

4100

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| Form 504                           |
| DEPARTMENT OF COMMERCE             |
| U. S. COAST AND GEODETIC SURVEY    |
| State: <u>S. E. Alaska</u>         |
| 11-5613                            |
| DESCRIPTIVE REPORT.                |
| <i>field No 3</i>                  |
| Topographic Sheet No. <u>4100</u>  |
| LOCALITY:                          |
| <u>Loy Islands</u>                 |
| <del>Hollis Anchorage</del>        |
| to                                 |
| <u>Head of Twelvemile Arm</u>      |
| <br>                               |
| <br>                               |
| <br>                               |
| <u>737</u><br><u>1924</u>          |
| CHIEF OF PARTY:                    |
| <u>F.B.T. Siems, H. &amp; G.E.</u> |

## DESCRIPTIVE REPORT

to accompany

Topographic Sheet No. 4100

1. The following is a descriptive report of topographic sheet No. showing the shoreline from Hollis Anchorage to the head of Twelve-mile Arm. This work was done under orders received by the Commanding Officer, Str. EXPLORER dated April 19, 1924.

### 2. General Description of Shoreline

Twelvemile Arm runs almost exactly South (mag.) from Kasaan Bay with but one bend above Hollis. The shoreline is very irregular and rough. Except for thr two miles at the head of the Arm the shore is made up of ledges, large rocks and boulders. At all places the trees grow to the water's edge.

At the mouth of Harris River there are extensive tide flats. At high tide a small motor-boat can go up the river  $1\frac{1}{2}$  miles to a gold mine which is in good condition but temporarily shut down. There is also a passage for small boats between Hollis Anchorage and Harris River at high tide. A road leads to the mine from the point on the southern shore near the mouth of the stream.

The east shore of the Arm southeast from the mouth of Harris River is foul for about a mile and should be avoided. Otherwise the shores to the head of the Arm are clear except for numerous rocky reefs on the points which in no case extend out more than 50 meters,

Two miles north from the first wooded tide islet at the head of the Arm flats extend out 200 meters from the mouth of a stream on the west shore. From here to the head of the Arm the shoreline is more regular and is made up of small rocks and gravel.

In the middle of the Arm  $\frac{1}{2}$  mile north (mag.) from the same islet there is a small grass-covered islet which is just awash at extreme high tides. Between this islet and the west shore there are numerous patches of rocks that bare at about  $\frac{1}{4}$  tide. A rocky shoal which bares at M.L.L.W. lies 450 meters north (mag.) from this same islet.

The extreme end of the Arm is marshy for over one half of a mile and at low tide extensive mud flats bare.

The new cable from Seattle to Ketchikan to Seward runs the entire length of the Arm leaving it at the head to cross overland.

### 3. Anchorages

Hollis Anchorage with 5 to 7 fathoms, mud bottom, off the abandoned town of Hollis is rather contracted on account of a 1 fathom rocky shoal of considerable area which extends about  $\frac{1}{4}$  the way across the bay from the opposite shore, and on account of the extensive tide flats in the north part of the bay. The north or steamer channel lies between the gravel bank in the middle of the entrance and a rock opposite lying 80 yds. from the north shore. The gravel bank which is covered with 3 ft. boulders bares at  $\frac{1}{2}$  tide and the rock at about  $\frac{1}{3}$  tide. The part of the channel between the two obstructions is marked by a natural range, namely, the treeline on the north entrance point

kept slightly open in respect to the outer high water mark of the wooded islet 400 yds. west of the point.

#### 4. Form Lines

The form lines show the general configuration of the country adjacent to the Arm. Elevations are taken on the tree tops, all the hills shown on this sheet being heavily wooded. The average height of the trees is estimated as 100 feet. The hills on the east shore rise very abruptly and form a range which parallels the Arm. Those on the west shore rise more gradually and form a series of ranges which extend westward.

*Allen A. Parker*  
(Topographer)

Approved: *[Signature]*  
C. & G. Survey Comd'g.

GEOGRAPHIC POSITIONS  
OF  
TOPOGRAPHIC STATIONS  
on  
Twelvemile Arm Sheet

-- Kasaan Bay Datum --

| Station | Lat.                         | Long.                         |
|---------|------------------------------|-------------------------------|
| Bud     | 55 - 22 - 131 <sup>m</sup> . | 132 - 43 - 632 <sup>m</sup> . |
| Jam     | 22 - 343                     | 44 - 326                      |
| Well    | 22 - 452                     | 43 - 943                      |
| Star    | 22 - 861                     | 43 - 225                      |
| Oh      | 22 -1087                     | 43 - 943                      |
| Fed     | 22 -1444                     | 42 - 809                      |
| Jib     | 22 -1619                     | 43 - 789                      |
| Lin     | 23 - 190                     | 43 - 232                      |
| Dud     | 23 - 531                     | 42 - 268                      |
| Jen     | 23 - 944                     | 41 - 875                      |
| His     | 23 -1394                     | 42 - 514                      |
| Art     | 23 -1589                     | 41 - 723                      |
| Dave    | 24 - 521                     | 41 - 35                       |
| Flow    | 24 -1184                     | 40 - 550                      |
| Ed      | 24 -1210                     | 41 - 777                      |
| Jim     | 24 -1632                     | 41 - 244                      |
| Rep     | 25 - 236                     | 40 - 769                      |
| Uke     | 25 - 342                     | 39 - 895                      |
| Beg     | 25 - 918                     | 40 - 367                      |
| Fran    | 25 -1681                     | 39 - 561                      |
| Lap     | 25 -1723                     | 40 - 59                       |

| Station | Lat.                         | Long.                          |
|---------|------------------------------|--------------------------------|
| Tek     | 55 - 26 - 676 <sup>m</sup> . | 132 - 39 - 1039 <sup>m</sup> . |
| Pie     | 26 - 841                     | 39 - 441                       |
| Rud     | 26 - 1164                    | 40 - 224                       |
| Low     | 26 - 1740                    | 39 - 78                        |
| Fish    | 27 - 414                     | 39 - 1004                      |
| Dog     | 27 - 948                     | 40 - 271                       |
| Sign    | 27 - 1110                    | 39 - 850                       |
| Dot     | 27 - 1354                    | 38 - 113                       |
| Dix     | 28 - 679                     | 38 - 685                       |
| Crow    | 28 - 715                     | 39 - 959                       |
| Crab    | 28 - 783                     | 40 - 399                       |
| Seal    | 28 - 916                     | 38 - 933                       |
| Ben     | 28 - 1015                    | 39 - 490                       |
| Fat     | 28 - 1021                    | 38 - 164                       |
| Fog     | 28 - 1154                    | 38 - 500                       |
| Stew    | 28 - 1496                    | 38 - 843                       |
| Creek   | 28 - 1535                    | 40 - 164                       |
| Tim     | 28 - 1602                    | 39 - 226                       |
| Don     | 28 - 1645                    | 39 - 257                       |
| Pile    | 29 - 480                     | 39 - 341                       |

## 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. *full NO3*Register No. *41003*State . . . . . *S. E. Alaska*General locality ~~Clarence Strait~~ *Prince of Wales I.*Locality . . . . . *Loy Is.*  
~~Holite Anchorage~~ *to Head of Twelvemile Arm*Chief of party . *F.B.T. Siems, H. & G. E.*Surveyed by . . *Allen A. Parker*Date of survey . *July and August 1924*Scale . . . . . *1 : 10,000*Datum : *Kasaan Bay 1906-11. See triangulation notes.*Heights in feet above *Mean sea level**Form line*Contour interval . *100* feet.Inked by *Allen A. Parker*. Lettered by *Allen A. Parker*

Records accompanying sheet (check those forwarded): Photographs,

~~Descriptive report.~~ Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: