Department of Commerce and Labor
COAST AND GEODETIC SURVEY

State: Alaska

DESCRIPTIVE REPORT.

Locality: Wrangell Straits

1900

CHIEF OF PARTY: J.J. Maher
3110, 3111, & 3112.

Description Report to accompany typographic sheet No. 3 110, 3111, 3112.

W. A. Gay, Draftsman, S. E. Alaska.

Typography cleared Sept. 4th, 1910.
Description Report to accompany Topographic Sheets 1-2-3 of Wrangell Narrows, Alaska.

Topographic survey was made with the plan table and was controlled by sec. corners, triangulation points, triangulation through the strata by the U.S.G.S. and at each end by the U.P.S.R.

On the east side of the mountains to the strata, the ground is high and irregular, consisting of series of valleys and peaks, the highest of the latter having an elevation of 3200 feet. It is not shown on the P. & O. sheet. From Pt. Club on the eastward, the shore line is marked by low rocky ledge, 1/2 mile south of the scarp, 1/2 mile northward from the point. The shore is low. The tree line extends to the high water line.

About 45 miles in a easterly direction from Pt. Alexander are several rocks, about 1/4 mile offshore. The largest of these are not seen.
Rocky ledges extend east of Alexander forces less than 1/2 mile covering at the
The slope, on the West side of the
Plates, at the junction and is similar to that on the East side. The land is
lower, consisting of a series of heavily
combusted timber. The highest elevation
does not exceed 50 feet.

Only from the entrance, along
1/3 of a mile off show are several
ridge, the most startling one having
an elevation of about 14 feet above
the plane of N. - W. - W. West, 1/8
mile from the peak is another with
an elevation of about 6 feet above the
plane. These elevations were
obtained by leveling from the southern
corner to the highest point of each rock
by computing the elevations at the given
points using Baker's predictions in
1910, with others. These observations
were noted prior to this time, and the
elevations obtained in the manner
described are subject to a possible
error of a couple of feet.
Level, records will be forever in book marked. II. Left triangulation on Unangan Strait. Line from that point 10 another tree at right

West from that point is another tree at all

levels. About mile off shore, near

long 133.0, no small rocky islet

covered with a few small trees.

1/2 of a mile West from the islet is a

small rock probably awash at

high tide.

About 1 1/2 miles, N. to N.W. from

Pt. Allen and about 3/4 mile west

from the east shore of the strait

is Midway Rock; the rocks are

bare about 5 ft. at M.H.W. Water

is deep to

West from Midway Rock, the

water shoals or is forming a

tight. Ships waiting for high tide

to pass through the strait anchor

at the mouth of this tight. A small

island appears from the S. end of

this light which is connected with

another high water island by a rock.
...a grassy area of tent cities across the
Little Island, giving it an open, unobstructed
appearance of a double island. N W 3/4 N, about 500 feet
from the island in the middle of the
entrance to the inner light a large,
cand and boulder filled bank and 3/4
feet. The shore is connected with
the N W shore by a grassy rock
Depression W. S. W. to the northern
extremity of the light.

- Northern from this point, for
about 1 mile to a lighted area, the
shore is rocky with a broken stone
and boulder beach. N E E from Deposition
Pt. n the eastern shore is a small
light, free from current, and used
as an anchorage by the Coast
Patrol, a good holding ground.

The northern end of the light terminates
in what appears to be an island, but
which is connected with the shore by a
narrow grassy rock. It is called
Graham Pt. In the immediate
vicinity of this Pt. a rocky break of
considerable of last name at 1 W from the Pt. for about ½ mile the
phone treads north forming a small
light, which was used by the Geodny
and has been used by light vessels
therein as an anchorage. Considerable
current, in 2 fl. tide, could be found there.
However, a prominent stream surfaces
into this light. The greater part of the
stream disappears through a gravel
channel, ½ mile westward. From
Grambo Pt. for ½ mile the area
shows up steps to terminating in a
large sand flat, which tapers for about
½ of a mile off shore at 1 W. The
limits of this channel were determined from
red readings taken at 1 W. A man
named Mason is establishing a home
stead here. A mountain stream provides
water for about ½ mile upshore
at an elevation of about 250 feet. The
stream has a drop of approximately 100
feet over ½ of a mile SE from his home
he commenced to construct a wheat
farm years ago. It will be necessary
to extend at a couple of miles before it will be of any use.

In 1864, the Monitor was from Mt. Lockwood about 1 mile eastward for a distance of about 1 mile or 3/4 mile for about the same distance north of the place a pocket point projects on which is situated Mt. Lockwood. From this Br. the shore turns W & N. About 1/2 mile from the Br., on the west shore, a light is to be established with a red sector showing 75°. The light is distant about 1/2 mile on a N.E. direction. The light will form a range with the proposed light on the rock detached from the west side of Mt. Battery Point ½ mile N.W. from Mt. Lockwood. The direction of this range is N.W. by N. and at clear of the Rock.

About 1/2 mile from Mt. Lockwood Br. on the S.W. edge of the line of Sr. Battery, it is proposed to establish a light which to range with the N. Battery Light will clear Black Point 1/2

Lt. Light with the Battery.
a group of three small lakes. The
northern one has a prominent growth
of bushes and small trees out. The
middle one is grayish and almost
closed at N. The northern one is
well wooded and has an elevation
of about 50 feet. A small house has
been erected on both the northern
and southern sides for the storage of oil.

Continuing along the west shore
from Pt. Lickwood Bn. for about a mile
a rock with white washed bone on it
will be found, about S.E. from the
mouth of a small stream. This is
probably an old range. 100 meters
N.W. from S.E. From the range
will be found an encrusted prospector's
shack. 330 feet N.W. from the shack.
115 feet off shore is a large rock lace
about 75 feet. About 100 feet off the east
shore of the Strait N.N.W. from the
middle of N. Batting I. is a rock
covering at half tide. The channel
to the westward of three islands
seemed almost close, only, through the
Eastern Channel is occasionally used by one of the larger steamers, when approaching another steam. Head on.

Familiar with the eastern channel are not advised to attempt its passage.

From the Battery Point, the channel

 reopened a N.W. direction for about

 1/2 mile where Breaker Face continues.

Westward to Lovers Lane on the West shore about 1/2 mile.

From Battery I., the channel turns a

W.N. direction for 1/2 mile, then north

forming a light Pyramidal Cape and 8th

above the point north. The same at

L.W. to the limit to shown West from

this light in another dry area. At L.W.

small H.W. lentic on the centre.

