U.S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: TOPOGRAPHIC
PBS-Z-49 T-7077 a
Field No. PBS-A-50 Office No. T-7077 b

LOCALITY
State: VIRGINIA
General locality: LOWER CHESAPEAKE BAY
Locality: OLD POINT COMFORT - BUCKROE BEACH - GRANDVIEW

19450
CHIEF OF PARTY
G.R. Fish

LIBRARY & ARCHIVES
DATE: DEC 4 1958
Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

Registry No. PBS-E-49
Field No. PBS-A-50
Scale 1:10,000

State VIRGINIA General locality LOWER CHESAPEAKE BAY

Specific locality OLD POINT COMFORT - BUCKROE BEACH - GRANDVIEW

Dates: Survey began 24 May 1949 Completed 19 April 1950

Photography, Supplemented by ground surveys to

Project No. CS-326 Instructions dated 26 July 1948

Vessel or PARTY PARKER, BOWEN, STIRN R. H. Tryon, Jr. Chief of party G. R. Fish

Field work by S. L. Hollis, Jr. Office work by S. L. Hollis, Jr.

Final inking by S. L. Hollis, Jr.

Ground elevations Treetop elevations in feet above M. H. W.

Contours Approximate contours by Planetary Multiplex Interval ______________ ft.
Form lines

Remarks Sheets are primarily a graphic control for use of Hydrographic Survey.
A. PROJECT:

Project CS-326, Instructions dated 26 July 1948, reference 222/MEK, S-2-PK-B0-ST.

B. SURVEY LIMITS AND DATES:

This is primarily a graphic control survey made for control of the inshore hydrographic survey of the western side Chesapeake Bay from Old Point Comfort to Back River.

Sheet No. PBS-E-49 was surveyed in May 1949 by Lt. Comdr. R. H. Tryon, Jr. and Sheet No. PBS-A-50 was surveyed in April 1950 by Ensign S. L. Hollis, Jr.

C. CONTROL:

Sheet PBS-E-49 is controlled by Triangulation Stations PARROTT 1939, SEAWALL 1944, RUGGES 1939, EVANS 1939, NORTH BUCKROE (USE) 1939, THIMBLE SHOAL LIGHTHOUSE 1919, 1929, OLD CONPORT COMFORT LIGHTHOUSE 1866, 1944, FORT MONROE, IRON SIGNAL TOWER 1906, 1943.

Sheet PBS-A-50 is controlled by Triangulation Stations NORTH BUCKROE (USE) 1939, GRANDVIEW 1932, FOX HILL MUNICIPAL WATER TANK 1939, BACK RIVER LIGHTHOUSE 1852, 1932 and FIR 1947. In addition an azimuth line from NORTH BUCKROE (USE) 1939 to THIMBLE SHOAL LIGHTHOUSE 1919, 1929 was plotted on the sheet eccentrically to provide a check line.

D. SURVEY METHODS:

The graphic control was accomplished by standard methods. Some signals were located by cuts and rod readings either from Triangulation Stations or 3-point plane table fixed. Traverses were run elsewhere.
There are two (2) traverses on Sheet PBS-E-49. One of 1800 meters from RUGGLES to EVANS closed 2 meters in distance. The second traverse of 2250 meters from EVANS to NORTH BUCKROE (USE) closed 5 meters in distance. Necessary adjustment of signals was done in the field.

There are two (2) traverses on Sheet PBS-A-50. One of 2800 meters from NORTH BUCKROE (USE) to GRANDVIEW closed 5 meters in distance. The second traverse of 1300 meters from GRANDVIEW to a 3-point fix, using FOX HILL, BACK RIVER LIGHTHOUSE and FIR closed 3 1/2 meters in distance. Necessary adjustment of signals was done in the field.

E. AUXILIARY SURVEY METHODS:

At the request of the Supervisor of the Southeastern District a new pier at Latitude 36 02.45', Longitude 75 17.37' on Sheet PBS-E-49 was located by taping and sextant fixes, using topographic signals. The pier was carefully plotted and inked on the topographic sheet.

F. FORM LINES:

No form lines or contours are shown on these sheets.

G. REVISION:

Existing topographic surveys are from a radial line air photo plot controlled by field identification of the existing Triangulation on photographs. Film positives "blown up" to a 1:10,000 scale were furnished this party. The present survey relocated one of the recoverable topographic stations established when the work was accomplished in 1943. Topographic station Ruc, 1943, Sheet PBS-E-49 (T-7077a) was checked in the field by rod and in from one of the plane table set ups. Topographic station Fox, 1943, Sheet PBS-A-50 was searched for but not found.

The pier previously described (E) does not appear on Sheet T-8314.

H. ADDITIONAL WORK:

This survey is considered complete as a graphic control survey. Any discrepancies from previous work are discussed in the report. No comparison with chart 1222 was made. Form 567, LANDMARKS FOR CHARTS has not been submitted as those objects most prominent are classified information.
I. DEVIATIONS FROM STANDARD PRACTICE:

The graphic control was accomplished by standard methods except as noted in this work.

J. JUNCTIONS:

This survey does not make a junction with contemporary control sheets.

K. LIST OF NEW NAMES:

No field investigation of Geographic ones was accomplished in the field.

L. STATIONS LIST OF PLANE TABLE POSITIONS:

Topographic cards have been submitted on all recoverable plane table positions. Stations for which cards have been submitted are:

1. ABE 8. GAR 15. PAV
2. BAT 9. HIM 16. RUG
3. BEL 10. IDA 17. SHED
4. BUC 11. JTG 18. TAL
5. CIN 12. LAX 19. TOP
6. DAW 13. LAS 20. TON
7. FOG 14. MAN 21. VAN

Respectfully submitted

S. L. Hollis, Jr.
Ensign, USC&GS

Approved & Forwarded:

G. R. Fish
COMDR., USC&GS
Comdg. Ships PARKER,
BOWEN, STIRNI

This graphic control sheet has been compared with contemporary hydrographic surveys. No further review by the hydrographic section is necessary at the present time.

A.R. Sturmi 4/3/55