

4081

Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: S. W. Alaska

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. 4081

LOCALITY:

Chignik Bay, North Shore, and

Hook Bay & Vicinity

1924.

CHIEF OF PARTY:

Glen L. Garner

4081

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 5,  
Chignik Bay and Hook Bay, S. W. Alaska  
Clem L. Garner, Chief of Party  
Instructions dated March 11, 1924.

TERRITORY COVERED. This sheet covers a topographic survey of that portion of the shore of Chignik Bay beginning nearly midway between the easternmost point of Cape Kumliun and Hook Bay, and extending westwards to Hook Bay, thence south three miles to a point which is one and one-quarter mile south of Weasel Mountain, and from here westwards for a distance of three and one-half miles to join with the shore-line covered by topographic sheet No. 4, at a point three miles northeast of Anguvik Island. This shore-line amounts to 17.9 statute miles, and the area covered by form-lines is approximately 28 square miles (not counting the dotted form-lines at the eastern extremity of the sheet).

GENERAL DESCRIPTION OF THE COAST. This coast-line is distinguished by its proximity to Cape Kumliun and by Weasel Mountain, which lies a mile and a half south of the south side of the entrance to Hook Bay. Weasel Mountain (elevation 2410 ft.) has the appearance of a broad frustum of a cone. The coast is quite rugged and cannot be traversed afoot except in Hook Bay, where a smooth, sandy beach prevails. In general this coast is composed of boulders and large rock fragments. Except for the valleys that extend back from Hook Bay, there is very little vegetation, although in general the gentler slopes of the hills are covered with grass and with a sparse growth of alders.

LANDMARKS. The principal landmarks in this area are the peak at  $\odot$ Mub, Weasel Mountain, and the red peak two miles west of Weasel Mountain. The first is characterized by a prominent spire or nipple (elevation 1530 ft.) on the summit of the peak ( $\odot$ Mub). Weasel Mountain was described in the foregoing paragraph, and the red peak (elevation 3010 ft.) two miles west of Weasel Mountain consists of several sharp, serrated points.

INSHORE DANGERS, BARS AND CHANNELS, ANCHORAGES, ETC. (For information under this head, see Descriptive Report covering Hydrographic Sheet No. 5, Chignik Bay, S. W. Alaska).

PERMANENCE OF COAST LINE. There is no evidence of any changes in the coast-line. It is said that small sand spits are formed from time to time in Hook Bay during stormy weather. At the portage between Hook Bay and Kujulik Bay the elevation is only 105 feet and the distance across is a half to three-quarters of a mile. It is probable that in the course of time Kumliun Peninsula will be cut off from the mainland at this point.

SURVEY METHODS. Signals were built at  $\odot$ Reef and  $\odot$ Key and intersecting cuts were then taken upon them from  $\Delta$ ANG and GULL.  $\odot$ Key was then occupied, the plane-table oriented upon  $\Delta$ GULL and the position of  $\odot$ Key was checked by resection upon  $\Delta$ WEASEL. From here, traverses were run westwards to  $\odot$ Trunk, to join with the shore-line of Topographic Sheet No. 4, and northwards, into Hook Bay. Signals which had been built in Hook Bay were then located by plane-table triangulation, and a traverse was run from  $\odot$ Edge (at the northern

side of Hook Bay] to  $\odot$ Pin. At  $\odot$ Bad a three-point fix was had upon  $\odot$ Key,  $\Delta$ WEASEL and  $\Delta$ GULL, and the shore-line east of  $\odot$ Pin was rodded in from this set-up. Work was stopped here on account of fog and rain, and no opportunity was afforded for continuing the work eastwards. The form-lines for the area back of Hook Bay were determined in the field by plane-table. Form-lines for the remainder of the sheet were determined by combining plane-table cuts with sextant angles taken from the ship during hydrographic work.

BEACHES AND LANDING PLACES. Due to the rocky nature of this coast, good landing places in this locality are rare, except that in Hook Bay there is a good sand beach.

WATERING PLACES, BUILDINGS, ETC. There are no watering places in the region covered by this survey. The only cabins are along the shore of Hook Bay, and these were all uninhabited at the time of this survey except for the shanty at  $\odot$ House, which was occupied by the watchman for the Northwestern Fisheries Company while the trap was in operation.

INDUSTRIES. The only industry that was in evidence was the taking of fish in the trap at Hook Bay. This trap was removed at the end of the fishing season. A rich seam of coal is said to be located about five miles northwest of Hook Bay.

GAME AND FISH. Some bear were seen in the valleys west of Hook Bay, and it is reported that they are moderately plentiful in this region. There are some marmots, weasels, jack-rabbits, squirrels, etc., and some water fowl. The creek which extends northwestwards from  $\odot$ Hou is used by salmon during the spawning season.

VEGETATION. There is not much vegetation in this region, except that the gentler slopes of the hills are usually covered with grass, accompanied by a sparse intergrowth of alders.

PLACE NAMES. The only features in this area that bear names are Hook Bay, Weasel Mountain, and Gull Island, and these names are all well established by local usage.

Respectfully,

*George H. Dell*

George H. Dell  
Jr. H. & G. Engineer

Approved:

*Chas. L. Ganner*

H. & G. Engineer.

*Chief of Party, Comdg. Discoverer*

PLANE-TABLE POSITIONS.

Object and description	Latitude	D. M.	Longi- tude.	D. P.	Height
	o ' "	Meters	o ' "	Meters	Feet
Lim -sharp rock at water's edge, with bird-lime..	56 30	637	158 00	877	12
Bad -offlying rock.....	56 30	621	158 02	49	8
Pin -south side of large pinnacle rock.....	56 30	1026	158 03	45	8
Balanced rock .....	56 30	1372	158 04	409	10
Sec - prominent rock on pt.	56 30	1268	158 04	917	12
Bry - seaward side of large rock at point.....	56 30	1584	158 05	937	12
Lon - light spot on offlying rock.....	56 31	191	158 06	999	8
Edge- rock at north end of Hook Bay beach.....	56 31	824	158 08	252	5
Hou - wooden house .....	56 30	77	158 08	911	12
Bear- large black rock at low-water line.....	56 29	855	158 06	840	15
Bench-southeast corner of square point.....	56 28	502	158 07	80	5
Key - large flat rock.....	56 27	1431	158 07	709	10
Tick- top of water-fall.....	56 27	1397	158 10	672	15
Reef- Seaward end of reef...	56 27	832	158 10	269	15
Col - yellow, columnar rock	56 27	909	158 10	572	12
Nub - nipple on peak.....	56 30	1818	158 03	65	1530
Red peak.....	56 28	1740	158 11	225	3010

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON April 17, 1925.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4081

Chignik Bay, Alaska Peninsula

Surveyed in 1924.

Instructions dated March 11, 1924.

Chief of Party, C. L. Garner.

Surveyed and inked by G. H. Dell.

1. The records conform to the requirements of the General Instructions.
2. The plan and extent of the survey satisfy both the General and specific instructions.
3. The sheet was inked by the surveyor but the ink was so pale that much of the shoreline and adjacent details had to be retouched in the office. The ink appears to have been injured by excessive cleaning.
4. The junction with the adjoining sheet is satisfactory and no further surveying is required.
5. The character and scope of the surveying are excellent and the field drafting fair.
6. Reviewed by E. P. Ellis, April, 1925.

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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. <sup>4081</sup>(5) 4081

State . . . . S. W. Alaska . . . . .

General locality <sup>Alaska Peninsula</sup>  
~~Chignik Bay~~ . . . . .

Locality . . . Chignik Bay, <sup>— Hook Bay and Vicinity</sup>  
~~North Shore, and Hook Bay~~ . . . . .

Chief of party . . . Clem L. Garner . . . . .

Surveyed by . . . George H. Dell . . . . .

Date of survey . . . . 1924 . . . . .

Scale . . . . . 1:20,000 . . . . .

Heights in feet above Mean high water. . . . .

Contour interval . 100 . feet.

Inked by . G.H. Dell . . Lettered by . . . G. H. Dell . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, <sup>✓</sup>~~Horizontal angle books, Field computations,~~

Data from other sources affecting sheet . . . . .

Remarks: