

4777 W.D.

Diag. Cht. No. 8551

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Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
E. Lester Jones Director

C. & G. SURVEY L. & A. FEB 17 1928 Acc. No.
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State: S. W. ALASKA

DESCRIPTIVE REPORT

<del>Topographic</del> Hydrographic WIRE DRAG	Sheet No. "L" 4777
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LOCALITY

Prince William Sound

Drier Bay

1927

CHIEF OF PARTY

R. R. Lukas

S-69 3V

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

To Accompany Wire Drag Sheet "L".  
of  
DRIER BAY, PRINCE WILLIAM SOUND, S. W. ALASKA.

Extent of survey:- The entrance to Drier Bay, from Knight Island Passage, Drier Bay, Cathed and Mallard Bays, and the head of the bay proper, in the vicinity of Prince Packing Co., was wire dragged.

Method of survey:- The dual control system was used thru-out, using the following boats: Leunbh Helianthus, Guide Launch; Str. SURVEYOR'S Gig, End Launch; and Str. SURVEYOR'S motor sailer, Tender. The light wire drag was used thruout.

Shoals:- The <sup>3 3/4</sup> 3-1/4 shoal shown on hydrographic sheet reg. no. 2919, scale 1:10,000 was cleared with a drag set at an effective depth of 18 ft.

Shoals found by the wire drag are as follows:

	13 ft.,	99° (true),	735 meters	from	ΔDoe.	✓
	16 "	100° "	780 "	"	" "	✓
28-27 "	150° "	" "	252 "	"	ΔChas.	✓
16-15 "	166° 348° "	" "	115 "	"	ΔBoe.	✓
27-26 "	209° 30° "	" "	288 "	"	" "	✓
30 "	204° 21° "	" "	306 "	"	" "	✓
32-31 "	202° 162° "	" "	284 "	"	" "	✓
34-33 "	94° "	" "	176 "	"	ΔNew, Mou	✓
10 "	54° "	" "	175 "	"	" "	✓
34 "	44° 43 1/2° "	" "	234 "	"	" "	✓
38-37 "	74° 4° "	" "	357 "	"	" "	✓
29-28 "	82° 31° "	" "	434 "	"	" "	✓
12 "	110° 109° "	" "	128 "	"	Δ King.	✓

Soundings were taken off the face of Gorman's Packing Co. dock on the south side of Dreier Bay, about 1 mile north of Mallard Bay. A sounding of 39 feet was obtained off, and close to the south end of the dock, 36 feet in the middle and 30 feet at the north end of the dock.

*not in soundings record R.D.*

All soundings and depths shown on this sheet are in feet. Plane of reference M L L W.

Control:- All signal s used were located by triangulation and topography.

The revision at the Prince Packing Co. and Gorman Packing Co. was done by plane table on the boat sheet by H. O. Westby, Aid.

Signals in Cathed Bay and Mallard Bay were located by plane table by H. O. Westby.

STATISTICS

WIRE DRAG SHEEP, DRIER BAY.

PRINCE WILLIAM SOUND, S. W. ALASKA.

(Day)	(Sta. Miles)	(Angles)	(Soundings)
A	6.6	492	45
B	9.3	520	6
C	4.0	428	37
D	4.6	382	1
TOTALS	24.5	1812	89

Respectfully submitted,

Augustus P. Ratti  
Augustus P. Ratti,  
H & G Engr. C & G Survey.

*Approved  
R.F. Perkins*

Copy for Section of Field Records files.

May 26, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
8 volumes of sounding records for

HYDROGRAPHIC SHEET 4777

Locality: **PRINCE WILLIAM SOUND, ALASKA.**

Chief of Party: **R. R. Lukins, 1927.**  
Plane of reference is **M L L W**  
**4.6** ft. on tide staff at **Evans Bay.**

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.

*E. Wade*

Chief, Division of Tides and Currents.

C O P Y

August 18, 1928.

10-LE

To: Commanding Officer,  
Coast and Geodetic Survey,  
Ship SURVEYOR,  
202 Burke Building,  
Seattle, Washington.

Through: Inspector, Seattle Field Station.

From: The Director,  
U. S. Coast and Geodetic Survey.

Subject: Hydrographic Sheet 4777 - Drier Bay, Alaska.

Inclosed are photostats of a section of hydrographic sheet 4777 and of the sounding record accompanying the sheet.

The record describes Point "B" as a "point about latitude  $60^{\circ} 20.4N$  and longitude  $147^{\circ} 46'.2W$ ". There are two points which may answer this description, but selecting the one which appears to conform to the sketch in the record and to the plotting on the boat sheet throws several 22 and 24 foot soundings into an area covered by the wire drag with an effective depth of 30 feet.

It is requested that you plot the soundings on the photostat, indicating the correct position of Point "B".

The descriptive report accompanying this sheet gives several soundings taken off the face of the Gorman's Packing Company dock, but gives no data for tidal reduction. Unless the date and time can be furnished, these soundings can not be used.

(Signed) R. L. Paris

Acting Director.

2 inclosures.

POST-OFFICE ADDRESS: P. O. Box 2625, Fort Myers, Fla.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

OCT 1 11 43 AM '28

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*Arms*

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY  
STEAMER HYDROGRAPHER

Fort Myers, Fla.,  
Sept. 29th, 1928.

*Film in description report*

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

From: Commanding Officer,  
Steamer HYDROGRAPHER.

Subject: Hydrographic Sheet 4777, Drier Bay, Alaska.

Point "B" as shown on the photostat of sheet 4777 is correctly placed. These soundings were run on ranges by me, and the lead was watched carefully all the time. They are, I am confident, correct.

It is possible in the confined area at the head of Drier Bay with the wire drag launch on the east end of the drag circling to make the necessary swinging course that the position angles were not marked at the same instant, and the end buoy of the drag marked even later yet, plotting the drag erroneously. On a swinging course this buoy position changes rapidly.

The shore stations are close therefore changing rapidly, and in addition the sheet is 1:10,000 scale so that unusual care would have to be taken with position angles in this small difficult area.

As I was not on either the Guide or End launch, I am not able to state that this happened, but it looks to me like the probable cause of the inconsistency.

I am returning letters dated Aug. 18th and Sept. 8th; photostat of sheet 4777 and photostat of sounding record.

*Charles Shaw*  
Charles Shaw.

*Note: Sdgs. should be retained - wire drag area either rejected or adjusted to show this area not covered. Arms.*

POST-OFFICE ADDRESS: 202 Burke Bldg., Seattle, Wash.

TELEGRAPH ADDRESS:

SEP 20 8 29 AM '28

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
Str. SURVEYOR.

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Sunny Cove, Alaska,  
Sept. 8, 1928.

To: The Director,  
Coast & Geodetic Survey.

From: Commanding Officer,  
Str. SURVEYOR.

Subject: Hydrographic Sheet 4777 - Drier Bay, Alaska.

Ref.: Office letter of Aug. 18, 10-LE

The wire drag work on the above sheet was done by Mr. Ratti and the sounding was done by Mr. Shaw, neither of whom are now in this party.

As I remember the instance, the point "B" is as shown on the photostat, and I think the line of soundings should be held.

It was difficult to handle the drag in this dead end of the bay and it was for that reason that I had the soundings run as an extra precaution. I remember that the drag was aground for some time in this vicinity, and it is no doubt due to incompleteness of the record if the 24' spot is shown as covered.

With reference to the soundings off the dock of the Gorman Packing Co, it is my understanding that they have been reduced in accordance with the next paragraph in the descriptive report. I am unable to locate the original record showing these soundings. I would suggest that Mr. Ratti be communicated with in regard to these soundings.

  
R. R. Lukens,

Commanding.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4777

HYDROGRAPHIC TITLE SHEET  
WIRE DRAG SURVEY.

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. L

REGISTER NO. 4777

State S. W. ALASKA

General locality PRINCE WILLIAM SOUND 17

Locality DELER BAY 8

Scale: 10,000 Date of survey May, 1927

Vessel sStr. SURVEYOR.

Chief of Party R. R. Lukens

Surveyed by A. P. Ratti

Protracted by A. P. Ratti

Soundings penciled by A. P. Ratti.

Soundings in ~~fathoms~~ feet

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by A. P. Ratti

Inked by A. P. Ratti.

Verified by \_\_\_\_\_

Instructions dated February 3rd, 1927

Remarks: \_\_\_\_\_