# 8080

000

Diag. Cht. No. 73-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. CO-1353 Office No. H-8080

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Entrance to Piankatank River

19/4 53

CHIEF OF PARTY

John H. Brittain, Comdr.

LIBRARY & ARCHIVES

DATE Sept. 14, 1955

B-1870-1 (1)

## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

## HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8080

Field No. Co-1353

State	V	RG IN IA			
General locality	CHESAF	EAKE BAY			
Locality	ENTRANCE TO	) PIANKATANK	RIVER		
Scale 1:10,0	00	Da	te of survey 4M	ay to 8 Oct. 19	53
Instructions date	d 5 February	1953	·		
Vessel	COWIE				
Chief of party	JOHN H. BRITI	'AIN			
Surveyed by	SHIP'S OFFIC	ers A.E.G	reaxes, A	J. Ramey ¿ v	'.M.Ogilvi
Soundings taken	by <b>fällöönöse</b> , graj	phic recorder, h	nand lead, which	POLE	
Fathograms scale	d by PERS	ONNEL OF SH	IP COWIE		
Fathograms chec	ked by PERS	ONNEL OF SH	IP COWIE		
Protracted by	GEO. L.	FERNANDES &	t www. Feazel	<u> </u>	
Soundings pencil	ed by GEO. L.	FERNANDES &	k W.W. FEAZEL	<u></u>	· <del>-</del>
Soundings in	XXXXXXXX feet	at MLW	WEETE		
Remarks:Thi	ssurveywassm	woth plotte	d.in.the.Hydr	ographic Section	a_of_the
Norfolk Proc	essing Office.			•••••	
•			· <b></b>		
***************************************				•••••	<b>-</b>
B-B-488788888888888888888		***************************************	***************************************		

U. S. GOVERNMENT PRINTING OFFICE 777082

#### DESCRIPTIVE REPORT

#### TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8080, FIELD NO. CO-1353

CHESAPEAKE BAY

PIANKATANK RIVER

SHIP COWIE

SCALE: 1:10,000

J.H. BRITTAIN, COMDG.

#### A - PROJECT:

Project CS-287; Supplemental Instructions dated 5 February 1953.

#### B - SURVEY LIMITS AND DATES:

This survey extends from lat. 37°29.0', northward to lat. 37°33.6', and from longitude 76°15.0', westward to long. 76°23.0'. It cowers the entrance to and the lower Piankatank River, Jackson Creek, Milford Haven, Queens Creek and lesser creeks flowing into the Piankatank River.

Surveying operations began on 5/14/53 and closed on 10-8-53. Jun-H-8079 H-8083 (1953) to the south, CO-2153 (1953) to the east, CO-1453 (1953) to the west and CO-1553 (1953) to the north.

#### C - VESSELS AND EQUIPMENT:

Launch 102, equipped with 808 type fathometer No. 63, twenty-five foot hydrographic skiff no. 736 and an unnumbered 25 foot skiff, both equipped with 808 type fathometer Nos. 114 S and 118 S, hand-lead and pole for sounding. The skiffs used outboard motors for power and all boats operated from the Ship COWIE. The soundings obtained were satisfactory, showing not more than 1 foot difference between handlead, pole and fathometer. The leadline was checked daily when used and no changes were found.

## D - TIDE AND CURRENT STATIONS:

Portable automatic tide gages were maintained at Wolf Trap Light Station, Breeze Point (Milford Haven), Swing Bridge (Milford Haven), and Jackson Creek, Piankatank River during the period of this survey.

Tide gage records and all soundings are on Eastern Standard Time.

A current station was occupied at lat. 37°31.25', long. 76°18.81'.

Because of wind and sea conditions during the first 25 hour period, an additional 25 hour period was observed. All records have been forwarded to the Division of Tides and Currents.

#### E - SMOOTH SHEET:

Projections will be constructed and sheets plotted by the Norfolk Processing Office.

See Processing Office List of Signals

F - CONTROL STATIONS: MANUSCRIPT NO. T-11157:

NAME	MAN.	NO. DESCRIPTION	NAME	MAN	. NO. DESCRIPTION
AHA	384	S. gable, 2 story ho.	GAS	412	Temporary signal
AIM	349	End of pier	GEO	<b>337</b> .	
ALBE (	1944)'53	Sila	GET	<b>35</b> 5	
ANN	402	End of pier	GOB	373	End of pier
APT	_	Temporary signal	GULF (	(19 <b>44</b> )'53	NW gable, fish house
BOA	385	S gable, 2 story ho.	GUM	333	Small cedar tree
BOB	350	End of pier	HEX	414	Temporary signal
BUS	-	Stern of wrecked boat	HIS	<b>33</b> 8	End of pier
CON	386	End of pier	HOP	410	SE corner, pier
COO	-	End of pier	HOW	<u>-</u>	Pine tree on end of pier
CUE	403	End of pier	HUB	332	Temporary signal
DIX	_	S gable, fish house	JAK	-	Temporary signal
DOC	352	W gable, shed	JET	379	Inshore end of Jetty
DUD	_	Temporary signal	JOB	339	Lone cedar tree
ELF	335	End of pier	JUT	<b>3</b> 9 5	End of pier
ELM	353	End of pier	LET	340	W. gable of stable
EON	389	NW corner, pier	LOP	<b>4</b> 08 <b>a</b>	End of pier
ERA	39 O	End of pier	LOW		Temporary signal
FEZ	-	Temporary signal	LUG	331	Temporary signal
FIN	336	Dead tree	MET	341	End of pier
FIT	3 54	Temporary signal	MUG	408	End of pier
FOE	392	Temporary signal	NEW	364	S end of bulkhead
FOG	391	End of pier	NIL	342	End of pier
FOP	3 34	End of pier	NOD	396	End of pier

## F - CONTROL STATIONS (CONT.): MANUSCRIPT NO. T-11157: (CONT.)

NAME	MAN: NO	• DESCRIPTION	NAME	MAN. NO.	DESCRIPTION
ОНМ	363a	Temporary signal			
OLD	343	Temporary signal			
OWL	397	NE corner of "T" pier			
PEG	362	Temporary signal			
PET	344	S gable, shed			
PIX	39 9	End of pier			
RIG	356	Temporary signal			
RIO	345	Lone cedar tree			
RUB	406	End of pier			
RUE	388	N. gable, house			
RUM	-	End of pier			
SAX	3 57	Temporary signal			
SHE	400	NW corner of porch on ho.			
SIC	346	Temporary signal			
sin	-	Temporary signal			
SKY	371	N gable of building			
SLY	-	Temporary signal			
TEE	-	E gable of boat house			
TIM	-	Temporary signal			
TOT	3 <b>7</b> 0	End of pier			
TOY	38 <b>1</b>	End of pier			
	(19 <b>44) '53</b>	W gable, large barn			
VIM	382	Dolphin			
XAW	383	Dolphin			
WED	348	End of pier			
WHY	401a	Lone cedar tree			
WIG	369	End of pier			
WIN	-	Temporary signal			

## F - CONTROL STATIONS - MANUSCRIPT NO. T-11061:

NAME	MAN. NO	DESCRIPTION	NAME	MAN.	NO. DESCRIPTION
ABLE	<b>44</b> 0	Temporary signal	LIP	452	Temporary signal
ADO	<b>37</b> 5	Temporary signal	LOG	469	E gable, house on pier
AMY	<b>46</b> 5	End of pier	LUX	444	SW corner, pier
ARM	420	Small tree	MA K	<b>44</b> 3	SW corner of pier
TA	437	Temporarary signal	MAY! =	3724	Temporary signal
BE	438	Temporary signal	ME	-	End of pier
BIB	375a	Temporary signal	MELS(19	44)   53	Chimney at NE gable of ho.
BOX	473	E end, wedge shaped roof	MOP	470	End of pier
BUD	442	End of pier	MUM	416	End of pier
BUM	458	NE corner, pier	NEO	484	End of pier
CAW	-	Top of steps, W one of 4.	NIX	471	End of pier
COW	475	W gable, 3 story ho.	иои		Temporary signal
CRY	45 <b>1</b>	N corner of pier	NOM	41la	SE corner of pier
CUT		NE end ofpier	OFF	480	S corner of bulkhead
DAD	426	NW gable of house	OUT	-	W corner of pier,
DIM	376	N gable of shed	AVO	436	SW corner of shack
DO	439	Temporary signal	PAW	481	N gable of house
DON	472a	End of pier	PIT	459a	SW corner of pier
DOT	455	End of pier	PLY	417	Tree on high bank
EGG	377	Temporary signal	POT	435	Duck blind
EL	-	Temporary signal	RAT	482	S gable of lg. pavillion
END	447	End of pier	RAY	434	SW corner of pier
EST	441	E gable of house	REV	478	S corner of pier
FA	400	Temporary signal	ROA		Roane Bt. Lt. (1944) 53
FLY FOR	466	NW corner of pier	ROD <b>(1</b> 94	-	NE gable of house
FOUR	449	Pier steps	ROY	460	End of pier
FOX	<del>-</del> 429	Jackson Creek, Day Bn. 4	SAM	483	S gable of "L" shaped ho.
GIN	429	Temporary signal	SAT	431	Temporary signal
GO	-	Temporary signal	SILO		3 Chimney at S gable of ho.
GUS	4 <b>4</b> 8	Temporary signal S gable, house	SIS	421	Silo
GUY	428	S gable, house	SIX	462	Chimney at N gable, 2 story ho.
HE	420	Temporary signal	SKI	477	Jackson Creek Day Bn. "6"
HON	468	Temporary signal	SOL	477	S gable of boat house
HUG	447	SW corner of pier	SON	432 -	End of pier Jackson Creek Day Bn "2"
HUM	430	Lone tree	TIE	418	
ANI	446	S dormer of house	TIP .	461	N gable, house End of pier
IS	_	Temporary signal	TOM		Chimney at S gable of ho.
ITS	_	Temporary signal	TOP	_	Top of pyramidal roof. shed on pier.
JACK	_	Jackson Creek Lt. "1"	VEX	476	Duck Blind
JAY	-	End of pier	VIL	463	End of pier
JEL	446a	End of pier	WAR	474	E gable of B'ldg. on pier
JOE	453	Temporary signal	WHO	464	NW end of pier
JUG	467	E corner of pier	WOO	419	N gable
KING	373	Chimney of house	YES	454	N gable of house
KOY	445	N gable, building		-	<u> </u>
LEAN()	1944)' 53	NW gable of house			
LEG	372	Temporary signal			
		· -			

## F - CONTROL STATIONS - MANUSCRIPT NO. T-11060 (1952):

Name	MANUSCRIPT NO.	DESCRIPTION
BAT	-	Temporary signal
GAD	<b>-</b>	NW corner of shack

## TRIANGULATION SIGNALS - CO-1353:

BOS <b>S</b>	-	BOSS 1920	ROCK -	ROCK (VFC) 1920
CHER	_	CHERRY PT. LT. 1953	STING -	STINGRAY PT. LT. STATION 1900
ROA	-	ROAN PT. LT. 1944		STOVE PT. LT. 1953
ROAN	-	ROAN (VFC) 1920	STOVE -	STOVE (R) 1920

## HYDROGRAPHIC SIGNALS - CO-1353:

CAP	-	Temporary signal	MIK	_	Temporary signal on fish trap
DEL	-	Temporary signal			Temporary signal
HU K	-	Temporary signal on fish trap			Queens Creek Ent. Lt.
KID	-	Mooring piling	TO	-	Duck blind

#### G - SHORELINE AND TOPOGRAPHY:

The shoreline of the boat sheet was transferred from air photo manu-T-11060 (1952-53) script T-11157, and T-11061 which cover this area. All of the topographic signals were radial plotted from air photos on the manuscripts and then transferred directly to the boat sheet by a Photogrammetrist from the Division of Photogrammetry.

It was not practicable to define the entire low waterline by soundings due to the small range of tide and attendant difficulty of getting the sounding vessel close to the beach without long periodsof time spent dragging bottom or aground. However, sounding lines begin and end as close to the beach as the sounding vessel's draft would permit.

#### H - SOUNDINGS:

Depths were measured with the 808 type fathometer, handlead end pole. Bar checks were taken daily from sounding vessels to depths where satisfactory results could be obtained.

#### H - SOUNDINGS:

Fathometer corrections have been determined from bar checks and entered in the sounding volumes by the field party. The leadline was checked daily when used with no corrections being found.

A check on the boat sheet of the overlap between fathometer, leadline and pole shows no more thank foot differences. The junctions of work done by the individual boats are in good agreement and depth curves can be adequately drawn.

#### I - CONTROL OF HYDROGRAPHY:

Sounding lines were controlled by three-point fixes using natural objects or signals erected along the shorelines. Satisfactory results were obtained using these signals

#### J - ADEQUACY OF SURVEY:

This survey is considered complete, adequate for charting purposes and should supersede all prior furveys. Junctions with adjoining surveys are satisfactory, no holidays exist and depth curves can be adequately drawn at the junctions.

#### K - CROSSLINES:

Crosslines are in good agreement, the percentage being estimated at ten percent.

- L-N COMPARISON WITH PRIOR SURVEYS AND CHARTS: See Review, H's  $5 \not\in 6$  A comparison with prior surveys H-2813 (1906), H-988 (1869), H-987 (1868-69) and charts 534 (2/9/53), 1223 (12/22/52) and 78 (2/25/52) shows the following:
- (1) The charted 19 foot depth at lat. 37 30.28', long. 76 15.30', was not verified, however 150 meters southeast several 18 foot soundings were obtained.

- (2) At lat. 37°30.75', long. 76°15.88', several is foot soundings were obtained in charted 19 foot depths. (14-15 ft. shoal southeastward)
- (3) At lat. 37 030.821, long. 76 016.151, 4 foot soundings were obtained. This shoal is isolated from No. 2, above, and from another shoal 230 meters to the westward.
- (4) Previously uncharted depths of 5 feet were found at lat. 37°31.15', long. 76°16.68'.
- (5) Previously uncharted depths of 18 feet were found in late 37°31.04', long. 76°15.43'.
- (6) Previously uncharted depths of 17 feet were found at late 37°31.4%, long. 76°15.82.
- (7) At lat. 37°33.25', long. 76°15.62', the charted 18 foot depth Review was not verified. Instead, general depths of 11 feet were obtained.
- (8) At lat. 37°32.47', long. 76°16.72', the charted 16 foot depth was verified.
  - (9) At lat. 37°31.92', long. 76°17.40', the charted 17 foot depth was verified as the least depth on an isolated shoal. (16'sdq. 70 m. south)
  - (10) At lat. 37°31.56, long. 76°18.29, the charted ll foot depth was verified.
  - (11) At lat. 37°31.68', long. 76°18.39', uncharted soundings of 13 feet were obtained.

  - (13) At lat. 37°30.87', long. 76°19.03', 5 foot soundings were obtained in previously charted depths of 4 feet. (4-ft.depths closeby)

- (14) At lat. 37°30.98', long. 76°19.13', 4 foot soundings were obtained in previously charted depths of 3 feet.
- (15) The charted 10 foot depth at lat. 37°30.74', long. 76°18.22', Disregard

  \*\*Chart \( \sigma \) survey

  was not verified. Depths in this area were 14.6 to 15.4 feet. 

