

4034

4034

Department of Commerce

COAST AND GEODETIC SURVEY

*E. Lester Jones*  
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

*Hyd.* Sheet No. **4034**

LOCALITY:

*Approaches to  
Port Chatham,  
Cook Inlet.*

1918

CHIEF OF PARTY:

*Eoline P. Hand*

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

WIRE DRAG SHEET NO. 2.

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. **4034**

State **Alaska**

General locality **Cook Inlet**

Locality **Approaches to Port Chatham**

Chief of party **Eoline R. Hand**

Surveyed by **Eoline R. Hand, & Wm. D. Patterson,**

Date of survey **August - September 1918**

Scale **1-20000**

Soundings in **\* \* \* \* \***

Plane of reference **Mean Lower Low Water**

Protracted by **J.D. Crichton** Soundings in pencil by **\* \* \***

Inked by **J.D. Crichton** . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, \_\_\_\_\_ Marigrams, 1 Boat sheets,

\_\_\_\_\_ Sounding books, 1 Wire-drag books, \_\_\_\_\_ Photographs.

Data from other sources affecting sheet . . . . .

Remarks:

Areas enclosed in  
RED - Effective Depth 40 - 59 ft.  
BLUE - " " 30 - 39 ft.

ADDRESS THE SUPERINTENDENT  
U. S. COAST AND GEODETIC SURVEY

FIELD RECORDS (C)

AND REFER TO NO. 41-ACC

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 15, 1919.



Division of Hydrography and Topography: *HCA*

Division of Charts: ✓

Tidal reductions have been approved in  
1 volume of sounding records for

HYDROGRAPHIC SHEET 4034

Port Chatham, Cook Inlet, S. W. Alaska  
Eoline R. Hand in 1918.

Plane of reference is  
Mean lower low water, reading

6.5 ft. on staff at Port Chatham.

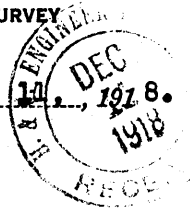
*L. P. Shidy*

*Acting* Chief, Section of Tides  
and Currents.

## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Washington, Dec. 11, 1918.

*Respectfully referred to*H. & G. Engineer in Charge: *LIBRARY (43)*

(For information of Library)

On November 26 Mr. E. R. Hand mailed Wire Drag Sheet No. 2 (Approaches to Port Chatham, Cook Inlet, Alaska). In the descriptive report accompanying this sheet Mr. Hand states he failed to make a note that the smooth sheet itself was used for the location (by planetable methods), of the signals controlling the progress of the drag. Please make appropriate note on this report when it arrives.

*H. G. Groves*

Chief, Div. H. &amp; T.

*Library:*  
*Please pass this into*  
*the report -*  
*Ray.*

To accompany Wire Drag sheet No. 2, Approaches to Port Chatham, Cook Inlet, Alaska.  
(surveyed August - September, 1918.)

Eoline, R. H. Hand, Hyd. & Geod. Eng' r.,  
Chief of Party.

This sheet embraces the westerly approach to Port Chatham, and joins sheet No. 1 of that port, executed by me. Work called for in my orders of June 21, 1918.

The dragging about the entrance was extended out to 20 fathoms. The stretch westward to Koyoktoluk Bay was to cover a 15 fathom spot off the entrance to that bay, called for in my orders. Time and tide would not permit of a width parallel to this on the return trip. The strip extending down to the west end of Elisabeth Island was to cover a doubtful spot, in fulfillment of above orders. Considerable trouble was experienced here (see drag book) just off the point, and it was at first supposed a rock had been encountered, but it later developed that all the trouble was caused by the strong currents that sweep around this point.

On chart No. 8588 I noticed a suspicious group of soundings off stations "Nat" and "Fall", east of north end of Elisabeth Island. I passed the drag over the spot, but found nothing. The work was not continued farther toward the east, just north of this, off signal "Ship", because the soundings there indicated 20 fathoms.

I should like to have dragged just a trifle closer to the north end of Elisabeth Island, and south of Claim Point, but the season was rapidly drawing to a close; and I had no opportunity. However I believe all has been accomplished that is of practical importance; shoal water extends off the end of this island, and south of the above-mentioned point, and vessels passing through here will take a mid-channel course.

Our equipment was more or less torn up by the strenuous survey at Anchorage, and new gear sent for did not arrive, and as a consequence some of the uprights were so patched and spliced that it was not possible to change the hook-up after starting to drag; in these cases the ground wire was so set that for the higher tides the effective depth was at least what was called for in orders.

There are one or two inimportant splits; not apparent until smooth sheet plotted.

We did not have at hand a copy of Publication No. 21 that is said to explain the scheme of colors; and as the Office notified us that there were no more copies of this available my officers made up the color list from memory.

*Eoline R. H. Hand*

Hydrographic & Geodetic Engineer.

LIST OF STATISTICS

To accompany wire drag sheet No. 2  
 Port Chatham, Cook Inlet, Alaska.  
 Surveyed in September, 1918.

4034

*Eoline R. Land*

HYD. & GEOD. ENGR.  
 Chief of Party.

Date	1918	Let ter	Vol.	Angles	Miles, statute	Area, sq. Miles <i>Statute</i>	Boats .
September	1	A	1	18	1.0		Rosebud Chase
"	4	Bq	1	78	2.7		"
"	5	B	1	24	1.0		"
"	6	D	1	203	5.4		"
"	10	E	1	198	6.0		"
"	11	F	1	246	6.1		"
"	12	G	1	156	2.7		"
Totals-----				923	24.9	12.0	

ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

June 27, 1924

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4034

Port Chatham, Alaska

Surveyed in 1918

Chief of Party, E. R. Hand

Surveyed by E. R. Hand and W. D. Patterson. Instructions dated June 21, 1918.

Protracted and inked by J. D. Crichton

Verified and Area and depth sheet by A. L. Shalowitz.

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 depth and extent of dragging satisfy the specific instructions except that the areas should have been dragged to a minimum of 45 feet.  
The 13 fathom shoal off Koyuktolik Bay was covered by a 44 ft. drag and the 18 fathom spot westward of Cape Elizabeth was covered by a 40 ft. drag. These are both called for in the specific instructions.
4. The only shoal discovered on this sheet was the 38' sounding south of Claim Pt. As this is an extension of the spit that makes off from the point with shoaler water inside it will not be necessary to drag over this.
5. The overlaps are generally sufficient except as shown on the Area and Depth sheet.
6. There are a number of splits in the area northwest of Elizabeth Island and at the junction of this sheet and H. 4033. The area northwest of Elizabeth Island is a broken area with depths less than 20 fathoms. These should be dragged over again. The drag should also be carried closer to the 10 fathom curve south and west of Claim Pt. At the end of the drag strip west of Cape Elizabeth there is a possibility that the drag grounded at 39', although in taking in the drag there was no indication that the drag was aground. (See page 18 of record for this sheet; also descriptive report). If any work is

done here in the future it is recommended that a drag be passed over this place.

7. The field plotting was completed to the extent prescribed in the General Instructions.
8. Some of the work had to be done over by the office draftsman on account of the changed tide reducers.
10. Reviewed by A. L. Shalowitz, May, 1924.