Diag. Cht. No. 1282-2.

FORM **C&GS-504**

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ECFP-12.5-1-68/fice No. H-8695

LOCALITY

State Texas

General locality Galveston Bay

Locality Vicinity of Red Fish Bar

19.62

CHIEF OF PARTY

S. L. Hollis, Jr.

LIBRARY & ARCHIVES

DATE 1-25-65

USCOMM-DC 37022-P66

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-8695

Field No. ECFP-12.5-1-62

StateTEXAS		
General locality	Galveston Bay	
Locality	Vicinity of Red Fish Bar	
Scale 1: 12,50	Date of survey	3 July "62 to 9 Oct. "62
Instructions date	211/pt. S-2- ECFP, dated 25 April	1962
Vessel CS-183	and Skiff NO. 758	
Chief of party	Steven L. Hollis, Jr. LCDR.	
Surveyed by	A. Lewis & W.V. Hull.	·
Soundings taken	oy f athometer , graphic recorder, hand lead, w	ire and Pole
Fathograms scal	d by Party Personnel	
Fathograms chec	ted by Party Personnel	
Protracted by	W.L. JONNS (Norfolk O	ffice)
Soundings pencil	d by W.L. JONNS "	11
Soundings in	athems feet at MLW MLLW	
REMARKS:		
	,	

DESCRIPTIVE REPORT TO ACCOMPANY

Hydrographic Survey H-

(Field No. ECFP 12.5-1-62)

Project: OPR-428

Scale: 1:12,500

EAST COAST FIELD PARTY

S.L. Hollis, LCDR.

Chief of Party

Surveyed by: K.A. Lewis

A. PROJECT

Work on Project OPR-428 was executed in accordance with instructions 211/pt. S-2-ECFP, dated 25 April 1962.

B. SURVEY LIMITS AND DATES

This survey is in the vicinity of Red Fish Bar, Galveston Bay, Texas and covers that portion of the bay between lat. 29° 27.0' to 29° -32.0', long. 94° -47.5' to 94° -57.0'.

This survey makes juncture with contemporary survey H-8693 (ECFP 10-5-62) on the south $\frac{8694}{2}$ (ECFP 10-6-62) on the north & west, survey H-8743 (20-3-62) now in progress on the north, and survey H-8745 (20-2-62) on the east & south (not in progress at this time).

C. SOUNDING VESSELS

Launch CS-183 and Skiff 758 were used in this survey. A 16 ft. aluminum skiff, designated Skiff No.2, was used one day to obtain detached positions.

Vessel Launch CS-183 Skiff 758 Skiff No.2

Identifying Color violet red green

D. SOUNDING EQUIPMENT

Model 255C, EDO graphic recorders, serial Nos. 11 and 13 were used to obtain soundings on Launch CS-183. 808J fathometers Nos. 113S and 57-34 were used on Skiff 758.

D. SOUNDING EQUIPMENT (CONT'D)

Corrections to be applied to echo soundings were determined from daily bar checks and simultaneous comparisons. An abstract of these comparisons is tabulated in Appendix "B" of this report.

A sounding pole was used to obtain soundings in less than 7 ft. on Launch CS-183. An armed lead was used to obtain bottom samples.

No unusual difficulties were encountered with the sounding equipment.

E. SMOOTH SHEET

Smooth plotted by Norfolk Hydrographic Processing Branch on a machine made projection.

F. CONTROL

Horizontal control was obtained by standard visual threepoint sextant fix methods. Appendix "A" of this report contains a complete list of control used and the quality and source of control.

G. SHORELINE

Shoreline detail was taken from blueline prints of Manuscripts T-9798 and T-9800. There are small changes in the shoreline to be noted on the small island to the east of West Pass. changes are shown in red on the boat sheet.

H. CKOSSLINES

Crosslines were run at approximately 10% of the regular system of sounding lines. Crossings were in good agreement.

I. JUNCTIONS

Depths at the junctions with the surveys listed in section "B" are in good agreement and depth curves can be adequately drawn at these junctions.

Junctions with the two 20,000 sheets will be compared at the completion of the surveys. (See Review Para.5)

J. COMPARISON WITH PRIOR SURVEYS (This is a boat sheet comporison)

A comparison was made with Prior Surveys H-5510 - 1933-34 scale 1:20,000 and H-\$394 - 1933-34, scale 1:20,000. The area northwest of Eagle Point is in fair agreement however numerous changes were found in other areas. The area in the vicinity of

J. COMPARISON WITH PRIOR SURVEYS (CONT'D)

Red Fish Bar and eastward shows the greatest amount of change. These changes are listed under item K. Comparison with Chart.

The following features shown on the prior survey were investigated by this survey with a modified sweep. These items are not shown on the chart and were not listed as

"Preliminary Review Items".

Prior Survey Feature	Position	кетаrks
Pile - bare	lat. 29° -27.97° long. 94° -51.23°	Area swept - nothing found.
Stake	lat. 29° -29.70° long. 94° -52.62°	Area swept - nothing found.
2 piles	lat. 29° -29.45° long. 94° -54.48°	Area swept - nothing found. Pile D.P.'d 40m west of this posit.
Stake	lat. 29° -29.49° long. 94° -54.60°	Area swept - nothing found.

K.COMPARISON WITH CHART (This is a companison with the boat sheet)

This survey was compared with Chart 1282; 19th Edition;
Feb. 1962; scale 1:80,000. The area east of the ship channel, vicinity of Middle Pass, Trinity River Channel and Red Fish Bar shows considerable change due to extensive shell dredging. The area in the vicinity of Eagle Point shows little change. The following changes are to be noted:

Smooth sheet	Charted feat & Depth	ure	Position	kemarks (boot sheet)
8ft 3ft approx for	8 ft. depth	lat. long.	29° -31.9° 94° -55.2°	The bottom in this vicinity is slightly irregular with depths ranging from 7 to 10 ft.
5 f ŧ	Spoil bank bare MHW	lat. long.	29° -31./* 94° -53.8	This small island is now covered 5 ft. MLW.
5#	l ft. depth spoil area	lat. long.	29° -31.9° 94° -53.45°	This spoil area is now covered 3 ft. MLW.
9 ft	17 ft.	lat. long.	29° -30.81 94° -53.31	This survey reveals depths of 8 ft. in this vicinity.

