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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

D. H. Williams
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Sydney Sheet No. **3676**

LOCALITY:

*Vicinity of
Perry Island*

1914

CHIEF OF PARTY:

R. S. Patton

11-4845

3676

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. 3676.

VICINITY OF PERRY ISLAND,

PRINCE WILLIAM SOUND, ALASKA.

Instructions for this work were to execute hydrography in the area between Perry and Lone Island, and to place a few additional soundings on the bar between Culross and Esther Island.

This work was done by the ship and launch working in conjunction, the ship doing the main work between Perry and Lone Island, and on the bar, while the launch worked along the shores of Perry and Lone Island and developed the bay on the south-east side of Perry Island. This last work was done on a scale of 1-20000 and is plotted as an insert on the sheet. This bay should have at least one day of further development before the survey can be considered complete. This additional work is that necessary to examine the ¹²~~13~~-fathom sounding on position 89 and run some channel lines to the anchorage. The last day's work done here was on Saturday, September 19th. Sunday the EXPLORER was compelled to run to Ellamar to pick up fresh meat which had been landed on the dock, and there was no subsequent opportunity to return and finish the work.

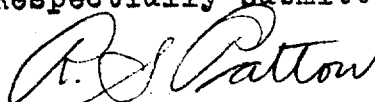
A tide gauge was established at the head of the bay where observations were taken during the period of sounding. The soundings have not been reduced, however, as these observations

did not extend over a sufficient period to enable the field party to deduce an accurate plane of reference.

The various rocks shown on the hydrographic sheet, for which no determination will be found in the sounding record, were located by the plane table.

A table of statistics of hydrographic work is attached.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "A. S. Patton".

CHIEF of PARTY.

TABLE OF STATISTICS + HYDROGRAPHIC SHEET # 5676.

Date. 1914.	Letter.	Vol.	Positions.	Soundings.	Miles, Statute.	Vessel.
Sept 17,	A	1	87-	87	27.5	Ship.
" 18,	B	1	95	95	25.3	"
" 17,	a	1	154	175	15.0	Launch.
" 18,	b	1	163	162	23.0	"
" 19,	c	1	<u>76</u>	<u>210</u>	<u>13.0</u>	"
Totals,.....			575	729	103.8	

Soundings in fathoms.

Tide Staff at S. E. Bay, Perry Island.

Plane of reference not deduced for lack of data.

Department of Commerce and Labor
COAST AND GEODETIC SURVEY
Washington

The following notes are from the boat sheet of
hyd. sheet 3676.

- ⊙ Seal :- Sharp pointed tip, bare at high water, on reef; outside of another larger flat-topped rock.
- ⊙ Shag :- A round-topped rock of small extent, bare at $\frac{3}{4}$ tide. Signal on highest point of rock.
- ⊙ Crop :- The outer end (at high water) of an out-cropping ledge of rock near the middle of the gravel and sand beach.
- ⊙ Gable :- The gable of the largest house at the head of the bay.

VEC
Mar. 8, 1915.
L. P. S.

HYDROGRAPHIC SHEET 3676.

Off Perry Island, Prince William Sound, Alaska, by
Assistant R. S. Patton in 1914.

TIDES.

	Perry Island ft.
Mean lower low water, or plane of reference on staff	0.8
Lowest tide observed " "	1.3
Highest " " " "	13.4
Mean range of tide	9.7

Hydrographic Sheet 3676

The smooth sheet is ready for approval.

Attention is called to the statement in the descriptive report that further development is needed in the area covered by this sheet.

The boat sheet is of no further value and the librarian has been instructed to destroy it.

For approval -

E. P. Ellis

2-3-16

J. Watkins
3/18/16

Post-Office Address:

Telegraph Address:

Express Office:

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

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Hyd. Sheet No. 3676

This sheet was projected and positions and soundings plotted by field party. The projection of the enlarged insert was found to be incorrect as compared to Δ Rock. Apparently this insert was traced from the boat sheet and transferred directly to this sheet being located on this sheet by the stations Δ Rock and Δ Duck. Station Δ Duck fit the projection but Δ Rock was found to have been plotted incorrectly. Since the relative positions of the topographic signals of the insert as compared to Δ Rock and Δ Duck checked with that of the boat sheet, the insert was left as it was and a projection (in red) fitted to the stations Rock and Duck. The shore line of this ^{insert} sheet was taken from the boat sheet and is shown by a dotted line. This shore line was compared with the shore line as executed by the topographic party on hydrographic sheet number 3383 and the shore line of 3383 seems to be inaccurate as proved by the soundings in this survey.

Nearly all of the rocks on ash shown on this sheet were inbed by the field party and were not mentioned by the sounding records.

Numerous sunken rock symbols (+) are shown on the boat sheets. In some cases these symbols

Hyd. Sheet No. 3676

are in the same positions as rocks awash inked on this smooth sheet by the field party and in other cases there is nothing shown on smooth sheet to indicate rocks at the positions of these symbols.

Whether the positions of these symbols on the boat sheets are meant to be positions of rocks awash in all cases is doubtful as no other evidence could be found indicating rocks at these places, except in the case of a (+) symbol in ink on boat sheet about 1200 meters SW of S Duck. At about this same position a rock awash is shown on Hyd. Sh. No. 3383 (reconnaissance).

However the relative positions of the two rocks west of this rock on Hyd. Sh. No. 3383, as compared to the relative positions of the two rocks west of the rock about 900 meters SW of S Duck on this sheet would indicate that those rocks on Hyd. Sh. 3383 belong further North and west. No rocks were placed ^{on this sheet} from the positions of these (+) symbols ^{on boat sheet}, unless other evidence was found indicating a rock at that place.

In the case of the two rocks awash 1100 meters SW. of S Dad, the south rock was inked by field party and the north one located by the sounding positions from position 846. It seems possible that these may be the same rock however there may be two as shown.

Hyd. Sheet No. 3676.

The shore line on the west side of Lone island was taken from topographic sheet No. 3278. It will be noted that this shore line does not check with the soundings near the southern part of the island, soundings of 22, $5\frac{1}{2}$ and $1\frac{1}{2}$ fathoms being inside the shore line. The shore line of this island shown on the boat sheet apparently was copied from some other sheet.

P.C. Bolinger

Sdgs in Fathoms.

Plotted by Field Party.
Verified and Inked by P.C.B.