

3987

Diag. Cht. No. 8202-1

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. Office No. H-3987

LOCALITY

State ALASKA

General locality STEPHANS PASSAGE

Locality WEST OF DOUGLAS ISLAND

194 17

CHIEF OF PARTY

L.O. Colbert

LIBRARY & ARCHIVES

DATE NOVEMBER 5, 1917.

B-1870-1 (1)

3987

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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. **3987** (Field No. 3)

State **Southeast Alaska**

General locality **Stephens Passage**

Locality **West Side Douglas Island**

Chief of party **L. O. Colbert**

Surveyed by **Wire Drag Party No. 4**

Date of survey **1917**

Scale **1-20,000**

Soundings in **Feet**

Plane of reference **Mean lower low water**

Protracted by Soundings in pencil by **B. F.**

Inked by Verified by

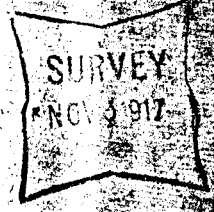
Records accompanying sheet (check those forwarded):

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

Sounding books, Wire-drag books, Photographs.

Data from other sources affecting sheet :

Remarks:



DEPARTMENT OF COMMERCE.
COAST AND GEODETIC SURVEY
E. LESTER JONES
SUPERINTENDENT.

H. & G. ENGINEER IN CHARGE (S)

A DESCRIPTIVE REPORT
to accompany
WIRE DRAG SHEET NO...3987..(FIELD NO.#3)

STEPHENS PASSAGE,
WEST OF DOUGLAS ISLAND.
SOUTHEAST ALASKA.

WIRE DRAG PARTY NO. 4 .
L. O. COLBERT, CHIEF OF PARTY.
1917.

Scale of sheet 1 - 20,000.

PROGRESS CHART

SHOWING CONDITION OF RECORDS OF

Hydrographic Sheet No. 3987 Field No. III

Wire drag survey of Stephens Passage, Vicinity of Douglas Island

Scale 1-20,000

Date of Survey May 1917

Surveyed by Wire Drag Party No. 4

Day	DATE	Signaled angles compared	Distances entered	Distances checked	Length of upright entered	Length of upright checked	Correction entered	Correction checked	Drag depth entered	Drag depth checked	Reducers entered	Reducers checked	Effective depth entered	Effective depth checked	Effective depth diagram entered	Effective depth diagram checked	Positions plotted	Dragged strip traced	Tracing checked	Area subdivided	Subdivision checked	Transferred and inked	Compared with chart
A	May 26-1917	GKK RJB	RJB	WIK	-	-	-	-	ER	BF	BF		BF	BF			BF			BF		BF	
B	June 1- "	GKK RJB	RJB	WIK	-	-	-	-	ER	BF	"		"	"			BF			BF		BF	
C	Sept 2- "	"	RJB	ER	-	-	-	-	ER	"	"		"	"									
D	" 3 "	"	"	ER	-	-	-	-	"	"	"		"	"									
E	" 4 "	"	"	"	-	-	-	-	"	"	"		"	"									
F	" 5 "	"	"	"	-	-	-	-	"	"	"		"	"									
G	" 6 "	GKK EER	LOC	"	-	-	-	-	"	"	"		"	"									
H	" 7 "	GKK RJB	RJB	"	-	-	-	-	"	"	"		"	"									
	End of season																						

A DESCRIPTIVE REPORT
to accompany
WIRE DRAG SHEET NO.. **3987**. (FIELD NO. 3)

Locality and Limits:

The area completed on this sheet is located in that part of Stephens Passage lying west of Douglas Island. It extends from Outer Point to Young Point, including the area of Young Bay. There is also a midchannel strip extending six miles east of Young Point.

Drag Depths:

The standard depth dragged was to 85 feet at mean lower low water. The lines adjacent to shore were of less depth than this standard, usually about 45 feet.

Shoals Located.

There were no important dangerous shoals found in this survey. Seven different spots with depths less than charted were located but none of these were shoal enough to interfere with the passage of steamers.

Adjacent Sheets:

The work on the north end is joined by that on Field Sheet No. 2. On the east end the area covered by the sheet as laid out was not completely ~~covered~~ dragged due to telegraphic instructions to stop field work.

Tides:

For the reduction of soundings and drag depths, the automatic tide gauge at Auke Bay was established.

Coast Pilot Notes:

The only anchorage used by this party in this section was in Young Bay, on the west side of Auke Cove Island in 10 fathoms soft bottom. This affords good protection in southeast weather but southwest and westerly winds draw thru the the gap at the head of the Young Bay with considerable force. The Bay and Passage opposite ~~are~~ very choppy when these winds are blowing.

Remarks:

The smooth sheet and records of this work were forwarded to the Office for compilation by the officers of this party but these officers have been transferred to ~~the~~ other parties in the meantime. It is therefore requested that arrangements be made for the proper supervision of this work.

L. O. Robert.

Hyd. and Geo. Engr.

Chief, Wire Party No. 4

appendix attached

BF.

Original

Appendix to accompany
Descriptive Report No. 3987.

DESCRIPTIONS OF SHOALS AND SPECIAL SOUNDINGS

A least depth of 43 feet, soft bottom, was found close inshore to Douglas Island, about 1510 meters ~~north~~^{east} of signal Lit.

Lat. $58^{\circ}-15'$ - 558 meters
Long. $134^{\circ}-38'$ - 810 "

Note: These positions are not on the N.A. 1927 Datum.

L.S.S.
10/28/38

About 350 meters ~~west~~^{North} of this, a depth of 48 feet, mud bottom, was found; ~~southwest~~^{east} of the depth of 43 feet, a shoal of soft bottom exists covered by 63 feet of water, about 1210 meters northeast of \odot Lit.

Pos. of 48 ft. shoal - Lat. $58^{\circ}-15'$ - 920 meters
Long. $134^{\circ}-38'$ - 844 "

^{South} West of Scull Island and close inshore, a sounding of 14 feet was found. A rocky ledge, about 600 meters long, 200 meters wide, makes out ~~southwest~~^{east} from here, reaching a depth of 82 feet at the end. Least depth about 210 meters ~~west~~^{South} of signal Cul.

Lat. $58^{\circ}-12'$ - ¹⁵⁰ 726 meters
Long. $134^{\circ}-38'$ - 726 "

At the head of Young Bay, about 1970 meters ~~southeast~~^{North} from signal East, a pinnacle rock, least depth of 57 feet, was found, surrounded by 65 to 100 feet of water with soft bottom which extends about 300 meters ~~north and south~~^{East West}, 150 meters wide.

Lat. $58^{\circ}-10'$ - 1005 meters
Long. $134^{\circ}-38'$ - 945 "

~~west~~^{North} A very regular shoal of soft bottom extends out from the shore ~~north~~ of Young Point, with a least depth of 52 feet. This shoal, north and south, is about 450 meters long, 100 meters wide and sticky in places. Kelp exists about 200 meters inshore from the least sounding of 52 feet which is approximately 1230 meters ~~north~~^{West} of signal Yun.

Lat. $58^{\circ}-11'$ - 1107 meters
Long. $134^{\circ}-34'$ - 645 "

falls on 4-6-268 (1927)

About 1900 meters due ~~north~~^{west} of signal Eagle, a least depth of 78 feet was obtained with rocky bottom. This is surrounded by 15 to 20 fathoms of water, soft bottom.

Lat. $58^{\circ}-16'$ - 1240 meters
Long. $134^{\circ}-42'$ - 83 "

Benjamin Friedenberg
Aid, Coast and Geodetic Survey.

January 19, 1918.

Corrections & variations
1-28-18 B.F.

ADDRESS
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO NO.

5-VBC

LIBRARY

Place with descriptive report
of hydrographic sheet No. 3987

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY
Drawing Section.
WASHINGTON

March 12, 1918.

J.S.S.J.
HYDROGRAPHY ETC., (HT)

Chief, Division of Hydlog. & Topog.: ✓ *HCG*

Chief, Division of Charts:

Tidal reductions have been approved in
3 volumes of Wire-Drag and Sounding records for

HYDROGRAPHIC SHEET 3987

Stephens Passage, Alaska
L.O.Colbert in 1917.

Plane of reference is
Mean lower low water, reading

3.8 ft.on tide staff in Auke Bay, north
end of Stephens Passage.

L. P. Shidy

Acting Chief, Section of
Tides and Currents.

Hyd. Sheet No. 3987

Within the limits of the work, the area is well dragged. Overlaps are sufficient and shoal areas have been developed.

On G day, one buoy was set at a much shoaler depth, through an error and therefore there is an area which was only covered to an effective depth of twenty feet.

Three small splits were developed by the verification.

R. L. Johnston

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DRM

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

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 3987

Surveyed in 1917.

Chief of Party: L. O. Colbert

Surveyed by: L. O. Colbert. Instructions dated March 8, 1917.

Protracted and Inked by: A. L. Shalowitz and B. F. Friedenbergl.

Verified and Area and Depth Sheet by: R. L. Johnston.

1. The depth and extent of dragging satisfy the specific instructions except for the fact that a narrow strip in mid-channel at the north end of the sheet was dragged to only 20 feet through an error.
2. The least water was found on the shoals discovered.
3. The overlaps are sufficient.
4. Further dragging will be required on this sheet to cover several small splits and when this is done the narrow strip that was dragged over to only 20 feet should be gone over with a deeper drag. The drag should also be carried closer to the west and south shores of Stephens Passage as well as around Pt. Young. This sheet was left unfinished on account of telegraphic instructions having been received to discontinue work as noted in descriptive report.
5. Reviewed by A. L. Shalowitz, November, 1922.