

#### DESCRIPTIVE REPORT

#### To Accompany

## HYDROGRAPHIC SHEET #4

Southwest Alaska, Chignik Bay, Northwest Side.

Clem L.Garner, Chief of Party - - - - Instructions Dated March 11,1924.

This sheet is a 1:20,000 polyconic projection covering the northwest side of Chignik Bay, from Chignik Lagoon to a point 2 miles south of Hook Bay. Its limits are Lat. 56 - 21 to 56 - 30 M., and Long. 158 - 05 to 158 - 30 W. It joins with sheets # 2 and 3 to the south, sheet #5 to the north, and ship's sheet "B" to the east, and contains the balance of the Chignik Bay hydrography not included on these sheets. The YUKON did all but 2 days of the hydrography on this seet, these 2 days were done by the DISCOVERER using tubes. Control; was by triangulation and signals located by plane table triangulation and traverse. Soundings were up and down casts with hand lead and hand sounding machine.

## COAST AND LANDMARKS

The N.W. coast of Chignik Bay goes from a shoal low shore into rolling hills that sweep back for several miles to the bases of the high mountains. The most prominent landmark in this section of the Bay is ingevik Island, lying 2 miles off the north shore of the bay and 9 miles N.E. of Chignik Lagoon. The north shore from this island eastward is steep and broken.

#### n Marrie

The whole of the N.W. side of Chignik Bay is shoal and generally foul to approximately anile off shore. The north shore has 2 prominent reefs making out each terminating with conspicuous bare rocks, one north of Anglevik Island, the other 4 miles to the E.N.E. From the old coal tipple on the N.E. side of Thompson's Valley extending for  $2\frac{1}{4}$  miles N.E. a bad shoal and reef makes out as much as mile off shore. The shore along here is low and sandy and extreme caution in smooth weather would have to be exercised to bring 2 fathoms to within 1/3 mile of this old coal tipple. A rock bares 3/5 mile off the north shore 1 3/5 mile 26 true from A "Ang" on Anglevik Id., and another bares 250 meters S.E. of this one, forming the western limit of the prominent reef at this point. (Small craft can obtain a fair anchorage just west of this reef in ordinary weather). A long reef extends for 1 mile east from Anguvik Island, and seas are usually breaking heavily over it. Practically all dangers are marked by kelp, and by mid-summer a heavy growth extends for 1 to 2 mile off the west and north shores of Chignik Bay.

ANCHORAGES

There are no protected anchorages on this sheet. Small craft may in favorable weather anchor in the lea to north of Anguvik Island. The south side of this island and the long reef making to eastward of it is deep close up. The YUKON anchored in 5 fathoms, sand, just west of the reef making from the main shore 2 miles north by east from Anguvik Island.

WIND AND CURRENTS

During the summer months a strong westerly breeze was prevalent in this section of Chignik Ray, particularily as the sun approached meridian and on a clear day. Strong currents were experienced between lnguvik and the north shore, and in the vacinity of the 27 foot spot 3 miles V.E. of Figger Head. Tide rips were at times encountered from here toward the mough of Chignik Lagoon.

STATISTICS A table of statistics for sheet #4 is attached hereto.

Approved and Forwarded:

Clem L.Garner

Lt. Comdr.,

Chief of Party.

Respectfully Submitted

L& . . . . . . . . . . . . . .

Hydrographer.

STATISTICS SHEET

## TO ACCOMPANY HYDROGRAPHIC SHEET #4

## Sheet 1

DATE 1	924	<u>letter</u>	VOLUME	POSITIONS	SOUNDINGS	MILES STAT.	VESSEL
August	12	а.	1	128	452	31.0	YUKOF
ff	13	ď	1	139	474	35.6	4
16	15	C	2	125	373	32.0	ŋ
11	16	đ	2	38	84	8.5	<b>2</b>
ч	18	е	2	<i>,</i> 36	98	10.6	."
н	19	f	2	49	132	17.8	11
1)	23	g	2	53	54	16.5	и .
н	24	h	5	99	165	31.5	t <del>i</del>
					•		
Sept.	4	A	1	103	256	36.0	DISCOVERER
'1	8	В	1	29 .	70	10.9	н
			,				
Totals		10	4	799	2158	230.4	•

Area = 484 Sq. Statute miles

## Section of Field Records

## ring aparakan kang apang kang kang apang apang a

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4427

Locality: Chignik Bay, S. W. Alaska

Chief of Party: Clem L. Garner in 1924 Plane of reference is Mean lower low water 5.8 ft. on tide staff at Chignik, Anchorage Bay, S. W. Alaska.

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 fathems) not clearly shown in record.6. Leadline correction entered 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 tubeused not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks

Chief, Division of Tides and Currents.

# (Keport on Hyd. Thut 4427 Surged in 1924.

The character and completeness of the records accompanying this sheet mere satisfactory.

The protracting was good.

The plotting of soundings was good except near the shore where the soundings began to get thick, in a number of costs soundings were smitted. In the cases the omissions affeciet there been due to avoid oversending of the figures, but no such difficulty was experienced in supplying the omitted figures in most eases as whom on the sheet. attention meg her be called at this point of the failure of noting on smooth

sheet the bottom characteristics.

The sheet was clean, ligible and from from features marking for draftsmanship

> Respectfully submitted, 8. Jusegari

april 8, 1925.

## ADDRESS THE DIRECTOR U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DEM

#### DEPARTMENT OF COMMERCE

#### U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 29, 1925.

### SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4427

Ohignik Bay, Alaska Peninsula

Surveyed in 1924

Instructions dated March 11, 1924.

Chief of Party, C. L. Garner.

Surveyed by W. T. Combs.

Protracted by W. T. Combs and C. Pierce.

Soundings plotted by C. Pierce.

Verified and inked by G. Risegari.

- 1. The records conform to the requirements of the General Instructions except that no bottom characteristics were obtained with the vertical soundings made in connection with the tube sounding.
- 2. The plan and character of development conform to the requirements of the General Instructions.
- 3. The plan and extent of development satisfy the requirements of the specific instructions with the exception that there are several offlying shoal spots that were not developed.
- 4. The sounding line crossings are adequate, and the information is sufficient for drawing the usual depth curves.
- 5. The usual field plotting was done by the field party. It was faulty in that soundings near shore were unnecessarily omitted, and also bottom characteristics were not placed on the sheet.
- 6. The junctions with the adjoining sheets are satisfactory.
- 7. Additional leadline development is needed on three or four offlying shoals or, what would be better, the larger part of the area of the sheet should be swept with the drag.
- 8. The character and scope of the surveying and field trafting are good.
- 9. Reviewed by E. P.Ellis, April, 1925.



## 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 an possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No(4) 4427

State OUTHWEST ALASKA
Alaska Peninsula General locality
Chignik Bay — Northwest Coast Locality
Chief of party . Clem L. Garmer
Surveyed by W. T. Combs
Date of survey . August and September 1924
Scale 1 : 20,000
Soundings in . Fathoms
Plane of reference . M. L. W
W.T.Combs Protracted by Chas. Pierce Soundings in pencil by Chas. Pierce.
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: