

# 7044

## WIRE DRAG

7044

WIRE DRAG

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic Wire Drag
Field No.	EX 5142 W.D.
Office No.	
LOCALITY	
State	Washington
General locality	Strait of Juan de Fuca
Locality	Neah Bay
194 <del>4</del> 1945	
CHIEF OF PARTY	
Roland D. Horne	
EXPLORER	
LIBRARY & ARCHIVES	
DATE	

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. H7044

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. EX 5142 Wire Drag

REGISTER NO.

State Washington ✓

General locality Strait of Juan de Fuca ✓

Locality Neah Bay ✓

Scale 1:5,000 Date of survey March 9, 19 45

Vessel EXPLORER

Chief of Party Roland D. Harne ✓

Surveyed by F. B. Quinn - G. R. Shelton ✓

Protracted by Christine N. Hillman

Soundings penciled by Christine N. Hillman

Soundings in ~~fathoms~~ feet Feet

Plane of reference MLLW ✓

Subdivision of wire dragged areas by Christine N. Hillman

Inked by \_\_\_\_\_

Verified by G. F. Jordan

Instructions dated September 9, 1942, 19

Remarks: Smooth Sheet and Plotting by  
the Seattle Processing Office.

2

**EX 5142 Wire Drag**

**Neah Bay, Washington**

**Report Prepared by Seattle Processing Office**

Project-

CS-293 - Neah Bay, Washington ✓

Instructions-

September 9, 1942 ✓

Vessels-

EXPLORER's launches ✓

Tide Station-

Heights from standard station at Neah Bay, which has been in operation many years. ✓

Datum-

NA 1927, adjusted. ✓

Control-

Based on 1942 and 1944 triangulation by G. C. Mattison and Roland D. Horne. Topographic stations and shoreline from T-6984 a & b. ✓

Drag-

Five sections, 200 feet each, with 115 feet of towline at each end of drag. ✓

Date-

This work was all accomplished on March 9, 1945. ✓

Positions 16A to 17A-

This line was apparently set with enough slack in the ground wire so that it promptly grounded. It is so noted in the record. The effective depth was 14 feet. The water was 23 feet deep, per H-7036. As this area has been cleared at 16 feet and 16½ feet, it is recommended that this strip 16A to 17A be rejected. It has been left in pencil. *Strip rejected*

Soundings-

Two depths of 15½ and 16½ feet were found at groundings in the entrance channel. They are close to the shallowest depth of 17 feet found on the contemporary sounding sheet, H-7036. ~~A tracing showing selected soundings from that sheet is a part of this report.~~ *with verifier's report*

Groundings-

Item	G.L. Positions	Latitude	Longitude	Eff. Depth ft.	Sounding ft.	Sdg. on H-7036	Remarks
1.	15A	48° 22.50	124° 35.195	14	<u>None</u>	18	Close to red N. buoy #2
2.	32A	48 22.51	124 35.75	15	<u>None</u>	22	Cleared by drag at 14½'
3.	36K	48 22.42	124 35.85	16½	<u>None</u>	19 <sup>20</sup>	Drag pulled over. on edge of dragged area.
4.	36.5A	48 22.47	124 35.93	14½	<u>None</u>	19 <sup>20</sup>	Cleared by drag at 13' 14½" 16½"
5.	11A	48 22.48	124 35.86	16½	15½ & 16½	17	Cleared by drag at 14½'
6.	25A	48 22.63	124 35.25	15		<u>H-7037</u> <u>36</u>	<u>Straddled</u>

mooring cable to bell buoy. Buoy position transferred from H-7037. Buoy evidently swinging about 40 M. to N.W. of its plotted position.

It is possible that some or all of items 2, 3, & 4 are snags. It is suggested that fathograms for adjacent lines on H-7036, which are now in Washington, be examined for evidence of snags. No evidence

(4)

Respectfully submitted,

*Edgar E. Smith*

Edgar E. Smith  
Cartographic Engineer  
Seattle Processing Office

Approved and Forwarded:

*F. H. Hardy*

F. H. Hardy  
Officer in Charge,  
Seattle Processing Office

H-7044

EX 5142 Wire Drag

Neah Bay, Washington

Statistics

Positions -----	40
Stat. Miles of drag strip ----	2.2
Soundings -----	2
Area - Sq. Stat. Mi. ----	0.2

EX 5142 Wire Drag

Neah Bay, Washington

Geographic Names Penciled on the Smooth Sheet

Neah Bay

Washington

Wagda Island

EX 5142 Wire Drag

Neah Bay, Washington

Tidal Note

Neah Bay Standard Automatic tide gage, which  
has been in operation for years.

Latitude            48° 22'

Longitude           124 37

Staff reading of M L L W

2.1 feet



MLLW = 2.1 feet

Form 362  
Ed. May, 1929  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

### TIDES: HOURLY HEIGHTS

Station: Neah Bay, Wash. Year: 1945  
 Observer: \_\_\_\_\_ Lat. \_\_\_\_\_ Long. \_\_\_\_\_  
 Time Meridian: 105° W Height datum is \_\_\_\_\_ which is 2.1 ft. below B.M. LLW

U. S. GOVERNMENT PRINTING OFFICE 11-792

Month and Day	mo. d.		d.		d.		d.		d.		d.		Horizontal Sum
Day of Series	March 9												
Hour	Feet		Feet		Feet		Feet		Feet		Feet		Feet
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8	10.0	7.9	.		.		.		.		.		.
9	10.2	8.1	.		.		.		.		.		.
10	9.7	7.6	.		.		.		.		.		.
11	8.9	6.8	.		.		.		.		.		.
Noon	7.8	5.7	.		.		.		.		.		.
13	6.4	4.3	.		.		.		.		.		.
14	5.0	2.9	.		.		.		.		.		.
15	4.0	1.9	.		.		.		.		.		.
16	3.3	1.2	.		.		.		.		.		.
17	3.3	1.2	.		.		.		.		.		.
18	3.9	1.8	.		.		.		.		.		.
19	.		.		.		.		.		.		.
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23	.		.		.		.		.		.		.
Sum	.		.		.		.		.		.		.

Transmitted by Director's letter  
 36-McC. (undated)  
 in reply to Processing office  
 report of 7/16/45

Sum for = Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month=

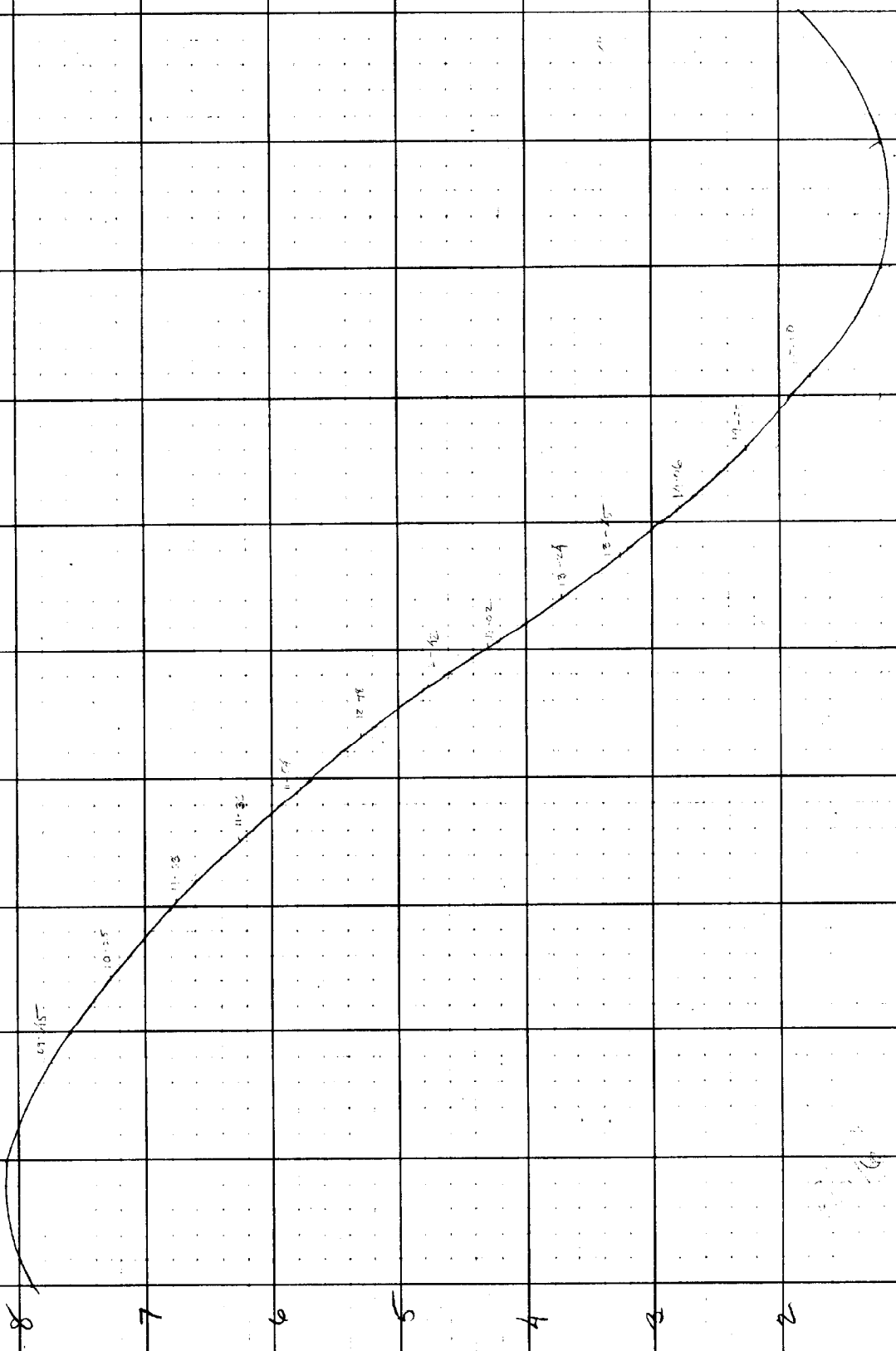
Tabulated by \_\_\_\_\_ Date \_\_\_\_\_ Summed by \_\_\_\_\_ Date \_\_\_\_\_

1050 TIDE

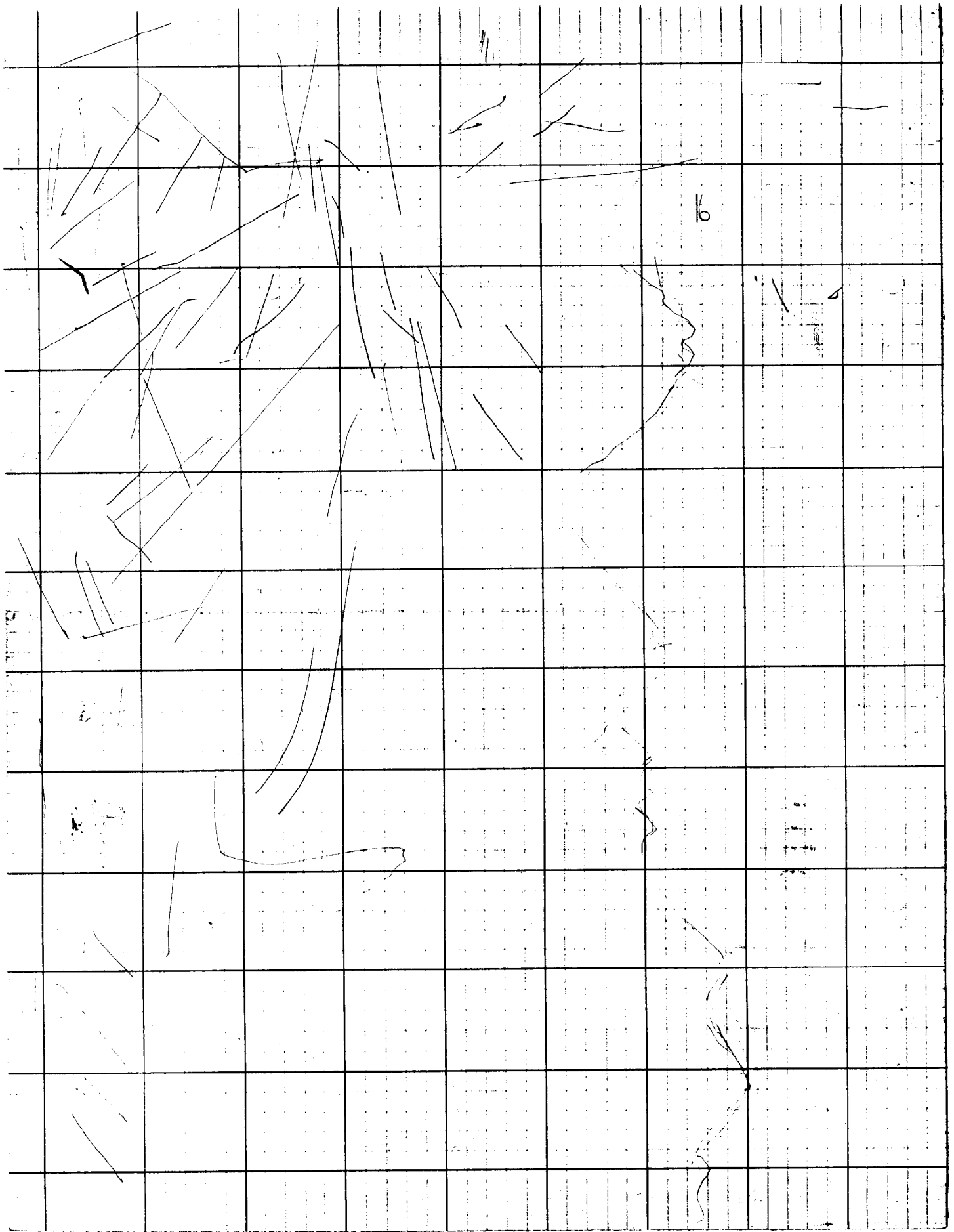
TIDES  
1945

NEAH BAY  
March 9,

1866



9 10 11 12 13 14 15 16 17 18



GEOGRAPHIC NAMES

Survey No. **H7044**

Name on Survey										
	A	B	C	D	E	F	G	H	K	
	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		
<u>Strait of Juan de Fuca</u>			(For title)						U.S.G.B	1
<u>Neah Bay</u>			(location of tide staff)						U.S.G.B	2
<u>Waada Island</u>									U.S.G.B	3
										4
										5
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										25
										26
										27

names appearing in red approved  
by H. Heck on 6/7/46

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. ..**H7044**

Records accompanying survey:

Boat sheets *.2.*; sounding vols. ....; wire drag vols. *.2.*;  
 bomb vols. ....; graphic recorder rolls .....;  
 special reports, etc. ...*1 A & D* sheet.....  
 .....

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

Number of positions on sheet	..	<i>40.</i>	
Number of positions checked	..	<i>14.</i>	
Number of positions revised	..	<i>0.</i>	
Number of soundings recorded	..	<i>2.</i>	
Number of soundings revised (refers to depth only)	..	<i>—.</i>	
Number of soundings erroneously spaced	..	<i>—.</i>	
Number of signals erroneously plotted or transferred	..	<i>—.</i>	
Topographic details	Time	..	<i>—.</i>
Junctions	Time	..	<i>—.</i>
Verification of soundings from graphic record	Time	..	<i>—.</i>
<i>R. D. Goodrich</i>			<i>3</i>
Verification by <i>G. F. Jordan</i> ...Total time	..	<i>10.</i>	Date <i>April 1946</i> <i>May 6, 1946</i>
Review by ... <i>G. F. Jordan</i> ..... Time	..	<i>3.</i>	Date <i>May 6, 1946</i>

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7044 W.D.

FIELD NO. Ex-5142 W.D.

Washington, Strait of Juan de Fuca, Neah Bay  
Surveyed in March 9, 1945 Scale 1:5,000  
Project No. CS-293

Wire-drag

Control:

Three-point fixes on shore  
signals

Chief of Party - R. D. Horne  
Surveyed by - F. B. Quinn and G. R. Shelton  
Protracted and inked by - C. N. Hillman  
Verified by - R. D. Goodrich and G. F. Jordan  
Reviewed by - G. F. Jordan, May 6, 1946  
Inspected by - H. W. Murray

1. Shoreline and Control

Shoreline and control originate with planetable survey  
T-6984b (1942-44).

2. Adjoining Wire Drag Surveys

None.

3. Comparison with Hydrographic Surveys

H-7036 (1944-45); H-7037 (1944-45)

Effective depths of the drag do not conflict with depths  
on the hydrographic surveys.

Six groundings of the drag are at effective depths which  
are four to seven feet shoaler than general depths of the  
bottom.

4. Comparison with Chart 6266 (Latest print of Feb. 2, 1946)

Groundings on the present survey have been applied to the  
chart. There are no conflicts between effective drag depths  
and charted depths.

5. Condition of Survey

- a. The sounding records are satisfactory.
- b. The descriptive report written by the processing office is statistically satisfactory.
- c. The smooth plotting is excellent.
- d. No investigation was made of six of the seven groundings in the passage. No bottom characteristic was obtained on the 15-ft. shoal in the channel at lat.  $48^{\circ} 22' 29''$ , long.  $124^{\circ} 35' 52''$ .

6. Compliance with Project Instructions

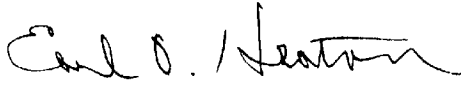
This is considered an incomplete survey.

- a. The Instructions, paragraph 23, require determination of maximum draft that can be carried into Neah Bay. The maximum controlling depth remains in doubt until groundings on the present survey are investigated.
- b. The Instructions, paragraph 24, require wire-dragging of all Neah Bay south of the breakwater and outside the 2-fathom curve to within 2 feet of the bottom, except that the maximum effective depth need not exceed 24 feet.
- c. The Instructions, in paragraph 27, regarding check angles were not observed.
- d. Instructions, in paragraph 385 of the Hydrographic Manual regarding submission of notes for the Descriptive Report apparently were not observed.

7. Additional Work Recommended

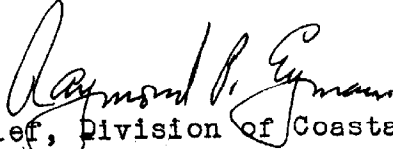
- a. The groundings referred to in paragraph 5d, should be thoroughly investigated.
- b. The area of the present survey should be re-dragged according to instructions in the event that the groundings are not verified.

  
Chief, Nautical Chart Branch

  
Chief, Section of Hydrography

Examined and approved:

  
Chief, Chart Division

  
Chief, Division of Coastal Surveys

*K.M.*

Form 712  
DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
Rev. June 1937

## TIDE NOTE FOR HYDROGRAPHIC SHEET

August 30, 1945.

~~Division of Hydrography and Topography:~~

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in  
2 volumes of sounding records for  
wire drag

HYDROGRAPHIC SHEET 7044

Locality Neah Bay, Washington

Chief of Party: R. D. Horne in 1945  
Plane of reference is mean lower low water, reading  
2.1 ft. on tide staff at Neah Bay  
19.1 ft. below B. M. 8

Height of mean high water above plane of reference is 7.3 feet.

Condition of records satisfactory except as noted below:

*E. H. Green*

Chief, Division of Tides and Currents.



# NAUTICAL CHARTS BRANCH

SURVEY NO.   H7044  

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8-30-45	6264	<i>Street</i>	Before <del>After</del> Verification and Review
3/25/46	6265	<i>S. Pagan</i>	" " " " <i>App. thru 6266</i>
			Before After Verification and Review
2/18/47	6266	<i>L.A. McGinn</i>	<del>Before</del> After Verification and Review
29 July 47	6266		<del>Before</del> <u>After</u> Verification and Review <i>Completely applied</i>
Aug 1947	6265	<i>Straw</i>	<del>Before</del> After Verification and Review <i>Completely</i>
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.