



3523

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Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

\_\_\_\_\_  
Superintendent.

State: *Alaska*

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DESCRIPTIVE REPORT.

*Hyd* Sheet No. *3523*

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LOCALITY:

*S. E. Alaska*  
*S. E. Adair Island*  
*Burnett Inlet.*

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\_\_\_\_\_  
1913

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CHIEF OF PARTY:

*E. J. Guillian*

11-4645

3523

DESCRIPTIVE REPORT OF  
BURNETT INLET, S.E. ALASKA.

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Burnett Inlet is a long narrow arm extending about 9 miles in a northerly direction into Etolin Island, and the entrance is about 5 miles northeast from Point Stanhope.

The survey extended about 4 miles, viz: From the entrance to about 1 mile above the cannery.

A plane table traverse located shore line and signals. Signals were marked for future determination by triangulation. Soundings were made with Tanner sounding machine in whaleboat, together with a few casts by ship with Bassnett Tubes.

The shore line is very rocky and abrupt, and this abruptness continues below the surface. The shore line is all covered with a dense growth of spruce and fir. Islands and rocks rise from great depths, and are very abrupt. Soundings are very uneven, and the lead gives no indication of danger.

The cannery is built on a rocky point just clear of the woods. The wharf extends about 15 feet outside of the H.W. line and it was reported that there was 19 feet of water alongside at lowest tides.

The shore line south of the cannery is foul; rocks showing for 50 feet outside the H.W. line.

A reef, which bares about 10 feet at low water, lies just south of the cannery. This reef is about 200 yards long, and there is a channel with 7 feet at low water inside the reef.

The vessels making the wharf were anxious to know whether they could pass inside the reef. The soundings indicated sufficient water, but when dragged the drag caught narrowing the channel until it is of no value.

Soundings indicated a shoal at the 2-1/2 fm., spot on east side of entrance, and a drag was utilized to find the least water.

Neither the drag lines searching for this rock, nor inside the reef off the cannery, were plotted on the smooth sheet, but the shoalest soundings were plotted.

The least water found on the shoal marked by the red buoy was 7 feet. A black barrel buoy is placed at the north end of the reef off the cannery, and marks the turn for vessels making the wharf.

All names on the sheets were supplied by this party. Cannery Point, the location of the cannery buildings. Fawn Island, locally so called, because one of the cannery employees caught a fawn on the island. Deadman Island, local name, from a grave found on the island. Range Point, by this party, as back range to anchorage. Isle Point, by this party, from

islet. Marble Point, applied by topographic party, as marble was seen there.

Magnetic observations were made with compass declinometer. A sun azimuth and latitude observed, and longitude scaled from the chart.

All suspicious soundings in the channel and approach were further investigated. The instructions for the work did not permit extending the limits of the survey.

Sailing directions are attached.

The small islet shown on chart #8160, in latitude 56-01-00, 132-29-10, does not exist. See Ship sounding volume #1, page. ~~20~~ I put the ship exactly on the location of the spot. The positions of the isles given on chart 8160, shows a blurr in same place on the photographic copy of original Hyd. sheet No. 1742, and evidently from a pencil mark on the original sheet.

Respectfully submitted,

*C. G. Quillian*

Ass't. C. & G. Survey,

Chief of Party.

CGQ/MDG.

## SAILING DIRECTIONS

BURNETT INLET, ETOLIN ISLAND,

S.E. ALASKA

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From a position with the cannery buildings a little open eastward from Fawn Island and  $7/8$  of a mile distant from Fawn Island, steer N.  $42^{\circ}$  E. (true) for  $1-5/8$  miles, when the cannery buildings and the bare rocks near the black buoy will be in line; then starboard and head midway between the buoys steering N.  $3^{\circ}$  W. (true) for a distance of  $3/8$  of a mile until the cannery wharf is open of the black buoy; then starboard and head in to make the cannery dock, passing about 100 yards off the black buoy. A sharp turn is necessary in making the dock port side to the wharf.

DANGERS: A shoal with 15 feet least water lies about  $1-1/8$  ✓  
miles S.  $4^{\circ}$  W. (true) from the cannery dock, and is about  
 $1/4$  of a mile off the eastern shore.

A rock with 7 feet least water is marked by a red ✓  
barrel buoy placed by the Canning Company. It lies nearly  
midway between the cannery and S. Burnett Island, and is dis-  
tant a scant  $3/8$  of a mile S.  $70^{\circ}$  E. (true) from the cannery.

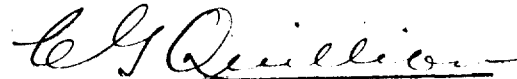
A rocky reef, which bares about 10 feet at low  
water, is  $1/8$  of a mile from S.  $30^{\circ}$  W., (true), to S.  $10^{\circ}$  W.,  
(true), from the cannery. This reef is about 200 yards long,  
and lies 200 yards off the eastern shore. The north end is  
marked by a black barrel buoy placed in 7 fms., of water.  
(This buoy is maintained by the Canning Company).

ANCHORAGES:

The Inlet is very deep and affords very poor anchorage. The "McArthur" anchored 1/8 of a mile off Deadman Island in 25 fms., mud bottom with the cannery bearing S. 40° W. (true), and distant a scant 3/8 of a mile, and with Range Point just open east of Deadman Island.

Small gasoline vessels can anchor in from 7, to 8 fms., soft bottom, protected from all winds and sea in Launch Cove, just north of Cannery Point. This cove allows swinging room of about 150 yards from the center.

Respectfully submitted,

  
Ass't. C. & G. Survey,

Chief of Party.

CGQ/MDG.

TABLE OF STATISTICS.

BURNETT INLET, Alaska.

April 25th.-May 13th., 1913.

Str. McArthur and Whaleboat.

C.G. Quillian, Chief of Party.

Date	Letter	Vol.	Miles	Angles	Soundings	Remarks
May 6	A	1	8.0	56	57	Str. McArthur
" 7	B	1	8.8	58	57	" "
" 13	C	1	2.5	46	22	" "
3	3	1	19.3	160	136	McArthur. Total.

WHALEBOAT.

May 2	a	1	6.4	156	169	Whaleboat
" 3	b	1	6.4	178	212	"
" 7	c	1	3.0	110	140	"
" 8	d	1	6.7	206	206	"
" 9	e	1&2	8.5	282	225	"
" 10	f	3	5.4	216	135	"
" 12	g	2	5.3	186	180	"
" 12	g	2	0.3 drag			Drag
" 13	h	2	2.6	44	22	Whaleboat.
	8	3	44.5	1378	1287	" Total.
	11	4	63.8	1538	1423	Grand Total.

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ELT. Aug. 22, 1913.

Hydrographic Sheet 3523.

Burnett Inlet, Alaska, by  
Assistant C. G. Quillian in 1913.

TIDES.

Cannery Wharf.  
Feet.

Mean lower low water or plane of reference on staff	2.6
Lowest tide <del>observed</del>	0.6 - 2.0 <i>ft.</i>
Highest " "	19.7
<i>High water heights</i> Mean range of tide	13.9 ←

NOTE:- The plane of reference used by the field party reads 2.0 ft. on the tide staff.

**Coast and Geodetic Survey**  
**AUG 22 1913**  
**TIDAL MEASUREMENT**

Ryd. Sheet No. 3523.

Within the limits of the work, the ground is thoroughly covered and shoals well developed. The general character of the work is very good.

This survey however is of little value, unless more work is done in this vicinity.

The soundings would indicate a channel between "Cannery Pt" and the shoal S. E. of it, but when dragged, the drag struck in several places.

The area dragged is shown on the tracing, which accompanies this sheet.

The ground is very rocky, some of which are located rather indefinitely from the sounding lines.

R. L. Johnston

Soundings expressed in fathoms.