  \*\*depths agree\*\*
- (16) The charted 14 foot shoal at lat. 37°30.50', long. 76°19.14', was verified.
- (17) Burton Point Shoal Buoy "C5" at lat. 37°30.86', long. 76°19.44', marks the eastern end of a 12 foot shoal.
- (18) At lat. 37°30.92', long. 76°20.92', a 98 foot sounding was obtained in charted depths of 10 feet.
- (19) The 11 foot charted shoal at lat. 37°31.70', long. 76°20.87', was found to have 12.5 foot depths covering it. This shoal has least depths of 12 feet several hundred meters to the southwest.
- (20) At lat. 37°31.27', long. 76°20.80', 175 foot soundings were obtained in charted depths of 25 feet.
- (21) A 7.5 foot sounding at lat. 37°30.76', long. 76°21.38', was found approximately 20 meters west of charted 15 foot depths. steep s/ope
- (22) A charted 20 foot sounding at lat. 37°32.02', long. 76°21.40', was found to have 15 feet immediately to the west and 15 feet approximately 40 meters to the northeast.
- (23) To the east of Iron Point, at lat. 37°31.26', long. 76°21.35', a shoal jutting out from the point has a depth of H feet, at which point it drops sharply into 25 foot depths.
- was not verified, a depth of 256 feet being found 20 meters northwest, and 14.6 feet was found 90 meters southward.

cated by Pos. 1-q, launch 102, at lat. 37°32.68', long. 76°19.36'.

Five piles were located, one was bare by  $1\frac{1}{2}$  feet, and the other four were submerged by  $1\frac{1}{2}$  to  $2\frac{1}{2}$  feet in 8 feet of water.

- (26) At lat. 37°32.51', long. 76°20.42', Pos. 1-y, 2-y and 3-y, Lch. 102 are on submerged piling, the remains of the old Roark Wharf.
- (27) A long pier at lat. 37°31.86', long. 76°20.08', is being completed at this time. Pos. 64-m, lch. 102, is on the face of the pier. Pos. 8-y, 9-y and 10-y, are on piling about the pier.
- (28) Positions 14-m to 18-m are at ends of piers at Deagle's Marine Railway at lat. 37°32.45', long. 76°20.44'.
- (29) At let. 37°32.52', long. 76°20.42', the end of a pier at a small marine railway at Roark, Va., was located by Pos. 4-y, launch 102.
- (30) The pile from Preliminary Review No. 24, lat. 37°30.82', long. Disregard pile 76°18.05', was searched for but not found. There are no remaining piles Review, #5b from the Cherry Point Wharf in the given locations, however, a group of submerged piles was found at lat. 37°30.84', long. 76°18.095', and another group at lat. 37°30.89', long. 76°18.03', Other objects located in this vicinity, which is considered generally foul, include:

  'A partly submerged, discarded can buoy at lat. 37°30.85', long. 76°18.04'.

  'A submerged stump at lat. 37°30.85', long. 76°18.02'.

  A partly submerged pile at lat. 37°30.89', long. 76°18.01'.

  A partly submerged piece of wreckage, with piles underneath at lat. 37°30.89', long. 76°18.02'.
- A group of partly submerged piles at lat.  $37^{\circ}30.89$ , long.  $76^{\circ}18.02$ '.  $\sim$  A partly submerged piece of wreckage at lat.  $37^{\circ}30.89$ ', long.  $76^{\circ}18.02$ '.  $\sim$

(31) The following pile groups are from Preliminary Review No. 25:

The charted pile at lat. 37°29.55', long. 76°18.95', was searched for but

not found. This is a shoal area and the bottom could be seen clearly. It
is recommended that this pile be deleted from the charts. Cht. 534

The charted piles at lat. 37°29.42', long. 76°18.60', were searched for but not found. The investigation consisted of planting a buoy and dragging an 8 foot iron pipe along the bottom while circling the buoy. The leadline of the leadline of the sounding pole were used to obtain soundings throughout the investigation.

According to local information, a crab house stood on the spot from 1927 to 1937. It is therefore recommended that these piles be deleted from the charts. V Concur

The charted piles at lat. 37°29.25', long. 76°17.90', were searched Piles not now for but not found. This is a shoal area and the bottom could be seen Shown on Cht.534 clearly. It is recommended that these piles be deleted from the charts.

- The charted wreck from Preliminary Review No. 26, at lat.

  37°29.28', long. 76°19.1%, was searched for but not found. This is a shoal area and the bottom could be seen clearly. According to local information, this was a wrecked schooner which disappeared several years ago. It is concluded from the above information that this wreck no longer exists and should be deleted from the charts. Concor
- (33) The charted piles from Preliminary Review No. 23, at latitude 37°32.80', long. 76°30.70', are the remains of Jackson Creek Wharf. The piles that remain extend from lat. 37°32.79', long. 76°19.41', to lat. 37°32.68', long. 76°19.38'. One of these piles, located near the off-shore end of the wharf ruins at lat. 37°32.68', long. 76°19.34', is bare at MHW. According to local information, the piles in and around the now existing chapnel into Jackson Creek were removed at the time of dredging the channel. No piles remain to the north of the channel, from these ruins.

2

- $^{\circ}$  (34) A 4 foot square, submerged concrete block was located at late  $^{\circ}$  37°31.081, long. 76°17.881.
- (35) A small wrecked boat was spotted on the boat sheet at lat.  $37^{\circ}29.92^{\circ}$ . long.  $76^{\circ}17.6\%$ .
- (36) The ruins of an old platform, awash at MHW, were located at lat. 37°29.60', long. 76°18.28'.
- (37) The charted piles at lat. 37°29.40', long. 76°17.61', were searched for but not found. A small bush stake marks this spot which is located on the edge of a shoal. A thorough investigation was made of the spot using the handlead and sounding pole, to obtain soundings while circling the bush stake. It is recommended that these piles be deleted from the chart.
  - (38) A wrecked boat was located at lat. 37°29.71', long. 76°17.54'.
  - (39) A wrecked boat, on the beach, was located at lat. 37°29.56', long. 76°17.58'.
  - (40) A small marine railway was located at lat.  $37^{\circ}29.56'$ , longitude  $76^{\circ}17.58'$ .
  - (41) A new pier, built since the project area was photographed, was located at lat. 37°29.73', long. 76°18.41'.
  - (42) The ruins of a small dock were located at lat.  $37^{\circ}29.43^{\circ}$ , long.  $76^{\circ}18.64^{\circ}$ .
- (43) A wrecked barge, on the beach, was located at let. 37°29'47', long. 76°18.63'.
- (44) Four piles, bare at MHW, were located at lat. 37°29'70', long. 76°18.40'.
- (45) A piece of submerged wreckage, was located near the shore at lat.  $37^{\circ}29.51^{\circ}$ , long.  $76^{\circ}18.62^{\circ}$ .

- (46) A mooring pile was located at lat. 37°32.78', long. 76°19.92'.
  - (47) A mooring pile was located at lat.  $37^{\circ}32.7^{\circ}7$ , long.  $76^{\circ}19.9^{\circ}7$ .
- (48) The ruins of a small platform awash at MLW, were located at lat. 37°32.67', long. 76°20.20'.
- (49) A group of submerged piles was located at lat. 37032.68, long.
- (50) A group of 3 piles, bare at MHW, was located at lat.  $37^{\circ}32.1\%$ , long.  $76^{\circ}20.90$ .
- (51) The submerged ruins of a jetty near the entrance to Queens (awash M.L.W)

  Creek. Piankatank River were located as follows:

 $\sqrt{\text{Inshore end of jetty ruins}}$  - lat. 37°29.28', long. 76°19.58'. Angle in jetty ruins - lat. 37°29.28', long. 76°19.50'.  $\sqrt{\text{Off shore end of jetty ruins}}$  - lat. 37°29.38', long. 76°19.33'.

