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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
SW. State: <u>Alaska.</u>
11-5613
DESCRIPTIVE REPORT.
Topographic Sheet No. <u>1 4071</u>
LOCALITY:
<u>S.W. Alaska Pen.</u>
<u>Chignik Bay.</u>
<u>Chankliut I. to</u>
<u>Castle Bay.</u>
<u>MA</u> <u>1924.</u>
CHIEF OF PARTY:
<u>Clem L. Garner, Lieut. Comd'r.</u>

DESCRIPTIVE REPORT

(To accompany Topographic Sheet No.1, Chignik Bay, Alaska.)
Date of Commanding Officer's Instructions, March 11, 1924.

1. Limits & Connections:

This sheet covers the area between the following limits:

Latitudes 56-07 and 56-15, and Longitudes 158004 and 158-22,

on scale 1:20,000, and comprises the first of six sheets covering Chignik Bay. The topography begins at Δ Jill and stops at Δ Cliff, where it is joined by sheet No. 2.

2. General Characteristics:

The south shore line is very precipitous, with a very rocky coast and very little beach, while the north shore line rises more gradually to the summits and a beach extends practically all along the shore.

Castle Cape is a very pronounced point, rising to four spires of bare rock, two of which are very conspicuous, and rise to an elevation of 1200 ft., the others being much smaller and only reaching about 900 ft. The entire point consists of gray bare rock. Is. lettered
Toliumait Pt.
on Top. 4071
and on charts

The only vegetation on the land covered by this sheet is grass, with scattering alders in places. On the south side the grass doesn't show below an elevation of about 500 ft. due to the steep rocky shore, except where beaches are shown where it begins near the water; whereas on the north side the highest point to the beginning of the grass is about 100 ft., except from 400 meters east of Δ Lake 2 to Castle Cape, which is entirely bare.

3. Survey Methods.

The entire shore line on the Castle Bay side was run in from positions determined by three point fixes. From Castle Cape to the point 600 meters N.E. \odot Blk Vert Streak a traverse was run, with a resection from Δ Fool whenever it was visible. Between Δ Jill and \odot Bad a combination of traverse and three point fixes was used, preference being given to the latter. The intervening shore line between \odot Bad and the point N.E. of \odot Blk Vert Streak was determined by sextant cuts from the ship.

The north shore line of Chankliut Island was determined by the use of three point fixes and also the use of intersections of points obtained by cuts taken from the mainland. On the south shore by traversing across the island in the valleys, in the vicinity of the lakes, Mr. Paton determined about 300 meters of shore line on each side of the centers of the valleys. The intervening gaps between the rocks at the Western end of the island and \odot Bag Hook were filled in from points determined by the ship with the sextant.

Each of the ship's positions, that were used in making the sextant cuts were checked by a third cut. This method of locating points on shore was used only for the locality that was practically inaccessible to the plane table or where difficulty was encountered in making landings on account of the heavy swells.

4. Form Lines.

Elevations for form lines were determined by two or more check cuts. A number of approximate elevations were determined to the west and south of Necessity Cove but were omitted from the sheet, as they weren't considered accurate enough. They were taken into consideration though in showing the form lines. A hundred foot interval was used.

5. Industries.

There are no inhabitants nor industries on the mainland covered by this sheet. Chankliut Island however is used as a fox island, the fox being the property of Mr. Lars Larsen who lives on the island.

6. Game.

Very little game is found in the locality. During the season only a few duck and ptarmagin were seen.

7. New Place Names.

Nickoli Cove is named after Nickoli Olgen, a fisherman who lived near the lake in the cove for a number of years.

Necessity Cove is the name that appeared on the reconnaissance sketch for this region, made by the U.S.S. SURVEYOR in 1920.

There is no local name for the cove between © High and © Blk Vert Streak.

Respectfully submitted,

J.M. Smook
J.M. Smook,
Lieut.(j.g.).

Approved and forwarded:

Clem L. Garner
Clem L. Garner,
Lieut. Comd'r, Com'd(g).

To accompany Topographic Sheet, Chignik Bay, Alaska.

Following is a list of plane table positions:

Object & Description	Lat. Nat. Lat.	D.M. Meters	Long.	D.P. Meters	Approx. Height.	Remarks.
Gable of House						
⊙ Hose	56-10	1700	158-20	472	-----	-----
Conglomerate Rock, ⊙ Why	56-11	1336	158-16	250	20 ft.	Whitewash, marked by regulation mark.
Slate rock slide, ⊙ Bay	56-12	638	158-14	400	40 ft.	Whitewash, marked by regulation mark.
Rocky break in beach, ⊙ Cas.	56-13	880	158-11	950	20 ft.	Whitewash.
Rock, 425m. S. Castle Cape, ⊙ Loon	56-14	680	158-06	953	10 ft.	Whitewash.
Big hole in cliff, ⊙ Cave	56-11	1200	158-11	210	50 ft.	-----
Big rock S. of Chankliut Id. ⊙ Tip	56-08	215	158-06	835	125 ft.	Top
Rock pt. midway bet. beaches, N. side Id. ⊙ Bran	56-08	1826	158-07	667	20 ft.	Whitewash.
Center of House ⊙ House	56-08	1522	158-06	1000	-----	-----
N.E. end of Chankliut Id. ⊙ Big Hook	56-09	827	158-05	453	-----	Vertical rock hook projection. About 200ft. above H.W.

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 21, 1925.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4071

Chignik Bay, Alaska Peninsula

Surveyed in 1924.

Instructions dated March 11, 1924.

Chief of Party, C. L. Garner.

Surveyed and inked by J. M. Smook.

1. The records conform to the requirements of the General Instructions.
2. The plan and extent of development conform to the General Instructions and satisfy the specific instructions.
3. The junction with the adjoining survey is satisfactory.
4. No further surveying is required within the area of the sheet.
5. The character and scope of the surveying and field drafting are excellent.
6. Reviewed by E. P. Ellis, April, 1925.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic 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. (1) 4071State . S.W. AlaskaGeneral locality Alaska PeninsulaChignik Bay — Chankliutuk to / toLocality . Castle BayChief of party . Clem L. GarnerSurveyed by . J.M. SmookDate of survey . 1924Scale 1 : 20,000Heights in feet above mean sea levelContour interval 100 . . feet.Inked by . J.M. Smook . Lettered by . J.M. SmookRecords accompanying sheet (check those forwarded): Photographs,✓ Descriptive report, Horizontal-angle books, Field computations,Data from other sources affecting sheet None

Remarks: