

FE 169

WIRE DRAG

Diagram No. 8002-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey ... Wire Drag
Field No. BO-1159-WD
Office No..... FE-169WD

LOCALITY

State Alaska
General Locality .. Yakutat Bay
Locality Monti Bay

1959

CHIEF OF PARTY
H.J. Seaborg

LIBRARY & ARCHIVES

DATE August 31, 1969

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as;

FE No.3 1959WD

FE 169
WIRE DRAG

80
AUG 21 1959

F E No. 3 (FE 169 WD)

1959

WIRE DRAG

Diag. Cht. No. 8002-2.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	WIRE DRAG
Field No.	B0-1159-WD
Office No.	F.E.No.3 (1959) W.D.
LOCALITY	
State	ALASKA
General locality	YAKUTAT BAY
Locality	MONTI BAY
1959	
CHIEF OF PARTY	
H. J. SEABORG	
LIBRARY & ARCHIVES	
DATE	AUG 21 1959

USCOMM-DC 5087

F E No. 3
WIRE DRAG
1959

DESCRIPTIVE REPORT

To Accompany

Wire Drag Survey H , Field No. BO-1159 WD

Scale 1:10,000

June 1959

H. J. Seaborg

Chief of Party

A. PROJECT: (a) INSTRUCTIONS - Special Project 1-59, Lituya Bay and Yakutat Bay, Alaska dated 27 March 1959.
(b) Letter from Chief, Coastal Surveys Division, subject, Plans for Field Season, dated 25 February 1959.
(c) Director's letter, subject, Plan of Operation, dated 25 May 1959.

B. SURVEY LIMITS AND DATES: The instructions called for the wire drag survey of a questionable 11 fathom sounding in the middle of Monti Bay obtained by PATHFINDER in September 1958, their hydrographic survey H-~~8778~~ ^{8461 (1958)} Field work began 24 June and ended 26 June.

C. VESSEL AND EQUIPMENT: The 26 foot motor whaleboat (wood) and the 26 foot plastic launch were used as towing vessels. Standard wire drag equipment was used although end buoy weights were only 85 pounds each. The drag was made up aboard BOWIE which was at anchor close to the drag operations. An 808 fathometer mounted in the plastic launch was used for sounding over the wreck. Dual control was effected by use of radio transceivers. A 14 foot aluminum skiff with outboard was used as the tender and the drag tested by standard testing bar mounted on a wooden float.

D. TIDE STATION: Predicted values for the standard station at Yakutat were used for field tide reducers. True tide values from this same station were furnished later for smooth processing of records.

E. SMOOTH SHEET: The guide launch boatsheet has been forwarded and it is not contemplated that a smooth sheet will be necessary for the survey of this one obstruction.

F. CONTROL STATIONS: Existing triangulation and topographic stations were recovered and used to locate one additional hydrographic station to amply control this survey.

H. SOUNDINGS: An 808 type fathometer with inboard mounted transducers was used for sounding from the plastic launch.

I. CONTROL OF WIRE DRAG: Sextant angle control was used throughout this survey.

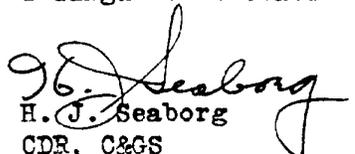
J. ADEQUACY OF SURVEY: This survey definitely proved the existence of an obstruction in Monti Bay. This obstruction, believed to be the remains of a sunken vessel, was hung and wrapped from opposite directions; and was cleared with an effective drag depth of 61 feet. See the Commanding Officer Ship BOWIE preliminary reports dated 28 and 30 June 1959.

M. COMPARISON WITH CHART: Existing charts of this area do not show this obstruction. The next printing of Charts 8455 and 8402 will show a basket symbol, cleared depth of 10 fathoms with the annotation "Obstr". See Assistant Director's letter dated 8 July 1959: Subject, Obstruction, Monti Bay, Alaska.

N. DANGERS AND SHOALS: The newly found danger is an obstruction located at North Latitude $59^{\circ} - 33'$ plus 243 meters; West Longitude $139^{\circ} - 46'$ plus 923 meters. Effective drag depths of 86 feet, 75 feet and 70 feet hung on the obstruction. A 64 foot effective depth drag momentarily hung on the obstruction and then pulled free. An effective drag of 61 feet cleared the obstruction. Reduced fathometer soundings of 74 feet, 77 feet and 64 feet were obtained over the wreck. Hand lead soundings of 14 fms. and 14.5 fms. were also obtained. There is considerable shading over the solid soundings shown on the fathograms; and this is believed to be a heavy growth of onion kelp on the obstruction. This was somewhat verified when the intermediate buoy in the near vicinity of the actual hang was found with four long tendrils of onion kelp 30 to 40 feet long and a heavy growth of leaf foliage entangled in the upright wire. It is supposed that the ground wire cut kelp from the top of the obstruction.

Z. TABULATION OF APPLICABLE DATA:

- (a) Preliminary Report, Obstruction Monti Bay, Alaska dated 28 June 1959, forwarded 8 July 1959.
- (b) Additional Information dated 30 June 1959, forwarded 8 July 1959.
- (c) Guide Launch Boatsheet BO-1159-WD forwarded 8 July 1959.
- (d) End Launch Boatsheet BO-1159-WD to be forwarded.
- (e) Plastic copy of PATHFINDER survey September 1958 to be forwarded.
- (f) Film positives, topographic surveys 6830a and 6830b to be forwarded.
- (g) Three Recovery Notes, Triangulation Stations Form 526 to be submitted.


H. J. Seaborg
CDR, C&GS
Commanding Ship BOWIE

ABSTRACT OF STATISTICS
 WIRE DRAG SHEET BO-1159-WD
 SHIP BOWIE SPECIAL PROJECT 1-59

<u>DATE</u>	<u>DAY LETTER</u>	<u>VOLUME</u>	<u>POSITIONS</u>	<u>HAND LEAD SDGS.</u>
6/25	A	1	27	2
6/26	B	1	19	0
		TOTALS	46	2

NAUTICAL MILES
DRAG LENGTH

1.8

SQUARE NAUTICAL MILES
DRAG AREA

0.14

TIDE NOTE

WIRE DRAG SHEET BC-1159-WD

Actual values obtained from the standard tide gage at Yakutat, Alaska, Latitude $59^{\circ} - 32.8'$ and Longitude $139^{\circ} - 44.1'$ were used for the reduction of soundings and to obtain effective drag depths.

off on H-8421

LIST OF SIGNALS

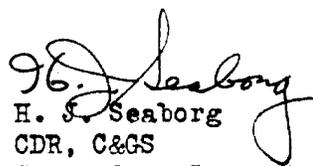
SHEET BO-1159-WD

<u>NAME</u>	<u>TYPE</u>	<u>SOURCE</u>
BOLD	Triangulation	BOLD 1941
BUL	Topographic	Sheet 6830a
CAR	Triangulation	CARREW 2, 1941
CAVE	Triangulation	CAVE 1941
LIGHT	Triangulation	KHANTAUK IS. LIGHT 1958
PIL	Hydrographic	Volume 1 W.D. 1959

APPROVAL SHEET

SHEET BO-1159-WD

The Chief of Party engaged in this survey personally, directing all activities from the Guide Launch. The survey is considered complete and adequate and no additional work is required.


H. J. Seaborg
CDR, C&GS
Commanding Ship BOWIE

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coast and Geodetic Survey~~

10 November 1959

Division of Charts: R. H. Carstens

Plane of reference approved in
2 volumes of ~~splicing~~ records for
wire drag

HYDROGRAPHIC SHEET FE No. 3 1959

Locality Yakutat Bay, Alaska

Chief of Party: H. J. Seaborg
Plane of reference is mean lower low water, reading
3.0 ft. on tide staff at of 1940 at Yakutat
28.7 ft. below B. M. 1 (1940)

Height of mean high water above plane of reference is 9.2 feet.

Condition of records satisfactory except as noted below:

L. C. Wharton
Acting Chief, Tides Branch
~~Chief, Division of Tides and Currents.~~

GEOGRAPHIC NAMES

Survey No. F.E.No. 3
(1959) W.D.

Name on Survey	A	B	C	D	E	F	G	H	K	
										1
										2
										3
										4
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										25
										26
										27

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

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E.No.3-1959 W.D.

Records accompanying survey:

Boat sheets 1...; sounding vols.; wire drag vols. 2...;
 bomb vols.; graphic recorder rolls 1-Envelope
 special reports, etc. 1-Smooth sheet, 1-Descriptive report,
1-Film Positive T-6830a, 1-Film Positive T-6830b and 1-Plastic
 Copy.H-6718.....

