Department of Commerce
U.S. Coast and Geodetic Survey

State: S. W. Alaska

Descriptive Report.
Topographic Sheet No. 4081

Locality:
Chignik Bay, North Shore, and
Hook Bay & Vicinity.

1924.

Chief of Party:
Glen L. Garner
DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 5,
Chignik Bay and Hook Bay, S. W. Alaska
Glem 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 Kualilin 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 Anguik Island. This shore-line amounts to 17.9
statute miles, and the area covered by form-lines is approximately 20 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 Kualilin 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 O'Hub,
Weasel Mountain, and the red peak two miles west of Weasel Mountain. The first
is characterized by a prominent spire or nipple (elevation 1550 ft.) on the
summit of the peak (e'Hub). 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).

PERSISTENCE 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 Kuallik
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 Kuallik Peninsula
will be cut off from the mainland at this point.

SURVEY METHODS. Signals were built at O'Beef and O'Key and intersecting
cuts were then taken upon them from A'ANG and GULL. O'Key was then occupied,
the plane-table oriented upon A'GULL and the position of O'Key was checked by
resection upon A'WEASEL. From here, traverses were run westwards to O'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 O'Edge (at the northern
side of Hook Bay) to 0Pin. At 0Bad a three-point fix was had upon 0Key, 0WEASEL and 0GULL, and the shore-line east of 0Pin 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 0House, 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 0House 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
Jr. H. & S. Engineer

Approved:

Glen L. Hamer
H. & S. Engineer.
Chief of Party. County, Discoverer.
<table>
<thead>
<tr>
<th>Object and description</th>
<th>Latitude</th>
<th>D. M.</th>
<th>Longitude</th>
<th>D. P.</th>
<th>Height</th>
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<tbody>
<tr>
<td>Lim - sharp rock at water's edge, with bird-lime</td>
<td>56 30</td>
<td>637</td>
<td>158 00</td>
<td>877</td>
<td>12</td>
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<tr>
<td>Bad - offlying rock</td>
<td>56 30</td>
<td>621</td>
<td>158 02</td>
<td>49</td>
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<tr>
<td>Pin - south side of large pinnacle rock</td>
<td>56 30</td>
<td>1026</td>
<td>158 03</td>
<td>45</td>
<td>8</td>
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<tr>
<td>Balanced rock</td>
<td>56 30</td>
<td>1372</td>
<td>158 04</td>
<td>409</td>
<td>10</td>
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<tr>
<td>Sct - prominent rock on pt</td>
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<td>1266</td>
<td>158 04</td>
<td>917</td>
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<tr>
<td>Bry - seaward side of large rock at point</td>
<td>56 30</td>
<td>1584</td>
<td>158 05</td>
<td>937</td>
<td>12</td>
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<tr>
<td>Lon - light spot on offlying rock</td>
<td>56 31</td>
<td>191</td>
<td>158 06</td>
<td>999</td>
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<tr>
<td>Edge- rock at north end of Hook Bay beach</td>
<td>56 31</td>
<td>824</td>
<td>158 08</td>
<td>252</td>
<td>5</td>
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<td>Hou - wooden house</td>
<td>56 30</td>
<td>77</td>
<td>158 08</td>
<td>911</td>
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<td>Bear- large black rock at low-water line</td>
<td>56 29</td>
<td>855</td>
<td>158 06</td>
<td>840</td>
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<td>Bench- southeast corner of square point</td>
<td>56 28</td>
<td>502</td>
<td>158 07</td>
<td>80</td>
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<tr>
<td>Key - large flat rock</td>
<td>56 27</td>
<td>1431</td>
<td>158 07</td>
<td>709</td>
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<td>Tick- top of water-fall</td>
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<td>1397</td>
<td>158 10</td>
<td>672</td>
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<td>Reef- Seaward end of reef</td>
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<td>832</td>
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<td>Col - yellow, columnar rock</td>
<td>56 27</td>
<td>909</td>
<td>158 10</td>
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<tr>
<td>Hub - nipple on peak</td>
<td>56 30</td>
<td>1618</td>
<td>158 03</td>
<td>55</td>
<td>1530</td>
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<td>Red peak</td>
<td>56 28</td>
<td>1740</td>
<td>158 11</td>
<td>225</td>
<td>3010</td>
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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.
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. 4081

State . . . . S.W. Alaska
 Alaska Peninsula
 General locality . . . Chignik Bay
 Hook Bay and Vicinity
 Locality . . . Chignik Bay, 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, Horizontal angle copies, Field computations,
Data from other sources affecting sheet

Remarks: