 4

Chief of Party G.C. MATTISON

Surveyed by A.C. THORSON

Protracted by H.C. Parsons

Soundings penciled by _____

Soundings in ^{fathoms} ~~fathoms/feet~~ Effective drag depths in feet

Plane of reference Mean Lower Low Water

Subdivision of wire dragged areas by H.C. Parsons

Inked by _____

Verified by J.A. McCormick

Instructions dated HT-219, 3/18/1938 and 4/26/41

Remarks: Report covers wire drag of shoals in Deer Island Passage. Smooth sheet and plotting by the Seattle Processing Office

DESCRIPTIVE REPORT

to accompany

Field Sheet 20A41

Register No.

U.S.C. & G.Str. SURVEYOR

G.C.MATTISON, Com'd'g.

~~Deer Island Passage~~

Alaska Peninsula, Alaska

Project HT-219

Season - 1941

WIRE DRAG

INSTRUCTIONS:

Instructions for Str. DISCOVERER, Project HT-219 dated March 18, 1938. Supplemental Instructions dated April 26, 1941. Transfer of project to Str. SURVEYOR in July 1941. ✓

EXTENT OF SURVEY:

This survey covers wire drag operations on shoals in ~~Deer Island Passage~~, east and southeast of Thin Point. ✓
Approaches to Cold Bay

EQUIPMENT USED:

Standard wire drag equipment was used in making this survey. End buoys - 55 gallon drums with hoists. Intermediate buoys - 15 gallon drums with hoists. End weights - 180 pounds. Intermediate weights - 35 to 40 pounds. Ground wire - galvanized steel strand wire. Uprights - galvanized aircraft cord. Toggles - aluminum. ✓

The testing line used by the tender was made of upright wire with painted graduations.

ORGANIZATION OF PARTY:

Hydrographic Launch No. 3 was used as the Guide Launch and Hydrographic Launch No. 4 as the End Launch. Open Motor Sailer No. 1 was used as the Tender and also to carry all the drag equipment. The drag was put out and taken in from the Tender. ✓

SURVEY METHODS:

Standard methods for dual control wire drag as prescribed in Special Publication No. 118 were employed in the execution of this survey. ✓

The clocks on the three launches were checked morning and night with the chronometer aboard ship. ✓

Predicted tides for King Cove were used in determining the depth at which to set drag. ✓

ADDITIONAL NOTES BY SEATTLE PROCESSING OFFICE

SHEET 20 A 41, WIRE DRAG,

WIRE DRAG GROUNDINGS:

The groundings of the wire drag are shown on the sheet and soundings shown as taken by the drag tender launch. All grounded areas were subsequently cleared by drag at effective depths shown.

GEOGRAPHIC NAMES :

No new geographic names are recommended for this area.

RECORDS:

The record of the end launch was copied into the guide launch book. This copying was done as neatly as possible but trouble was had in many places as the guide launch recording was not confined to its allotted place in the record forms.

The data of the tender was copied in a new volume as the original tender record contained data applying to various widely scattered localities and sheets.

All the transfers have been copy-checked.

SHEET 2241 :
H-6703 (1941)

This sheet covers some of the shoals found on hydro sheet 2241, DISCOVERER and SURVEYOR, 1941 and should be examined with said sheet. Done.

Philip C. Doran
Philip C. Doran,
Seattle Processing Office,

Jan. 27, 1942

SHOALS DRAGGED:

4-2/6 Fathoms. Lat. ⁵⁴55-58.⁴⁰ Long. 162-29.60. ✓

A drag set at an effective depth of 25 feet grounded on this shoal. That depth had been obtained by a hydrographic party from the Str. DISCOVERER. While the drag was grounded and the tender sounding the Lighthouse Tender CEDAR planted a buoy in the vicinity. The shoal was cleared by a drag set at an effective depth of twenty ~~two~~ ^{three} feet. ^{4 1/2} was obtained in 1940 on H-6590. J.A.M. ✓

5-2/6 Fathoms. Lat. ⁵⁴55-58.55. Long. 162-30.¹⁰ ✓

A drag set at an effective depth of 34 feet grounded on this shoal. It was later cleared by a drag set at an effective depth of ~~33~~ ³⁰ feet. ✓

6-5/6 Fathoms. Lat. ⁵⁴55-55.15. Long. 162-31.¹⁷ ✓

A sounding of 7 fathoms was obtained by the Str. DISCOVERER on this shoal. A drag set an effective depth of 41 feet grounded. It was cleared with drag set at effective depth of ~~39~~ ³⁸ feet. ✓

8-1/2 Fathoms. Lat. ⁵⁴55-55.47. Long. ¹¹162-29.⁶⁸ ✓

A drag set at an effective depth of 48 feet grounded on this shoal but the least depth reported by the Tender was 51 feet. The shoal was cleared by a drag set at an effective depth of 44 feet. 8 fm. grounding plotted. J.A.M. ✓

6 Fathoms. Lat. ⁵⁴55-56.¹⁸ Long. 162-28.95. ✓

This shoal was cleared by a drag set at an effective depth of 35 feet. The 6 fm. sounding was obtained on H-6703 (1941) ✓

STATISTICS:

Day	Sq. Stat. Miles Dragged	Stat. Miles Dragged	No. of Positions	No. of Soundings
A	1.4	5.0	125	2
B	0.4	1.2	29	0
C	0.2	1.0	26	1

Respectfully submitted,

A.C. Thorson
A. C. Thorson
H. & G. Engr.

and J.A.M. Cormick
• Changes in red by Seattle Processing Office from smooth sheet.
• blue sec letter in rear of report. J.B.E. 3/13/42

TIDAL DATA

WIRE DRAG SHEET 20 A 41 , SURVEYOR, 1941

H6711

WIRE DRAG

DEKER ISLAND PASSAGE

KING COVE , ALASKA.

Standard tide gage No. 248

Latitude 55-05.7' N

Longitude 162-19.1' W

M.L.L.W. on staff 6.5 ft.

Highest tide on staff...

Lowest tide on staff....

This gage was the standard gage installed by the DISCOVERER at the beginning of the 1941 field season. When the SURVEYOR took over the work in this area the same gage was used.

Compiled by Seattle Processing Office

SIGNALS
Sheet 20 A 41, DISCOVERER, 1941
WIRE DRAG,
DEER ISLAND PASSAGE.

Triangulation stations:

1911 Cold
Thin

1923 Blink
Doc
Dru
Fox-2
Plat
West
White

1924 - Saw

1940 Hill
Pin

Gab) located by three point
Gra) fixes with theodolite and
positions computed as
given in report to
accompany Hydrographic
sheet 2241-DISCOVERER, 1941
H-6703 (1941).

Ly - Located on reference mark
of triangulation station
Shoulder, and its position
computed as given in report
mentioned above.

Seattle Processing
Office.

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6711**

Records accompanying survey:

Boat sheets ~~.two.~~; sounding vols.; wire drag vols. (3)...;
bomb vols.; graphic recorder rolls;
special reports, etc.
.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	..180
Number of positions checked10
Number of positions revised1
Number of soundings recorded4
Number of soundings revised (refers to depth only)0
Number of soundings erroneously spaced <u>1</u>
Number of signals erroneously plotted or transferred
Topographic details	Time
Junctions	Time
Verification of soundings from graphic record	Time

Verification by...J.A.M^cCormick...Total time 8 hrs.: Date 4/3/42..

Review by J.A. M^c Cormick..... Time 4 hrs.: Date 4/21/42..

Remarks

Decisions

1		545620
2		"
3		550620 U.S.G.B.
4		550625 U.S.G.B
5		
6		
7	Location of tide staff	550620
8	For title.	U.S.G.B
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GEOGRAPHIC NAMES

Survey No.

