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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. 5243 Office No. 6856

LOCALITY

State Alaska

General locality Icy Strait  
Excursion Inlet

Locality Army Munitions Depot

194 3

CHIEF OF PARTY

Elliott B. Roberts

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H6856

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. 5243

REGISTER NO. H-6856

State Alaska

General locality Icy Strait  
Excursion Inlet

Locality Army Munitions Depot

Scale 1:5,000 Date of survey Oct. 20-22, 1943

Vessel M. V. E. LESTER JONES

Chief of Party Elliott B. Roberts

Surveyed by E. B. Brown

Protracted by R. M. Sylar

Soundings penciled by R. M. Sylar

Soundings in fathoms ~~feet~~ Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by G. F. Jordan

Verified by G. F. Jordan

Instructions dated Director's Letter of Aug. 13, 1943

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

DESCRIPTIVE REPORT TO ACCOMPANY SHEET FIELD NO. 5243  
SE ALASKA, EXCURSION INLET, VICINITY OF ~~BARGE TRANSFER~~  
~~DEPOT AND~~ ARMY MUNITIONS DOCK

Original Instructions: Director's letter dated 13 August 1943. ✓

Survey Methods: Standard practice using the 808A depth recorder ✓  
was followed throughout. This instrument was installed by this  
party in a standard U. S. Army 40-foot motor sailer.

One serial temperature observation was made to control the applica- ✓  
tion of velocity corrections. Many small fresh water streams empty  
into Excursion Inlet which accounts for the low specific gravity  
results obtained near the surface.

All hydrographic lines were run by means of ranges which accounts ✓  
for no tabulation of compass courses in the records.

Discrepancies: No noteworthy discrepancies were noted during the ✓  
work.

Dangers: Dangers do not exist within the area surveyed. ✓

Anchorage: No anchorages exist within the area surveyed. ✓

Previous Surveys: Previous surveys were done in 1914 and ~~1923~~.

Geographic Names: No additional geographic names are involved.

Forwarded:

signed/ Elliott B. Roberts  
Lieut. Comdr., USC&GS,  
Commanding

signed/ E. B. Brown,  
Lieut. USC&GS

ARMY PROJECT, EXCURSION INLET, SE ALASKA 20 - 22 October 1943  
 Vicinity of ~~Barge Transfer Depot~~ and Army Munitions Dock,

DETERMINATION OF DEPTH RECORDER SCALE FACTOR CORRECTIONS FOR 5143 & 5243.

808A DEPTH RECORDER NO. 47

Comparative depth readings:

A scale	B scale	Diff.	Condition	Pos. No.	Sdg. Day	Date
						Oct.
48-1	46-4	1-3	Good	19	a(5143)	20
53-5	52-2	1-3	Good	29	a(5143)	20
49-0	47-3	1-3	Good	77	a(5143)	20
49-0	47-4	1-2	Good	87	a(5143)	20
48-1	46-4	1-3	Good	100-101	a(5143)	20
48-5	47-3	1-2	Good	156-157	a(5143)	20
51-1	49-5	1-2	Fair	62	c(5143)	22
54-0	52-3	1-3	Fair	30	a(5243)	21
49-2	47-5	<u>1-3</u>	Good	34	a(5243)	21
	Mean plus	1-3				

Conclusion: Add 9-feet to all B scale soundings on project.

SEATTLE PROCESSING OFFICE NOTES

EXCURSION INLET

After plotting H-6855 and H-6856, <sup>(blueprints)</sup> tracings were prepared for navigation sheets for the Officer in Charge, Water Division, Army Transport Service, Excursion Inlet. *Blueprints retained with smooth sheet*

\* Compilation of Navigation Sheet - Alaska Barge Transfer Depot:

The topography shown on T-6926a was transferred to the navigation sheet. The shore line from the 1914 sheet T-3460 was used from Latitude 58° 24' northward for half a mile to the newly dredged creek channel. Here a junction was made with the shore line along the slope of a new fill which is shown on Drawing D-18 - Alaska Barge Terminal Waterfront Layout - by Guy F. Atkinson Co. The position of the H.W.M. along the slope of the fill is not known, but a line was assumed and used. As the scale was reduced from 1:1,200 to 1:5,000, the uncertainty is small.

*blueprint Nos  
37877-~~80~~ to  
37880*

Between "A" Dock and "B" Dock, the high water line follows another fill, and was taken from the same source.

North of "B" Dock to "C" Dock, the shore line between the fills for the two wharves is taken from T-3460.

Structural features near the shore line and wharves, and the roads serving the wharves were taken from Drawing D-18. This was done with the assistance of Commanders Meaney, Roberts, and Bose, who verified the existence of the features. Note that the channels of the two creeks have been changed in preparing the site.