K. COMPARISON WITH CHART (CONT'D)

Charted Feat	ure		
α Depth		Position	Kemarks
24 ft.	lat.		The deepest sounding
depth	rong.	94 0 -53.01	obtained in this area was 15 ft.
6 ft. shoal	lat.	290 -31.4:	falls This shoal has shifted
6 ft. shoal (A) Presurve	y long	.94° -52.1:	approximately 200 meters
			southeast. (dredping area)
lsland	lat.	290 -30.4	This island is now cover=
unnamed	long.	29° -30.4° 94° -52.3°	ed at all stages of tide with the exception of 3 small iso=
		lated shell r	eefs, approx. 10 meters in di-
		ameter, that	are awash at MLW.
reef	lat.	29° -30.75° 94° -52.4°	This survey shows depths
awash	long.		of 6 ft. covering reef. (5ft on smooth sheet)
reef	lat.		This reef is no longer
awash		94° -51.31	in existence. Area now covered with depths of 8 to 12 ft. 6'approximation matters 55W on smooth sheet
reef	lat.	290 -30.91	This survey shows irregu-
awash	long.	94° -50.61	lar bottom in this area rang- ing from 7 to 26 ft. 81. 24' on smooth shoot
6 ft. shoal	lat.	290 -29.51	The charted 6 ft. shoal
(E) Presurvey	long.		with least depth of $4\frac{1}{2}$ ft. is shown on this survey as
210002 (0)		having broken	up with only 3 small isolated
•			g. These shoals have least
		depths of 6 f	t. and are approx. $\frac{1}{4}$ mile apart
		having depths	of 7 to 16 ft. separating them.
6 ft.	lat.	290 -29.1'	Chart shows least depth
shoal	long.	940 -49.61	of 4 ft this survey shows least depth of & ft.
6 ft. shoal	lat.	290 -28.21	Chart shows least depth
(E)	long.		of 3 ft. this survey shows
Presurvey	_	•	least depth of 5 ft.

Charted Fea		Position	Kemarks
Hanna	lat.	29° -29.81 94° -48.31 depths of	Chart shows northwest point of Hanna Keef bare at MHW in this position. Present survey shows 7 ft. at this position with no on of the reef extending this far
ke ef bare MHW	lat. long.	940 -49.1!	Chart shows small island and reef at this position. Present survey shows least depth of $6\frac{1}{2}$ ft. sland or reef in evidence.
keef bare MHW	lat. long.	29° -31.8! 94° -48.7!	Chart shows small island and reef. Present survey reveals shoal with least depth of 3 ft.
Reef bare MHW	lat. long.	94° -48.81 depth of	Chart shows small island and reef. Present survey shows this area covered at MLW with a least of ft., 2 ft. depths were obtained to the east.
$1\frac{1}{2}, 2, 3$ ft.			Chart shows numerous shoal depths of 15 to 3 feet in this

1\frac{1}{2},2,3 ft. East of Ship Chart shows numerous shoal depths of $1\frac{1}{2}$ to 3 feet in this vicinity. Present survey reveals irregular bottom in this vicinity due to shell dredging with depths ranging from 6 to 25 ft. The is olated 104 ft. hole at lat. 29° -32.0', long. 94° -50.7', is believed to have been caused by an oil well "blow out".

depth curve long. 94° -52.5! least depth 3½ ft., extending
(E)

Presurvey

position is shown on this survey as a 6 ft. shoal, detached from the general 6 ft. curve and having a least depth of 5 ft.

Preliminary Review Items

Item No. 8 --- The charted wreck at lat. 29° -30.87', long.

94° -56.68' was searched for by sweep methods(see section 0 of this report) with negative results. The privately maintained wreck buoy was located by this survey at position lat. 29° -31.03', long. 94° -56.95'. This position is 550 meters northwest of the charted position indicating either the original position was in error or the buoy has drifted off station. The wreck was searchedfor at both the present position of the buoy and the charted position. It is recommended the wreck symbol be deleted from the chart and removal of privately maintained buoy.

Preliminary Review Items (cont'd)

Item No. 35

These markers between Smith Point and Dollar Point were located hydrographically by this survey in their charted positions. They are single pile markers with a flashing red light.

The charted 6 ft. shoal with least depth of 5 ft. was found by this survey in its charted position with a least depth of 6 ft. Due to lack of close development on this shoal it is recommended the 5 ft. least depth be retained on the chart.

Item No. (dashed circles "A" & "E"

All pipes and markers shown on pre-survey chart in dashed circles, identified as "A" & "E", were designated on the boat sheet by the hydrographer as "Al" thru "A40" and "El" thru "E3". These items were searched for utilizing sweep methods and in all cases there were no obstructions found within 150 meters of the charted positions. It is recommended all these features be deleted from the chart.

A great number of positions, during sweep operations, were plotted on a mylar overlay in order to reduce conjection on the boat sheet. (Overlay not forwarded by Field Porty)

L. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supercede

prior surveys for charting purposes.

Even though this survey is complete and accurate, emphasis should be placed on the continual man made changes taking place on the northern portion of the survey. This area is undergoing constant, rather than frequent, change.

M. AIDS TO NAVIGATION

There are 12 fixed aids to navigation and 8 floating aids

maintained by the U.S. Coast Guard.

The 4 fixed aids privately maintained by Pan American Gas, shown on Chart 1282 and listed in the 1961 Light List, are still in existence and on station.

There was one privately maintained wreck buoy within the limits of this survey. See Preliminary Review Item No. 8 - section "K" of this report for information relative to this buoy.

The above mentioned aids adequately serve the purpose for which they were established.

Vessel	Number of Positions	Naut. Mi. SDG.
Launch CS-183 Skiff /58 Skiff No. 2	2771 1207 42 TOTALS 4020	401.2 161.2 0.0 562.4

Total area surveyed 33.0

A portable automatic tide gage, located at Eagle Point, furnished tide control for the survey. Data for reduction of soundings were taken directly from the station records without time or range corrections. See Appendix C, TIDAL NOTE, for additional information on this station.

additional information on this station.

The current station lat. 29° -30.0', long. 94° -52.2',
(see instructions Par. 31(12)), was not observed during this

survey.

O. MISCELLANEOUS

A modified sweep was used to search for submerged objects. This sweep was comprised of two trawl boards, identical to those used by shrimp trawlers, with a 120 ft. length of small chain (size 2-0, rod size 3/16") between them. These boards were bridled and towed behind the launch in such a manner as to bounce along the bottom. The chain between the boards was dragged along the bottom approximately 100 ft. behind the survey vessel. Upon striking or snagging an object the towing cables from the launch to the boards, which were normally 60 apart, would come together slowly allowing sufficient time for the coxswain to stop the launch. The sweep was then pulled aboard until the object which was snagged would be under the stern of the launch. A lead line then could be eased down the chain to obtain a sounding on the object.

A special report, giving specific information on construction of this sweep, will be submitted under separate cover.

Respectfully submitted, Ratur A. Lewis

Approved and forwarded, Steven L. Hollis, LCDK. Chief of Party

INDEX OF APPENDICIES

- A. LIST OF SIGNALS
- B. ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS
- C. TIDAL NOTE
- D. APPROVAL SHEET

NORFOLK RECORDS PROCESSING BRANCH LIST OF SIGNALS H-8695

TRIANGULATION STATIONS

```
SMITH POINT (USE), 1900-42
EAGLE POINT, 1932-50
MIT
EAG
JIM
        RED FISH BAR, INNER RANGE, REAR LIGHT, 1962
        RED FISH BAR, INNER RANGE, FRONT LIGHT, 1962
RED FISH BAR, OUTER RANGE, FRONT LIGHT, 1962
RED FISH BAR, OUTER RANGE, REAR LIGHT, 1962
BAT
CUT
PAD
        HOUSTON SHIP CHANNEL, LIGHT 43, 1962
EAR
GAM
                                  , LIGHT 44, 1962
FIN
                                 , PIPELINE MARKER, LIGHT 47, 1962
USE
                                  , PIPELINE MARKER, LIGHT 48, 1962
MAT
                                  , LIGHT 49, 1962
KEY
                    11
                                 , LIGHT 54, 1962
, LIGHT 53, 1962
                           11
GIN
BUM
                                  , LIGHT 59, 1962
                                   LIGHT 60, 1962
COP
WOO
        RED FISH BAR, LIGHT 2, 1962
HER
        HOUSTON SHIP CHANNEL, LIGHT 50, 1962
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PHOTO-HYDRO STATIONS SOURCE T-9800

GUL	DOG	ODD	SIC	ABE	HON	ORA	POL	OBI	JUT	SLY

SOURCE T-9797

DOC ION TRE

SOURCE T-9798

GAS

HYDROGRAPHIC STATIONS

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ARM Vol. 23, pg. 5

JOE Vol. 16, pg. 62; Vol. 13, pg. 63; Vol. 3, pg. 64

PIP Vol. 13, pg. 32 & 33

TUF Vol. 13, pg. 34 & 35

WEL Vol. 1, pg. 10
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FLOATING AIDS TO NAVIGATION H-8695

BUCY	LATITUDE	LONGITUDE	DEPTH	POS. NO.	DATE
HOUSTON SHIP CHAN.					
HOUSION SHIP CHAN.	•			•	
(2) Buoy 45 (1) Buoy 46 (4) Buoy 51 (5) Buoy 52 (7) Buoy 55 (6) Buoy 56 Buoy 57 (7) Buoy 58	29-27.50° 27.61 28.83 28.90 30.08 30.09 31.12 31.17	94-50.92' 50.85 51.58 51.49 52.36 52.19 53.14 53.04	14' 14 32 11 9 11 24 9	9a (gr) 34p(pur) 206b(red) 16f(red) 94k(red) 58g(red) 24b(gr) 112q(pur)	9-12-62 7-27-62 8- 2-62 8-10-62 8-16-62 8-13-62 9-13-62 7-30-62
PI	RIVATELY MA	INTAINED BU	OYS		
	29-27.14 27.35 27.35 27.35 27.15 27.36 29.34 30.29 30.29 31.80	50.50 50.64 51.56 49.64 49.43 47.98 47.63	10987555	13a(gr) 12a 11a 10a 5a 6a 3ea(pur) 57g 56g 18ea 21ea	9-12-62 do do do do do 7-12-62 do 9-12-62
	31.73 31666 32.02 31.97 31.74 29.08	47.77 47.90 50.72 51.43 51.80 52.22 52.78	55 98	20ea 22ea 53da 16b(gr) 17b 2ea(pur) 1ea	do do 9-11-62 9-13-62 do 9-12-62 9-12-62

APPENDIX B

ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

Launch CS-183

Day letter	kecorder No.	Fath. depth (ft.)	Corr.(ft.)
a,d,e,f,g, h,j	EDO 255C-#13	6.0 - 6.5 6.6 - 7.5 7.6 - 9.0	0.0 +0.2 0.0
b,c,	EDO 255C-13	6.0 - 11.5 11.6 - 16.0	-0.2 +0.2
k,1,m	EDO 255C-#11	6.0 - 1.0 $1.1 - 9.0$ $12.1 - 18.0$	0.0 +0.2 +0.4 +0.6
n, (p day to pos.	78) EDO 255G-#11	6.0 - 6.5 6.6 - 7.5 7.6 - 9.0 9.1 - 11.5 11.6 - 19.0 19.1 - 21.5 21.6 - 23.5 23.6 - 25.0 25.1 - 26.5 26.6 - 28.0 28.1 - 29.0 29.1 - 30.0 30.1 - deeper	0.0 +0.2 +0.4 +0.6 +0.8 +1.0 +1.2 +1.4 +1.6 +1.8 +2.0 +2.2 +2.4
(p day pos. /9 - end of day) q,r	EDO 255C-#13	6.0 - 7.5 7.6 - 10.5 10.6 - 14.0 14.1 - 18.0 18.1 - 21.0 21.1 - 24.0 24.0 - deeper	0.0 +0.2 +0.4 +0.6 +0.8 +1.0 +1.2
s,t,u,v,w,x	EDO 255C #13	5.0 - 10.0 10.1 - 13.0 13.1 - 14.0 14.1 - 16.0 16.1 - 19.0 19.1 - deeper	0.0 +0.2 +0.4 +0.6 +0.8 +1.0

APPENDIX B (CONT'D)

Skiff /58

Day letter	Recorder No.	Fath. depth (ft.)	Corr. (ft.)
a,b,c	808J #113S	0.0 to 20.0	+0.4
d,e	808J #113S	0.0 to 3.5 3.6 to 5.5 5.6 to 8.0 8.1 to 11.0 11.1 to 15.5 15.6 to 19.5 19.6 to 22.5 22.6 to deeper	0.0 +0.2 +0.4 +0.6 +0.8 +1.0 +1.2 +1.4
f,g,h,j	808J #113S	0.0 to 5.0 5.1 to /.5 /.6 to 12.0 12.1 to 15.5 15.6 to 20.5 20.6 to 24.0 24.1 to deeper	0.0 +0.2 +0.4 +0.6 +0.8 +1.0 +1.2
k,1	808J 57-34	0.0 to 4.4 4.45to 6.0 6.1 to 18.0 18.1 to 22.0 22.1 to 26.0 26.1 to deeper	0.0 +0.2 +0.4 +0.6 +0.8 +1.0

APPENDIX C

TIDAL NOTE

Hydrographic Survey H- (ECFP 12.5-1-62)

Gage Location:

Eagle Point, Galveston Bay,

Texas
Lat. 29° -29.8'
Long.94° -54.7'

Gage Type:

Portable Automatic

Staff:

Vitrified scale - no time or height corrections were applied to the results obtained from the gage in reducing soundings.

90th meridian time was used at this station.

APPENDIX D

APPROVAL SHEET TO ACCOMPANY

Hydrographic Sheet H---- (ECFP-12.5-1-62)

The records, corrections, and all field work was supervised by LCDR. Steven L. Hollis.
All office work was supervised by LCDR. Steven L. Hollis, Jr.
The report and records for this survey are complete and adequate to the best of my knowledge.

Approved and forwarded Steven L. Hollis, Jr. LCDR. C&GS Officer-in-Charge

NORFOLK HYDROGRAPHIC PROCESSING BRANCH ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8695 (ECFP 12.5-1-62)

GENERAL

The Northern and Eastern parts of this survey are constantly changing due to oyster shell dredging and oil well drilling operations. The bottom in this area is very irregular and more development would have been helpful for delineating the limits of the numerous small shoals found. Thesenshoals, as well as the many oil well structures, markers, piles, etc., are shown on a tracing paper overlay by the smooth plotter.

OVERLAYS

1

Numerous investigations were made with a chain sweep in an effort to locate submerged obstructions, all of which were smooth plotted on overlays numbers 1 through 7. During the course of most of these investigations the fathometer was run and soundings were recorded. Except for a few critical soundings and submerged obstructions, which are plainly noted on the overlays, none of this work was transferred to the smooth sheet as the launch was not able to hold course and maintain an even speed while towing the drag. Overlay no. 7 also shows positions 6 through 12a (pur). Soundings were not plotted as the line is obviously displaced.

Overlay no. 8 shows an enlargement of oil well structures falling in a congested area of the smooth sheet.

CHART COMPARISON

Due to extensive shell dredging the entire survey appears to be generally deeper than charted. Also, many of the charted islands, oyster reefs and spoils banks are no longer in existence.

Lat. 29-31.62' Long. 94-49.30! The 2 foot sounding at position 62q (pur) was not smooth plotted. Later hydrography on 2a day showed the shoal had been removed by shell dredgers.

Lat. 29-30.49' Long. 94-52.50 The obstruction found on 17ca (pur) is believed to be the same one located on 3lcal A sounding of 6 feet, as shown on the fathogram just before 3lca, was used. A shoaler sounding of $5\frac{1}{2}$ feet was recorded between 3l and 32ca, how-ever, it was too far away to relate to either position.

The shoreline at the North and South ends of Red Fish Island was transferred from T-9798 as it is in better agreement with hydrography than revisions shown in red on the boat sheet.

Norfolk, Va. Jan. 19, 1965

Respectfully submitted,

Hugh L. Proffitt Cartographer

)	GEOGRAPHIC NAMES Survey No. H-8695			Ac. OF	S HERE	de dio	Hac	2 Octide of	A PARTY AND A PART	N.S. Light	, st
	Name on Survey	Or A	cher.	C 40. Q	D D	or de live E	Or loca Mass	Q O G	Astro M	55. K	· /
4	Ezgle Point										1
4	Galveston Bay										
y	Galveston Bay Houston Ship Chan	3	70F	INK 1	H SVAL	CY DE					3
7	Red Fish Bar										4
	San Leon				-				:		
r	Tex 25										
74	Trinity River Chan	. ~ D	7 س ه	INK	N SUR	rey	ಡಿಬ] :
	April Fool Point				14	am	- -5	- 6.	red		
4	West Pass	519				6	- /	d - 6.	5		,
\checkmark	Smith Point	15256	8			a.	1 6	nais	IT		10
	Red Fish Island	519	DEW		.	. 0					1
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TIDE NOTE FOR HYDROGRAPHIC SHEET

October 11, 1966

Nautical Chart Division: R. H. Carstens

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET 8695

Locality: Galveston Bay, Texas

Chief of Party: S. L. Hollis - 1962

Plane of reference is mean low water

Tide Station Used (Form C&GS-681):

Eagle Point, Texas

Height of Mean High Water above Plane of Reference is as follows:

Eagle Point = 1.0 feet

Remarks

Chief, Tides and Currents Branch

USCOMM-DC 6680-P64

FORM C&GS-946 (REV. 3-1-64) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 5-94, 7-13)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS ... HYDROGRAPHIC SURVEY NO. 8695

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION		AMO	TNU		AMOUNT			
SMOOTH SHEET		ဗ ဂို	1	. 6 9	BOATS	SHEETS		1
DESCRIPTIVE RE	PORT		1	1 OVERLAYS		OVERLAYS		8
DESCRIPTION	DEPTH RECORDS	HORIZ. RECO		PRIN	TOUTS	OUTS TAPE ROLLS PUNCHED CARDS		ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES								
CAHIERS	2							
VOLUMES	23							
BOXES					•		·	

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES The following statistics will be submitted with the cartographer's report on the survey

	AMOUNTS				
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW		TQTALS
POSITIONS ON SHEET					4020
POSITIONS CHECKED		402		-	
POSITIONS REVISED		0			
DEPTH SOUNDINGS REVISED		·			
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0			
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED	,	0			
	TIME (MANHOURS)				
TOPOGRAPHIC DETAILS	•	0.5	40	40 hrs	
JUNCTIONS		1.5	48 hrs		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		32.0			
SPECIAL ADJUSTMENTS	•	16.0			
ALL OTHER WORK		166.0	111		
TOTALS		216.0	25	57	
PRE-VERIFICATION BY		BEGINNINGDATE		ENDING	DATE
VERIFICATION BY Lere sa Vane Ware		BEGINNING DATE		ENDING DATE,	
Farme B Rower		8-07-72		11- 10-72	

12/8/12

3+61.

U\$COMM-DC 6641-P64

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8695 FIELD NO.

Texas - Galveston Bay - Vicinity of Red Fish Bar

SURVEYED: July 3, 1962 through October 9, 1962

SCALE: 1:12,500 PROJECT NO.: OPR-428

SOUNDINGS: 808J and EDO Depth CONTROL: Visual fixes on

Recorders shore signals

ECFP12.5-1-62

Chief of Party	S. L. Hollis, Jr. R. A. Lewis

Protracted by	W. L. Jonns
Soundings plotted by	W. L. Jonns
Verified and inked by	T. A. Ware
Reviewed by	F. B. Powers

Inspected by	D. E. Westbrook

1. Description of the Area

This survey covers Red Fish Bar and a portion of Galveston Bay. A Federal Channel Project (Houston Ship Channel) extends through the survey from the northwest to the southeast. Red Fish Island, approximately 1½ mile long, is located on the west side of the channel, and is a distinctive feature. Several oyster shoals exist between Eagle Point and Red Fish Island and are important dangers.

The general bottom in this area was originally smooth and gently sloping but now it is broken by numerous irregularities caused by oil well construction and random shell dredging. On the northern border of the survey a depth of 104-ft. was obtained which was described by they hydrographer as an oil well "blowout!"

The bottom is composed primarily of mud and shell, and a few oyster reefs exist.

2. Control and Shoreline

The origin of the control is adequately covered in Part F of the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-9797 (1960-62), T-9800 (1960-62), T-9798 (1960-63), and T-12227 (1962). Minor pier revisions in red ink on the smooth sheet are from the hydrographic information.

3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves are adequately delineated. The zero depth curves could not be fully delineated because of the small range of tide and shallow foreshore.

Several dashed and brown curves were added to emphasize important bottom features.

C. The development of the bottom configuration and the investigation of least depths are considered adequate, except that a few additional lines should have been run to more completely define the depth curves in some of the more irregular bottom area.

4. Condition of the Survey

The sounding records, smooth plotting, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual.

5. Junctions

Adequate junctions were effected with H-8694 (1962) on the west, with H-8743 (1962-65) on the north, with H-8745 (1963-65) on the east and southeast, and with H-8693 (1962) on the southwest.

Differences of up to 4 feet in the junction between the present survey and H-8743 (1962-65) in the vicinity of Houston Ship Channel in lat. 29° 31.9', long. $94^{\circ}53.3'$ are believed to be caused by dredging and spoiling over the three-year period between surveys. The soundings in this area are a composite of the shoalest from each survey. The remainder of the junction is in very good agreement with the present survey.

6. Comparison with Prior Surveys

A. H-323 (1852) 1:20,000 H-324 (1852) 1:20,000 H-414 (1852-53) 1:20,000

These early surveys have been compared with and were superseded by the surveys discussed below. Further consideration is not deemed necessary in the present review.

B. H-5394 (1933-34) 1:20,000 H-5510 (1933) 1:20,000

A comparison between the present and prior surveys reveals changes in both the shoreline and bottom configuration. Most of the islands and reefs on the prior surveys are nonexistent on the present survey. Depths on the present survey are generally to 3 feet deeper than those on the prior surveys, except for the area northeast and east of Red Fish Island. In this area, the general depths are now from 1 to 8 feet deeper. Several dredged areas are 10 to 25 feet deeper on the present survey than on the prior work. In addition, Houston Ship Channel has been extensively dredged since the prior surveys and numerous oil and gas well platforms now exist in the area. These numerous bottom changes can be attributed to the construction of oil and gas well platforms, natural changes and dredging for sand and shell as well as for navigational channels.

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

7. Comparison with Chart 519 8th Ed., print date July 31, 1971 Chart 152-SC 9th Ed., print date April 15, 1972

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by partial application of information from the present survey boat sheet and smooth sheet before verification and review and from prior and subsequent information furnished by the Corps of Engineers. Only minor differences are noted between the present survey and charted depths. No oil or gas well structures are presently charted in the area covered by the present survey. However, these features were meticulously located by the field party. A general note on the chart alerts the mariner to the existence of these structures.

Attention is directed to the following:

- 1. The following items were charted on Chart 519 subsequent to the date of the present survey from sources indicated and should be retained on the chart:
 - a. A submerged wreck PA in lat. 29°29.2', long. 94°53.5' from information published in Notice to Mariners No. 45 of 1968.
 - b. A submerged wreck (3-ft. rep.) in lat. 29°29.23', long. 94°53.59' from information published in Notice to Mariners No. 28 and No. 36 of 1966.
 - c. A submerged wreck (2½-ft. rep.) in lat. 29°29.5', long. 94°53.7' from information published in Notice to Mariners No. 14 of 1966.
 - d. Two visible wrecks, one in lat. 29°29.68', long. 94° / 53.58' and the other in lat. 29°29.78', long. 94°54.0' from information published in Notice to Mariners No. 28 of 1966.
 - e. A visible wreck PA in lat. 29°29.82', long. 94°54.58' / from information published in Notice to Mariners No. 8 of 1965.
 - f. A pipe PA in lat. 29°31.77', long. 94°53.73' from information published in Local Notice to Mariners No. 4 of 1971.
 - g. A submerged wreck in lat. 29°30.75', long. 94°52.25' from information published in Notice to Mariners No. 14 of 1966.
 - h. A submerged wreck in lat. 29°30.2', long. 94°52.1' from information published in Notice to Mariners No. 46 of 1967.
 - i. A danger circle labeled Wreck PA in lat. 29°28.23', long. 94°51.18' from information published in Notice to Mariners No. 27 of 1968.
 - j. Several piles, platforms, and stakes along both sides of the Houston Ship Channel from Corps of Engineers Chart Letter No. 64 of 1965, Bp 65095 (1963), Bp 65106 (1963), Bp 66216 (1964), Pb 77517 (1969).

- k. Several soundings along the Houston Ship Channel from Corps of Engineers Bp 65095 (1963), Bp 65106 (1963), and Bp 77517 (1969).
- 2. A visible wreck PA on chart 152-SC in lat. 29°29.9', long. 94°48.45' was charted subsequent to the date of the present survey from information published in Notice to Mariners No. 8 of 1966.
- 3. A submerged pipe on Chart 519 in lat. 29°30.54', long. 94°52.53' was originally shown as a pile on H-5510 (1933). This feature was investigated and disproved and should be deleted from the chart.
- 4. The spoil areas located on Charts 152 and 519 within the limits of the present survey originate with Corps of Engineers Bp 47073 (1949), Bp 65095 (1963), and Bp 65106 (1963). These spoil areas should be retained on the chart.
- 5. The charted topography should be revised to agree with the topography on the present survey except the area surrounding San Leon. This area was charted from Bp 63092 (1962 photography) and Bp 69425 (1965 photography).
- 6. The subm. pipe on Chart 519 in lat. 29°30.79¹, long. 94°49.64¹ originates with H-5510 (1933). Although not specifically investigated on the present survey, the shoal in which the pipe was emplaced has been dredged away and it is believed that the pipe no longer exists. The subm. pipe should be deleted from the chart.
- 7. The snag on Chart 519 in lat. 29°30.50', long. 94°52.51' originates with the boat sheet of the present survey. This feature should be revised to a 6-ft. sounding Obstr as shown on the smooth sheet.

Except as noted above, the present survey is adequate to supersede the charted hydrography within the common area.

C. Controlling Bepths

The charted controlling depths for Houston Ship Channel and Trinity River Channel are based on Corps of Engineers Chart Letter No. 892 of 1971 and United States Power Squadrons Letter No. 1185 of 1970 subsequent to the present survey.

D. Aids to Navigation

Several aids to navigation have been established or relocated sebsequent to the date of the present survey.

The aids presently charted adequately mark the features intended.

8. Compliance with Instructions

This survey adequately complies with the Project Instructions.

9. Additional Field Work

This survey is considered to be an excellent basic survey and no additional field work is recommended.

Examined and Approved:

Chide

Marine Chart Division

Associate Director

Office of Marine Surveys and Maps

H-8695 (1962)

Items for Future Pre-Survey Reviews

The bottom is considered adequately developed on the present survey, except in a few instances. Only minor differences were noticed since the prior surveys. These differences are attributed to the construction of oil and gas well platforms, dredging, and natural changes.

Position index - lat. 292, long. 0945 Bottom change - 4 Use index - 9 Resurvey cycle - 10 yrs.

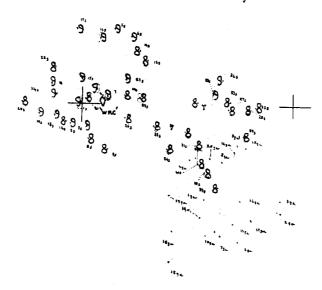
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Position index lat. 292, long. 0950 Bottom change - 4 Use index - 9 Resurvey cycle - 10 yrs.

Position index - lat. 293, long. 0950 Bottom change - 4 Use index - 9 Resurvey cycle - 10 yrs. 31'30"

Soundings not transfered to S.S.

31'



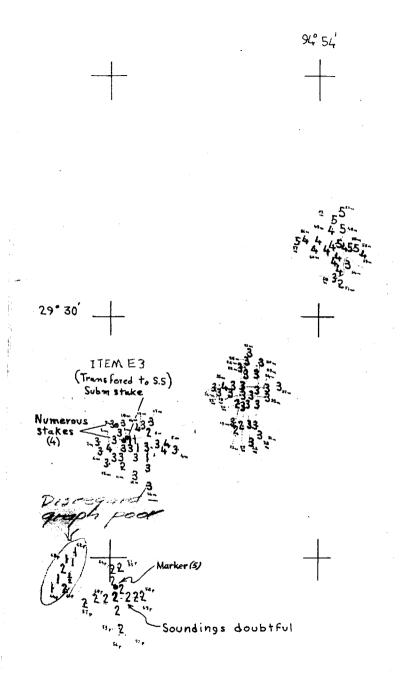
_**30**′ 30′

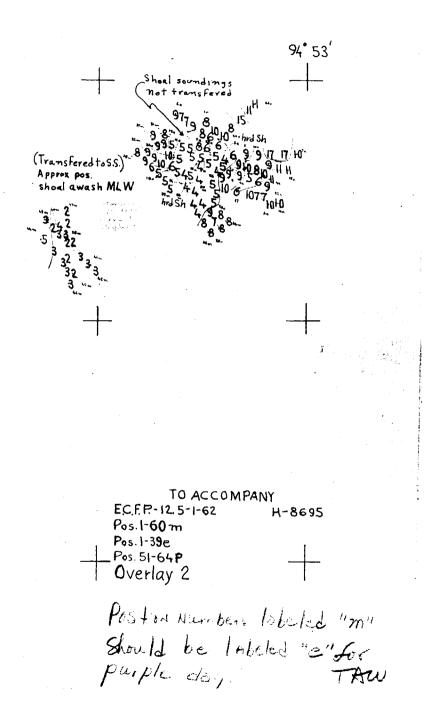
TO ACCOMPANY ECFP-12 5-1-62 H-8695

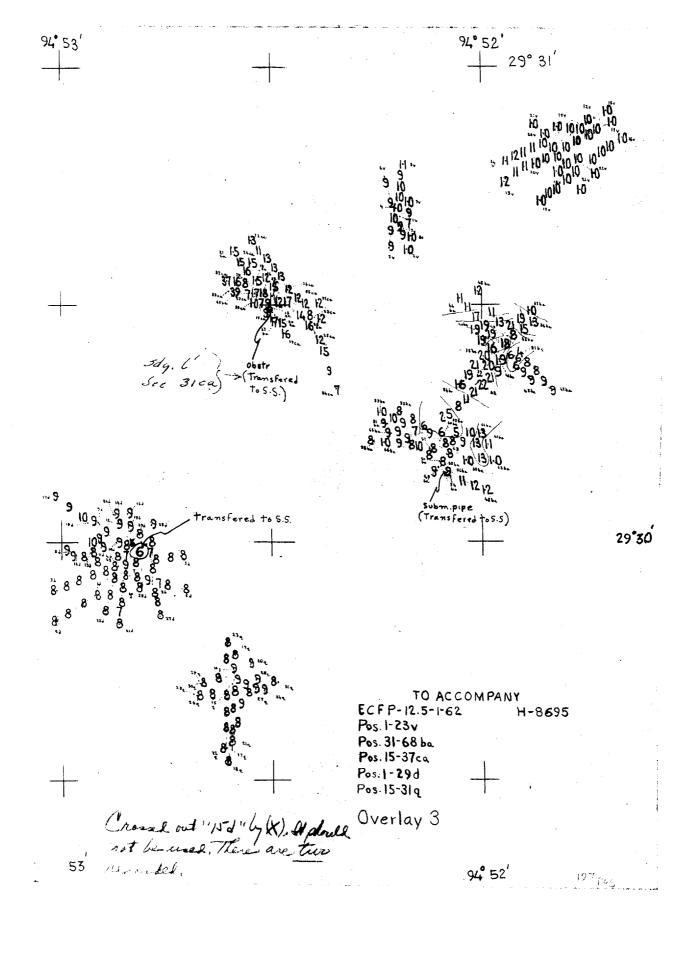
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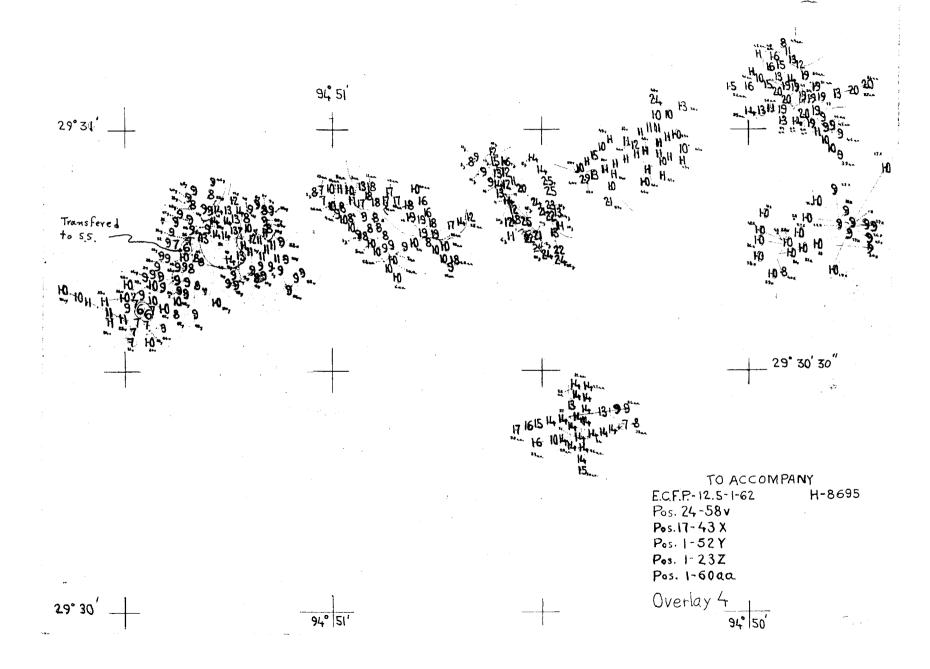
Pos. 1-20ga→No soundings, Presurvey item Nº 8, subm. wk.

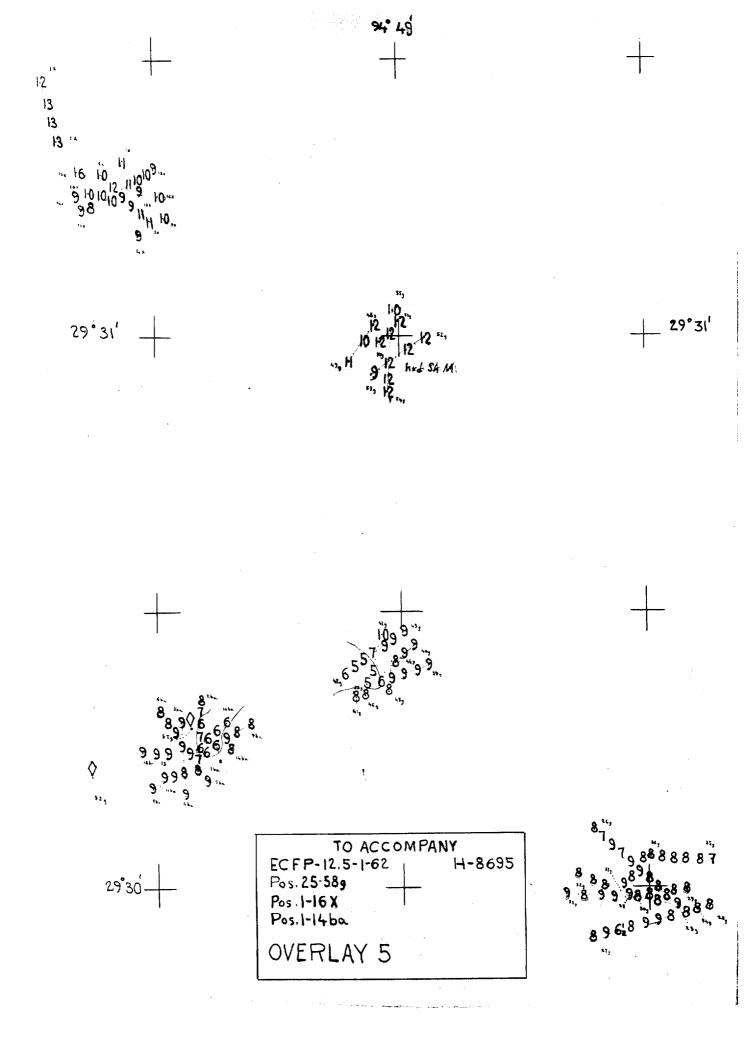
Overlay 1

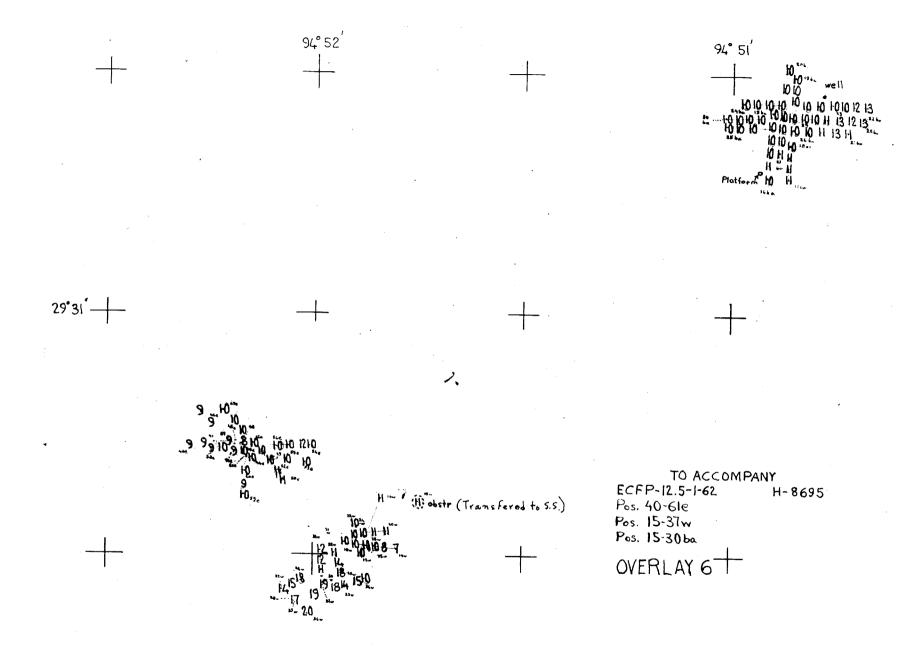


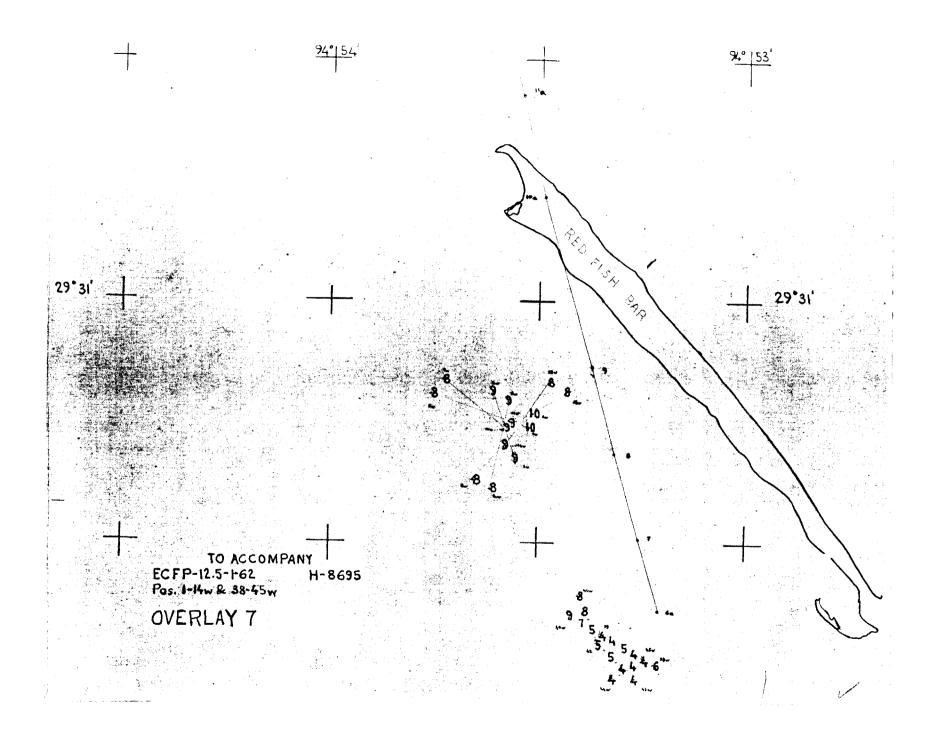


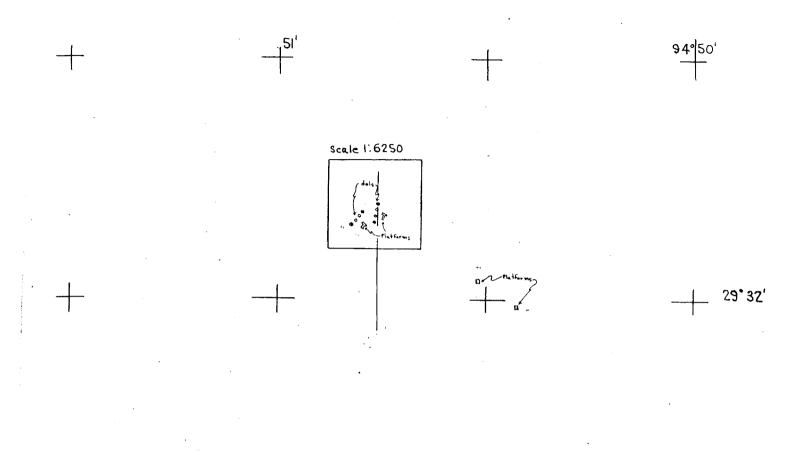






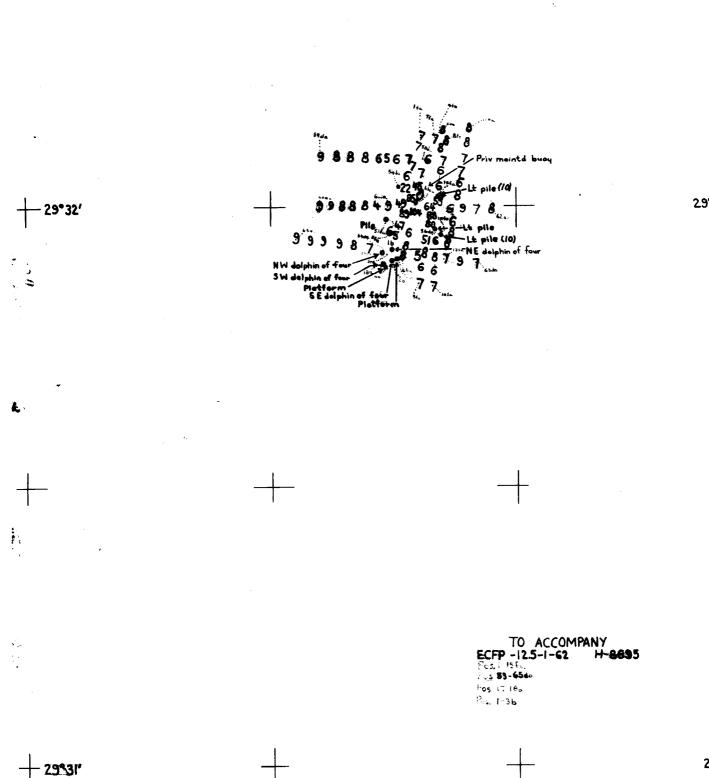






TO ACCOMPANY
ECFP-12.5-1-62 H-8695

OVERLAY 8 Detail



FORM	C&	GS-	83	52
(3-25-6	3)			

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

H-8695

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
519	3/24/65	Helen Lumber	Part Before A Verification Review Inspection Signed Via
/ 	101103	The decimal of	Drawing No.
	,	•	
82	6/16/65	Helmer	Part Before Verification Review Inspection Signed Via
-			Drawing No. Critical changes thru 519, Dung / fefore
			Part Before Mer Verification Review Inspection Signed Via
52-SC	8/10/65	L' Van Zont	
			Drawing No. applied thru Chr 519 Drug #1
186	5/1× /40	Aplue	Part Before Verification Review Inspection Signed Via
	774.75	4,500	Drawing No. applicational changes the 5789579
			Full B. Defere After Verification Review Inspection Signed Via
5/9	12/11/73	O. Williams	Drawing No.//
			Full Part Before After Verification Review Inspection Signed Via
282	2/27/74	O. william	Drawing No. NO hydro in area. (3-E)
52-50	3/26/24	W. Wanless	Full Post Before After Verification Review Inspection Signed Via
			Cht 519 Dwg #11
			Cht 5/9 Dwg # 11
			Full Part Before After Verification Review Inspection Signed Via
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