

4251

Diag. Chart No. 8201-3

4251

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State <i>Alaska</i>
21-6013
DESCRIPTIVE REPORT.
<i>Hyd.</i> Sheet No. <i>4251</i>
LOCALITY:
<i>Zinnovia Strait</i>
<i>Armita Bay</i>
19 <i>22</i>
CHIEF OF PARTY:
<i>A. M. Sokolowski</i>

DEPARTMENT OF COMMERCE
U.S. COAST & GEODETIC SURVEY

E. Lester Jones, Director.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "G"

Anita Bay & Approaches, Zimovia Str.
S.E. Alaska

Scale 1:20,000 (Polychonic)

-----ooOoo-----

Season of 1922

Steamer WENONAH

A. I. Sobierulski, H. & G. E., Chief of Party

DEPARTMENT OF COMMERCE
U.S.COAST AND GEODETIC SURVEY

E. Lester Jones, Director.

D E S C R I P T I V E R E P O R T

to accompany

HYDROGRAPHIC SHEET "C"

Anita Bay & Approaches, Zimovia Str.
S.E.Alaska
Scale 1:20,000 (Polychonic)

-----ooOoo-----

Season of 1922

Steamer WAIKOHIAH

A. M. Sobieralski, H. & G. E., Chief of Party

DESCRIPTIVE REPORT OF

Sheet "G"

Anita Bay, S.E. Alaska

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This is a 1:20,000 projection for the development of Anita Bay and its approaches. Due to the lateness of the season and concurrent bad weather, the work was hurried on this sheet, only the bay and approaches being completed. Two parties worked on the sheet using steam launch "117" and gas launch Wire Drag Tender #2, with hand sounding machines.

ANITA BAY opens on the west side of Zimovia Strait 7 miles south of Chicagoff Pass and about 3 miles northwest of the Village Islands. It is one mile wide at its entrance with a depth of 42 fathoms, opening S. S. E. (true) for 2 miles where it carries a depth of 35 fathoms and is 1-1/8 miles wide, thence swinging west for 3 1/2 miles ending in low densely wooded shore where it narrows to 1/2 mile in width.

The water shows clear for full length of bay and is deep inshore on both sides to 1 mile of its head, with the exception of a shoal making off N.E. for 1/6 mile from the point on south shore 3 miles from entrance, this point being the N.W. tangent of a large bight which has 10 fathoms, 1/8 mile from its head. From 1 mile N.E. to the head of bay the water shoals rapidly inshore.

There are several streams making into the head of the bay - the bights at their mouths all go dry at low water, and a canoe passage to Burnett Inlet at high water is reported through the bight on south shore 1/2 mile east of head of bay. This bight dries 100 meters off shore.

ANCHORAGE.- Anchorage with protection may be had in 13 fathoms, mud and sand, 1/2 mile east of head of bay. The off-lying shoals however restrict this area for larger craft which would do better to anchor in 20 fathoms 1 mile N.E. from head of bay, the bay here is 1/3 mile wide but the water is deep inshore. Strong gusts of wind were experienced in this bay, when comparatively calm in Zimovia Strait.

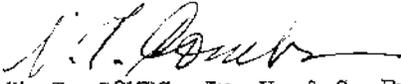
APPROACHES.- Anita Point, the N.E. tangent of Anita Bay is rounded and indefinite until close aboard. It lies 1-1/3 miles W.S.W. from Turn Island and may be safely rounded 1/6 mile off.

A group of rocks lie in the mouth of the small bight 1 mile east of Anita point, and the bight 1 1/2 miles N.N.W. of Anita point dries from 50 meters off shore. The point 1/2 mile north of this bight is clear.

GENERAL.- A fairly strong current draws in and out of Anita Bay with the tides, and it roughens up with a N.W. breeze and ebb tide for the first 3 miles in. A shack stands on the north shore about 1/2 mile

from the head of the bay.

Respectfully submitted,


W. T. COMBS, Jr. H. & C. Engr.
Hydrographer.

STATISTICS SHEET NO. 5

Date, 1922	Letter	Volume	Positions	Sounds	Miles Statute	Vessels
October 6	a	1	25	61	3.5	Str. Loh. 117
" 10	b	1	84	206	25.0	" " "
" 11	c	1	71	153	17.00	" " "
" 9	a	1	58	114	9.5	Gas Loh. WDF #2
" 11	b	1	63	119	12.0	" " " "
Totals		2	501	553	67.0	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 20, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4251.

Surveyed in 1922.

Instructions dated February 18, 1922.

Chief of Party, A. M. Sobieralski.

Surveyed by W. T. Combs and W. G. Fielder.

Protracted and Soundings plotted by W. C. Aegerter.

Verified and inked by H. W. Tyler.

1. The sounding records are defective in the following respects:

Compass courses omitted throughout.

Notation of bottom characteristics not in accordance with standard practice. The bottom characteristics should be given at top of each page and again when a change occurs.

Pencil used was too soft.

2. The plan and character of development fulfill the requirements of the General Instructions and the extent satisfies the specific instructions.
3. The sounding line crossings are adequate.
4. The information is sufficient for drawing the usual depth curves.
5. The field plotting was completed to the extent prescribed in General Instructions, and the office draftsmen did not have to do any of it over.
6. The only other hydrographic survey adjoining this sheet is the old reconnaissance survey.

7. No further surveying is required within the area of this sheet, except possibly on one spot - the $8\frac{1}{2}$ fathom sounding lying 170 meters off the northwest face of Anita Pt.
8. The character and scope of the surveying are excellent. The field drafting is satisfactory although there were some defects - Soundings were not always plotted according to time intervals between them; fractions did not always conform to the General instructions and the pencil used was too hard.
9. Reviewed by E. P. Ellis, March, 1923.

Section of Field Records
Report on N. Sh. 4251
Surveyed in 1922
Instructions dated

4251

Chief of Party - A. M. Sobieralski
Surveyed by H. T. Combs and H. B. Fielder
Projected by H. C. Aegerter
Sdgs plotted by H. C. Aegerter

Records and notes very good with one exception. "Heading by Compass" was omitted throughout. This was probably due to the fact that launches were used which had no mounted compasses.

Time intervals for part of the penciled soundings were not carefully adhered to. The latter part of the work was better in this respect. Some errors were noted in the use of fraction between 7 and 9 fathoms and also in several cases where soundings were above 9 fathoms $\frac{4}{6}$ fathom was called a whole fathom.

One revolver (a perfect example) led to an error in the plotting of a position. The position was replotted on the circumference of the revolver ~~by~~ time.

A hard pencil was used in the soundings and curves which made changes difficult.

* The bay ~~was~~ ^{is} very deep for the most part and the development is sufficient

(excluding any possible wire drag work).

The smooth sheet was very neat and exceptionally clean. General character of work, ~~very~~ good.

H. H. Tupper.

4251

COPY TO FIELD RECORDS.

Feb. 7, 1923.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4281

Locality: Zimovia Strait, Anita Bay, S. E. Alaska

Chief of Party: A. M. Schieralski in 1922

Plane of reference is mean lower low water, reading
3.4 ft. on tide staff at Olive Cove

For reduction of soundings, 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.

H. A. Manner

Acting Chief, Division of Tides and Currents.

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. G 4251

State . . . ~~SEAS~~ ALASKA

General locality . Zimovia Strait, S. E. Alaska

Locality . Anita Bay

Chief of party . A. M. Sobjeralski, H. & G. Engineer,

Surveyed by . . . W. T. Combs, Jr. H. & G. Engr. W. G. Fielder, Aid.

Date of survey . October 6 to Oct. 11, 1922

Scale 1:20,000

Soundings in . . . Fathoms

Plane of reference M.L.L.W.

Protracted by W. C. A. . . . Soundings in pencil by W. C. Aegerter, D.O.

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, Tide books, Marigrams, . . . 2 Boat sheets,

2 Sounding books, Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks: Location of Tide Gauge - Olive Cove, Zimovia Strait.

Plane of reference, reading on gauge	4.35	ft.
Lowest tide observed " " "	0.9	"
Highest " " " " "	24.9	"