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Diag. Cht. No. 77-2

Treasury Department,  
U. S. COAST AND GEODETIC SURVEY.

*J. N. Pittman*  
Superintendent.

State: *Md + Va.*

U. S. C. & G. SURVEY.  
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FEB 12 1903  
Acc. No. 2617

DESCRIPTIVE REPORT.

*Hydrographic Sheet No. 2617*

LOCALITY:

*Lower part of Kettle Bottom Shoals  
incl. Rockpoint Harb. Potomac R.*

1902

CHIEF OF PARTY:

*Fred T. Young.*

2617

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Descriptive Report of Sheet No. 3  
Registered No. 2617

U. S. G. & S. SURVEY  
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FEB 18 1903  
Acc. No.

This sheet covers the lower portion of the Kettle Bottom Shoals, Potomac River, and part of the Wicomico River. The upper part of this sheet is overlapped by sheet No. 2, and the lower part by No. 4, but the lines of demarcation are shown. The following triangulation points that were established by Assistant Mr. Brath in 1901, were recovered and the signals rebuilt for hydrography. Pope's Creek 2 and St. Margaret 2. The positions of Cobb Pt. Bar Lt. 140, Rock Point were known and Rock Point stone was also determined by line, and were used in the work. New hyd. signals Point, Cat, Brass and In were built and determined by theodolite angles, their positions being computed and plotted by d. m. and d. p. s. The signals Net and Plow were located by sextant and theodolite angles, and their positions were not computed. The tide staff at Colonial Beach, <sup>was used</sup> and no correction was applied for difference

in time, as this difference was found to be very small. The shoals as shown on the original sheet of 1862 were transferred to our rough sheet, and these spots were all closely examined and developed.

In most cases these humps were found though they were not usually in the exact spot shown, and the depth of water over them differs slightly from that indicated on the old sheet. A regular system of lines were run over the entire sheet, and many new humps were found. As far as possible all of these spots were examined and developed, though the season closed before this work was completed, and the sheet consequently is not finished.

Sounding lines were run through both the old and new channels and the lower part of these lines is shown on this sheet.

Respectfully Submitted  
 Fred. A. Young  
 Assistant U.S. Surveyor  
 United States Engineer

2617

February 3. 1903.

Mr. Andrew Braid,  
Assistant in charge of the Office.

Sir:

Referring to Hydrographic Sheet No. 2617, just received from Assistant J. A. Young, I beg to state as follows:

This sheet is not accompanied by the usual table of statistics, though we are informed that statistics for it have been forwarded to the Office. The transmitting letter accompanying this sheet states that the survey includes work done in Rockpoint Harbor. As this name does not appear upon the sheet and cannot be found on the published chart, more information as to its exact locality is desired. I beg again to call attention to the lack of names on original sheets in many cases. Such information, if furnished through ordinary correspondence frequently fails to reach the Drawing Section and is lost track of. Names in all cases should be given on original sheets even if only in pencil.

Respectfully,

Assistant and Chief, Drawing and Engraving Division.

Report  
on  
Hydrographic Sheets  
No. 2617  
Potomac River,  
Lower Part of Kettle Bottom Shoals,  
including Rockpoint Harbor,  
Md. and Va.  
Assistant Young.  
1903.

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No. 2617a.  
Potomac River,  
Lower Part of Kettle Bottom Shoals,  
Md. and Va.  
Assistant Parker.  
1904.

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Numerous shoal soundings should be verified and significant indications examined as shown in red on accompanying tracing.

All reduced soundings should be verified. This was not done, and in consequence a shoal of  $15\frac{1}{2}$  ft. in 22 ft. of water was omitted in the plotting because its reduced depth was one fathom in error.

Where shoals are sounded over and only the least depth obtained is recorded, such depth should be corrected for tide and the time when taken entered with the sounding.

3/23/05.

J.T.Watkins. (Signed).

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No. 2617a. The field work plots all right and the records were kept in a satisfactory manner. The special developments seem to have covered the ground well. The other lines combine with other sheet without special trouble.

F.C.Donn. (Signed).

2617bis<sup>2</sup>

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2617bis.F  
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Treasury Department,  
U. S. COAST AND GEODETIC SURVEY.

*O. H. Tittmann*  
Superintendent.

State: *Md. & Va.*

U. S. C. & G. SURVEY,  
LIBRARY AND ARCHIVES,  
MAR 22 1905  
Acc. No. 2617bis. 2

DESCRIPTIVE REPORT.

*Hydc.* Sheet No. *2617 bis. a.*

LOCALITY:

*Kettle Bottom Shoals  
Potomac River*

1904

CHIEF OF PARTY:

*W. E. Parker*

MAR 22 1905

Acc. No.

## Descriptive Report, Sheet # 2617.

The survey required on this sheet consisted in the examination of a number of shoals, of which indications had been found in previous surveys, but which had not as yet been developed, and in the development of the shoals.

The spots were developed by the ship, the method being to run radials around the spot until a shoal sounding was obtained on it, then drop a buoy on this spot and run lines around it. In this way, sixty four spots were developed, a number of new ones being found in addition to those given for examination. Great difficulty was experienced, however, in doing the work; the smallness of the spots, and extreme irregularity of the bottom, together with the difficulty of handling the ship with sufficient precision to place her on the required spot, making the task a slow & laborious one. In doing the work, the soundings were taken from the starboard side and the angles from the bridge.

The shoals seem to be of a rocky nature, and are always small and of very irregular shape. The depth of water varies greatly on them; a leadman by simply feeling around with his lead could get variations of depth of from one to two feet.

There were usually two indications which gave notice of the approach to a shoal; the bottom changed from soft to hard, and there would be an increase in depth around the spot.

due doubtless to the scour of the current.

The wharfat work was confined to the development of the shoreline and cribs. A thorough development was made of the shoreline off Colonial Beach, out to the ten-fathom curve, and, somewhat less thoroughly, down to signal tops. The shoal making out from Swan point was developed also. A thorough survey was made of Horse Crib, and the channel of Matty Creek developed. To do this wharfat work, a large number of new signals were set in.

The sheet was projected by aids, W. A. Hardy & R. S. Patton

R. S. Patton.

Aid, C. S. J. J. J.