H6711

WIRE DRAG

Name on Survey

On Chart No. On previous survey No. On U. S. Quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List

A B C D E F G H K

<u>Deer Island</u>											1
<u>Fox Island</u>											2
<u>Deer Passage</u>											3
<u>Cold Bay</u>											4
											5
											6
<u>King Cove</u>											7
<u>Alaska Peninsula</u>											8
											9
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											M 234

Names underlined in red approved
by L. Heck on 6/6/42

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. **HH6711** WIRE DRAWING
~~No. T~~

received February 4, 1942
registered February 9, 1942
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
✓ 24			
✓ 25	Pg 2	<i>AJM</i>	copy made <i>or</i>
26			
30			
40			
62			
63			
82			
✓ 83	Pg 2	<i>YHE</i>	
88			
90			

RETURN TO

82	R. W. Knox
----	------------

RWK

20
22
90
POST-OFFICE ADDRESS: 1500 Westlake Ave., N., Seattle, Washington

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
SEATTLE PROCESSING OFFICE

Feb. 9, 1942.

To : The Director,
U.S. Coast and Geodetic Survey,
Washington, D.C..

From : Officer in Charge,
Seattle Processing Office.

Subject : Descriptive Report Wire Drag Sheet 20-A-41

On our file copy of Descriptive report to Accompany
Wire Drag Sheet No. 20-A-41, SURVEYOR 1941, under heading
SHOALS DRAGGED, all the shoals are placed in latitude 55 degrees.
If this is a true copy of the original report, the original
report should be changed to read, for all shoals, 54 degrees.

Philip C. Doran
Philip C. Doran,
Officer in Charge,
Seattle Processing Office.

H6711

82- Rvd
Mr. Engelbrecht - please check & change, if necessary.
A-101: copy w.c.p.
FEB 23 PM 1942

200
ME

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 11, 1942.

~~Division of Hydrography and Topography~~

✓ Division of Charts: Attention: Mr. H. R. Edmonston.

Plane of reference approved in
3 volumes of sounding ^{and WTS drag} records for


HYDROGRAPHIC SHEET 6711

Locality Deer Passage, Deer Island, Southwest Alaska

Chief of Party: G. C. Mattison in 1941
Plane of reference is mean lower low water reading
6.3 ft. on tide staff at King Cove
15.0 ft. below B. M. 6

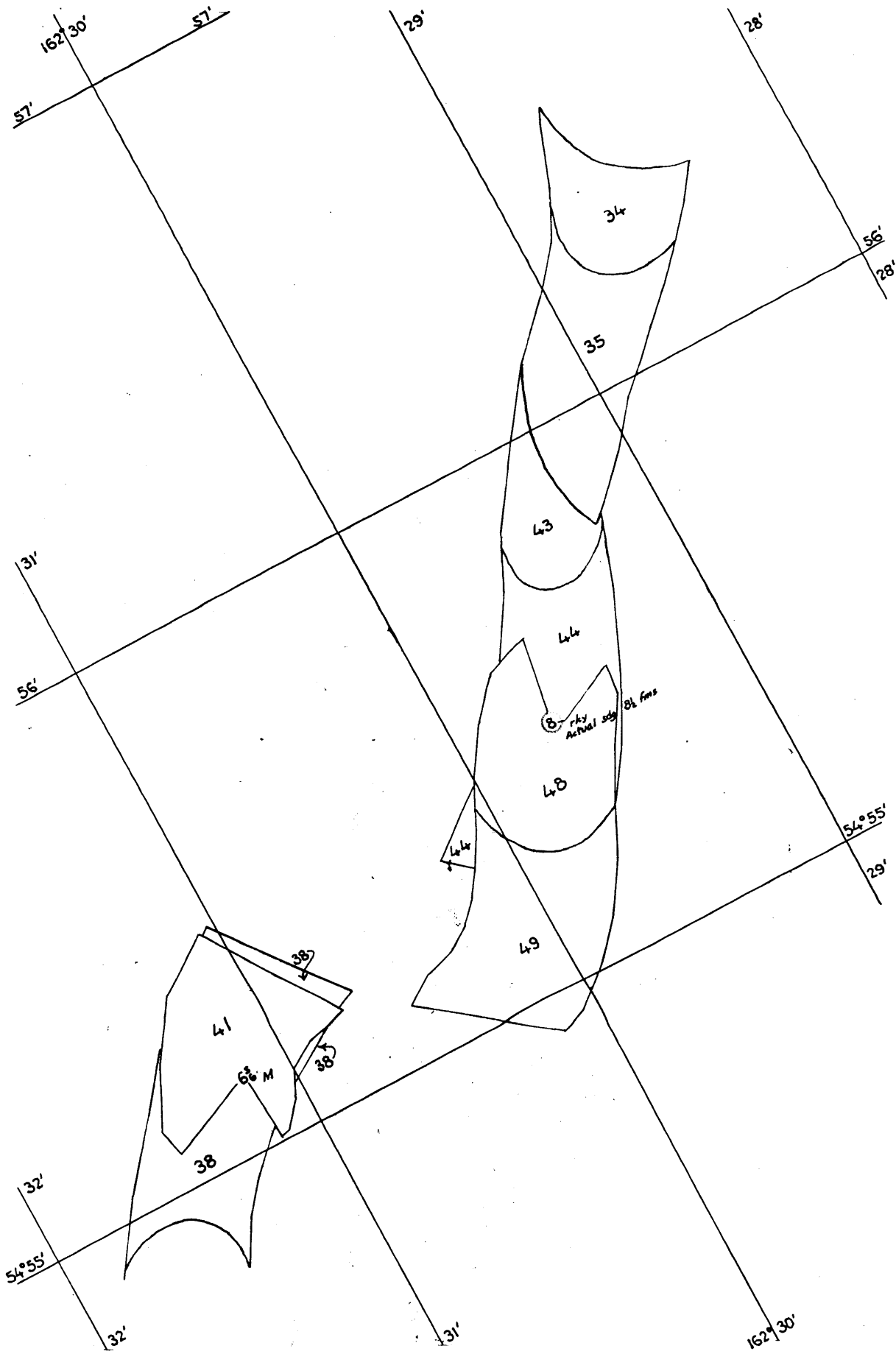
Height of mean high water above plane of reference is 6.2 feet.

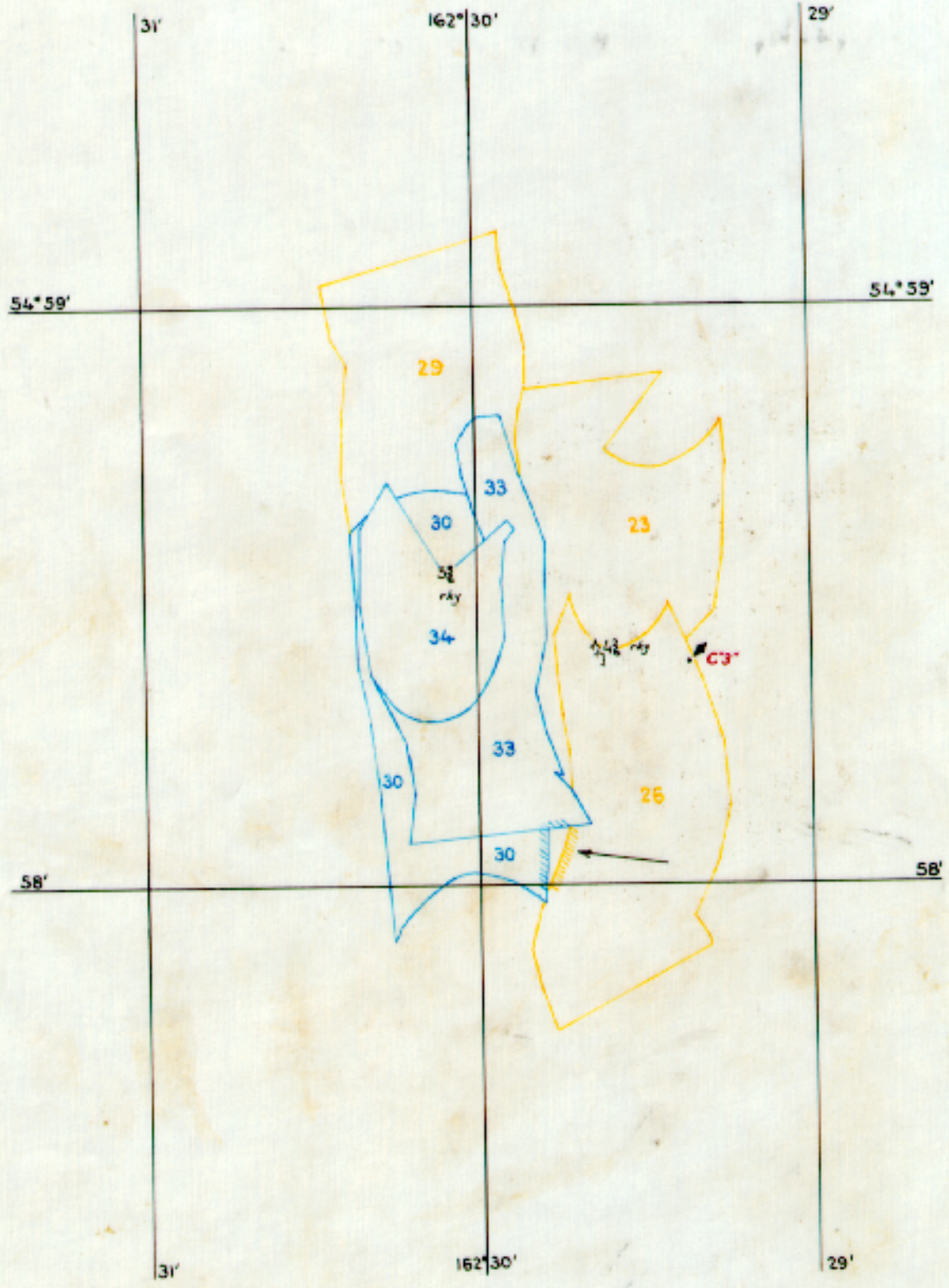
Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Mr. N. W. Guice
Federal Barge Lines
Room 1200 Boatmen's Bank Bldg.
St. Louis, Missouri





DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY REGISTER NO. 6711 W. D.
Field No. 20-A-41

S. W. Alaska; Alaska Peninsula; Approaches to Cold Bay
Surveyed in August 1941, Scale 1:20,000
Instructions dated April 26, 1941 (DISCOVERER)

Wire Drag

Dual Control

Chief of Party - G. C. Mattison
Surveyed by - A. C. Thorson
Protracted by - H. C. Parsons
Subdivision of wire dragged areas by - H. C. Parsons
Inked by - H. C. Parsons
Verified by - J. A. McCormick
Reviewed by - J. A. McCormick, April 21, 1942
Inspected by - H. R. Edmonston

1. Shoreline and Signals

The subject is thoroughly discussed in the Descriptive Report for H-6703 (1941), pages 2, 9, 11 and 12. As shoreline is secondary in the present instance, gross errors in field transfer from bromides have not been corrected as was done on H-6703.

2. Results of Survey

Results of the several detached shoal investigations are listed in the Descriptive Report, page 2. Soundings obtained by the drag party were in no instance materially less than those obtained by regular hydrographic development on H-6703 (1941) and H-6590 (1940). Critical depths have already been applied to charts 8701 and 8703.

3. General

Area and depth sheets were constructed in the office and attached to the Descriptive Report.

Robert W. Tracy
Chief, Surveys Section

Examined and approved: *J. S. Boden*
Chief, Division of Charts

L. P. Raynor
Chief, Section of Hydrography

G. H. Hude
Chief, Division of Coastal Surveys

Applied to Cht. 8703 ^{after review} Apr. 24, 1942 X.P.

" " " 8701 7/21/42 G.R.

" " " 8802 7/25/42 J.H.S.