Report 1906.

ANNUAL REPORT.

H.W.Rhodes, Ass't.

June 30th 1905——to——June 30th 1906.

From June 30th to Nov. 18th 1905, I was attached to the Str. "PATTERSON" (Capt. W.C.Hodgkins) as Executive and Navigating Officer; and during that time, in addition to ship duties, assisted in the field work of the Survey: Triangulation, Topography, and Hydrography; and established automatic Tide Gauges at Seward and Herring Bay.

Under instruction from the Commanding Officer, at the request of Major Glassford of the U.S.Signal Corps, I joined the U.S.A.Cable Ship "BURNSIDE", at Valdez, on Aug. 2nd, to accompany the expedition during the laying of the Valdez-Seward Cable. My duties consisted in piloting the vessel over the most desirable route for the Cable, as shown by the surveys of the "PATTERSON", "McARTHUR", and "TAKU"; and in locating on the charts the line actually followed.

This work was finished on August 4th; and while awaiting the arrival of the "PATTERSON" at Seward, I built the Astronomical Observatory, adjoining the U.S.Signal Corps' Cable Station.

From Nov. 18th to Dec. 23rd, I was on annual leave; and from Dec. 24th to March 23rd, I was granted furlough on account of sickness in my family.

From March 24th to April 30th, in charge of "PATTERSON", "GRIDLEY", and "McARTHUR", at Seattle, superintending repairs, preparing estimates for outfits and supplies, calling for bids, and recruiting crews.

The "PATTERSON" and "GRIDLEY" were transferred to their Commanding Officers on Apr. 30th and May 3rd, respectively; and their accounts were retained to April 30th.

16-12-13 ff

March 29th, assigned to Command of Steamer "McARTHUR".

Repairs to the "McARTHUR" were completed on May 2nd, and on May 22nd the vessel was ready for sea; and sailed for Controller Bay via. Union Bay and Juneau for coal.

Average weather was encountered on the Inside Passage.

After passing outside of Cape Spencer, on June 1st, a N.E.Gale was encountered with a heavy sea, and the ship put into Dixon Harbor for shelter. June 4th, the weather having moderated, the ship proceeded, and arrived at Cape St. Elias early on the morning of June 6th; where the day was spent in running Sounding lines around the Cape to locate the extent of the reef, extending to the Southward of Pinnacle Rock. The reef was found to extend not more than 2 miles South of Pinnacle Rock.

June 7th to June 20th, the ship was at Kayak Village; and a Hydrographic Reconnaissance of the approach to the Village, between Wingham and Kayak Ids. was made, also the necessary Triangulation for the control was made, and the Topography of the adjacent shore line was executed.

The ship was swung for deviations, and observations made on shore with the Compass-Declinometer.

June 20th sailed for Seward, via Orca for Coal, arriving at Seward on June 23rd.

June 24th--27th, at Seward, awaiting telegraphic instructions from Washington, concerning Tide Station; and in taking up, cleaning, and stowing the equipment for the Tide Gauge.

June 28th sailed for Port Chatham, arriving same night.

June 29th and 30th on reconnaissance for Triangulation at Port Chatham.

Respectfully submitted,

(Signed) H. W. Rhodes,
Asst. C. & G. S.

16-12-140

ABSTRACT OF OCCUPATION
(To accompany Annual Report of June 30th, 1905.)
H. W. Rhodes, Ass't.

July 1st ——Nov. 17th.

Field duty, Executive and Navigating Officer, Str. "PATTERSON."

Nov. 18th ——Dec. 23rd.

On Annual leave.

Dec. 24th ——March 23rd.

On furlough.

March 24th ——Apr. 30th.

In charge of "PATTERSON", "GEDNEY", and "McARTHUR", at Seattle; superintending repairs, etc.

March 29th ——June 30th.

In command Str. "McARTHUR".

May 22nd ——June 5th.

En route Seattle to working ground

June 6th ——June 20th.

Combined Operations in vicinity of Cape St. Elias and Kayak and Wingham Ids. Alaska.

June 21st ——June 23rd.

En route Kayak to Seward, via Orca for coal.

June 24th ——June 27th.

At Seward, awaiting Cable Instructions and dismantling Tidal Station. General office work.

June 28th.

En route Seward to Port Chatham.

June 29th ——June 30th.

Reconnaissance in vicinity of Cape Elizabeth, Alaska.

Respectfully submitted,
(Signed) H. W. Rhodes,
Asst. C. & G. S.

16-16-1-1

HYDROGRAPHY: Cont'd.

Hydrographic sheets finished, number of: rough 1

Hydrographic sheets, scales of & localities of: 1, $\frac{1}{10000}$

Hydrographic sheets, limits and localities of:

Approach and entrance to Kayak Village, Wingham Id., Alaska, with reconnaissance to E. E. entrance.

PHYSICAL HYDROGRAPHY:

Means of transportation (if vessel, give name): U. S. S. "MACARTHUR."

16-1E-142

Department of Commerce and Labor.
Coast and Geodetic Survey
Form 21.

STATISTICS OF FIELD WORK.

Statistics of field work executed by H. W. Rhodes, Ass't.

Date and place of beginning field work: Kayak, Wingham Id., Alaska, June 6.

Date and place of closing field work: Kayak, Wingham Id., Alaska, June 20.

TRIANGULATION:

Area of, in square statute miles:	11.5
Signal poles erected, number of:	12
Days occupied in opening and verifying lines of sight, number of:	2
Stations occupied for horizontal measures, number of:	5
Geographic positions determined, number of:	17

MAGNETIC WORK:

Land stations occupied for magnetic declination, number of:	1
Sea stations at which ship was completely swung, number of:	1

TOPOGRAPHY:

Length of general coast-line in statute miles:	10.5
Topographic sheets finished, number of: (Incomplete)	1
Topographic sheets, scales of:	1 $\frac{1}{10000}$

Topographic sheets, limits and localities of:

Entrance to Kayak Village, Wingham Island, Alaska.

HYDROGRAPHY:

Area sounded in square statute miles:	development	18.6
	reconnaissance hyd.	15.0
Number of miles (statute) run while sounding:		138.9
Number of double angles measured (positions):		1097
Number of soundings:		7573
Number of tidal stations established:		1

16-1E-142