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Diag. Cht. No. 77-1

Bepartment of Commerce and Cabor COAST AND GEODETIC SURVEY

Superintendent

State: Mary land

DESCRIPTIVE REPORT.

Hyde Sheet No. 2366

LOCALITY:

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CHIEF OF PARTY

J. Bankell

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Hydrographic Sheet No. 2366

New survey of Elk Cliver Ind. with a new of developing the moide water way " along the Atlantie coast via the Chesapeate + Delaware Canal. The shores of the river are nearly all occupied as farming lands. Fraffic on the river is composed of the steamers; lugs, layer te. passing through the Canal and small craft inquiged in the crasting trade -

J. D. Boutette Act And Conf. S.

The data on this summy has rear rejected me the area resurreyed. See H 2366 a also description when I is 2367 a.

You plant for 2367 a.

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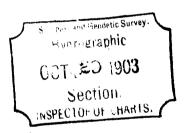
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REPORT on HYDROGRAPHIC SHEET NO. 2366a.

Elk River, Entrance to Fords Landing, Md. Assistant Flower, 1903.

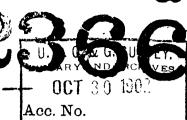
Field work is good, lines cross well, but show less water at Entrance to river than is shown by adjoining sheets Nos. 2393 and 2512. Soundings were transferred to this sheet from Sheets 2393 and 2512 and curves drawn by combining the t three surveys, giving preference to soundings on this sheet No. 2366a.

F. C. Donn. (Signed).



To Accompany Hydrographic Sheet No EXAMINATION OF ELK RIVER, MD.

from the Mouth to Ford's Landing.



Baltimere, Md., October 27,1902.

Mr. O. H. Tittmann,

Superintendent U. S. C. &. G. Survey, Washington, D. C.

Sir:-

As the work on this sheet is an examination to determine the cause of the discrepancy in the hydrographic work developed in this locality as shown on hydrographic sheets Nos. 2393, 2366 and 2512, the sounding lines were not run close enough together to furnish the development necessary for a close determination of the curves.

In executing this work, your instructions of Sept. 8,1902, were followed as closely as possible. The plane of reference reading on Reybold's Wharf Tide Gauge, used in the reductions of the soundings, was furnished by the Office. Great care was taken in referring the gauge to the beach marks and I personally attended to the leadling measurements. The leadling was measured at the beginning and close of each days work.

The weather for this work was selected and the work discontinued when the sea became chappy or rough. The lines of soundings were made to coincide as closely as possible with lines run on sheet possible # 2366 so as to give the greatest, number of coincident soundings.

As the Schooner Matchless is now undergoing repairs by the

Spedden Shipbuilding Company I find that I have no room to erect a rawing table on board so as not to interfere with the workmen making the repairs and so cannot make a report on a careful comparison of the different surveys.

I find however that my work gives less water than that shown by a my of the previous surveys. It agrees more closely with the examination by Assist. Young at the mouth, shown on Hydg. Sheet No. 2512, than with the others. A comparison with this sheet shows that out of 103 soundings taken in the same place or in nearly the same place 42 give the same depth, 21 give 1/4 of a foot less, 14 give 1/2 ft. less, 12 give 3/4 ft. less, 2 give 1 ft. less, 7 give 1/4 ft. more, 4 give 1/2 ft. more and 1 gives 3/4 ft. more water, or the average of depths shows about .17 ft. less water than on sheet #2512.

In comparing with sheet # 2566 the differences seem to vary with the different depths and a more careful comparison than I can make while the Schooner is under repairs, should be made to determine the average differences for the different depths of water shown on the two sheets. As the depths mare nearly coincide in the shoal water than in the deeper water, the differences cannot be attributed to an error in referring the tide gauge to its bench marks nor to erroneous tide readings. It is my opinion that the differences are due to an incorrect leadline.

Respectfully submitted,

Agst. U.S.C.&.G. Survey,

De & Alower

Commanding.

Office of the Coast and Geodetic Survey. January 6, Assistant in pharge of the Office. I transmit, herewith, original hydrographic sheet No. "Elk River, Chesapeake Bay to Fords Landing Maryland" is now ready for the approval of the Office. Respectfully yours, Assistant and Chief Drawing and Engraving Division.

Clk Rim Md-In oming Hyd, of Celk Rown Sneets no 2366 by Boulette 1898. no 2393 by Manudin 1898 aug 2412 by Yering in 1901- I was found that young councings give less thouther other two, though The Occurs won drawn & agreewit his soundings where they aross with the other two. The next preference so govern to (Mannecinis Roundings, as They show a less which Moun Boutellis. Ou their 2366 Jungs coundings are shown in forman figures and Marindin in Rid filians to that a companison can be made In reducing for charts the Erren counding In 149 cases where the location of the Bouleth Jung coundings Douncede, or many 20, it will be found that young coundings There a les depth by an average of 1.96 The least difference being to their (32) the and the greatest difference being 34 Hallet

Hurefore it would seem that for some cause with

work gives a defort of 19th too much water. If this should from true, then 2ft should be taken from all coundings on Boutetles two shirts of Elk River. + Back Que at But as the area covered by young was very small and as he differes from onthe Marrivolen and Boutetle, of seems necessary that a more extensive examination chows be made perbably by a series of lines covering the ground of both of Boutetle's shuts, running from shore & shore of the river so as & take in all deforts.