The following statistics will be submitted with the cartog-
 rapher's report on the sheet:

Number of positions on sheet	.....	46
Number of positions checked	.....	17
Number of positions revised	.....	0
Number of soundings revised (refers to depth only)	.....	0
Number of soundings erroneously spaced	.....	0
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	..... 0
Junctions	Time	..... 0
Verification of soundings from graphic record	Time	..... 0.5 hr.
Verification by <i>J. Zeskund</i>	Total time	..... 11.. Date 8/29/61
Reviewed by <i>J. Zeskund</i>	Time	..... 2 Date 8/29/61

FIELD EXAMINATION NO. 3, 1959

Alaska, Yakutat Bay, Monti Bay

1. The field examination was made in compliance with Instructions for Special Project 1-59, dated 27 March 1959, letter from Chief, Coastal Surveys Division, dated 25 February 1959 and the Director's letter dated 25 May 1959.
2. The purpose of the examination was to confirm or disprove the existence of an obstruction in Monti Bay, Alaska.
3. The results of the examination are shown on the accompanying section of smooth sheet and an area and depth diagram on tracing cloth.
4. The work was applied to Chart 8402, dated 30 May 1960.
5. A comparison with the unverified survey H-8461 (1958), disproves the existence of the 3-fm. sounding pencilled in Lat. $59^{\circ}33.12'$, Long. $139^{\circ}46.97'$. The field examination shows a depth of 64 ft. here.
6. The Descriptive Report covers all matters pertaining to this examination. No further discussion is considered necessary.

Reviewed by - I. M. Zeskind
8-29-61

Inspected by - R. H. Carstens

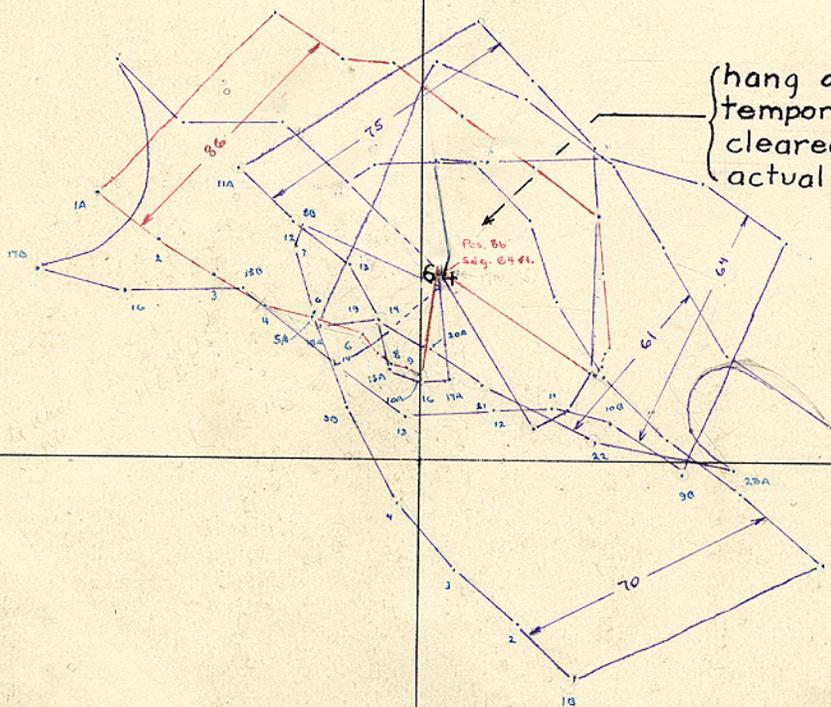
FIELD EXAMINATION No. 3, 1959
 ALASKA
 YAKUTAT BAY
 MONTI BAY

Ship: Bowie Scale: 1-10,000
 Soundings and effective wire-drag
 depths are true depths in feet at MLW.

KHANTUAK IS.
 LIGHT 1958



MLLW



hang at 70 ft.
 temporary hang at 64 ft.
 cleared by 61 ft.
 actual sounding 64 ft.

Pos. 86
 Sdg. 64 ft.

141°

140°

139°

ALASKA
CANADA

Mt. Logan
18,950

Mt. Newton
15,470

Mt. Augusta
14,070

Mt. Irving

Mt. Vancouver
15,700

Mt. Alverstone
14,500

Mt. Hubbard
14,950

Mt. St. Elias
18,000

Haydon Pt.
11,920

Mt. Owen
8,665

Mt. Cook
15,760

Mt. Seattle
10,070

Mt. Jette
8,460

60°00'

Malaspina Glacier

Sitka Bluffs

F. E. No. 3 (1939)
W.D.

AERO R. R. Rte.
Mantak 385 ft.

Ocean Cape
AERO Rpt.

Mt. Aylesworth
8,910

Mt. Armour
8,170

Mt. Duff
7,170

Mt. Wade
7,860

Mt. Herbert
6,090

ALASKA
CANADA

