

6870a&b

6870a&b

Form 504 Rev. April 1935	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. A & B (field)
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES	
APR 14 1942	
Acc. No. _____	
State VIRGINIA	
LOCALITY	
JAMES AND NANSEMOND RIVERS	
HAMPTON ROADS, VIRGINIA	
1941	
CHIEF OF PARTY	
H. C. Warwick	

affiliated to chart 400 April 22, 1942 G.H.S.

" " " 529 Apr. 22, 1942 G.H.S.

" " " 1227 July 13, 1942 H.F.S.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T6870a

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. A

REGISTER NO. **T6870a**

State VIRGINIA

General locality HAMPTON ROADS

Locality PIG POINT EASTWARD

Scale 1:10,000 Date of survey November, 19 41

Vessel GILBERT

Chief of party H. C. Warwick and Harry F. Garber

Surveyed by J. E. Waugh, Jr.

Inked by J. E. Waugh, Jr.

Heights in feet above MHW to ground ~~XXXXXXXXXXXX~~

Contour, Approximate contour, Form line interval feet

Instructions dated October 11 and 16, 1940

Remarks:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T6870b

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. B

REGISTER NO. **T6870b**

State VIRGINIA

General locality HAMPTON ROADS

Locality Barrel Point + Pig Point
~~JAMES AND NANSEMOND RIVERS~~

Scale 1:10,000 Date of survey December, 1941

Vessel GILBERT

Chief of party H. C. Warwick and Harry F. Garber

Surveyed by J. E. Waugh, Jr.

Inked by J. E. Waugh, Jr.

Heights in feet above MHW to ground ~~MEAN LOW WATER~~

Contour, Approximate contour, Form line interval _____ feet

Instructions dated October 11 and 16, 1940

Remarks: _____

D E S C R I P T I V E R E P O R T

TO ACCOMPANY

TOPOGRAPHIC SHEETS A & B (field letter)

PROJECT HT - 255

JAMES RIVER
NANSEMOND RIVER

HAMPTON ROADS
VIRGINIA

INSTRUCTIONS:

The topography on these sheets was executed in accordance with the Director's Instructions to the Commanding Officer, Motor Vessel GILBERT dated October 11, 1940, and Amended Instructions dated October 16, 1940, ✓

LIMITS AND SCALE:

This area was surveyed on a scale of 1:10,000.

Sheet A extends along the shoreline from triangulation station CRANE in Latitude $36^{\circ}53'17''$, Longitude $76^{\circ}23'15''$ on the east to a point off triangulation station MOND in Latitude $36^{\circ}54'17''$, Longitude $76^{\circ}26'15''$. Sheet B extends from this point south and westward to a point off triangulation station OLDS in Latitude $36^{\circ}52'198''$, Longitude $76^{\circ}28'122''$. On the north and west side of the Nansemond River Sheet B includes the high water line between triangulation stations ASK and CHUCK in Latitude $36^{\circ}54'13''$, Longitude $76^{\circ}28'86''$ and Latitude $36^{\circ}55'135''$, Longitude $76^{\circ}29'48''$. Both sheets are limited to the location of signals, the delineation of the high water line, and the sketching of the detail immediately inshore of the high water line. ✓

CONTROL:

The control for these sheets consisted of triangulation stations both main scheme and supplementary. The triangulation stations were considered numerous enough to where no recoverable topographic stations were necessary. However; cards for two recoverable stations are attached. It was impractical to measure any shoreline reference at either station. The gable of the house can be identified on the air photographs as it is the only house in this area. ✓

SURVEY METHODS:

Standard topographic methods were followed. All planetable positions were determined by the solution of the three-point problem or the resection methods. There are no traverses on either sheet.

The entire shoreline is skirted by a narrow marsh. The offshore limits of this marsh as shown on the sheets is outside of the grass line. The inshore edge of the marsh is the higher ground and in numerous cases it extends back to the bluff as shown on the sheets. There are numerous clumps of higher ground in the marsh between Streeter Creek and Hoffer Creek. They are too small to be properly indicated on the sheet and are indicated by notes on the sheet. ✓

The stakes as shown are brush stakes to mark oyster beds etc., and are more or less temporary in character.

Detail around the watch houses off Hoffer Creek and the Nansemond

River is not shown on the sheet. It was thought that air photography would show this detail.

A small bluff with a maximum height of approximately 25 feet extends along the shoreline as shown. This bluff as well as the trees along the bluff is sketched for the most part. Wherever they fail to agree with the air photographs the air photographs should be accepted. Offshore when viewed from a boat the ground in back of the shoreline shows higher than the beach. The bluff is covered for the most part with vines and grass. Whenever possible offshore features consisting for the most part of stakes marking oyster beds and piling were cut in. The stakes were so numerous that all were not cut in due to the difficulty experienced in identifying them.

The instructions called for the location of the low water line. It was necessary to omit this feature as a shoal flat extends along the shore and it was impractical to locate the low water line by rod readings from shore. This was due in part to the fact the predicted tides were in error and a small change in tide would make a large difference in the amount of flat that would bare. The location of the low water line was accomplished by the hydrographer.

The old pier on Sheet A is in ruins and is now abandoned. It was impossible to set up on it. The pier was located by cutting in points on the offshore and inshore ends (signals FRA and EAST). Measurements were made from these points and triangulation station Nansemond Ordnance Depot Pier Light and the wharf plotted on the sheet.

The new dock at Pig Point has not been completed. The pier here is shown on the sheet as completed. The piles are all driven and the outside of these piles were rodded in and shown as the wharf. It is a double wharf. The western half being higher than the eastern half.

The inshore limits of the marsh, vegetation, etc., in the vicinity of all creeks is not shown. The air photographs will give the detail necessary for an accurate determination of the features.

The trees in this area for the most part are coniferous. The symbol that usually indicates woodlands was used to show brush varying from only a few feet in height up to small trees of 20 or 25 feet. This brush was usually found on the lower ground and along the edge of the marshes.

JUNCTIONS:

Sheet A does not join any modern survey on the east. Sheet B joins Sheet No. T-6422a at a point off triangulation station OLDS. Sheet B also joins Sheet No. T-6422a at a point off triangulation station ASK and sheet No. T-6422b at a point off triangulation station CHUCK. A satisfactory junction was obtained with these sheets except the dotted line as shown on Sheets No. T-6422 a and b checks usually what this topographer considers the outside of the marsh.

Sheet B also a resurvey of sheet No. T-6422b between triangulation stations ASK and CHUCK. The check between the two surveys is discussed in the next paragraph.

COMPARISON WITH OLD SURVEYS:

The original topography in this area was executed on Sheets No. 3774

and No. 6422 a and b. No copy of an old survey was furnished for that part of the shoreline between the creeks shown off signal TUG and triangulation station OLDS.

The shoreline does not agree with that shown on Sheet No. 3774. There is no marsh shown along the outside coast on the old work but the high water line as shown agrees roughly with the marsh line on the new work. There are numerous changes around the new dock at Pig Point as shown on the new work. The marsh off signal ZEB is larger than shown on the old survey. The agreement between sheet No. T-6422b and Sheet B is very good. On the old survey the dotted line checks approximately the outside of the marsh. The high water line just east and west of signal MET falls slightly inside the bluff line of the old survey. This is probably due to the difference in sketching. The fish stakes shown on the old survey northeast of triangulation station CHUCK are not there. The ones shown in this area are new ones. There are other differences in detail due in part to sketching between shots and others due to differences of interpretation of detail. The sand beach shown north of Barrel Point on the old survey is correct only in part. It is mostly grass and marsh as shown on the new survey. The pier shown at Barrel Point has been destroyed, only the piles remaining.

A comparison with Charts Nos. 400 and 529 shows the same differences in topography and in addition the following should be noted:

1. The wreck in Latitude $36^{\circ}53'7''$, Longitude $76^{\circ}23'$ shown on Chart No. 400 fails to check the position on the sheet by approximately 25 meters in Latitude and 90 meters in Longitude.
2. The anchor in the same area fails to check by approximately 50 meters in Latitude and 35 meters in Longitude.
3. The pontoon shown in Latitude $36^{\circ}53'8''$, Longitude $76^{\circ}53'35''$ was not seen by the topographer. It was also searched for by the hydrographic party and was not found. This pontoon was seen in 1940 by the topographer. Recommendation for the deletion of this object will be made by the hydrographer.
4. The fish house southwest of Pig Point on Chart 529 has been destroyed. Only one pile remains as shown on the topographic sheet.
5. The Nansemond Ordnance Depot Pier Light is on the other corner of the dock than that shown on Chart No. 529.
6. The house shown on the old pier off Pig Point is not there.

*In agreement
with latest
print.*

MARSHES:

The marsh along the outside shoreline is low and awash at ordinary high water. The marsh along the creeks is higher and covered only on extreme high water. The grass on the back side of the marshes is tall while that near the water is short.

MAGNETIC MERIDIANS:

Magnetic observations with the declinoire were made at triangulation station OLDS and BARREL on Sheet B. No observations were made on Sheet A as the declinoire furnished with the instrument was sluggish and did not give satisfactory results. The sheet was finished before a new one was received from the Washington Office. Opportunity did not present itself for the necessary observations to determine the declinoire error during the field season. The following observations were made with the declinoire:

Station	Declinatoire value	Variation from Chart	Date	Time
OLDS	6° 52'W	6°W	12/1/41	1040
BARREL	7° 06'W	6°W	12/4/41	1345

GEOGRAPHIC NAMES:

The following is a list of Geographic Names shown on the two sheets:

1. Blink Horn Creek ✓
2. Barrel Point ✓
3. Hoffler Creek ✓
4. Nansemond River ✓
5. North Creek ✓
6. Pig Point ✓
7. Pike Point ✓
8. Streeter Creek ✓

All of the above names except the first are charted. The first name appears on Sheet No. T-6422b. All the names were checked with fisherman and farmers in the field. They are all known locally except North Creek. However; this creek is known by as many different names as those consulted and all had as their source names of people who now own or have owned land on the creek. It is recommended that North Creek be charted as the name of this creek for having been charted as such in the past it is familiar to the Mariner by that name. Attempts to obtain names for the creeks near signals TUG and RYE were unsuccessful. One (which one is unknown) is called West Creek after the family who now live on the bluff shown between the two creeks. No name has been given either creek by the topographer.

SIGNALS OUTSIDE HWL:

For all the signals outside the high water line the name as shown on the topographic sheets is descriptive enough except for the two shown on the old dock.

FRA is an A-frame on dock

EAST is the east end of inshore stringer on old dock.

LANDMARKS:

There are two objects which should be charted. On Charts Nos. 400 and 529 there is shown only one tank at the Nansemond Ordnance Depot. A new one was recently built to the westward of the one charted. If the new one is not charted the one now shown should have a proper designation so as to avoid confusion. The new tank is signal US on Sheet A. The old tank is Triangulation station MOND. The tanks are identical. ✓

Signal HOT on Sheet B is the southeast gable of a house (main part) which shows up well from offshore.

Form No. 567 has been submitted on both these objects as well as the fish house off Pig Point referred to above.

AIDS TO NAVIGATION:

All floating aids to navigation except the two off Ragged Island Creek have been located by the hydrographer. These two were located by the topographer. ✓

The non-floating aids to navigation on this sheet were located by triangulation. Form No. 567 has been submitted on them.

T6870^{a+b}

STATISTICS:

	Sheet A	Sheet B
Total area square statute miles	0.8	1.3
Total miles of shoreline in statute miles	4.1	6.5

Respectfully submitted,

Joseph E. Waugh Jr
Joseph E. Waugh Jr.,
Ensign, U.S.C. & G. Survey

Approved and forwarded:

Harry F. Garber
Harry F. Garber,
Commanding Officer.

*All topographic features on this survey
are adequately shown on contemporary
air-photographic surveys T-8304 (1944) & T-8054 (1942).
Offshore piles, fish stakes, ^{wecks}, etc. have been transferred
to contemporary hydrographic surveys. No further
review by the Hydrographic Surveys Section
is necessary at this time.*

R. H. Carstens
4/10/47

Remarks

Decisions

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GEOGRAPHIC NAMES
Survey No. **T6870a**

GEOGRAPHIC NAMES											
Survey No. T6870a											
Name on Survey											
	A.	B.	C.	D.	E.	F.	G.	H.	K.		
Hoffler Creek											1
Streeter Creek											2
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M 234

L Heck 4/27/42

Remarks

Decisions

1		369764
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GEOGRAPHIC NAMES

Survey No.

T6870b

GEOGRAPHIC NAMES											
Survey No. T6870b											
Name on Survey											
	A,	B,	C,	D	E	F	G	H	K		
<u>Barrel Point</u>											1
<u>Blink Horn Creek</u>											2
<u>Nansemond River</u>											3
<u>North Creek</u>											4
<u>Pig Point</u>											5
<u>Pike Point</u>											6
<u>James River</u>											7
<u>Hampton Roads</u>											8
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Names underlined in red approved
by L. Heck on 4/27/42

M 234

Names underlined in red approved
by L. Heck on 4/27/42

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

~~No. T~~

No. T T6870 a. & b

received April 14, 1942
registered April 16, 1942
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	R. W. Knox
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RWK