\*One pile, located at the offshore end of the jetty ruins is bare at WHW (/)

- (52) A mooring pile was located at lat. 37°32.96', long. 76°20.01'.(8)
- (53) A mooring pile was located at lat. 37°32.88', long. 76°19.92'.(5)
- (54) A group of submerged piles was located near the shore at lat. 37°32.805', long. 76°19.56'.
- (old platform ruins)
  (55) A group of piling, 9 bare at MHW and 3 submerged, was located at lat. 37°32.695', long. 76°20.26'.
- (56) A group of submerged piles was located at lat. 37°32.69', long. 76°20.26'.
- (57) A group of 19 mooring piles were located around a pier belonging to the Fishing Bay Yacht Club in Jackson Creek at lat. 37°32.61', long. 76°19.98'.
- (58) An 18.4 foot sounding was obtained at lt. 37°32.10', long. 76°22.20', in surrounding depths of 28 to 30 foot. Local inquiry revealed that a large Navy patrol boat had been intentionally disposed of by sinking in this vicinity. The sounding was obtained in 6 different instances with a fathometer.

- for but not found. The investigation consisted of circling a bush stake in the same location. The bottom could be seen clearly. It is recommended charfed pile in substantially the same that this pile be deleted from the charts. location as the chan marker stake shown
- searched for but not found. The investigation consisting of running a system of closely spaced lines across the axis of said ruins and taking trial Review, FG fixes to locate the position of the sounding vessel. The bottom could be seen clearly up to depths of approximately 5 feet and the fathometer was used in depths over 5 feet.
- (61) A double row of piles, bare at MHW, was located as follows:

  Offshore end lat. 37°31.43', long. 76°22.52'.

  Inshore end lat. 37°31.42', long. 76°22.56'.
  - (62) A mooring pile was located at lat. 37°31.45; long. 76°22.50'.(5)
- (63) A group of 6 piles, 4 bare and 2 submerged, was located at lat. 37.033.62', long. 76.017.89'.
- (64) An 8 foot shoal was obtained at lat. 37°29.56', long. 76°18.39', in surrounding depths of 14 feet, with the leadline. A thorough investigation was made by planting a buoy and running a system of lines converging at the buoy. What appeared to be a 6 foot sounding was obtained during this investigation. Further investigation made by dragging an iron pipe along the bottom, proved that these shoal soundings were strays. The 8 foot sounding was rejected in the sounding record, on the assumption that the leadline was misread by 1 fathom.
- (65) The wreck charted at lat. 37 29.03', long. 76 16.28', could not Disregard be found. It is recommended that this wreck be deleted from the chart.

  This is a shoal area and the bottom could be seen clearly.

- (66) A shoal sounding of 10 feet was obtained at lat. 37°32.50°, long. 76°20.28°, in surrounding depths of 17 feet. Further investigations proved this to be a stray sounding.
- (67) A shoal sounding of 7 feet was obtained at lat. 37°32.48', long. 76°20.08', in surrounding depths of 16 feet. Further investigation proved this to be a stray sounding.
- (68) A shoal sounding of 6.4 feet was obtained at lat. 37°31.07', long. 76°20.78', in surrounding depths of 12 feet. Further investigation proved this to be a stray sounding.
- (69) A previously uncharted  $\frac{\mathcal{H}}{\mathcal{H}}$  foot shoal was located at latitude 37°31.37', long. 76°18.45', in surrounding depths of 8 feet. The chart shows 5 feet in this vicinity.
- (70) The charted 3 foot depth at lat. 37°31.19', long. 76°17.36', was not found; 55° feet was the least depth' obtained in this vicinity.
- (71) The charted 3 foot depth at lat. 37°30.55', long. 76°16.72', was

  verified not found, 2.8 feet was the least depth obtained in this vicinity. However

  1 Letw A 1 foot sounding was obtained 30 meters southwest of the charted 3 foot

  15 1/2 //

  depth.
  - (72) The charted 2 foot depth at lat. 37°30.10', long. 76°16.40', was not found. The least depth obtained in this vicinity was #6 feet.
  - (73) The charted 12 foot depth at lat. 37°29.44', long. 76°16.00', was
  - (74) The charted 2 foot depth at lat. 37°29.41', long. 76°16.17', was not found. The least depth obtained in this vicinity was 4.5 feet.
  - (75) The charted 2 foot depth at lat. 37°29.28°, long. 76°16.05°, was not found. The least depth obtained in this area was not feet.

4

- (76) The charted ruins at lat. 37029.10', long. 76019.55', were looked for but not found. The bottom could be seen clearly. It is recommended Review, FC that these ruins be removed from the chart.
- (77) The pier ruins, lat. 37 29.38', long. 76 17.48', were looked for but not found. This is a shoal area and the bottom could be seen clearly. Review, #Co

  It is recommended that these ruins be deleted from the charts.

#### O - COAST PILOT INFORMATION:

Coast Pilot Information for this area has been prepared in a separate report by the Commanding Officer and has been forwarded to the Washington Office.

## P - AIDS TO NAVIGATION: See Processing Office List

Form 567, Nonfloating Aids to Navigation, was forwarded to the Washington Office 30 November 1953: (c.L. //26,/953)

Floating Aids to Navigation within the limits of this survey are as follows:

- (1) Cherry Point Buoy "Cl" REF" lat. 37°31.71', long. 76°16.10', in feet of water.
- (3) Burton Point Shoal Buoy "C5", lat. 37030.86', long. 76019.43', in feet of water.
- (4) Spar Buoy "S4AW", lat. 37°32.891, long. 76°15.251, in 29 feet of water.
- (5) Spar Buoy "S5AW", lat. 37°33.23', long. 76°15.42', in 27 feet of water

## P - AIDS TO NAVIGATION: ( CONT. )

- (6) Spar Buoy "S5W", lat. 37°32.5\$', long. 76°17.3\$', in 2/ feet of water.
- (7) Hills Bay Buoy 1, lat. 37°29.90', long. 76°19.12', in 20 feet of water.
- (8) Hills Bay Buoy 2, lat. 37°29.44', long. 76°19.18', in 10 feet of water.
- (9) Milford Haven Buoy 4, lat. 37°29.25', long. 76°18.82', in 8
- (10) Milford Haven Buoy 6, lat. 37°29.5%, long. 76°18.30', in 12 feet of water.
- (11) Milford Haven Buoy 7, lat. 37°29.38', long. 76°17.79', in /\*
  feet of water.
- (12) Milford Haven Buoy 8, lat. 37°29.21', long. 76°17.65', in feet of water.

#### Q - LANDMARKS FOR CHARTS:

Form 567, Landmarks for Charts, was forwarded to the Washington Office
30 November 1953. (C.L. //26,/953)

The two following landmarks were located within the limits of Survey CO-1353:

- (1) A large 2 story, white hotel with pavillion (Topographic signal RAT) at lat. 37°33' 686.6 m.(1163.2 m), long. 76°17' 1436.2 m (36.6 m), is prominently visible for a considerable distance and is recommended for a landmark
- (2) A tall, silver-topped silo, painted white, (Topo. signal SILO), at lat. 37°30' 1402.0 m. (447.8 m), long. 76°21' 971.5 m. (502.0 m), is visible for a considerable distance from the east and is recommended for a landmark..

#### R - GEOGRAPHIC NAMES:

Geographic names as shown on Charts 534, 1223 and 78 are adequate and no additional names are recommended.

#### U-Y - MISCELLAN EOUS:

On "m" day and "ea" day, unnumbered hydrographic skiff using 808 type fathometer no. 114-S, a number of soundings were obtained which, considering the flat bottom, were questionable.

In accordance with According to Section 571 of the Hydrographic Manual, a representative number of these soundings were investigated in the following manner:

With a different fathometer operating continuously, a 20 foot steel bar, set just clear of the bottom was dragged throughout the area, the skiff position being controlled by three-point fixes. In none of the three cases investigated did any indication of true shoal soundings appear. Therefore it was concluded that the soundings were strays and after reexamination of the fathograms, the stray soundings were struck from the sounding record and from the boat sheet.

This same situation was examined in 6 cases on CO-1453 with the same negative results.

The fathometer, No. 114-S, was removed from service.

For information, the positions of these investigated cases were as follows:

(1) Lat. 37°31.07', long. 76°20.78',  $\vee$  (2) Lat. 37°32.48', long. 76°20.08',  $\vee$  (3) Lat. 37°32.50', long. 76°20.28'

## Z - TABULATION OF APPLICABLE DATA:

- A list of signals is attached to Vol. I of the sounding record.
- A tabulation of other data is attached.

Respectfully submitted,

Arthur E. Greaves, Jr., Lieut. (j.g.); USC&GS, Ship COWIE;

Albert C. Ramey, Ensign, USC&GS, Ship COWIE.

Approved and forwarded:

J. H. Brittain, Comdr., USC&GS, Comdg. Ship COWIE.

#### TIDE NOTE

A portable automatic tide gage at Swing Bridge, Milford Haven, lat. 37°29.31', long. 76°18.62', was used for obtaining the tide reducers for Milford Haven and Milford Haven Entrance. The tide reducers for the remainder of the sheet were obtained from a portable automatic tide gage located at Jackson Creek, Piankatank River, lat. 37°32.79', long. 76°19.92. No time or height corrections were applied to the observed tides. Hourly heights were scaled from the marigrams by personnel of the Ship COWIE. A tabulation of the work covered by each tide gage is included in this report.

LAUNCH NO. 102: - JACKSON CREEK AND SWING BRIDGE TIDES:

VOL. NO.	DATE(1953)	DAY
I - XII	5/14 - 10/7	1a-y-10y

#### HYDROGRAPHIC SKIFF: - JACKSON CREEK TIDES:

XIII-XIV	5/14 <b>-</b> 5/21	1-a - 100-c
XV	6/5	1-g - 50-g
XVI	6/23	1-j - 24-j
XVI	6/25	1-k - 93-k
XVII	6/25	149-k - 154-k
XIX	8/5	1-u - 147-u
XX	8/13 - 9/1	1-W - 10-120W 1-16K Swing Bongs
XXI	9/2 - 9/10	92-y - 48-ba
XXI	9/10	67-ba - 109-ba
XXI	9/10	118-ba - 142-ba
XXI-XXIV	9/10 - 10/6	184-ba - 51-ga
VIXX	10/8	1-ha - 82-ha

## HYDROGRAPHIC SKIFF - (CONT.) - SWING BRIDGE TIDES:

VOL. NO.	DATE (1953) 5/21 - 5/27	<u>DAY</u> 101-c - 98-f
XV-XVI	6/11	1-h - 117-h
XVI	6/23	25-j - 68-j
XVI-XVII	6/25	94-k - 148-k
XIX-IIVX	7/2 - 7/23	1-1 - 104-t
XX	8/6	1-v - 12-v
XX-XXI	9/1 - 9/2	17-x - 91-y
XXI	9/10	49-ba - 66-ba
XXI	9/10	110-ba - 117-ba
XXI	9/10	143-ba - 183-ba
XXIV	10/6	52-ga - 79-ga

-21-

## STATISTICS \_

LAUNCH 1	NO.	102	:
----------	-----	-----	---

VOL. NO.	DATE(1953)	DAY	NO. OF POSITIONS	STATUTE MILES
I	5/14	<u>——</u> а	266	54.7
I	5/15	b	54	11.2
ĪĪ	5/15	ъ	52	12.9
II	5/21	c	216	52.7
III	5/22	d	133	26.1
III	5/26	е	127	29.3
IV	5/27	${\bf f}$	145	37.1
IV	6 <sup>'</sup> /5	g	112	22.2
IV	<b>6/</b> 9	h	37	7.7
Λ	6/9	h	29	6.9
V	6/10	j	116	21.9
V	6/11	k	140	31.1
VI	6/23	1	256	58.6
VI	6/24	m	63	12.9
VII	6/24	m	75	14.8
VII	6/25	n	230	48.3
VIII	7 <i>/</i> 9	p	30 .	<b>5</b> • 3
VIII	7/15	q	109	17.6
VIII	7/16	r	157	31.7
IX	7/16	r	108	18.2
IX	7/28	S	85	11.8
IX	7/29	t	118	20.5
X	7/29	t	138	19.4
X	8/5	u	168	27.4
XI	8/5	u	61	11.0
XI	8/6	· v	240	39.2
XII	9//3	w	128	16.2
XII	9/4	×	71	12.9
XII	10/7	У	10	0.1
TOTALS:			3474	679 <b>.7</b>

## STATISTICS \_

Η	Y	D	RC	)G	R	ĄF	PHIC	S	ΚI	FF	•

VOL. NO.	DATE(1953)	DAY	NO. OF POSITIONS	STATUTE MILES
XIII	5/14	a	182	32.6
XIII	5 <b>/1</b> 5	Ъ	82	14.3
XIII	5/21	C	20	3.6
VIV	5/21	c	99	14.6
VIX	5/22	đ	77	11.8
XIV	5/26	е	62	9.1
XIV	5/27	f	53	5.1
XV	5/27	f	45	4.3
$\nabla \mathbf{X}$	6/5	g	50	6.1
IVX	6/11	ĥ	117	9.8
XVI	6/23	j	68	6.1
IVX	6/25	k	104	12.0
IIVX	6/25	k	50	5 <sub>•</sub> 8
IIVX	7/2	1	37	5.5
IIVX	7/7	m	109	11.6
IIVX	7/8	n	92	10.2
XVIII	7/8	n	47	4.4
XVIII	7/9	p	126	9.7
IIIVX	7/15	q	59	$3 \cdot 4$
XVIII	7/16	r	63	2.8
XIX	7/17	S	19	2.2
XIX	7/23	t	104	10.5
XIX	8 /5	u	147	12.2
XX	8/6	v	12	0.7
XX	8/13	w	120	10.5
XX	9/1	x	59	3.9
XX	9/2	У	104	10.2
XXI	9/8	z	34	1.6
XXI	9/9	aa	158	9.7
IXX	9/10	ba	130	11.8
IIXX	9/10	ъа	82	5.6
XXII	9/15	ca	178	18.1
XXII	9/16	da	63	5.2
XXIII	9/16	da.	112	10.2
IIIXX	9/17	ea	204	19.8
XXIV	9/17	ea	16	. 1.4
VI XX	10/2	fa	23	1.7
VIXX	10/6	ga	<b>7</b> 9	3.1
VXIV	10/8	ha	82	5.4
TOTALS F	OR HYDRO. SKIFF:		3268	326.6
TOTALS F	OR LAUNCH NO.102	: '	3474	679.7
GRAND TO	TALS:		6742	1006.3

AREA: - 26.5 Square Statute Miles.

-23FATHOMETER CORRECTIONS

## LAUNCH\_NO.\_102:

DAY	DATE(1953)	CORRECTION
a	5/14	No correction
Ъ	5/1 <b>&amp;</b>	No correction
c	5/21	0.0 to 6.0 - 0.4 ft.
		6.5 to 9.0 - 0.2 ft.
	<u>.</u>	Over 9.0 - 0.0 ft.
d	5/22	No correction
Θ	5/26	No correction
${\bf f}$	5/27	No correction
g	6/5	No correction
h	6/9	No correction
j	6/10	0.0  to  7.5 - 0.2 ft.
		Over 7.5 - 0.0 ft.
k	6/11	No correction
1	6/23	No correction
m	6/24	No correction
n	6/25	No correction
p	7/9	No correction
<b>q</b>	7/15	No correction
r	7/16	No correction
8	7/28	No correction
t	7/29	No correction
u	8/5	No correction
Δ	8/6	0.0 to 7.5 - 0.2 ft.
		8.0 to 13.5 - 0.0 ft.
		14.0 to 21.5 - 0.2 ft.
		22.0 to 30.0 - 0.4 ft.
		Over 30.0 - 0.6 ft.
w	9/3	No correction
x	9/4	0.0 to 7.5 - 0.2ft.
		Over 7.5 - 0.0 ft.
У	10/7	No correction

## FATHOMETER CORRECTIONS:

## HYDROGRAPHIC SKIFF:

DAY	DATE(1953)	CORRECTION
a	5/14	Pole
b	5/15 5/21	Pole
о С	5/21	Pole
d	5/22 5/26	Pole Pole
e f	r'/or	Pole
g	6/5	Pole
h	6/11	Pole
j	6/23	Pole
ĸ	6/25	Pole
1	7/2	No correction
m	7/7	No correction
n	<b>7</b> /8	0.0 to 8.0 - /-0.0 ft.
		8.5 to 14.00.2 ft.
		14.5 to 18.00.4 ft.
		18.5 to 20.00.6 ft.
		20.5 to 22.00.8 ft.
		Over 22.01.0 ft.
p	7/9	Pole
q	7/15	Pole
r	7/16	Pole
8	7/17	0.0 to 13.0 - /-0.0 ft.
/	•	13.5 to 17.00.2 ft.
	9	Over 17.00.4 ft.
t	7/23	Pole
u	8/5	Pole
<b>V</b>	8/6	Pole
W	8/13	Pole
X	9/1 9/2	Pole
y z	9/8	Pole Pole
aa	9/9	Pole
ba	9/10	No correction
ca	9/15	0.0 to 20.0 - /-0.0 ft.
	•	20.5 to 26.00.2 ft.
		26.5 to 30.00.4 ft.
		30.5 to 33.00.6 ft.
		Over 33.0 ft0.8 ft.
da	9/16	No correction
68 £5	9/17	No correction
fa	10/2	0.0 to 23.0
•		23.5 to 27.0 - '-0.2 ft.
		27.5 to 30.00.4 ft.
ga Ar 2737	10/6 Fathameter 120	Over 30.00.6 ft.
ha "	10/8 " ?	No correction No correction
-	/ -	MO COT LACCTOH

## PROCESSING OFFICE LIST OF SIGNALS H-8080 (Co-1353)

## TRIANGULATION STATIONS

BOSS	BOSS, 1920
CHER	CHERRY POINT LIGHT, 1953
MIL	MILFORD HAVEN ENTRANCE LIGHT, 1953
ROAN	ROAN (V.F.C.), 1920
ROCK	ROCK (V.F.C.), 1920
STING	STINGRAY POINT LIGHTHOUSE, 1900-38
STO	STOVE POINT LIGHT, 1953
STOVE	STOVE (V.F.C.), 1920

## DESCRIBED TOPOGRAPHIC STATIONS

Albe	Albe, 1944-53	T-11157
Four	Jackson Creek Daybeacon 4, 1953	T-11061
Gulf	Gulf, 1944-53	T-11157
Jack	Jackson Creek Light No. 1, 1953	T-11061
Lean	Lean, 1944-53	31
Mels	Mels, 1944-53	11
Roa	Roan Point Light, 1944	11
Rods	Rods, 1944-53	n
Shore	Shore, 1944-53	n
Six	Jackson Creek Daybeacon 6, 1953	11
Son	Jackson Creek Daybeacon 2, 1953	11
Trav	Trav, 1944-53	T-11157

TOPOG	RAPHIC	STATIONS		COME	MOITALLY	T-110	60				
Bat	Eva	Fox	Gad	Guy	Hum	Sat					
				COMP	PILATION	<b>T-11</b> 0	61				
Able Cry Fa Jay Me Ply	Ado Cut Fly Jel Mop Pot	Amy Dad For Joe Mum Rat	Arm Dim Gin Jug Neo Ray	At Do Go Kim Nix Rev	Be Don Gus Kay Non Roy	Bib Dot He Leg Now Sam	Box Duo Hon Lip Off Silo	Bud Egg Hug Log Out Sis	Bum El Ina Lux Ova Ski	Caw End Is Mak Paw Sol	Cow Est Its Maw Pit Tie
Tip	Tom	Top	Vex	Vil	War	Who	W00	Yes	OKI	201	110
				COMP	CILATION	T-111	57				
Aha Dud Geo Jut One Sky	Aim Elf Get Let Owl Sly	Ann Elm Gob Lop Peg Tee	Apt Eon Gum Law Pet Tim	Boa Era Hex Lug Pix Tot	Bob Fez His Met Rig Toy	Bus Fin Hop Mug Rio Vim	Con Fit How New Rub Wax	Coo Foe Hub Nil Rue Wed	Cue Fog Jak Nod Rum Why	Dix Fop Jet Ohm Sax Wig	Doc Gas Job Old Sic Win

## HYDROGRAPHIC STATIONS

Cap	T-11157	D <b>el</b>	T-11157	Huk	Vol. 8, pg. 65
Kid	T-11061	Mik	Vol. 1, pg. 67	Pro	T-11157
San	T-11157	To	T-11061		

## FLOATING AIDS TO NAVIGATION H-8080

BUOY	LAT.	METERS	LONG.	METERS	DEPTH	POS. NO.	DATE
Cherry Pt. Buoy 1	37-31	1327	76-16	. 153	18'	72t	7-29-53
Cherry Pt. Buoy 3	37-31	1443	76-18	474	221	77e	5-26-53
Burton Pt. Shoal Buoy 5	37-30	1570	76-19	62 <b>7</b>	16'	82 <b>s</b>	7-28-53
Hills Bay Buoy 1	37-29	1670	76-19	190	191	5 <b>9</b> q	7-15-53
Hills Bay Buoy 2	37-29	817	76-19	259	10'	57m	7- 7-53
Milford Haven Buoy 4	37-29	5 <b>1</b> 0	76-18	1201	81	60m	7- 7-53
Milford Haven Buoy 6	37-29	964	76-18	436	14'	39m	7- 7-53
Milford Haven Buoy 7	37-29	683	76-17	1160	14'	101m	7- 7-53
Milford Haven Buoy 8	37-29	390	76-17	952	10'	105mm	7- 7-53
				3	•		
FIS	HING GR	OUND MARI	ker buoy	S			
S-4AW	37-32	1688	76-15	395	291	125n	6-25-53
S-5AW	37-33	434	76-15	644	271	llw	9- 3-53
S-5W	<b>37-3</b> 2	955	76-17	483	201	4 <b>x</b>	9- 4-53
S	37-33	317	76-17	32 <b>7</b>	16'	94w	9- 3-53

### ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8080 (Field No. Co-1353)

## GENERAL

This appears to be an excellent basic survey and no unusual difficulties were experienced during the smooth plot. Soundings checked very well at crossings  $\, arkappa \,$ and the agree ment between pole and fathometer soundings was good.

Respectfully submitted,

Hugh L. Proffitt Cartographer

Norfolk, Va. 2 Sept. 1955

	GEOGRAPHIC NAMES Survey No. H-\$0\$0			12 STrate	Madiani	3.5	Mars	, goi	Mo Molly All		3
			Mo. Ou	periods sure	D Moderal	nood stor	Lido Mats	O Guide of	Roca Netto II And I State of S	Signif	
	Name on Survey	A	B	, C	_ D _	E	F	G	Н /	/ <sub>K</sub> .	
	Virginia 🗸								1	BGN	1.
	Chesapeake Bay	100							:	11	2
-	Piankatank River			ļ						t?	3
	Cherry Point										4
	Gwynn Island				ļ		ļ				5
	Milford Haven		ļ								6
•	Hills Creek										7
	Hickorymut Cove	ļ	19.								8
	Barn Creek							ļ	1		9
	Edwards Creek		<u> </u>		ļ			ļ	1		10
	Wharf Creek					ļ!					11
	Lanes Creek		ļ		ļ						12
	Winder Creek								-		13
	Queens Creek				<u> </u>		-				14
	MillerCove	_			•			ļ			15
	/ P_stle Cove	· · · · · · · · · · · · · · · · · · ·	ļ							<u></u>	16
	Kenney C eek			ļ	<u> </u>		ļ	ļ	-		17
	Hills Bay					<u> </u>		ļ		-	18
	Burton Point			ļ		<u> </u>		ļ			19
	Godfrey Bay			ļ ,			ļ				. 20
<del>-</del>	Warehouse Cove	•	-	ļ			ļ	ļ ·	-		21
	Cores Creek										22
	Moore Greek			ļ	See	chart t of n		for be	est plac	<del>&gt;0 -</del>	23
	Fishing Bay	_			men	L OT II	Ames.				24
	Stove Point Neck						ļ				25
	Jackson Creek (ne	ame app	lies t	p both	north	erly a	nd wes	terly	erms)		26
			Names	approv	red 9-1	6-55.	L.He	, ck			27 M 234

## Hydrographic Surveys (Chart Division)

## HYDROGRAPHIC SURVEY NO. . ...

			* 1
Records accompanying survey:			1
Boat sheets 1 (2 parts) ounding vols 24;	wire dra	g vols	;
bomb vols; graphic recorder rolls	13-Envel	opes	
special reports, etc !- Pescriptive report.		*	
3-Overlay tracings.		•	
The following statistics will be submitted w repher's report on the sheet:	with the	cartog-	
Number of positions on sheet		6742.	
Number of positions checked		256	
Number of positions revised		15.	
Number of soundings revised (refers to depth only)		* 14.40 Cygarox	
Number of soundings erroneously spaced		5	
Number of signals erroneously plotted or transferred			
Topographic details	Time	40	
Junctions	Time	80	
Verification of soundings from graphic record	Time	40	
Verification by F.P. SAULSBURYTotal time			
Reviewed by Almsmore  * Arbit. corr. 0.5to-1.0ft, affecting approx. 50 "L'day &"n" day-launch 102, to attain ju  Tide corr applied 18-844 149-1584 Arkt affecting	me .48. 0 sdqs. a	pplied to parts	57 of
L'day &"n" day-launch 102, to attain ju Tide corr applied 28-844, 149-1584 Ark II, affecting	nctional approx	agreement wit 265 ságs.	<i>n n -0</i> ~ω,
Various init corr., affecting approx. 675	sdýs, ap	plied to parts	; of
b, n, 8, t, v &x days, launch 102 & ha day, skift	736.		-
		M.2232.	

#### DIVISION OF CHARTS

#### REVIEW SECTION - NAUTICAL CHART BRANCH

#### REVIEW OF HYDROGRAPHIC SURVEY

### REGISTRY NO. H-8080

FIELD NO. CO-1353

Virginia, Chesapeake Bay, Entrance to Piankatank River

Project No. CS-287

Surveyed - May - Oct. 1953

Scale 1:10,000

Soundings:

Control:

808 Depth Recorder Hand lead Pole

Sextant fixes on shore signals

Chief of Party - J. H. Brittain
Surveyed by - A. E. Greaves, A. J. Ramey and J. M. Ogilvie
Protracted by - G. L. Fernandes and W. W. Feazel
Soundings plotted by - G. L. Fernandes and W. W. Feazel
Verified and inked by - F. P. Saulsbury
Reviewed by - T. A. Dinsmore 3 July 1957
Inspected by - R. H. Carstens

## l. Shoreline and Signals

The shoreline originates with reviewed air-photographic surveys T-11060, T-11061 and T-11157 of 1952-53.

The origin of the signals is given in the Descriptive Report.

## · 2. Sounding Line Crossings

Depths at crossings are in excellent agreement. Numerous 1-ft. differences were eliminated by rescanning the fathograms, revisions to the initial correction and application of an arbitrary correction of plus or minus 0.1 - 0.2 ft. to pole soundings. The arbitrary corrections were based on numerous crossings and adjacent soundings. In such information municipy?

## Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated. The 3-ft. curve was added to accentuate the inshore sand ridges and to delineate the creek channels.

A striking feature of the area is the shoal-water spit extending southeastward from Stove Point Neck to the light in lat. 37°30.85', long. 76°18.95', where depths of 4 - 5 ft. drop

+ 48' 100mm.

sharply to depths of 47 ft. in as short a distance as 60 meters. Numerous shoals, sand ridges and abrupt slopes throughout the surveyed area contribute to the general uneveness of the bottom.

## 4. Junctions with Contemporary Surveys

Adequate junctions were effected between the present survey and H-8082 (1953-54) on the north, H-8083 (1953) on the east, H-8079 (1953) on the south and H-8081 (1953) on the west.

## 5. Comparison with Prior Surveys

## a. H-285 (1851) 1:40,000

This early small-scale reconnaissance survey may be disregarded as lacking sufficient reliable information for a comparison of any value.

## b. H-987 (1868-69) 1:20,000 H-988 (1869) 1:20,000

H-2813 (1906) 1:20,000

These prior surveys taken together cover the area of the present survey. A comparison of the prior and present surveys reveals only minor differences of 1 - 2 ft. In general, the prior and present depths agree closely. However, the more thorough coverage of the present survey discloses much information not shown on the smaller-scale prior surveys and defines the bottom configuration more completely.

The following discrepancies are noted:

- (1) The 18-ft sounding charted in lat. 37°33.25', long. 76°15.62', from H-2831 should be disregarded. Falling in smooth-bottom depths of 21 22 ft. on both the prior and present surveys, the prior unsupported sounding is considered erroneous. Present development is adequate to discredit the prior sounding.
- (2) The pile charted in lat. 37°30.82', long. 76°18.05', from H-2813 should be disregarded. Investigation on the present survey revealed that no piling from the old Cherry Point Wharf now exist in the above locality. Other piling and old wreckage located immediately northward should be charted.

The present survey is adequate to supersede the prior surveys within the common area.

## 6. Comparison with Chart 534 (Latest print date 5/20/57)

### A. Hydrography

Charted hydrography originates principally with the previously discussed surveys supplemented by partial application of the present survey prior to verification and review.

The following discrepancies in the charted information are noted:

- (1) An investigation of the ruins of Jackson Creek Wharf in lat. 37°32.85', long. 76°19.41', on the present survey revealed that the piling in and around the existing channel were removed at the time of dredging the channel. No piles remain north of the channel. Existing pile ruins south of the channel are indicated on the present survey.
- (2) The 19-ft. sounding charted in lat. 37°31.17', long. 76°19.78', from the present survey prior to verification and review should be disregarded. Falling in present depths of 27 ft., the 19 is erroneous as charted. A 19-ft. sounding does, however, fall about 45 meters southward.
- (3) The sunken wreck charted in lat. 37°29.28', long. 76°19.10', since 1910 from an undetermined source should be deleted from the chart. An investigation of this shoal area with the bottom visible revealed no remains of this old wreck which was reported locally as having been removed several years prior to the time of the present survey.
- (4) The piles charted in lat. 37°29.45', long. 76°18.60', from a Coast Pilot Inspection (Chart letter 106) of 1937 should be disregarded. A pipe-drag investigation of the locality revealed no remains of the piling which had previously supported a crab house. The piling should be removed from the chart.
- (5) The wreck charted in lat. 37°29.03', long. 76°16.25', from an air-photo revision survey of 1951 (Bp. 49025) should be disregarded. Falling in depths of 2 3 ft., no evidence of this wreck was found during a search on the present survey. The hydrographer states that the bottom was clearly visible.
- (6) Attention is directed to the following charted features:

Description	Latitude	Longi tude
pier ruins	37°31.4' 37°29.15'	76°22.21 76°19.571
11 11	37°29.41	76°19.57' 76°17.46'

The above ruins, all of which fall in relatively shoal depths were searched for on the present survey. The bottom was visible in all localities. In the opinion of the hydrographer, these features which have been charted as ruins for many years do not presently exist. It is, therefore, recommended that they be removed from the chart.

(7) The group of piling charted in lat. 37°29.4', long. 76°17.6', from T-8329 (1945) should be revised to agree with the information shown on the present survey.

The present survey supersedes the charted information.

## B. Aids to Navigation

The buoys located on the present survey is Milford Haven (south of Gwynn Island) have been subsequently replaced by lights or daybeacons now charted from information published in H. O. Notice to Mariners No. 1 (1955).

Except as noted, the aids to navigation located on the present survey are in substantial agreement with the charted aids and adequately mark the features intended. The spar buoy located on the present survey in lat. 37°33.18', long. 76°17.21', is apparently a derelict buoy which has moved off its station.

## 7. Condition of Survey

- a. The sounding records are complete. The Descriptive Report covers all matters of importance except that an excessive number of soundings under paragraphs L N were listed with their latitudes and longitudes. Seventy-seven soundings or inshore features were included, a large majority of which were unimportant to nautical chart revision or to the verification and review of the survey.
- b. The smooth plotting was generally accurate.
- c. Numerous fathogram strays produced on the survey were investigated by dragging a 20-ft. steel bar over the localities affected while the fathometer was kept in constant operation. In a close investigation of three separate areas, no indications of the shoaler depths were found. It was, therefore, concluded that the shoal fathogram recordings were indeed strays and were stricken from the sounding volumes. The areas investigated are listed in paragraph U Y, page 17 of the Descriptive Report.

Compliance with Project Instructions 8.

The survey adequately complies with the Project Instructions.

Additional Field Work

This is an excellent basic survey and no additional field work is required.

Examined and Approved:

Wallace a. Bruder for Max G. Ricketts Chief, Nautical Chart Branch

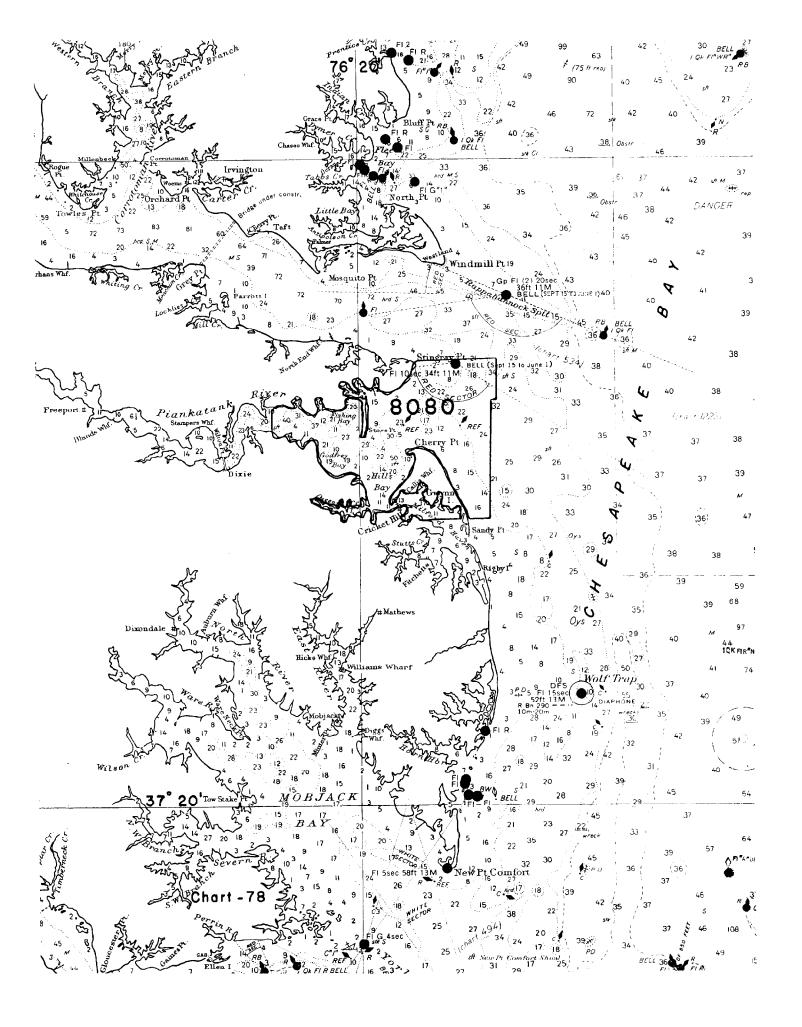
Chief, Hydrography Branch

Charles A. Schanck Chief, Chart Division

Samuel B. Grenell Chief, Division of Coastal Surveys

Ju note wester Sundry Line Crossings

plat bottom areas RH. Constans



## TIDE NOTE FOR HYDROGRAPHIC SHEET

#### DINA SION XX XOOEXX XX XXXXXXXXXXXX

September 23, 1955

Division of Charts:

R. H. Carstens

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET

8080

Locality Piankatank River, Virginia

Chief of Party: J. H. Brittain in 1953 Plane of reference is mean low water, reading 2.4 ft. on tide staff xxx (May 5, 1953) at Jackson Creek 2.1 ft. kerbowxRxxMx on tide staff (July 28, 1953) at Jackson Creek 9.9 ft. below B. M. 1 (1953) 1.7 ft. on tide staff at Milford Haven (Swing Bridge)

15.3 ft. below B. M. 1 (1953)

Height of mean high water above plane of reference is 1.2 feet.

NOTE: Tide reducers for the positions listed below have been revised in red and verified:

#### RODICK KROKK OK KROCOK ASCEAL KSTAKKA KAKAGIKK AS KIOTEC KOEHDA.

Volume	Positions
XX	19-84 150-157

WilleamShafins Cectury Chief, Division of Tides and Currents.

## NAUTICAL CHARTS BRANCH

SURVEY NO. H-8080

## Record of Application to Charts

		,		
DATE	CHART	CARTOGRAPHER	REMARKS	
9-14-55	534	Eaton-Walker	Before After Verification and Review application  11 " " " Through Charles	
12/12/56	1223	Rogars 7	" " " Herough char	
1//1/57	534	The Allrand	After Verification and Review 31116	
3-/3-59	/223	R. K. De Lawder	-Before After Verification and Review Ilm Cht 534.	
		,		
1/4/61	78	J. HEaton	Bafare After Verification and Review then cht 143	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Soldie 12101 Foliated on this 19071011	
-				
			-	

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Partially applied to ch 534 lefore V&R - Eaton - Waller, - 9/14/55