

2799



Diag. Ct. No. 1222-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. J. A. Mann
Superintendent.

State: *Va*

DESCRIPTIVE REPORT.

Hyde Sheet No. *2799*

LOCALITY:

1906

CHIEF OF PARTY:

R. B. Derickson

U. S. G.
LIBRARY
MAY 1 - 1906
Acc. No.

6622

MAY 1 - 1906

Acc. No.

Report to accompany Hydrographic Boat Sheets
Nos. 77 and 77a, Lower Chesapeake Bay, and Mouth
of Back River,

The limits of the smooth sheet No 77 forwarded from the Office at the beginning of the work did not permit the use of sufficient signals visible in vicinity of Old Point Comfort; and the Boat Sheet scale 1/30000 and numbered B.S. 77 was constructed to plot the sounding lines on the western side of the area designated in my instructions. There was also a Boat Sheet of smaller area constructed on scale 1/10000 to cover the mouth and bar at entrance of Back River, in which were plotted the signals Back River L.H. and York Spit L.H. From these there were eleven signals determined by triangulation and plotted by intersecting distances in order to develop the mouth of Back River and channel over Plum Tree Bar.

There were approx. sixty miles of sounding lines with 6219 soundings run as shown plotted. This shows a very small area covered in comparison with that designated in the instructions but, owing to the unfavorable weather in Feb, and March and the disbanding of the party, the work was brought to a close on April 22nd.

The lines on Boat Sheet No 77 were run North & South from the vicinity of Trouble Shoal L.H. to almost of

Plain Point at the mouth of Back River.

These lines were approx 2 to 4 miles off the coast there.

The signals mostly used on this sheet were
Thimble Shoal L.H., Chy on Soldiers Home at Hampton,
Back River L.H., House \odot , New \odot , Plain Δ and York Sp. L.H.

Tides were observed at intervals at Old Paul Comfort
and at a station established at the mouth of Back River.

The tides were observed at Back River while sounding,
in that vicinity. There were also continuous observations
made at this station for 24 hours, during this time it
was impracticable to observe tides simultaneously at
Old Point, but connection can be made by comparison with
tides observed by the Hydrographic party of the Sigs. Mattles
and the Sigs. Endeavor on adjacent coast in this vicinity,
as this work was discontinued, and the party disbanded,
I was unable to get the data for the comparison of tides
before leaving the field.

To accompany these two incomplete Boat Sheets, there
are two Vols. tides at Fort Monroe (Old Paul Comfort) and
Back River, Two Vols. Sigs. Whale Boat, Back River Entrance
and Two Vols. Sigs. Ship, Chesapeake Bay.

For continuing this work, and to plot the work
submitted in the above records, I would recommend
that one sheet be made on scale $1/20000$ to take
in the signals on the West Shore only, with the Eastern

limits of the sheet at the gas buoy East of Plum Point
near mid channel; and the west at the entrance of
Boad River plotted as a subdivision on the same
sheet to a scale of 1/10000.

It would facilitate future work if the Signals
on the Eastern and Western shores were plotted on separate
sheets, as it was found that the haze and long distance
prevented the simultaneous use of signals on both
shores.

Respectfully Submitted

R. B. Dennis

Asst. Comdr
Club of Port

Sta Hydrographer, 4/10/06