A copy of Drawing D-18 accompanies the records of this project.

Soundings were selected from H-6855 only.

\* *This sheet was constructed and represents existing conditions. The source of material used was the best available in Seattle & probably will have to be followed in using the chart.*

H-6855:

There is no triangulation on the sheet, and none on T-6926b from which the topography is taken. The new work was to be placed on the projection by fitting new topography to old topography of T-3460 (1914). On T-6926b there are cuts on tangents to points

along the west side of Excursion Inlet for orientation.

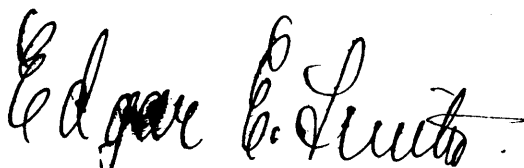
An enlargement of the necessary parts of T-3460 was made on a tracing and placed over a tracing of T-6926b. The topography of T-6926b was fitted to the old topography in the following manner:

- (1) The old marine railway was recovered. The intersection of the railway with H.W.M. was held as common to both sheets.
- (2) The sheets were adjusted in azimuth to fit:
  - (a) S.E. gable of cannery.
  - (b) The shore line at the western part of the new sheet.
  - (c) The shore line at the south end of the beach where the L.W.M. runs into H.W.M. at the foot of the bluffs.
  - (d) Tangent cuts to the old topo points shown on new topo plate - T-6926b (I-1943).

A compromise was made with the above items and the 1914 datum of T-3460 was placed on smooth sheet H-6856 to facilitate a junction between the new sheet and the 1914 work.

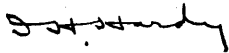
The N.A. 1927 datum was used on the tracing prepared for a navigation sheet by applying the difference found at station STEEP 1914 between the 1914 datum and N.A. 1927 datum.

Smooth sheet H-6855 is on N.A. 1927 datum.



Edgar E. Smith  
Assoc. Cartographic Engineer  
Seattle Processing Office

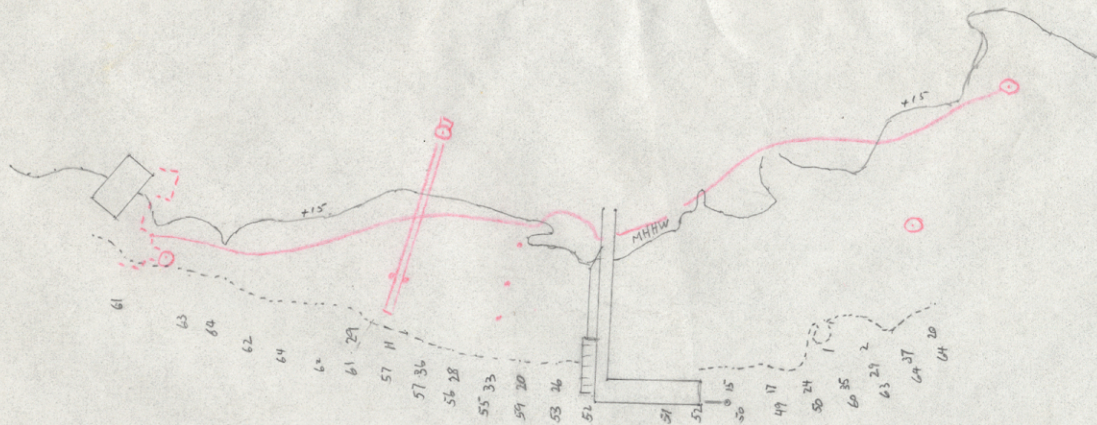
Approved and Forwarded:

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

H-6856

Statistics: Sheet (Field No. 5243)  
Positions -----87  
Soundings----- 0  
Statute miles sounding lines ----- 8.2

6856



- detail from USED

- " " RMS topo - T6926 b



LIST OF HYDROGRAPHIC SIGNALS, Sheet<sup>H6856</sup>(Field No. 5243)

USA LAUNCH (attached to USC&GS MV E LESTER JONES)

North End of Excursion Inlet, SE Alaska

Vicinity of Army Munitions Dock

<u>Name</u>	<u>Origin</u>
ALE	Topo., Field No. L, 1943 T6926
ARM	do.
BAN	do.
GAB	do.
GIN	do.
RYE	do.
SOT	do.

RAC  
HRE

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 19, 1944

~~Division of Hydrography and Topography.~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in  
1 volume of sounding records for

HYDROGRAPHIC SHEET 6856

Locality North End Excursion Inlet, Munitions Dock, Alaska

Chief of Party: E. B. Roberts in 1943  
Plane of reference is mean lower low water reading  
3.7 ft. on tide staff at Munitions Dock  
20.0 ft. below B. M. 3 (1914)

Height of mean high water above plane of reference is 14.9 ft.

Condition of records satisfactory except as noted below:

Plane of reference determined from old B.M. not in agreement with new tidal series. Tide reducers have been corrected to agree with new observations and correction applied to reduced soundings.



Chief, Division of Tides and Currents.

Remarks

Decisions

	Remarks	Decisions
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GEOGRAPHIC NAMES  
 Survey No. **H6856**

Name on Survey										
	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		
	A	B	C	D	E	F	G	H	K	
Alaska										1
Excursion Inlet										2
Army Munitions Depot										3
										4
										5
										6
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Surveys Section (Chart Division)

**H6856**

HYDROGRAPHIC SURVEY NO. ....

Records accompanying survey:

Boat sheets ....; sounding vols. ....; wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls ....;  
 special reports, etc. ....  
 .....

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

Number of positions on sheet	..87.	
Number of positions checked	...2.	
Number of positions revised	....0.	
Number of soundings recorded	..500 (approx)	
Number of soundings revised (refers to depth only)	...0.	(see tidal sheet) corrections not counted.
Number of soundings erroneously spaced	....0.	
Number of signals erroneously plotted or transferred	...0.	
Topographic details	Time ...1.	
Junctions	Time ...0.	
Verification of soundings from graphic record	Time ...2.	
Verification by <i>G.F. Jordan</i> .....	Total time ...6 <sup>2</sup> .	Date Feb. 24, 1944
Review by <i>G.F. Jordan</i> .....	Time ...3.	Date Feb. 24, 1944

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	}	No. H No. T	H6856	{	received registered verified reviewed approved
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This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
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30			
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62			
63			
82			
✓ 83		<i>HF</i>	<i>Comdr Finnegan.</i>
88			
90			

RETURN TO

82	Comdr. R. W. Knox
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DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6856

Field No. 5243

Alaska, Icy Strait, Excursion Inlet  
Surveyed in October 1943; Scale 1:5,000  
Instructions dated August 13, 1943

Soundings:

Hand lead  
808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - E. B. Roberts  
Surveyed by - E. B. Brown  
Protracted by - R. M. Sylar  
Soundings plotted by - R. M. Sylar  
Verified and inked by - G. F. Jordan  
Reviewed by - G. F. Jordan  
Inspected by - H. R. Edmonston, February 28, 1944

1. Shoreline and Signals

The signal control for this survey is from T-6926b; the orientation and projection from T-3460 (1914), and tangent cuts from T-6926a. These cuts are adequately discussed by the processing office in notes in the descriptive report. The projection is on the datum of the 1914 survey. The adjustment to the 1927 datum has been shown on the smooth sheet.

The shoreline is from T-6926b.

2. Sounding Line Crossings

Satisfactory.

3. Submarine Features

The depth curves are satisfactory. There are no irregularities in the bottom.

4. Junctions with Contemporary Surveys

There are no contemporary junctional surveys on this special project.

5. Comparison with Prior Surveys

H-3672 (1914), 1:20,000 scale, is the only prior survey in this area. The difference in scales does not allow a suitable comparison. There are no noticeable discrepancies in depth.

6. Comparison with Wire Drag Surveys

There are no wire drag surveys within the limits of the present survey.

7. Comparison with Chart 8302 (latest print of 9-25-43)

This chart, on a scale of 1:80,000, does not offer a suitable comparison with the present survey. The agreement is satisfactory.

There are no dredged channels nor aids to navigation in this area.

8. Condition of the Survey

The descriptive report and sounding records are complete in all detail. The smooth plotting was very good.

The number of soundings in the records and on the smooth sheet were doubled by scaling every 15- instead of 30-second intervals.

9. Compliance with Instructions for the Project

Satisfactory.

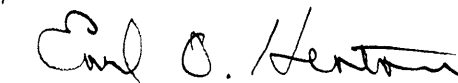
10. Additional Field Work Recommended

None.

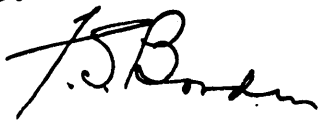
11. Superseded Surveys

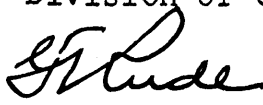
H-3672 (1914) is superseded in part.

  
Chief, Surveys Branch

  
Chief, Section of Hydrography

Examined and approved:

  
Chief, Division of Charts

  
Chief, Division of  
Coastal Surveys



applied to chart 8302 6/9/44 GHE  
\* \* \* 8202 7/12/44 R.