The cape is composed of gravel and

sand. There are 2 or larger, and

numerous small breakers on the

shore. The shore follows a S.W. direction

beyond this light. There are numerous

islands in the face. From I. live

at its junction with the Strait.
About 14 miles S.E.W. from Here I
so small wooded I considered it
occupied by trees and underbrush.
Other and quick track. A large
brush pervaded this island, and I
was unable at all to pass from it to
Here I. From this position, extremity
of Here I a large surf came to the
island chosen. Five or six weeks passed
in it, at a stage of the tide, soon made
the predictions as erroneous on foot.
Ex N from the position sea of Here I
is Spike Rock distant 625 feet from
the W. W. line of the eastern shore.
This rock bears about 14° 50' to W.
A large surf patch surrounds it. It
may be passed on either side. The
danger level. Bed, and break break
all around in the chart. It is proposed
to mark a pond, 15 feet lighted, on the
rock, but until this is done the
range indicated on the chart, as not
will, soon to locate the spot if the scope
become possible. The range was
obtained while standing on Spike Rock.
End from "Point" are several miles. The greater part of the channel shown. There are no separate channels. The mouth shown by channel, which face at W. Quick seaport about 325 feet off the position. Bay of the largest. This conformation points toward the shits. A lake about 1/2 mile long and 1/2 mile wide. The water near S. This side is marked by a low rocky ledge. The water side is partly grassy and marshy. The channel on the NE side of the lake is fairly deep. The rocks and reef shown, having transit notes 1040, readings at W. Length about 1 mile. From Yackle Rock, on N. Burnett & Br. Course to the Br. leaving N 27° W and pass over the rocks. Burnett Point near.
About 1/2 mile from the Bar on the
channel is a large, rocky area
covered with seaweed. This ledge
is marked by long, white, and dark
plank, which are supposed to
light. On the west shore, 4.5 miles
from the dolphin is a small house made of
the stumps of old cedars. When
north bound, these dolphin and trees
are left on the starboard. 4.75 miles
from the dolphin, distant 1/4 mile,
spotted off a low, grassy point on
the Shelter, is a point consisting of
rock and seaweed. This point is
marked by black buoy No. 7. The channel
on the outside is 5 fathoms.
About 1/2 mile N W E from the dolphin
near the east shore is north ledge
marked by a white buoy. From Burnt
Da. Red the lead shows follow a northerly
direction, until North ledge, 9 buoys
are drawn, then turn as a NW direction
for a distance of about 1/2 mile forming
a high water light. This light as it
remains 1/2 mile west of the line.
The northern shore forms a flat island
about 1/4 mile long, NE to SW direction.
The island is connected to the shore
by a narrow gravel bank, three
feet wide, at NW. It is termed
the Snake Pt. On each end of the
bank is a grassy area, easily visible
up during the day from points to the
northward. Each of the ends is a small
unoccupied house in NW X N 40
North Ridge T01N, section 40, T01N
tury 6, NW X N 40 T01N 40 North Ridge
T01N in a small high wood, sea of
Bush Top Gold. On, near the northern
extremity of a small surrounding Bush
Top. The house is about 150
feet from the edge of the wood. Bush
Top is about 400 feet NW X W from
the Pt. Tree rows run with grass from
the northern end, a few bushes grow near
a small house for the storage of oil
barn built upon it. South to southern
end a paced gravel path extends
terminating in a small mound which
is altered almost at NW.
From off Pearce Pt. the shore turns N 30° E. for about 1 mile, then N W W by S. About 1/4 of a mile to the west terminates at Anchor Pt. The arm forms a small harbor, which is slightly affected by currents. A small barrier island has been formed points to the west is located on the right and is occupied by a trapiche. Another Pt. is marked by a White Bu. SW X WW from Anchor Pt. Bu. to Colorado Ref. is about 1.5 miles and marked by the chock of the Colorado, a bluff formerly used for carrying on the trade in furs. On it, the position and a Bu. SW X WW from this Bu. is another rocky reef distant 340 feet, the eastern terminus of a sand and shingle beach.

The Western shore is low, grass covered, slightly irregular, with several small lights. Off from the Colorado Wash, an extensive alder projects from the Western Bu. About 75-100 feet WNW from the Colorado reach, is a small high water inlet, consisting of gravel and boulders, with a sparse covering of grass.
Established from the shore, and north from the Colorado creek about 1/2 mile to an extensive sandy shoal, extending in a southerly direction about half a mile. The limits of the shoal are not accurately defined, due to the rapid change of tide.

From Anchor Pt. The channel follows an uncertain direction, is cut up by reefs, and tapers, and forms a large inlet dry at low water. The exception of narrow channel, known as Blind channel, navigable only for small boats for a short distance. The channel is only plashed near making leaving the inlet along it. Beyond the point where the inlet narrows, the channel is only navigable for very boats at high tide and slack. The channel is paced into two parts, one going in the direction of Point E. E. from Anchor Pt. abeam Point. The bar wooded. H. Westland called Blind Pt. 1/2 mile, N 4/5 mile. Distant 73 miles. Blind Pt. a patch of sand.
A small boulder is indicated on the Western edge of Bluff Harbor. It is
midway between the two corners of the Bluff. The four boulders are too
small to cause any damage on the edge of the Island about 25 feet from
Bluff Rock. A sand-boulder covered point
faces due West. About 50 feet NW x W
from this point are the vacant buildings
and stonework, made of stone, of an
old cannon. S. W. 20° W. from the
cannon rock, a very small tree has
decayed, which it is feared to light
on. E. C. from the cannon, about 350 feet
is cannon #3. Both are to be left on
the point so going north. WNW
from this cannon is a sand-rock, so the
beacon marking the eastern extremity
of the Island is sandy, about 300
yards off. The 45° W. of the
North, is rocky with a large boulder,
100
beach, connecting with Woody I.
The 45° W. of the South, is
rocky and sandy beach. The edge begins
about 150 feet S. W. from the beacon.
Can bury to make the channel.

From the land front of Woody's a
expanse badal connects with a broad
shallow at ordinary tides. The
channel West from Colorado to Peleliu
around Woody to Oeland Pr. Woody
I am separated from the West shore by
a channel which is dry at LW

Wx, W from Vexation Pr. Bo. a
shoal has been driven. The shoal
was to bare been lighted, but the person
in charge of the monitoring of those
shoals considered that one unfavorably
located, and some change necessary
made. About 1/2 of a mile to the
same direction from Vexation Pr. Bo.
Pr.

Dalee Bo. to the northern
extremity of a large H.W. lighted
by Woody I. to the eastern
Extending from the northern end
Dalee L. to leaving S.E. from the
tracing a channel parallel to and se Establish
about
miles. On its northern end are some
boulders visible at all tides except
the lower springs. From Dale L. Bo.
The point made W N by about 4
miles then E S W forming a conical for
about 3 miles north. From the head of
the light a moderate, a gradual longer
building on an E W line from about
100 feet from the line of E B. Island Cr. The
low water curve, gently inshore
abutting the Island Head. On rising a span
and one half, with some gravel
watered. The West end, Island
Cove, is low and wooded, Lawrence
about 10 miles to prominent range.

......

The Light and this range
are some feet and well. Which elevation
and containing are gain. From
the and Island Point, which we
contend as a low, on the sheet, the
area shown is low and widened.
The leading from the salting falls
as the W 11 W direction for about 1/2 mile
then turns S W W for a about 1/4 mile
forming a high water light. St. then
turns for a W W direction forming
Danger Pt. S S W from this point, abut...
this point. The low water mark, however, is not on a toolbar, nor is it a rocky point. About 1000 feet offshore, it is marked by a beacon. It is 10 miles due SE from the
Cove, 10 miles distant from another rocky
bead. South, on the edge of the lake, it is
marked by a beacon. It is 5 miles north of the
beacon, 5 miles due N. It is 5 miles due N
N. It is 5 miles due N N W. It is 5 miles due
W. The Gran Rocks consternation. They stand on a NW x W SW direction
for about 1/4 mile. They consist of
Large prominent rocks connected by a
series of smaller rocks. The south
rock is low, at all stages of the
tide, it is grass covered and is marked
by a beacon. It is proposed to mark
the eastern edge of the rock by a
beacon light. The beacon which I have
been looking for is South. The light on
the rock appears to be too far to a small
house. For the planting of oil. We have
been located on Lo Green River, it is
close to, and SWly from the beacon.
North Green Rock is covered at
high water, and is marked by a bea-
From Island Pt. the shore extends S.W. 1/2 W. for one mile to Henrietta Pt. The beach is sandy. S.W. 1/2 W. from S. 48° 30' W. at the rocky ledge entered from Ginger Pt. The shore is low, being shor wa, cut by numerous high water lights and follows a S.W. direction to Green Point, distant about 1 1/2 miles.

From Island Pt. to Ginger Pt.

The low water track wanders from under to an average width of about 300 feet. From Ginger Pt. to Green Pt.

The low water track averaged 200 feet in width. From 1/4 W. from Ginger Pt. the channel is marked by a dolphin which we to be marked S.W. 1/2 W. from the above mentioned low water track as part of the marking. The eastern end of this channel is fairly deep enough to safely pass an estuarine ridge. A ridge of drift wood, about 100 feet wide, was located at the entrance.
following a N.W. by direction for about 4/3 of a mile. As here, it is

certainly of considerable

volume. The Left branch along the

strip of chern/marshes, and eroding

anchorages, may be had here, a

little to the S.E. of the house on the

bank. The holding ground is good

and current during these unregular

sections, being easy to the current.

This perhaps one of the best

places on the bank for a near

centre, and some power could be

obtained from the falls, undulated

on the sheet. Only from this

anchorages a large flat extends

off to the east side. The channel

between the creek from the east

and West Creek is here about

two thousand feet in width and follows a N.W. W.

direction, for a distance of 1/3 of

a mile. The East branches their that

distance is marked by Bump Bishop,

after being 12 p. a. depth 50 for

mile. For Rivers, M. Dolphin and
Leaving N. W. form 14. 600 feet from
the Dolphin to 20.18. 14
From 20.18. 14 the sherd
curve southeast gradually, following
a N. E. direction 10. 20.
From 10. 20. 14 to another 20.
Sparton distance above 73% of a
mile. Beyond then being the
Channel line.

On the West shore, Green Pt
is marked by a white beacon
N. E. 5° 56' N. from the beacon, distant
650 feet, near the edge of the hill,
which is a low sandy ledge, visible
at 1/2. The shore continues for about
500 feet a N. W. 30° 30' direction, then
turns southwest. The point there
formed is marked by black beacon
47. From Green Pt. On, the general
line of the shore is N. W. 10° N. to
Sparton distance 14 miles. Beyond
Green Pt. onward, the shores
are covered by 4 miles, then reaching to
Sparton. Further continues to the
N. W. line.

The Eastern shore
follows the paral. general (directions as the west.) Line a low shore
line, partly sand and partly
shingle. The two large rocks
consist of sand and gravel, with
some small boulders on the higher
shoulder, close to the hillside.

On the east shore, ESE from
Tonka, a few pikes are standing
sharply, the tips of an old half-
mast which extends to the moon
over a shock. A large light
fire, or heater, on the east shore
about 1000 north west. Why from the hill,
from which an observer could forget
the southern edge of the channel
change. The Northern part sand and
mud-like and small shoals appear through it.

Correct: The currents on
the strait, have about the velocity
applicable on the present strait.
There is no very strong flow in the strait.

Note: The tower does not appear
to the east of Tonka Pt, but appears
between Mt. P. and Tonka, depending
Upon the page of the text:
Conditions. Conclusions are
given for 50% intervals of the
intervals of occurrence of points
during the hour and 1/2 of the
hour. A second wave is selected through
themselves. To conform with
a second obtained from top of higher
peak the join December 21
February line of time to another
point due to the gap of the top of the
peak at June December 21 and
the initial elevation from the
gap of the peak E.E. from June 21
All the others show, due heavily.
Elevations of elevations are those of the mean
premonitory high.
Water is obtained at
Seco, Snow Bay and Petersburg.

Vantage Points. Magnetic meridians
are shown at frequent intervals
along the shore. They are drawn
under and the points through
which they pass are indicated
by red dot. They are shown
for future reference and because
triangulation stations, as to duplicate declinometer deviations.
Depts. of which were taken through
the entrance. One pet was taken on
the rocks S/W from the entrance.

There was considerable leakage
in the photo and while allowance was
made for this while carrying on the
photography and fixes, much leakage of

light on the photo. It would be advisable to
check positions plotted for the photogramme
shots by the photogramme given is
both marked & described for triangulation.

All the differences shown have been
decided but lights had not been established.
Lights indicated a position had not been
established, but the locations were decided
upon. The location of No. Battery was
obtained from a stake for photocell on the
water and it proved to be accurate to verify

then again, to Mr. Dowd, in charge of
the work, a tracing showing all the triang-
ulation stations throughout the anchor
and were all of the report on sheets 1-205
were recovered, and specimens were
should have per definition, in forming
horsetoothed angulas.

The oil boxes are about 3 ft.
yr. but as they are painted white
they can readily be picked up at
rightly passing trains which
pass through frequently at this
time. The horsetoothed angulas
are most other features

J. Maker 1250
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