

10359

Diagram No. 1285-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

DESCRIPTIVE REPORT

Type of Survey .. Hydrographic

Field No. AHP-10-14-90

Registry No. H-10359

LOCALITY

State Texas

General Locality .. Aransas Bay

Sublocality Rockport to Trout Bayou

1990-91

CHIEF OF PARTY

..... LCDR V.D. Ross

LIBRARY & ARCHIVES

DATE March 23, 1993

10359

EC/G
PRODUCTS

11314 'A'

11313

CP5

11300-NC

HYDROGRAPHIC TITLE SHEET

H-10359

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

FIELD NO.

AHP-10-14-90

State Texas

General locality Aransas Bay

Locality Rockport to Trout Bayou

Scale 1:10,000 Date of survey Oct. 30, 1990 - Feb. 8, 1991

Instructions dated September 14, 1990 Project No. OPR-K229-AHP2

Vessel NOAA Launch 1292 and 517

Chief of party LCDR V. Dale Ross, NOAA

Surveyed by Brian Link, Michael Briscoe, Linda Grimsley, Guy Van Tassel

Soundings taken by echo sounder, hand lead, pole All

Graphic record scaled by Brian Link, Michael Briscoe, Linda Grimsley, Guy Van Tassel

Graphic record checked by Brian Link

Verification by: G.E. Kay Automated plot by PHS Xynetics Plotter

~~Plotting by~~

Evaluation by: G.E. Kay

~~Verification by~~

Soundings in ~~fathoms~~ ~~feet~~ ~~xxxxxx~~ ~~MLLW~~ ~~MLLW~~ Meters and decimeters at MLLW

REMARKS: Time in UTC. Revisions and marginal notes in black were generated
during office processing. All separates are filed with the hydrographic
data, as a result page numbering may be interrupted or non-sequential.

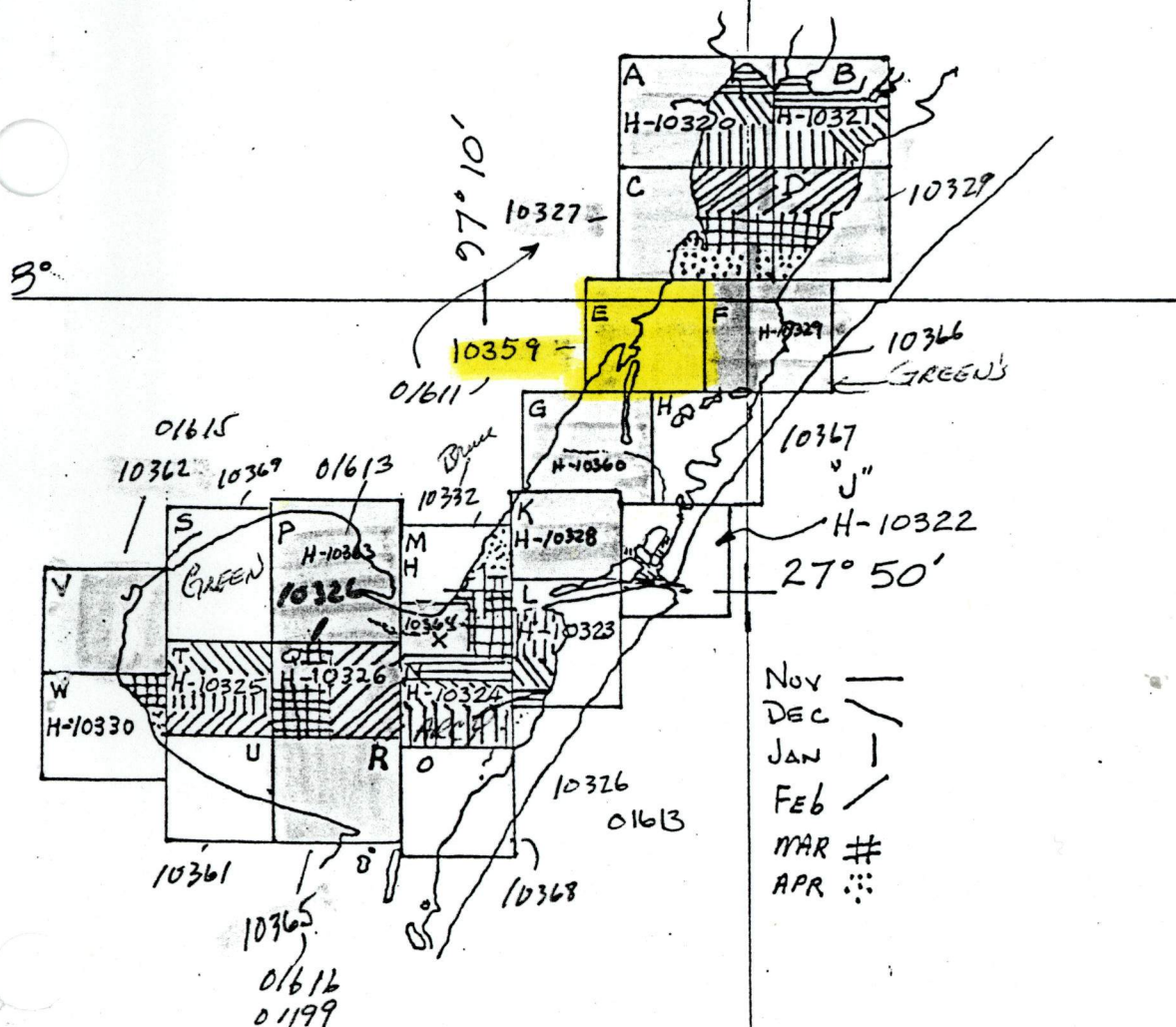
AWOIS/SURF 4/12/93 SD

SC 1-28-97
RWW 7/19/94

OPR-K229-AHP2-89
Corpus Christi
Texas

LEGEND

OCT	NOV	DEC	JAN	FEB	MAR	APR
0	13	13	21	21	27	8
0	309	712	674	495	528	176
0	258	422	527	326	342	183
0	129	259	350	293	248	183
0	88	177	455	107	190	290
6	0	0	0	0	0	0
18	0	0	0	5	4	0



DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY H-10359
Field No. AHP-10-14-90
OPR-K229-AHP2
Scale: 1:10,000
Atlantic Hydrographic Party Two
Chief of Party: LCDR. V.Dale Ross, NOAA
1990-91

A. PROJECT

This survey was conducted in accordance with Hydrographic Project Instructions OPR-K229-AHP2, Corpus Christi and Aransas Bays, Texas, dated September 14, 1990. ✓

The purpose of project OPR-K229-AHP2 is to provide contemporary hydrography for the maintenance of existing charts and to compile a new chart for the naval base at Ingleside, Texas. ✓

The sheet letter is "E" as specified by the project instructions. ✓

B. AREA SURVEYED

The area surveyed for H-10359 covers the western half of Aransas Bay from Rockport, Texas on the north to Mud Island on the south including the intra-coastal waterway running along the mainland of the Live Oak Peninsula. Survey limits are as follows: ✓

North - Latitude $28^{\circ}01'00''$ ^{10"}N (vicinity Rockport, Texas)
South - Latitude $27^{\circ}56'15''$ ^{30"}N (Mud Island) ✓
East - Longitude $097^{\circ}01'00'$ W (Center of Aransas Bay)
West - Longitude $097^{\circ}06'10''$ ^{30"}W (City by the Sea Canals)

This survey was conducted from October 30, 1990 (DN 303) to February 8, 1991 (DN 039). ✓

C. SURVEY VESSELS

NOAA launch 1292 (EDP No. 1292) and NOAA launch 0517 (EDP No. 0517), both 21-foot MonArks, were used to collect all data on this survey. No problems were encountered with either vessel. ✓

D. AUTOMATED DATA ACQUISITION AND PROCESSING

Hewlett-Packard HDAPS Programs:

<u>Program</u>	<u>Version</u>	<u>Date</u>
Survey	4.33	5/26/90
Survey	4.61	11/28/90
Constat	2.02	3/9/90
Constat	2.05	11/28/90
Postsur	4.14	7/20/90
Postsur	4.17	11/28/90
Printout	2.23	7/12/90
Baseline	1.01	6/15/90
Backup	1.02	3/9/90
Backup	1.03	11/28/90
Quick	1.01	7/27/90
Quick	1.04	11/28/90
Conplot	1.02	6/25/90
Diagnostic	2.50	3/9/90
Compute	2.02	3/9/90
Compute	2.03	11/28/90
Point	1.20	7/27/90
Install	1.31	11/28/90
Plotall	1.70	7/27/90
Plotall	1.77	11/28/90
Loadnew	1.00	7/27/90
Loadnew	1.22	11/28/90
Convert	2.34	6/20/90
Convert	2.36	11/28/90
Filesys	1.55	5/26/90
Filesys	1.72	11/28/90
Inverse	1.21	7/27/90
Abst	3.05	5/26/90
Listawois	1.10	11/20/90
Reject	1.00	11/20/90
Carto	1.00	10/26/90

PC-DAS program, NOAAEXE directory, Version 3.6 was used for on line data acquisition on the survey vessel. ✓

In addition to the HDAPS, the following non-HDAPS computer programs were used: ✓

VELOCITY (IBM PC)	Version 1.11 (3/9/90)
MTEN 3 with enhancements (IBM PC)	Version 6/88
Wordperfect	Version 5.1
Volkswriter Deluxe	Release 2.0

All on-line data was collected with the wrong transducer draft value entered in the offset table for launch 1292. All data was plotted on the final field sheet using the correct offset table values from the office HDAPS. ✓

E. SONAR EQUIPMENT

Not Applicable. ✓

F. SOUNDING EQUIPMENT

Raytheon DE-719CM Fathometer, serial number 8652, modified with Odom Hydrographic Systems, Inc. Digitrace, was used for the data collected with launch 0517, on days 303 and 304, the only days launch 0517 was used on this survey. An Innerspace depth sounder, model 448, serial number 188, was used for data collection for the remainder of the survey. No problems were encountered with either depth sounder. ✓

Depths on this survey ranged from 0-6.4 meters. ✓

G. CORRECTIONS TO SOUNDINGS

Weather permitting, lead line comparisons were conducted each day of hydrography to determine an instrument corrector. The average corrector for Fathometer S/N 8652 was zero. The average corrector for depth sounder S/N 188 was also zero. The lead line was measured for accuracy on 29 October 1990. No leadline corrections were necessary. A leadline comparison form, as well as the lead line calibration form, can be found in the "Separates to be Included With Survey Data". ✓

Survey records were scanned by AHP-2 employees in accordance with the hydrographic manual. With the digital reading taking precedence over the analog trace, significant peaks and deeps which occurred between selected soundings, missed depths, incorrectly digitized soundings, and effects of sea and swell action were inserted or corrected, as appropriate, while scanning. ✓

Both depth sounders were calibrated for a speed of sound through water of 1500 m/sec. Corrections for the speed of sound through water were computed from data obtained with Odom Hydrographic Systems, Inc. DIGIBAR electronic speed of sound probe serial number 155. Data quality assurance tests were performed prior to the casts. Program "Velocity" version 1.11 was used for the speed of sound corrections computations. ✓

The following casts were taken:

<u>Cast</u>	<u>Day</u>	<u>Depth (m)</u>
0	302	7.5
1	317	4.0
2	324	6.0
3	334	6.0
4	339	4.0
5	354	6.0
6	010	6.0
7	035	6.0
8	043	6.0

A zero speed of sound correction was obtained for depths averaging 4.8 meters or less. One tenth of one meter applies to average depths greater than 4.8 meters. No speed of sound correctors were applied on the final field sheet. Copies of the tables and support documentation are in the "Separates to be Included With Survey Data", *filed with the survey records.*

A static draft of 0.3 meters was applied to the final field sheet soundings through the office HDAPS offset table. This was measured from a punch mark on the side of launch 1292, 0.6 meters above the transducer, to the water surface, then subtracting the difference. As mentioned in section D, the value in the offset table used on-line was in error.

Settlement and squat measurements for vessel 1292 were performed on October 4, 1990 (day 277). The level method was used. Settlement and squat correctors were applied to all survey data. Data from the settlement and squat test are included in the "Separates to be Included With Survey Data", *filed with the survey records.*

The final field sheet was plotted using predicted tides determined from the Galveston, Texas permanent tide station using time and height correctors furnished with the Project Instructions.

Actual tide heights were requested from the Sea and Lake Levels Branch, N/OMA12, in a letter dated February 21, 1991. A copy of the letter is ~~included in the appendices of this report.~~ *filed with the survey records.*

H. CONTROL STATIONS

The horizontal control datum for this project is the North American Datum of 1983. Stations 108, 110, 113, 114, 120, 121, 124 and 126 were used to control this survey. A signal list ^{*is attached.*} ~~as well as a~~ copy of the PC-DAS Control Station Table is included in the appendices of this report, *is filed with the survey records.*

The Coastal Surveys Unit from Norfolk, Virginia used third order, class I traverse and intersection methods to establish horizontal control for this project. The horizontal control report was written and submitted by the Coastal Surveys Unit employees for OPR-K229-AHP2.

I. HYDROGRAPHIC POSITION CONTROL

Range/range and "see field sheet" positioning methods were used to control this survey. Multiple lines of position, up to four, using Motorola Falcon 484 Mini-Rangers, were used for the range/range method. The following Falcon Mini-Ranger equipment was used:

@ This data was automated by the field and are plotted on the smooth sheet in black ink.

<u>VESNO</u>	<u>Equipment</u>	<u>S/N</u>	<u>Code</u>
1292	RPU	E0154	
	RT	F3419	
	RT	E2932	
0517	RPU	F0241	
	RT	E2967	
	R/S	G3572	1
	R/S	F3180	2
	R/S	F3290	3
	R/S	E2977	4
	R/S	E2926	5
	R/S	C2059	6

Baseline calibrations of the Motorola Falcon 484 equipment were performed on October 3, 1990. The correctors were applied on-line through the Comflex "C-O" tables. Baseline calibration forms and the "C-O" tables are included in the "Separates to be Included With Survey Data", *filed with the survey records.*

When using three or four lines of position, a critical system check is continuously being obtained by observing the error circle radius (ecr) and residual (res) values on the Comflex screen on the survey vessels. When the error circle radius (ecr) is greater than 15m (1.5m at the survey scale) or the residuals are greater than 5m (.5m at the survey scale) for more than three to five minutes, survey operations are suspended in the area until the problem can be resolved. Any positions which had high error circle radii or residuals, in an otherwise good line, are smoothed during processing.

A closing baseline calibration was not performed since the survey was conducted in less than a six month period.

"See field sheet" positioning was used in the Palm Harbor, Bahia Bay and City-by-the-Sea canal developments. "See field sheet" positioning in the Cove Harbor development was approved by LCDR. Maureen Kenny, N/CG24, by telephone on 10 December 1990. *See previous Page Note*

J. SHORELINE

Shoreline shown on the final field sheet was transferred by hand from TP-01611 north of latitude 27°58'N. This shoreline manuscript was compiled on NAD 1983. South of latitude 27°58'N, the shoreline was transferred from TP-01198, which was compiled on NAD 1927. NAD 1983 corrections were made to the grid ticks on this manuscript for transferring the shoreline to the NAD 1983 grid on the final field sheet. ✓

The shoreline manuscripts were compiled at 1:20,000 scale. They were enlarged to 1:10,000 scale for use with this survey. ✓

Shoreline verification was accomplished by comparison of the main scheme hydrography which junctions at shore, or by visual inspections. Verified shoreline is shown in black ink on the final field sheet. ~~There were no shoreline changes identified by this survey~~ *and smooth sheet.* *and smooth sheet* ✓

Shoreline detail verified by this survey is shown in black ink on the final field sheet. Several shoreline detail changes were identified and are shown in red ink on the final field sheet. These ~~changes~~ *additions* are described as follows. *and smooth sheet* ✓

A pier shown on the manuscript, continues further offshore in ruins from latitude 28° 00' 43.5"N, longitude 97° 03' 05.8"W (PN 3539) to latitude 28° 00' 41.8"N, longitude 97° 03' 00.7"W (PN 3538). ✓

A pier shown on the manuscript, continues further offshore in ruins from latitude 28° 00' 37.2"N, longitude 97° 03' 09.1"W (PN 3543) to latitude 28° 00' 36.0"N, longitude 97° 03' 06.6"W (PN 3542). ✓

The offshore end of a pier not shown on the manuscript was located at latitude 28° 00' 26.6"N, longitude 97° 03' 13.5"W (PN 3547) extending into shore at 289° true. ✓

A pier shown on the manuscript, continues further offshore in ruins from latitude 28° 00' 20.0"N, longitude 97° 03' 22.8"W (PN 3552) to latitude 28° 00' 18.3"N, longitude 97° 03' 16.9"W (PN 3551). ✓

Pier ruins not shown on the manuscript were located at latitude 28° 00' 19.0"N, longitude 97° 03' 23.8"W (PN 3553) extending into shore at 215° true. ✓

The offshore end of pier ruins not shown on the manuscript were located at latitude $27^{\circ} 59' 46.5''$ N, longitude $97^{\circ} 03' 29.3''$ W (PN 3567) extending to shore through latitude $27^{\circ} 59' 47.8''$ N, longitude $97^{\circ} 03' 31.6''$ (PN 3568). ✓

The offshore end of a pier shown as ruins on the manuscript, was found intact at latitude $27^{\circ} 59' 43.6''$ N, longitude $97^{\circ} 03' 29.5''$ W (PN 3571). The orientation is correct as shown on the T-map. ✓

A pier on the manuscript, was found longer than shown at latitude $27^{\circ} 59' 39.7''$ N, longitude $97^{\circ} 03' 38.6''$ W (PN 3579). The orientation is correct as shown on the manuscript. ✓

The offshore end of a pier not shown on the manuscript was located at latitude $27^{\circ} 59' 39.4''$ N, longitude $97^{\circ} 03' 41.2''$ W (PN 3580). The pier extends into shore at 300° true. *CONCUR* ✓

The north end of a fence to keep weeds out of the Palm Harbor canal development, which extends from the southeast corner of the south bulkhead, and is not shown on the manuscript, was located at latitude $27^{\circ} 58' 02.2''$ N, longitude $97^{\circ} 05' 22.3''$ W (PN 356). *Chart dred as shown on South Sheet.* ✓

Field notes regarding the shoreline details were recorded directly on the graphic records. ✓

The railroad tracks shown on TP-01198 and 01611 running parallel to highway 35 have been removed from latitude $27^{\circ} 56' 30''$ N north to Rockport, Texas. None of the spur tracks shown in Rockport exist either. ✓

An obstruction shown on TP-01198 at latitude $27^{\circ} 57' 21.0''$ N, longitude $97^{\circ} 04' 58.8''$ W is a duck blind which could not be reached by the survey vessel because of shallow water. This should be charted based on the manuscript position. *CONCUR* ✓

K. CROSSLINES

A total of 39.9 linear nautical miles of crosslines were run on H-10359 which equals 15.8% of the main scheme hydrography. Crosslines agree with the main scheme to within 0.3 meters throughout the entire survey. ✓

L. JUNCTIONS *See Evaluation Report Section 5*

This survey junctions with H-10327 to the north, with H-10360 and H-10367 to the south, and with H-10366 to the east. These are all 1:10,000 scale contemporary surveys assigned to project OPR-K229. ✓

With Survey H-10327

The agreement to the north[^] is excellent, within 0.2 meter. The agreement to the south with H-10360 and with H-10367 shows disagreement of as much as 0.5 meter[@]. This is caused by differences between predicted and actual tide values. The survey was plotted with an average value of zero while the actual tide value on the day the junction area was run averaged -0.25 meter. The agreement to the east[^] is good, ranging from 0.2-0.4 meters. No problems were seen drawing a continuous depth curves in these junction areas.

@ With the application of Actual tides the differences are within 0.1 to 0.3 meter range.

M. COMPARISON WITH PRIOR SURVEYS *See Evaluation Report section 6*

This survey was compared with survey H-5693, a 1:20,000 scale hydrographic survey from 1935. A comparison was also made with prior ~~surveys~~ ^{shoreline maps} T-9179 and T-9296, both 1:20,000 scale shoreline maps from 1948 and 1946-48 respectively.

None of the sixty ~~eight~~ ^{-three Awaits} items addressed as part of this survey originated from the prior surveys.

The agreement between the present survey H-10359 and prior survey H-5693 is excellent. No more than 0.3-0.6 meter variance in depth between the two surveys was noted in the area east of Traylor Island and the Live Oak Peninsula. The only major change in this area is the existence of the two dredged channels seen on the current survey, which have also created spoil areas not seen on the prior survey.

In the area west of Traylor Island, seen on the prior survey as Taylor Island in 1935, major changes have occurred. These included the dredging of the intra-coastal waterway cutting through along the Live Oak Peninsula, and the construction of Cove Harbor, Palm Harbor, Bahia Bay, and City-by-the-Sea. The latter three are all residential canal developments west of the intra-coastal waterway. Cove Harbor is an industrial development. These changes are also the most prominent difference between the present survey and T-9179.

No major differences are seen when comparing the present survey, H-10359, with the prior survey, T-9296.

N. COMPARISON WITH THE CHART

This survey was compared to the 16th edition of chart 11314, dated January 20, 1990. An enlargement of the 15th edition was used for direct comparison with the final field sheet. No significant changes exist between the two editions, however, an exception concerning "navaids" is discussed in section P.

Three Awois
 Sixty-eight items from sources other than prior surveys, were addressed on this survey. These are discussed on item investigation report forms in the "Separates to be Included With Survey Data", *attached to this report.*

One danger to navigation was identified on this survey. A shoal was found at latitude 27° 56' 52.7"N, longitude 97° 03' 29.4"W, covering 1.4 meters at mean lower low water corrected for predicted tides. Divers found the obstruction to be a shell mound. A copy of the danger to navigation report is included in the "Separates to be Included With Survey Data". A dive investigation report on this shoal is in the "Separates to be Included With Survey Data", *filed with the Survey records.*

General sounding comparison results between the charted soundings and those found by survey H-10359, are the same as those discussed in section M of this report.

All isolated soundings charted in this survey area were developed with reduced line spacing. With the conversion to metric units, the following soundings no longer appear as isolated depths:

<u>CHARTED DEPTH</u>		<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>H-10359 DEPTH</u>	
	<u>Meters</u>				<u>Feet</u>
6 feet	1.8	27° 59' 59"N	97° 02' 39"W	2.8 - 3.2m	9.2-10.5
5 feet	1.5	28° 00' 09"N	97° 01' 57"W	2.6 meters	8.5
6 feet	1.8	27° 59' 46"N	97° 03' 18"W	2.1 meters	7.0
6 feet	1.8	27° 59' 15"N	97° 03' 14"W	2.5 meters	8.2
5 feet	1.5	27° 58' 20"N	97° 03' 27"W	2.3 meters	7.6
6 feet	1.8	27° 57' 36"N	97° 03' 30"W	2.6 - 2.8m	8.5-9.2
5 feet	1.5	27° 57' 23"N	97° 03' 12"W	2.2 - 2.6m	7.2-8.5

Two charted shoals were found which still appear as isolated depths with metric depth curves. They are:

<u>CHARTED DEPTH</u>		<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>H-10359 DEPTH</u>	
	<u>Meters</u>				<u>Feet</u>
6 feet	1.8	27° 57' 48"N	97° 03' 30"W	2.0 meters	6.6
6 feet	1.8	27° 57' 22"N	97° 03' 33"W	1.8 meters	5.9

The uncovered spoil bank charted from latitude 27° 58' 18"N, longitude 97° 03' 30"W southerly to latitude 27° 56' 30"N, longitude 97° 03' 40"W no longer uncovers. This area now has isolated shoal areas with depths ranging from 1.8m to 2.0m.

A submerged pipe charted at latitude 27° 58' 15"N, longitude 97° 03' 56"W, not assigned as an item, was investigated as part of item 5101. The pipe is recommended for deletion from the chart and is discussed on the item investigation report for item 5101. *CONCUR*
See Awois item 5101 item investigation report.

A pipe charted at latitude 27° 56' 50"N, longitude 97° 03' 54"W, not assigned as an item, was located by detached position number 5312 at latitude 27° 56' 51.2"N, longitude 97° 03' 55.0"W. The pipe bares 0.8m at mean ^{high} ~~lower~~ low water using ~~predicted~~ ^{Actual} tides.
Chart MHW pipe 0.8

All other charted features were assigned and addressed as AWOIS items. The investigation results are on item investigation forms in the "Separates to be Included With Survey Data". ✓

~~Twelve~~ ^{ELEVEN} oil or gas well platforms, averaging approximately 10 meters wide by 30 meters long were located and are recommended for *CONCUR* charting at:

PN 3613>	latitude 27° 58' 27.2" N, longitude 097° 02' 34.5" W
PN 3614>	latitude 27° 58' 35.9" N, longitude 097° 02' 34.3" W
PN 3619>	latitude 27° 58' 44.0" N, longitude 097° 02' 38.4" W
PN 3620>	latitude 27° 58' 42.1" N, longitude 097° 02' 09.5" W
PN 3621>	latitude 27° 59' 01.3" N, longitude 097° 02' 05.0" W
PN 3622>	latitude 27° 58' 56.4" N, longitude 097° 01' 46.8" W <i>-pipe</i>
PN 3623>	latitude 27° 58' 57.8" N, longitude 097° 01' 45.2" W
PN 3624>	latitude 27° 59' 37.0" N, longitude 097° 01' 41.6" W
PN 5421>	latitude 28° 01' 02.0" N, longitude 097° 01' 08.0" W
PN 5426>	latitude 28° 00' 42.3" N, longitude 097° 01' 49.5" W
PN 5427>	latitude 27° 59' 19.4" N, longitude 097° 02' 47.6" W
PN 5428>	latitude 28° 01' 02.0" N, longitude 097° 02' 09.6" W

These platforms were not reported as dangers to navigation because of the charted magenta note which warns of obstructions, wells and pipelines. ✓

O. ADEQUACY OF SURVEY

This survey is a complete basic hydrographic survey and is adequate to supersede all prior surveys within the common area. *CONCUR*

P. AIDS TO NAVIGATION *See Evaluation Report section 7.C.*

All fixed and floating aids to navigation were located by detached position. Aransas - Corpus Christi Bay Cut Off Channel Light 13, USCG Light list number 35815, a four pile platform type structure, was replaced by a single pile structure on 20 December 1990. The former light, which had a third order, class I position, and the structure were completely removed. This information was obtained by telephone conversation with Chief Hernandez of the Corpus Christi Aids to Navigation Team at 1-512-888-3175. The old position was latitude 27° 58' 04.172"N, 97° 05' 17.395"W. The new ✓

location obtained by detached position is latitude 27° 58' 04.3"N, longitude 97° 05' 17.5"W. All of the lights in the survey area are single pile structures, subject to frequent destruction by barge traffic. For this reason, no third order positions were obtained on the fixed aids to navigation. There is no NOAA form 76-40 included as part of this survey. ✓

A comparison was made between the surveyed position and the charted position for all fixed and floating aids to navigation. All aids were found serving the purpose for which they were established. With the exceptions listed above and in the table which follows, all fixed and floating aids were found within 25m of the charted location. ✓

The following table list the discrepancies found with the distance and direction from the charted location shown: ✓

<u>NAVAID</u>	<u>DISTANCE/DIRECTION</u>				<u>LL NUMBER</u>
				<i>Position No.</i>	
CC-AB Cut Off Channel DBN "19"	90m	/	SW	337	35840
Texaco Pipeline Crossing Light "B"	80m	/	SW	3599	36110
Aransas Bay Alt. Route Light "61"	50m	/	SSW	3602	36135
CC-AB Cut Off Channel Buoy "22"	125m	/	SW	323	35855
CC-AB Cut Off Channel Buoy "10"	80m	/	WSW	374	35800
CC-AB Cut Off Channel Buoy "11"	60m	/	W	373	35805
Aransas Bay Alt. Route Buoy "56"	50m	/	NE	3598	36115
Aransas Bay Buoy "47"	90m	/	NE	3592	35745

Position and descriptions for all aids to navigation are entered on the graphic records for this survey. *See Evaluation Report for positions of aids.*

Numerous pipelines exist in the survey area, however only two were evident. These are marked by pipeline crossing signs on either side of the Aransas Bay Channel and the Aransas Bay Alternate Route Channel. Other pipelines lead away from the numerous gas platforms listed in section N. No recommendation is made to chart the pipelines. Per a telephone conversation with Mr. James Dailey in the Mapping and Charting Branch (N/CG2222) the current NOAA policy regarding charting of the pipelines in this survey area is to let the magenta note warning of obstructions, wells, and pipelines suffice. ✓

There are no bridges, overhead cables, submarine cables, nor ferry routes within the limits of this survey. ✓

Q. STATISTICS

Description

Total Positions	⁴⁹ 3750
Detached Positions	161
Duplicate Positions	12
Total Miles of Hydrography	342.5
Sq. Nautical Miles of Hydrography	13
Bottom Samples	47
Total Miles of Bottom Drag	66.1
Velocity Casts	8
Tide Stations	1
Days of Production	24

R. MISCELLANEOUS

No anomalous currents were observed in the survey area. ✓

Bottom samples were taken and submitted to the Smithsonian Institution as directed in Section 6.7 of the project instructions. Bottom sample positions were plotted on the overlay with the other detached positions. The bottom samples were listed on the Oceanographic Log Sheet - M, NOAA form 75-44, and may be found in the Separates Following Text, *filed with the survey records.* ✓

Geographic positions for all detached positions are shown on the listing of the HDAPS cartographic tables used to compile the final field sheet. These tables are included in the "Separates To Be Included With Survey Data". Separate tables were compiled to label the final field sheet, and may be useful to the verifier as a source of position descriptions. These are also included in "Separates To Be Included With Survey Data", *filed with the survey records.* ✓

S. RECOMMENDATIONS

Not Applicable. ✓

T. REFERRAL TO REPORTS

<u>Title</u>	<u>Transmittal Information</u>
Descriptive Report for H-10327	Pacific Hydrographic Section (N/CG245) Seattle, Washington
Descriptive Report for H-10366	Pacific Hydrographic Section (N/CG245) Seattle, Washington
Descriptive Report for H-10367	Pacific Hydrographic Section (N/CG245) Seattle, Washington
Descriptive Report for H-10360	Pacific Hydrographic Section (N/CG245) Seattle, Washington
<i>Geodetic Control Report for CM-8716</i> Horizontal Control Report for OPR-K229-AHP2 <i>Geodetic Control Survey Job-HC-9901</i> Chart Sales Agent Report for OPR-K229-AHP2	Field Photogrammetry Section Norfolk, VA (N/CG233) Chart Distribution Branch (N/CG33) Rockville, MD.
User Evaluation Report OPR-K229-AHP2	Atlantic Hydrographic Section (N/CG244) Norfolk, Va.
Chart Inspection Report OPR-K229-AHP2	Atlantic Hydrographic Section (N/CG244) Norfolk, Va.
Coast Pilot Report	Coast Pilot Section Mapping and Charting Branch (N/CG22) Rockville, MD

Submitted by: Brian A. Link, Launch Hydrographer in Charge

Station Number ?								
No	T	C	Carto	Latitude	Longitude	H	Freq	Vel Date
108	F		250	28: 0:49.662	96:58:12.654	0	0.0	0 10/10/90
110	F		250	27:59:23.706	96:58:52.815	0	0.0	0 10/10/90
113	F		250	28: 1:49.582	97: 2:24.587	0	0.0	0 10/10/90
114	F		250	28: 1:27.412	97: 1:14.362	0	0.0	0 10/10/90
120	F		250	27:53:27.057	97: 6:40.209	0	0.0	0 10/10/90
121	F		250	27:55:28.634	97: 7:27.771	0	0.0	0 10/10/90
124	F		250	27:57: 7.493	97: 4:21.062	0	0.0	0 10/10/90
126	F		250	27:51:50.992	97: 3:22.978	0	0.0	0 10/10/90

<u>Station No.</u>	<u>Station Name</u>
108	SAS 1989
110	Allyn 1989
113	Little Bay Tower 1990
114	Nine Mile Pt. Lt. 2 1990
120	Draw 1989
121	Sam 1989
124	Traylor 1989
126	Aransas Pass Lighthouse 1989



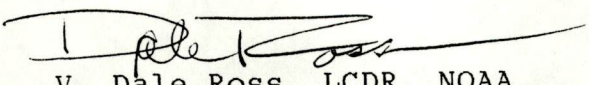
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE

Atlantic Hydrographic Party 2
439 W. York St.
Norfolk, VA 23510-1114

February 21, 1991

To: Commander, 8th U.S. Coast Guard District
Hale Boggs Federal Building
500 Camp Street
New Orleans, LA 70130-3396

**ADVANCE
INFORMATION**

From: 
V. Dale Ross, LCDR., NOAA
Chief, Atlantic Hydrographic Party 2

Subject: Danger to Navigation Notice for inclusion in the Local
Notice to Mariners.

While conducting a basic hydrographic survey of Aransas Bay for nautical charting, survey H-10359, an uncharted shoal was found northeast of Aransas Bay Alternate Route Channel Buoy "67". This shoal was inspected by divers, and found to be a small shell mound, located at latitude 27° 56' 52.7"N, longitude 97° 03' 29.2"W. A least depth of 1.4 meters was obtained by lead line on the shoal.

This shoal was located by four lines of position from Motorola Falcon Mini-Ranger electronic positioning system units set up on third order, class 1, ground control stations. The depth on the shoal was corrected for predicted tides. The position of the shoal is North American Datum of 1983.

Attached is a copy of the survey in the area of buoy "67" as well as a copy of the affected section of chart 11314.

Questions regarding this letter can be directed to me at telephone (804)441-6746.

cc: N/CG241
N/CG221
N/CG2441

THIS IS ADVANCE FIELD INFORMATION
SUBJECT TO OFFICE VERIFICATION



LAT 27:57:00

LON 97:04:30

09 3104.0
07 3103.0 3076 3075.0 3074.0

Section from Hydrographic Survey
H-10359
1:10,000 Scale
Aransas Bay
Rockport, Texas to Trout Bayou

ADVANCE
INFORMATION

NORTH --->

LON 97:04:00

ADVANCE
INFORMATION

LON 97:03:30

Shoal with 1.4m Least Depth

THIS IS ADVANCE FIELD INFORMATION
SUBJECT TO OFFICE VERIFICATION

LON 97:03:00

Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

Intracoastal Waterway aids are characterized by a yellow strip. Proceeding from Carabelle, Fla. to Brownsville, Tex.:

1. Aids with red reflectors are on the starboard side; green reflectors are on the port side.

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

Additional uncharted submarine oil and gas pipelines and submarine cables may exist within the area of this chart. Mariners should use caution when anchoring, dragging or trawling.

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

The Waterway is indicated by a magenta line. Mileage distances shown along waterway are in Statute Miles, based on zero at Harvey Lock, La. and are indicated thus: —●—

Section from Chart 11314
16th Ed., Jan. 20/90
1:40,000 Scale

Shoal with 1.4m Least Depth

**ADVANCE
INFORMATION**

THIS IS ADVANCE FIELD INFORMATION
SUBJECT TO OFFICE VERIFICATION

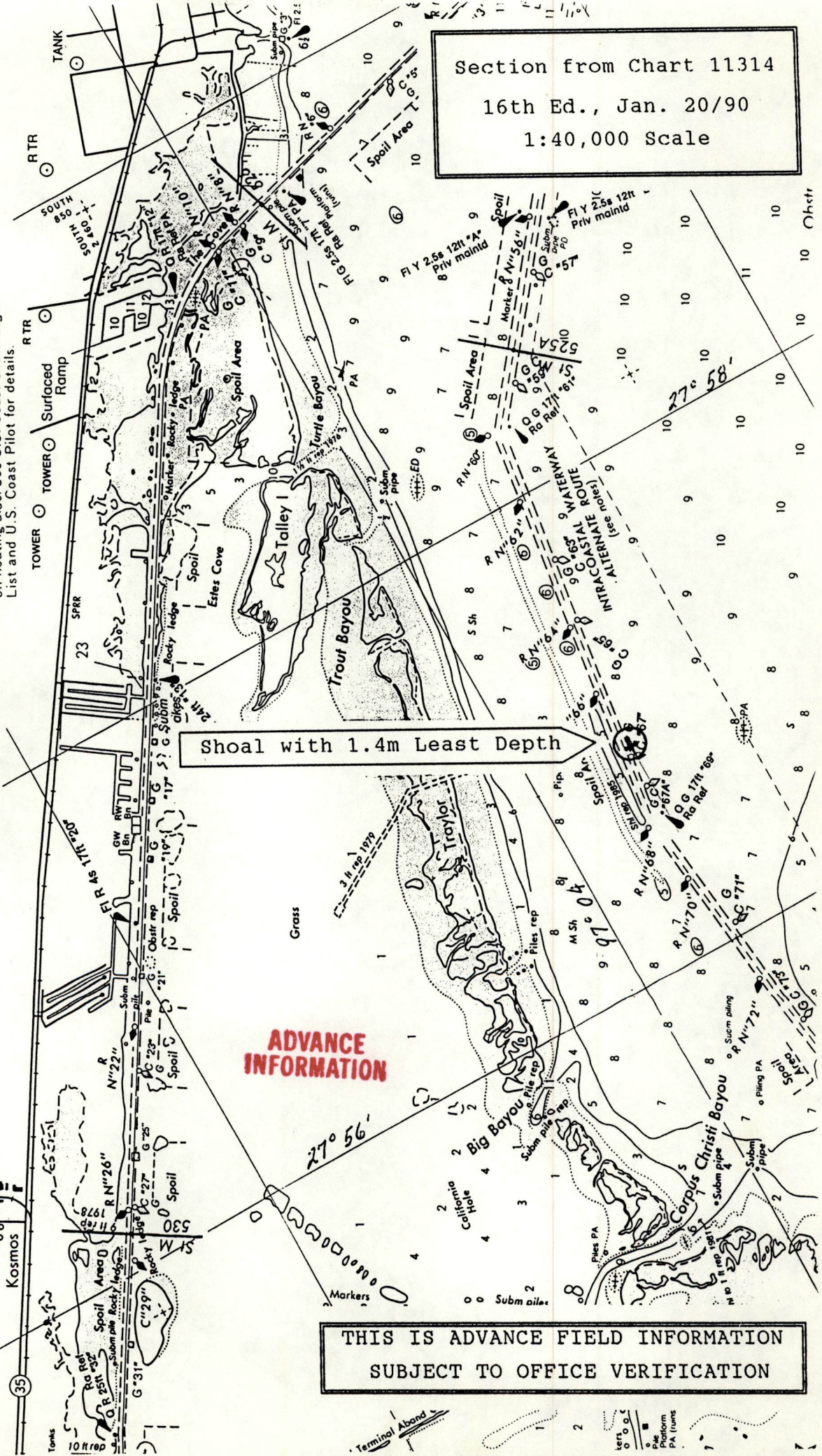


CHART 11314

PRE-SURVEY REVIEW ITEM #5077
SUBM WRECK *PA*

SOURCE: LNM33/84--8TH CGD

INVEST. DATE: 12/13/90 (347) TIME: 1448-1917Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4568-4729

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE

LONGITUDE

CHARTED:

27° 56' 43.⁰⁷~~1~~"N

97° 03' 0^{0.96}~~1~~.0"W

OBSERVED:

- Nothing found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini-Ranger

METHOD OF ITEM INVESTIGATION: A bottom drag covering the area required by the AWOIS listing^② was run at no greater than 10 meter line spacing. No snags were found in the entire area.

② 200 Meters Radius Required.

CHARTING RECOMMENDATIONS: Delete wreck from chart 11314. *Concur*
CHART AREA AS SHOWN ON SMOOTH SHEET.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5078
Shoaling Rep 1985

SOURCE: CL1184/85--USPS

INVEST. DATE: 12/20/90 (DN 354) TIME: 1555-1635Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4938-4976

CORRECTORS APPLIED: ^{Actual}~~Predicted~~ Tides, TRA

GEODETIC POSITION:

LATITUDE

LONGITUDE

CHARTED:

27° 56' 43.⁰⁷~~10~~"N

97° 03' ^{39.96}~~40.00~~"W

OBSERVED:

- See Method of Investigation -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini-Rangers

METHOD OF ITEM INVESTIGATION: The area with reported shoaling on the west side of the Aransas Bay Alternate Route Channel was developed with lines of hydrography at no greater than 50m line spacing. The uncovers area running parallel to the channel no longer exists. Several isolated shoals are now evident in this area with depths from ^{1.8m}~~1.8m~~ to 2.0m ^{0.9}~~1.8m~~. *Chart area as shown on the Smooth Sheet.*
at MLLW

CHARTING RECOMMENDATIONS: Chart representative soundings from survey H-10359 in this area. Remove the Shoal Rep 1985 note. *Concur*
Chart area as shown on Smooth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5079
PILE

SOURCE:BP-57662--9/58

INVEST. DATE: 1/16/91 (DN 016) TIME: 1654Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE:H-10359 (OPR-K229-AHP)

POSITION: 325

CORRECTORS APPLIED:

VELOCITY: No

TRA CORRECTORS: No

PREDICTED TIDES: No

GEODETTIC POSITION:

LATITUDE

LONGITUDE

CHARTED:

27° 56' 50.⁵¹~~8~~"

97° 06' 13.⁴⁶~~5~~"

OBSERVED:

27° 56' 50.4"

97° 06' 13.7"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini-Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken offshore of a 0.15m diameter pile which is onshore rising 1 meter above ground.
pile located outside of survey area.

CHARTING RECOMMENDATIONS: Delete pile from chart. *Concur*
Chart AREA AS SHOWN ON SMOOTH SHEET.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5080
Vis. PILE

SOURCE: CL1009/79--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 1731Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 328

CORRECTORS APPLIED: None

GEODETIC POSITION:

LATITUDE

LONGITUDE

CHARTED:

27° 56' 57^{.57}_{.6}"

97° 06' 02^{.46}_{.5}"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini-Rangers

METHOD OF ITEM INVESTIGATION: A visual search was conducted in depths less than 0.5 m with good bottom visibility. Position 328, latitude 27°56'57.7"N, longitude 97°06'02.7"W, was taken near the center of the area searched. The water was too shallow to search east of a north/south line from this position. ✓

Search radius 50 meters, requirement Met.

CHARTING RECOMMENDATIONS: Delete the pile from chart 11314. *Concur*
Chart area as shown on Synthesis Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5081
OBSTRUCTION (OLD BULKHEAD) *Mostly Submerged*

SOURCE: CL1815/72--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 1800Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 333

CORRECTORS APPLIED: *Actual* ~~Predicted~~ Tides

GEODETIC POSITION:	LATITUDE	LONGITUDE
CHARTED:	27° 57' 01. ^{.01} 1 "	97° 05' 57. ^{56.8} 0"
OBSERVED:	27° 57' 07.7"	97° 05' 52.12"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini-Rangers

METHOD OF ITEM INVESTIGATION: The bulkhead described by this item was seen in water too shallow to reach with the survey launch. Using the bearing and distance function of the Comflex system, a detached position was taken on the item. The obstruction is a 3 meter long piece of sheet steel standing vertically, extending southward from a small spoil islet. The metal obstruction bares ^{0.8}~~1~~ meter *at MHW*

CHARTING RECOMMENDATIONS: Chart an obstruction at the above observed position and delete the one charted as reported. *Concur*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5082
3FT REP 1979

SOURCE: CL1009/79--USPS

INVEST. DATE: 1/10/91 (DN 010) TIME: 1844-2024Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 5256-5309

CORRECTORS APPLIED: ^{Actual}~~Predicted~~ Tides, TRA

GEODETIC POSITION:	LATITUDE	LONGITUDE
CHARTED:	27° 57' 01" ^{.07"} 1"	97° 04' 40" ^{0.8"} 10.0"
OBSERVED:	-See method of investigation-	

POSITION DETERMINED BY: Multiple LOP, Falcon Mini-Rangers

METHOD OF ITEM INVESTIGATION: A centerline and zig-zag pattern of the channel referenced by this item was run. The mouth of the bayou was also developed at no greater than 50 meter line spacing. This channel, which was apparently dredged years ago to access a gas platform which no longer exists, is very narrow and poorly marked. A centerline depth ranging from ^{1.0m}~~1.0m~~ at the terminus of the channel to 2.5m at the mouth was found.

CHARTING RECOMMENDATIONS: ^{delete} Replace the notation "3 ft ~~Rep~~ 1979" with ^{add} the notation "1.0 meter 1991". ^{2 feet} ~~CONCUR~~ See Evaluation Report section 7C.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5084
SUBM PILE

SOURCE: CL1592/76USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 1742-1745Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 330-331

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES: Yes

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 57' 04.⁰¹1"

97° 06' ^{03.9"}~~04.0~~"

OBSERVED: PN 330>
PN 331>

27° 57' 04.5"
27° 57' 03.7"

97° 06' 02.8"
97° 06' 03.4"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: Detached positions were taken on dolphins at the offshore ends of short jetties on both the north and south sides of the entrance to the City-by-the-Sea canal development. This construction occurred after 1958 according to local knowledge and most likely would have removed this item pile. The positions of the jetties falls eastward of the item position which also supports the hydrographers opinion that new construction would have eliminated the pile.

CHARTING RECOMMENDATIONS: Chart the jetties ^{and dolphins} located at the above observed positions. Delete the submerged pile. *Concur*
Chart area as shown on Smith Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5085
PILE

SOURCE: CL1695/73--USPS

INVEST. DATE: 1/10/91 (DN 016) TIME: 1751Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 332

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 57' 06.^{.57}~~6~~"

97° 06' 02.^{.46}~~8~~"

OBSERVED:

27° 57' 07.0"

97° 06' 01.6"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on a two pile cluster, each 0.15 meters in diameter and baring ^{2.8} meters. These piles are standing against the concrete bulkhead which exists in this area and are not a chartable feature.

CHARTING RECOMMENDATIONS: Delete the pile from chart 11314. *Concur*
Chart area as shown on J1700A Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5088
PILE

SOURCE: BP-57662--9/58 COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 1816Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 336

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 57' 23.^{07"}~~1~~"

97° 05' 50.^{46"}5"

OBSERVED:

-see method of investigation-

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken 30 meters south of the charted location of this item, position 336, latitude 27°57'22.1"N, longitude 97°05'50.5"W. Area where this item pile is charted is uncovered. No evidence of any piles exist in this area.

CHARTING RECOMMENDATIONS: Delete pile from chart. *Cancel*
Chart area as shown on South Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5089
PILE

SOURCE: BP-57662--9/58, COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 1907Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 351

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 57' 41.^{.07}~~1~~"

97° 05' 3^{7.8}~~8~~.0"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken 20 meters south southeast of the charted location of this item, position 351, latitude 27°57'40.5"N, longitude 97°05'37.6"W. This would put the item pile well up on shore as charted. There was no evidence of any piles along the concrete bulkhead in this area.

CHARTING RECOMMENDATIONS: Delete the pile from chart 11314. *Concur*
Chart area is shown on Smooth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5090
PILE

SOURCE: BP-57662--9/58, COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 1919Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 352

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 57' 49.⁵⁷₆"

97° 05' 31.⁴⁶₆"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken along the concrete bulkhead in this area at position 352, latitude 27°57'49.4"N, 97°05'31.2"W. This is 20 meters eastward of the item pile which is charted on shore. No piles exist along the bulkhead in this area.

CHARTING RECOMMENDATIONS: Delete the pile from chart 11314. *Cancel chart area as shown on depth sheet.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5091
5 STAKES

SOURCE: CL1437/84--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 1929Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 354 ✓

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 57' 58.^{.07}"

97° 05' ^{19.96}
~~20.0~~"

OBSERVED:

27° 57' 58.6"

97° 05' 21.3"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken in the area of numerous stakes, all 4cm PVC with one 10cm wood stake 10m east of the observed position. These stakes are all on an uncovers area or in water less than 0.3 meters deep, making it impossible to reach the stakes with the survey vessel.

CHARTING RECOMMENDATIONS: This area is adequately charted as uncovers. The stakes are recommended for deletion from the chart.

The five stakes centered at the above AWO's position should remain as charted.

Do NOT concur

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5098
Vis. PILE

SOURCE: BP57662--9/58, COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 1947Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 358

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 06.^{.07}~~1~~"

97° 05' ^{19.76}~~20.0~~"

OBSERVED:

27° 58' 06.^{.07}~~1~~"

97° 05' 19.53"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on a submerged pile, approximately two meters east of the concrete bulkhead in this area. A least depth of 0.⁴~~7~~m was obtained on the pile. The pile lies in 0.⁴~~7~~m of water.

CHARTING RECOMMENDATIONS: Chart a submerged pile at the above observed *concur* location. *Delete Charted pile. Chart submerged pile as shown on Smooth Sheet.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5100
PILE

SOURCE: BP57662--9/58, COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 1956Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 359

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

~~PREDICTED~~ ^{Actual} TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 15.⁰⁷~~7~~"

97° 05' 1^{3.8}~~4.0~~"

OBSERVED:

27° 58' 14.²⁷~~7~~"

97° 05' 14.8⁴"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on a pile onshore (by using the bearing/distance function of Comflex) at the above observed position. The pile bares 1.6m ^{MHW} above ground and is 0.15m diameter.

CHARTING RECOMMENDATIONS: Since the pile is above the high water line, a recommendation is made to delete the pile from chart 11314. *Concur*
Chart area as shown on Smith Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5101
WRECK ED

SOURCE: CL1564/74--USPS

INVEST. DATE: 12/12/90 (DN 346) TIME: 1454-

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4375-4567

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 16.^{.07"}_{1"}

97° 03' 4^{7.26"}_{6.0"}

OBSERVED: PN 4542>
PN 4543>

27° 58' 12.^{.53"}_{4"}
27° 58' 12.^{.39"}

97° 03' 5^{7.95"}_{8.6"}
97° 03' 57.^{7"}_{8"}

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag was run over the AWOIS listed search radius at no greater than 10 meter line spacing. The area also encompassed a charted submerged pipe, not listed as an item. A snag was encountered at the southwest corner of the drag area near shore. Two detached positions were taken. The first (4542) was taken over what felt like a metal pipe by probing with a sounding pole. Least depth obtained was 0.8M in 1.5M of water. The second (4543) was taken over what felt like a pipe or barnacle encrusted pile by probing with the sounding pole. A least depth of 0.7M in 1.5M of water was obtained. Both objects felt approximately 0.3M in diameter. By looking at the way the chain was snagged, the area with obstructions is approximated 10 meters in diameter. No determination could be made as to whether the obstruction was a wreck (doubtful) or platform ruins which in the hydrographers opinion is highly likely.

@ This sounding was Exceeded by position number 4543.

0.2 meters = .66 feet

CHARTING RECOMMENDATIONS: Since no determination could be made as to what was snagged, the hydrographer recommends charting a submerged obstruction based on the above observed positions^⑥. The charted wreck (ED) and the submerged pipe should both be deleted from chart 11314. *Concur*

⑥ 1/2 Obstrn is on the Smith Sheet. Chart area as shown on Smith Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5102
PILE *Vis.*

SOURCE: BP57662--9/58, COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 2007Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 360

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES:

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 22.^{.07}~~7~~"

97° 05' 08.^{7.76}~~8.0~~"

OBSERVED:

27° 58' 22.6⁴"

97° 05' 08.^{.89}~~8~~"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on a pile onshore (by using the bearing/distance function of Comflex) at the above observed position. The pile bares 2m above ground and is 0.15m diameter.

CHARTING RECOMMENDATIONS: Since the pile is above the high water line, a recommendation is made to delete the pile from chart 11314.

Chart area as shown on smooth sheet.

Concur

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5103
PILE

SOURCE: BP57662--9/58, COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 2013Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 361 ✓

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

~~PREDICTED~~ ^{Actual} TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 31.5"

97° 05' 02.0"

OBSERVED:

27° 58' 31.0"

97° 05' 01.0"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on a 0.15m diameter pile, baring 0.7m ^{MHW}. The pile is located in less than 0.3m of water, and is neither a significant feature nor a danger to navigation.

CHARTING RECOMMENDATIONS: This pile is recommended for deletion from the chart based on it's location. *do not concur*
Delete charted pile. Chart pile as located above.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5104
1½ FT Rep 1976

SOURCE: CL1926/76--USPS

INVEST. DATE: 1/10/91 (DN 010) TIME: 1548-1638Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 5200-5233

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS: Yes

~~PREDICTED~~ ^{Actual} TIDES: Yes

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 36.^{.67}~~1~~"

97° 04' 0^{0.96}~~1.0~~"

OBSERVED:

- See Method of Investigation -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A line of hydrography was run through a narrow and poorly marked channel from the Turtle Bayou entrance from Aransas Bay west to the intra-coastal waterway. This "channel" appears to have been dredged years ago to provide access to a gas platform in this area. This line a hydrography shows depths of ~~1.0m~~^{1.7m} to ~~1.0m~~^{1.7m} in the eastern half, with ~~0.8m~~^{1.0m} to ~~1.0m~~^{1.0m} depths throughout the western half. The mouth of Turtle Bayou was developed with lines of hydrography at no greater than 50 meter spacing. The area into Turtle Bayou which is unmarked, shows depths to ~~1m~~^{1.7m}.

CHARTING RECOMMENDATIONS: Since this area can be navigated safely *do not concern* by shallow draft vessels only with local knowledge, a recommendation not to show any reported depths for the Turtle Bayou entrance is made. Representative soundings should be shown based on the hydrography.
Delete Charted Note
Chart area as shown on Smooth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5105
SUBM FILE

SOURCE: CL1695/73--USPS

INVEST. DATE: 12/11/90 (DN 345) TIME: 1945-2017Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4348-4374

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 36.^{.57}_{.6}"

97° 02' 57.^{.46}_{.6}"

OBSERVED:

-Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag was run at no more than 10 meter line spacing. The area covered was from the east side of the channel, eastward to 50 meters east of the charted position, as well as 50 meters north and south of the charted position as required by the AWOIS listing for this item. No snags were found in the area.

CHARTING RECOMMENDATIONS: Delete the submerged pile from chart 11314. *Concur*
Chart area as shown on Smith Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5106
PILE

SOURCE: BP-57662--9/58, COE

INVEST. DATE: 1/16/91 (DN 016) TIME: 2029Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 364 ✓

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 40.^{.07"}~~1~~"

97° 04' 5^{5.96"}~~6~~.0"

OBSERVED:

- see method of investigation -
27° 58' 41.^{.35"}~~35~~"

97° 04' 55.^{.01"}~~01~~"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the center of a 15m diameter rock pile islet with a gas pipeline crossing sign in the center. The pile referenced by this item exists on shore approximately 50 meters south of the location of the rock pile islet. The position of this islet is latitude 27°58'41.^{.35"}~~41~~"N, longitude 97°04'55.^{.01"}~~55~~"W. The islet bares ^{7.8}~~7~~ meters.

CHARTING RECOMMENDATIONS: The referenced item pile should be deleted since it was found above the high water line. The rock islet with sign should be charted at the location listed in the method of investigation section. *Concur*

Chart area as shown on South Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5107
MARKER PA

SOURCE: CL1695/73--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 2039Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 366

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 43.⁰⁷₁"

97° 04' 49.⁴⁶₅"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A visual search was conducted centered around position 366, latitude 27°58'43.0"N, longitude 97°04'49.9"W. Depths in this area were 0.3m or less. No evidence of markers or piles were seen in this area. *Concur*

was located 85 meters S.W. position No. 365 at Latitude 27°58'40.02" Longitude 97°04'51.77"
private marker (pipeline crossing sign)

CHARTING RECOMMENDATIONS: Delete marker from chart 11314.
Chart pile as shown on the Smooth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5108, 5109
SUBM PILE (5108), Marker (5109)

SOURCE: CL1695/73--USPS

INVEST. DATE: 12/11/90 (345) TIME: 1724-1943Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4257-4347

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED: PSR 5108>

27° 58' 45.^{.07'}_{1"}

97° 02' 5^{0.2'}_{1.0"}

PSR 5109>

27° 58' 48.^{.07'}_{1"}

97° 02' 5^{0.2'}_{6.0"}

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no more than 10 meter line spacing was done in an area covering both item's required search radii with the same bottom drag line scheme. No snags were found in the entire area.

CHARTING RECOMMENDATIONS: Delete the item 5108 submerged pile and the item 5109 marker from chart 11314.

Chart area as shown on SROTA Sheet.

Concur

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5110
VISIBLE WRECK *PA.*

SOURCE: CL1004/79--USPS

INVEST. DATE: 1/10/91 (DN 010) TIME: 1703-1705 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 5235-5236

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 49.^{.07}₁"

97° 03' 48.^{7.26}₀"

OBSERVED:

PN 5235>

27° 58' 51.4[✓]"

97° 03' 49.9¹⁴₄"

PN 5236>

27° 58' 51.9[✓]"

97° 03' 50.2⁸₈"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the southeast end (PN 5235) and northwest end (PN 5236) of the wreck referenced by this item. The wreck is a steel barge, 5 meters wide by 15 meters long and bares 1.1 meter *MHW.*

CHARTING RECOMMENDATIONS: *(and the P.A.)* The wreck *be deleted from the Chart.* should ~~continue to be charted~~
~~based on the above observed positions.~~ *Chart Wreck*
As shown on Smyth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5111
MARKER

SOURCE: CL1695/73--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 2050Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 367

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 51.⁵⁷₈"

97° 04' 4^{2.76}₈.0"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A visual search was conducted, centered around position 367, latitude 27°58'51.9"N, longitude 97°04'44.1"W. Depths in this area are 0.5m or less. No evidence of any markers or piles were seen in this area.

CHARTING RECOMMENDATIONS: Delete marker from chart. *Concur*
Charted Marker is outside the high waterline.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5112
Subm PIPE PD

SOURCE: LNM49/81--USCG 8TH DIS.

INVEST. DATE: 2/7/91 (DN 038) TIME: 1734-1755Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 5419

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 58' 55.^{.07}~~10~~"

97° 02' 3^{6.96}~~7.00~~"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A diver investigation, centered over the charted location covering a 50 m radius area was conducted. Nothing was found. A bottom drag was impossible, due to the pipeline crossing in the immediate vicinity of this item. Per conversation with the USCG Aids to Navigation team in Corpus Christi, very little information was known about the source of this item. Records show Getty Oil Company applied for a pipeline crossing permit in 1981 which was sold to Texaco Oil Company in 1986. It's possible this item originated with the construction of the pipeline which was temporarily marked by the buoy noted in the AWOIS listing, and when construction was completed the buoy was removed since no further danger existed.

Requirement is for 200 Meter radius.

CHARTING RECOMMENDATIONS: Delete charted obstruction from chart 11314. *Do not cancel, survey requirement not met, retain as charted.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5114
MARKER *PA.*

SOURCE: CL1695/73--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 2058Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 368

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 00.⁵⁷₆"

97° 04' 37.^{6.8"}₀"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A visual search was conducted, centered around position 368, latitude 27°59'01.7"N, longitude 97°04'37.4"W. Depths in this area were less than 0.3m. No evidence of any piles or markers were seen in this area.

CHARTING RECOMMENDATIONS: Delete marker from chart. *Concur*
Charted position is outside the high waterline.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5115
MARKER *PA*

SOURCE: CL1695/73--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 2105Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 369

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 10.^{*56"*}~~6~~"

97° 04' 2^{*8.96"*}~~9~~.0"

OBSERVED:

- see method of investigation -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: The referenced marker was seen 40 meters east of position 369, latitude 27°59'1^{*25"*}~~0~~.0"N, longitude 97°04'30.^{*54"*}~~5~~.W. This put the marker well in the center of the charted uncovers area.

CHARTING RECOMMENDATIONS: This feature was found in an area not accessible to any vessels (uncovers area), and is recommended for deletion from the chart. *CONCUR*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5116
MARKER *PA*

SOURCE: CL1695/73--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 2112Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 370

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 17.^{*06*}_{*1*}"

97° 04' 22.^{*98*}_{*0*}"

OBSERVED:

- see method of investigation -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: The referenced marker was seen 40 meters east of position 370, latitude 27°59'18.^{*78*}_{*0*}"N, longitude 97°04'22.9"W. This put the marker well in the center of the charted uncovers area.

CHARTING RECOMMENDATIONS: This feature was found in an area not accessible to any vessels (uncovers area), and is recommended for deletion from the chart. *Concur*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5117
SUBM WRECK *PA*

SOURCE: CL195/78--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 2116Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 371

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 22.1"

97° 04' 14.0" *3.96"*

OBSERVED:

27° 59' 20.6"

97° 04' 18.4"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the center of a wreck lying on the high water line. The wreck is that of a wooden boat, 20 meters long by 4 meters wide. The wreck lies in an east/west orientation, and bares *1.8* meters *at MHW.* *1.8 meters = 5.91 feet*

CHARTING RECOMMENDATIONS: Delete the charted *PA* submerged wreck symbol at this location and chart an exposed wreck at the above observed position. *CONCUR Chart Wreck as shown on Smooth Sheet.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5118, 5119
SUBM PILE (5118), OBSTRUCTION (5119)

SOURCE: UNKNOWN

INVEST. DATE: 12/06/90 (DN 340) TIME: 1923-2113Z VESSEL #1292
12/11/90 (DN 345) 1501-1701Z

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4087-4170
4172-4256

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:		LATITUDE (N)	LONGITUDE (W)
CHARTED:	Item 5118>	27° 59' 26. ⁰⁴ 1 "	97° 02' 34. ^{3.96} 4.0 "
	Item 5119>	27° 59' 31. ⁰⁶ 1 "	97° 02' 38. ^{8.96} 9.0 "

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10 meter line spacing was run in an area covering 500 meters east to west by 450 meters north to south, which encompassed both item's required coverage area. No snags were found in the area covered. The average depth of water in the area was 3 meters. Forty feet of line was deployed on the drag. ✓

CHARTING RECOMMENDATIONS: Delete both the submerged pile and the obstruction referenced by these items, from chart 11314. *Cancel*
Chart area is shown on Smooth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5120, 5122
SUBM FILES

SOURCE: CL1695/73--USPS

INVEST. DATE: 12/5/90 (DN 339) TIME: 1935-2048Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3895-3956

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED: ITEM 5120>

27° 59' 32.7"

97° 02' 00.0"

ITEM 5122>

27° 59' 38.7"

97° 02' 02.0"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10 meter line spacing was done covering an area from the east side of the channel to a 100 meters radius in the remaining directions from the charted position of both items. Average depth of the water was 3.5 meters. Forty feet of line was deployed on the drag. No snags were found in the entire area.

CHARTING RECOMMENDATIONS: Delete both submerged piles referenced by these items, from chart 11314. *Concur*
Chart does show on SRODA Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM 5121
SUBM PILE

SOURCE: CL1695/73

INVEST. DATE: 12/6/90 (DN 340) TIME: 1812-1835Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4067-4086

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 33.⁰⁶~~1~~"

97° 03' 4^{3.96}~~4.0~~"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10 meter line spacing was done covering an area in a 50 meter radius from the charted position. Average depth of the water was 1.5 meters. Forty feet of line was deployed on the drag. No snags were found over the entire area. ✓

CHARTING RECOMMENDATIONS: Delete the pile from chart 11314. *Concor*
Chart data as shown on Smooth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5124
PLATFORM RUINS

SOURCE: CL1695/73

INVEST. DATE: 12/6/90 (DN 340) TIME: 1725-1809Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4040-4066

DP: 4061

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: YES

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 35.^{.06"}~~1~~"

97° 03' 3^{2.96"}~~1.6~~"

OBSERVED: PN 4061[✓]

27° 59' 35.32[✓]"

97° 03' 32.8¹"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10 meter line spacing was done covering a 50[✓] meter radius area centered around the charted position of the item. Average depth of the water was 2.5 meters. Forty feet of line was deployed on the drag. A snag was found at the above observed position. By probing with a sounding pole, the snag was determined to be a pile approximately 12 inches in diameter, with a least depth of 3.¹¹~~14~~ meters. ~~in 3.4 meters of water.~~ No additional snags were found in the area. *3.4 meters = 11.15 ft*

CHARTING RECOMMENDATIONS: Delete the charted platform ruins and chart a ~~submerged pile~~ ^{*pile at*} the above observed position.

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COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5125
PLATFORM RUINS

SOURCE: BP51025/53--COE

INVEST. DATE: 12/6/90 (DN 340) TIME: 1634-1713Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 4018-4039

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: YES

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 49.^{.06'}1"

97° 02' 3^{8.96"}8.0"

OBSERVED: PN 4024>

27° 59' 48.^{.65"}6"

97° 02' 37.^{.75"}8"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10 meter line spacing was done covering a 50 meter radius area centered around the charted position of the item. Average depth of the water was 3.5 meters. Forty feet of line was deployed on the drag. A snag was found at the above observed position. By probing with a sounding pole, the snag was determined to be a pile approximately 12 inches in diameter, with a least depth of 2.79 meters ~~in 3.5 meters of water~~. No additional snags were found in the area. *2.9 meters = 9.51 feet*

CHARTING RECOMMENDATIONS: Delete the charted platform ruins. Chart the ~~submerged pile found~~ at the above observed position. *Concor*

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COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5126
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 1757-1758Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3579-3580

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: YES

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 40.⁰⁶7"

97° 03' 4^{2.96}1.0"

OBSERVED: PN 3579>

27° 59' 39.7"

97° 03' 38.6"

PN 3580>

27° 59' 39.4"

97° 03' 41.2"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: Detached positions were taken on the offshore end of two piers intact in the area of the ruins described by this item. No ruins or obstructions were found while conducting a visual search of the area in depths less than 0.5M with good bottom visibility. Both piers bare 2.1meters *at MHW*.

Delete the Charted Pier ruins
CHARTING RECOMMENDATIONS: ¹Chart the piers based on the above observed positions. Note: pier located by position 3579 is shown on TP-01611 *Concur* shorter than found by the detached position. Pier located by position 3580 is not shown on TP-01611. *Chart piers as shown on the Draft Sheet.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5127
PIERS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 1746-1748Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: Reference 3575 & 3577

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 44.^{.06}~~1~~"

97° 03' 4^{2.98}~~3~~.0"

OBSERVED: TP-01611>

27° 59' 45.3"

97° 03' 41.9"

TP-01611>

27° 59' 44.2"

97° 03' 43.4"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: Detached positions were taken offshore of two piers shown on TP-01611, positions 3575 and 3577. The bearing and distance entered to the actual offshore end of these piers was incorrect, and the positions were subsequently rejected. The two piers referenced are correctly shown on TP-01611. Both piers bare 1 meter *MHW*. ✓

Delete charted piers.
CHARTING RECOMMENDATIONS: ^ Chart piers as shown on *smooth sheet.*
~~TP-01611.~~

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5128
PIER RUIN

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 174301Z

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3574

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 48.⁰⁶~~1~~"

97° 03' ^{39.96}~~40.0~~"

OBSERVED:

27° 59' 46.5"

97° 03' 40.8"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on all the features seen in the vicinity of this item while conducting a visual search in depths less than 0.5M with good bottom visibility. No pier ruins or obstructions were found in the area. Position 3574 is the offshore end of a pier intact, which bares 1.1 meter. This pier is not shown on TP-01611.
at MHW

CHARTING RECOMMENDATIONS: Delete the ruins shown on chart 11314, referenced by this item and show the pier located by the above observed *center* position.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5129
PIER

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334)

TIME: 173141

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3571

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 49.²⁶₁"

97° 03' 3⁶₁.⁹⁶₀"

OBSERVED:

27° 59' 43.6"

97° 03' 29.5"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the offshore end of a pier intact. This pier is incorrectly shown on TP-01611 as ruins. The pier is correctly shown on chart 11314. The located pier is 1 meter wide, and bares 2.1 meters *at MHW*.

CHARTING RECOMMENDATIONS: The pier is correctly shown on chart 11314 *Do Not* and should remain as charted. *Concur* This pier is accurately shown on Smooth Sheet, chart as shown on *Smooth Sheet*
This pier should be removed from the chart.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5130
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 172804>PN3564 VESSEL #1292
173601>PN3569

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3564-69

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 59' 53.^{.06}1"

97° 03' 37.^{.69}0"

OBSERVED: PN 3564 [ⓐ]

27° 59' 50.^{.68}9"

97° 03' 31.^{.35}7"

PN 3565 [ⓑ]

27° 59' 51.34"

97° 03' 33.15"

PN 3566 [ⓒ]

27° 59' 49.32"

97° 03' 31.72"

PN 3567 [ⓓ]

27° 59' 46.51"

97° 03' 29.29"

PN 3568 [ⓔ]

27° 59' 47.81"

97° 03' 31.66"

PN 3569 [ⓕ]

27° 59' 48.^{.27}3"

97° 03' 32.64"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: Detached position 3564 was taken on the offshore end of a pier intact as shown on TP-01611 and also as charted (Bares 1 meter). Positions 3567 and 3568 define the offshore and mid-point of pier ruins, baring 1 meter. Positions 3565 (bares 1.6M), 3566 (bares 1M), and 3569 (bares 0.2M) ^{UNCOVERED} are all single piles. No other ruins or obstructions were found in the area during a visual search in depths less than 0.5M with good bottom visibility.

CHARTING RECOMMENDATIONS: Chart the pier [ⓐ] located by position 3564 as shown on TP-01611. Chart the ruins located by positions 3567 and 3568 at the above observed positions. Chart the piles [ⓑ] at positions 3565, 3566 and 3569 *CONCUR. CHART AREA AS SHOWN ON SMOOTH SHEET.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM # 5131
PILE

SOURCE: LNM22/84

INVEST. DATE: 12/6/90 (340) TIME: 1456-1619Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3957-4017

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 04.⁰⁶₇"

97° 01' 4^{8.96}_{0.0}"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10[✓] meter line spacing was done covering a 100[✓] meters radius area centered around the charted position of the item. Average depth of the water was 3.5 meters. Forty feet of line was deployed on the drag. No snags were found in the entire area.

CHARTING RECOMMENDATIONS: Delete the pile PA from chart 11314. *Concur*
CHART AREA AS SHOWN ON SMOOTH SHEET.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5132
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 172114 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 3562

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual/
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 04.^{06"}₁"

97° 03' 2^{4.96"}_{7.0}"

OBSERVED:

28° 00' 00.6^{5"}₅"

97° 03' 19.^{8"}₇₉"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the offshore end of pier ruins, bearing 1.^{1/2} meters, shown on both chart 11314 and TP-01611. *at HHW* ✓

CHARTING RECOMMENDATIONS: Chart ruins as shown on TP-01611, which were *Color* verified by position 3652.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5133
PIPE

SOURCE: UNKNOWN

INVEST. DATE: 2/7/91 (DN 038) TIME: 155043Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 5417

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 05.1"

97° 03' 21.0"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A visual search with divers wading and snorkeling covering a 50* meter radius area was conducted. The bottom was clearly visible. Nothing was found. The depths in the area are 1.0 meter or less.

CHARTING RECOMMENDATIONS: Delete the charted submerged pipe. *do not concur*
Retain Subm pipe as charted. See Evaluation Report, section 7.

** Survey Requirement 100 meter radius.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5134, 5135, 5136
5134 (Subm. Wreck), 5135 (Pile),
5136 (Platform Ruins)

SOURCE: UNKNOWN

INVEST. DATE: 12/5/90 (DN 339) TIME: 1748-1925Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3836-3894

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES:

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED: Item 5134>

28° 00' 07" *.06"*

97° 01' 34" *3.96"*

Item 5135>

28° 00' 09" *.1" .06"*

97° 01' 34" *3.96"*

Item 5136>

28° 00' 11" *.06"*

97° 01' 34" *3.96"*

OBSERVED:

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10 meter line spacing was done covering an area from the east side of the channel to a minimum of a 100 meters radius in the remaining directions from the charted position of all three items. Average depth of the water was 3.5 meters. Forty feet of line was deployed on the drag. No snags were found in the entire area. ✓

CHARTING RECOMMENDATIONS: Recommend deleting the charted submerged wreck (5134), the pile (5135) and the platform ruins (5136) from chart 11314. *Chart area as shown on Smooth Sheet.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5137
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 1702-1705Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3553-55

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: YES

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 19.^{.06}₁"

97° 03' 21.^{0.16}₀"

OBSERVED: PN 3553>

28° 00' 18.^{0.99}₀"

97° 03' 23.8[✓]"

PN 3554>

28° 00' 18.^{1.37}₁"

97° 03' 22.7[✓]"

PN 3555>

28° 00' 18.1²₂"

97° 03' 22.8⁷⁸₈"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A pier in ruins was located by detached position 3553, *bare* 1.⁷⁶ meters, which is neither charted or shown on TP-01611. Another position was taken on *a* pile at the offshore end of a wooden bulkhead in ruins, position 3555, *baring* 2.1 meters, which closely matches the ruins charted in this area. Position 3554 is a single pile, which *bare* 2.1 meters *MHW*.

CHARTING RECOMMENDATIONS: The ruins located by positions 3553 ~~and 3554~~, as well as the single pile should be charted. [^] The ruins currently charted in this area should be deleted. *Do NOT CONCUR*
Ruins confirmed by piles retain as charted.
Chart New pier in ruins as located. Chart pier ruins as shown on Smooth Sheet.

@ Position 3555 Exceeded by Position 3554

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5138
PIER

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334)

TIME: 165303

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3550-52

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 22.^{.06"}7"

97° 03' ^{19.8"}~~20.0"~~

OBSERVED: PN 3550>

28° 00' 20.^{.35"}4" ✓

97° 03' 16.12"

PN 3551>

28° 00' 18.3"

97° 03' 16.95"

PN 3552>

28° 00' 20.0^{1"}1"

97° 03' 22.8^{76"}76"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: Detached position 3550 was taken on the offshore end of a pier, bearing 1.^{MHW}~~1.66~~ meters, shown on TP-01611, and also charted as the northerly of the two item piers. Detached position 3552 was taken on the offshore end of a pier intact, bearing 1.^{MHW}~~1.66~~ meters which continues in ruins to position 3551, which also bare 1.^{MHW}~~1.66~~ meters.

CHARTING RECOMMENDATIONS: Chart the pier intact as shown on TP-01611, and the pier intact with ruins extension as located by the above observed positions. *CONCUR*
Chart area as shown on Supt. Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5140
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 1637-1645Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3547-49

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 25.^{.86"}7"

97° 03' 19.^{.96"}0"

OBSERVED: PN 3547>

28° 00' 26.65"

97° 03' 13.5"

PN 3548>

28° 00' 23.^{.86"}8"

97° 03' 22.63"

PN 3549>

28° 00' 22.^{.89"}9"

97° 03' 20.^{.1"}1"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: Detached position 3547 was taken on the offshore end of a T-Pier* extending from shore, bearing 1.6M, at the location of the most northerly of the four charted pier ruins. No other ruins or obstructions were found during a visual search in depths less than 0.5M. The center two charted ruins were visually searched for in depths less than 0.5M with good bottom visibility. No ruins or obstructions were found. Detached position 3548, was taken on the offshore end of a pier intact, *bare 1.1M*, with detached position 3549, being a pile inline with this pier, which *bare 0.1M*. Both are in the vicinity of the southerly of the four charted ruins. No ruins were found existing between position 3548 and 3549 nor offshore of 3549. ✓

CHARTING RECOMMENDATIONS: Chart a pier based on position 3547. Chart a pier as shown on TP-01611, located by position 3548. Chart a pile at position 3549. Delete the four charted pier ruins. *CONCUR*

CHART AREA AS SHOWN ON SYNOPTIC SHEET.

** The hydrographer did not show a "T" Pier on the field sheet, NOR is there one on the sheet.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5139, 5141
Subm PILE

SOURCE: CL1695/73--USPS

INVEST. DATE: 12/5/90 (DN 339) TIME: 1541 - 1742Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 3761-3835

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES:

GEODETTIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED: Item 5139>
Item 5141>

28° 00' 23.1"
28° 00' 32.1"
06"

97° 01' 20.0"
97° 01' 17.0"
19.8"
1.8"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag at no greater than 10 meter line spacing was done covering an area from the east side of the channel to a 100 meters radius in the remaining directions from the charted position of both items. Average depth of the water was 3.5 meters. Forty feet of line was deployed on the drag. No snags were found over the entire area. ✓

CHARTING RECOMMENDATIONS: Recommend both submerged piles referenced by this item be deleted from chart 11314. *Concur*
CHART AREA AS SHOWN ON SAYOOTH SHEET.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5142
PIER

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 163034 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3544-45

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: YES

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 37.^{06"}~~2"~~

97° 03' 1^{2.96"}~~8.0"~~

OBSERVED:

PN 3544>

28° 00' 33.73'

97° 03' 06.51'

PN 3545>

28° 00' 30.93'

97° 03' 09.^{.87'}~~8"~~

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: This item describes three visible piers. The northerly ^{Advis} of the three was recommended for deletion from the chart as part of item 5143. The center pier of the three was located by detached position 3544, ^{MHW} ~~bare~~ 1.1M, and is accurately shown on TP-01611, as well as chart 11314. The southerly pier was located by detached position 3545, ^{MHW} ~~bare~~ 1.1M, and is also accurately shown on the chart and TP-01611.

CHARTING RECOMMENDATIONS: Chart piers as shown on ^{Set} ~~TP-01611~~, located at the above observed positions. *do NOT concur.*

*The northern pier should be deleted.
The southern pier should be charted as shown on TP-01611
The middle pier should be charted as shown on this survey.*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5143
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334)

TIME: 162345

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3542-43

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual

~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 40.7" ^{0.9"}

97° 03' 17.0" ^{0.9"}

OBSERVED:

PN 3542>

28° 00' 38.0" ^{5.9"}

97° 03' 06.63"

PN 3543>

28° 00' 37.2" ✓

97° 03' 09.13"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position 3543 was taken on the offshore end of a pier intact, bearing 1.1M ^{4.1M} longer than one shown on TP-01611, as well as the offshore end of ruins continuing east from the intact portion of the pier (PN 3542), which bare 1.1M. Note: the chart shows a T-pier in ruins as well as an intact pier in the vicinity of this item.

Delete Charted piers

CHARTING RECOMMENDATIONS: ^ Chart the pier as described above (intact/and as ruins) based on the above observed positions. The charted pier adjacent to the charted T-pier ruins should also be deleted and is one of the three piers addressed as part of item 5142. *CONCU*

Chart piers as shown on Sketch Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5144
PIER

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334)

TIME: 162046

VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3540

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 42.^{10"}7"

97° 03' 07.^{96"}0" ✓

OBSERVED:

28° 00' 39.65"

97° 03' 02.8" ✓

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the offshore end of a new pier intact, bearing 1.8° ^{by MW} as shown on TP-01611, which was built over old pier ruins. These pier ruins are currently charted and are part of this item.

CHARTING RECOMMENDATIONS: Delete the charted pier ruins and chart the pier as shown on TP-01611 as the only feature. *Concur*

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5145
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 161405 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3538-39

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 43.2"

97° 03' 01.0"

OBSERVED:

PN 3538>

28° 00' 41.8"

97° 03' 00.8"

PN 3539>

28° 00' 43.8"

97° 03' 05.8"

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the offshore end of a pier intact (PN 3539) as shown on TP-01611, but which continues further offshore in ruins to position 3538. Both positions bare 1.6 meters. *1.6 meters = 5.25 feet*

Delete Charted pier in ruins.

CHARTING RECOMMENDATIONS: *Chart* the pier intact as shown on TP-01611 and chart ruins between the observed positions 3538 and 3539. *CONCERN*

Chart ruins as shown on 5100th sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5146
PIER ~~113~~.

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 161022 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 3537

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

~~PREDICTED~~ ^{Actual} TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 45.^{.06'}7"

97° 03' 0^{6.96"}7.0"

OBSERVED:

28° 00' 44.^{.09'}1"

97° 03' 00.2" ✓

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: The AWOIS listing describes this item as one pier visible, while the chart shows a pier in ruins nearest to the vicinity of this item. A detached position was taken on the offshore end of a pier intact as shown on the manuscript. This pier is north of the scaled position of the AWOIS item, however, very near the charted ruins. A visual search conducted from this pier south to item 5145, found no evidence of any ruins or obstructions. Depths were 0.5M or less and the bottom was clearly visible. ~~The located pier bares 1.56 meters at M/H/W~~ ^{Steel}

CHARTING RECOMMENDATIONS: Delete the charted pier ruins and chart the pier which was located as shown on ~~TP 01611~~ ^{Steel} CONCUR

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5148
MARKER

SOURCE: CL1695/73--USPS

INVEST. DATE: 1/16/91 (DN 016) TIME: 1651-1839Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 5317-5375

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 58.⁰⁶₁"

97° 01' 0^{3.96}_{4.0}"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag was done at no greater than 10m line spacing over the area required by the AWOIS listing. No snags were found in the item area. This area is adjacent to a pipeline crossing which was inadvertently snagged on the south end of the drag area.

CHARTING RECOMMENDATIONS: Delete marker from chart 11314. *CONCUR*
CHART AREA AS SHOWN ON SYDTH SHEET.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM #5149
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 160120 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 3536

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION: LATITUDE (N) LONGITUDE (W)

CHARTED: 28° 00' 58.⁰⁶~~7~~" 97° 03' 0^{3.98}~~1.0~~"

OBSERVED: 28° 00' 58.¹~~.67~~" 97° 03' 03.8" ✓

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken at the center of a visual search area in depths less than 0.5M. No evidence of any pier ruins or obstructions was found. The bottom was clearly visible. Contrary to the AWOIS listing, only one pier ruin is charted. *Correct*

CHARTING RECOMMENDATIONS: Delete pier ruins from chart. *Concur*
CHART AREA AS SHOWN ON the Smooth Sheet.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM 5151
PIER RUINS

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 155130 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 3535

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

Actual
~~PREDICTED~~ TIDES: Yes

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 00' 58.^{-06"}_{2"}

97° 03' 0^{0.96"}_{7.0"}

OBSERVED:

28° 00' 55.2^{1"}

97° 02' 53.3^{4"}

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A detached position was taken on the offshore end of a pier correctly shown on TP-01611. The chart in this area shows a pier with ruins adjacent. The ruins, which are referenced by this item were not evident while conducting a visual search in depths 1 meter or less. The located pier *bare* 1.66 meters *at MHW*

CHARTING RECOMMENDATIONS: The pier located ^{*is Awnis #5152 and*} should be charted as shown on TP-01611. The charted ruins adjacent should be deleted. *Concur*
Chart area as shown on Smith Sheet.
Feature at same location as Awnis 5152 ^{*Awnis item #5151*}

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM 5152
PIER

SOURCE: UNKNOWN

INVEST. DATE: 11/30/90 (DN 334) TIME: 154559 VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP)

POSITION: 3534

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

28° 01' 00. ^{06"}_{2"}

97° 03' 0^{3.9"}_{1.0"}

OBSERVED:

28° 01' 00. ^{1"}₆₆

97° 03' 03.83'

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A visual search was conducted in the area of this item centered around the above observed position. Depths in the area are less than 0.5M. No evidence of pier ruins or any obstructions were found. *Concur*

CHARTING RECOMMENDATIONS: Nothing is currently charted in this item area nor is anything recommended for charting. [^] Note: Item 5151 is adjacent to this item and resolved separately. *Do Not Concur*
This pier is located on TP-01611

Chart pier as shown on TP 01611.

Feature is at same location as AWDIS 5151.

COMPILATION USE

CHART:

APPLIED AS:

CHART #11314

PRE-SURVEY REVIEW ITEM # 7856
Subm WRECK *PA*

SOURCE: LNM20/90

INVEST. DATE: 12/13/90 (DN 347) TIME: 1940-2103Z VESSEL #1292

Chief of Party: LCDR V. Dale Ross

REFERENCE: H-10359 (OPR-K229-AHP) POSITION: 4730-4791

CORRECTORS APPLIED:

VELOCITY:

TRA CORRECTORS:

PREDICTED TIDES:

GEODETIC POSITION:

LATITUDE (N)

LONGITUDE (W)

CHARTED:

27° 5⁷~~4~~' 42.7"

97° 03' 06.2"

OBSERVED:

- Nothing Found -

POSITION DETERMINED BY: Multiple LOP, Falcon Mini Rangers

METHOD OF ITEM INVESTIGATION: A bottom drag covering the area required by the AWOIS listing was run at no more than 10 meter line spacing. No snags were found in the area. *Survey requirements of 100 Meter radius Met.*

CHARTING RECOMMENDATIONS: Delete wreck ^{on} ~~from~~ chart 11314. *do Not CONCUN*
This wreck is not presently charted, do Not Chart wreck.

COMPILATION USE

CHART:

APPLIED AS:

APPROVAL SHEET
BASIC HYDROGRAPHIC SURVEY
OPR-K229
AHP-10-14-90
H-10359

This basic hydrographic survey was conducted in accordance with the project instructions for OPR-K229-AHP2, the hydrographic manual, the hydrographic survey guidelines, and the field procedures manual. The survey data and reports were completed and reviewed in their entirety and all supporting records were also checked.

This survey is a complete basic hydrographic survey for the area described in Section B of this report.



V. Dale Ross
LCDR NOAA
Chief, Atlantic Hydrographic Party Two

ORIGINAL

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: Jun 11, 1991

MARINE CENTER: Pacific

OPR: K229

HYDROGRAPHIC SHEET: H-10359

LOCALITY: Aransas Bay, Rockport to Trout Bayou, TX

TIME PERIOD: October 30, 1990 - February 8, 1991

TIDE STATIONS USED: 877-4770 Rockport, TX

28°01.4'N 97°02.8'W

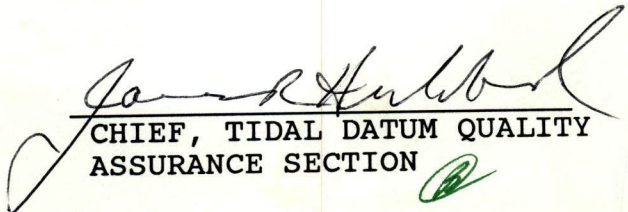
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 5.81 feet

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.4 feet (.122M)

REMARKS: RECOMMENDED ZONING

1. North of 27°59.3'N, zone direct.
2. South of 27°59.3'n and north of 27°57.5'N, apply a x1.14 range ratio to all heights and a -30 min time correction.
3. South of 27°57.5'N, apply a x1.14 range ratio to all heights and a -60 min time correction.

Note: Times are tabulated in Local Standard Time.


CHIEF, TIDAL DATUM QUALITY
ASSURANCE SECTION

GEOGRAPHIC NAMES

H-10359

Name on Survey	ON CHART NO. 11314 SC									
	A	B	C	D	E	F	G	H	K	
	ON PREVIOUS SURVEY NO.	CON U.S. QUADRANGLE MAPS	FROM LOCAL INFORMATION	ON LOCAL MAPS	P.O. GUIDE OR MAP	GRAND MCNALLY ATLAS	U.S. LIGHT LIST			
ARANSAS BAY	X								1	
BAHIA BAY									2	
BIG CUT									3	
CITY-BY-THE-SEA									4	
COVE HARBOR									5	
COVE, THE	X								6	
ESTES COVE	X								7	
ESTES FLATS	X								8	
LITTLE CUT									9	
MUD ISLAND	X								10	
PALM HARBOR									11	
ROCKPORT	X								12	
SHELL RIDGE									13	
TALLEY ISLAND	X								14	
TEXAS (title)	X								15	
TRAYLOR ISLAND	X								16	
TROUT BAYOU	X								17	
TURTLE BAYOU	X								18	
					Approved:				19	
					<i>Charles E. Harrington</i>				20	
					Chief Geographer - N/C42x5				21	
					APR 30 1991				22	
									23	
									24	
									25	

HYDROGRAPHIC SURVEY STATISTICS

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET	1	SMOOTH OVERLAYS: POS., ARC, EXCESS	8
DESCRIPTIVE REPORT	1	FIELD SHEETS AND OTHER OVERLAYS	7

DESCRIP- TION	DEPTH/POS RECORDS	HORIZ. CONT. RECORDS	SONAR- GRAMS	PRINTOUTS	ABSTRACTS/ SOURCE DOCUMENTS
ACCORDION FILES	1				
ENVELOPES					
VOLUMES					
CAHIERS					
BOXES					

SHORELINE DATA

SHORELINE MAPS (List): TP-01611 and TP-01198

PHOTOBATHYMETRIC MAPS (List): N/A

NOTES TO THE HYDROGRAPHER (List): N/A

SPECIAL REPORTS (List): N/A

NAUTICAL CHARTS (List): Chart 11314 16th Ed.

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS		
	VERIFICATION	EVALUATION	TOTALS
POSITIONS ON SHEET			3749
POSITIONS REVISED			7
SOUNDINGS REVISED			283
CONTROL STATIONS REVISED			

	TIME-HOURS		
	VERIFICATION	EVALUATION	TOTALS
PRE-PROCESSING EXAMINATION			
VERIFICATION OF CONTROL			
VERIFICATION OF POSITIONS	82		82
VERIFICATION OF SOUNDINGS	118		118
VERIFICATION OF JUNCTIONS			
APPLICATION OF PHOTOBATHYMETRY			
SHORELINE APPLICATION/VERIFICATION			
COMPILATION OF SMOOTH SHEET	34		34
COMPARISON WITH PRIOR SURVEYS AND CHARTS		21	21
EVALUATION OF SIDE SCAN SONAR RECORDS			
EVALUATION OF WIRE DRAGS AND SWEEPS			
EVALUATION REPORT		18	18
GEOGRAPHIC NAMES			
OTHER' Digitization			
*USE OTHER SIDE OF FORM FOR REMARKS	TOTALS	234	39
			273

Pre-processing Examination by
Mike BrownBeginning Date
3/18/91Ending Date
4/9/91Verification of Field Data by
Gordon E. KayTime (Hours)
234Ending Date
8/20/92Verification Check by
James S. GreenTime (Hours)
16Ending Date
9/6/92Evaluation and Analysis by
Gordon E. KayTime (Hours)
39Ending Date
10/5/92Inspection by
Dennis J. Hill

Time (Hours)

4

Ending Date

2/16/93

EVALUATION REPORT H-10359

1. INTRODUCTION

Survey H-10359 is a basic hydrographic survey accomplished by the Atlantic Hydrographic Party 2, under the following Project Instructions.

OPR-K229-AHP2, dated September 14, 1990
CHANGE NO. 1, dated February 12, 1991

This survey covers an area in Aransas Bay, Texas. The surveyed area extends from just south of Rockport at latitude 28/01/10N, south to latitude 27/56/32N. The eastern limit is longitude 97/01/00W. The western limit is the shoreline on the west side of the Intracoastal Waterway, where the communities of City-by-the-Sea and Palm Harbor are found. The bottom consists of gray mud, sand and broken shells. Depths range from zero along the shore to 6.5 meters in the Intracoastal Waterway.

Predicted tides for Galveston Channel, Texas, were used for the reduction of soundings during field processing. Approved hourly heights zoned from Rockport, Texas, gage 877-4770, were used during office processing.

The field sheet parameters have been revised to center the hydrography on the smooth sheet and to change the projection to polyconic. NAD 83 is used as the horizontal datum for plotting and position computations. The sound velocity correctors and electronic correctors are adequate. The TRA corrector was revised to compute settlement and squat by vessel RPM. An accompanying computer printout contains the parameters and the correctors.

A digital file has been generated for this survey that includes categories of information required to comply with Hydrographic Survey Guideline No. 52, Standard Digital Data Exchange Format, April 15, 1986. Certain feature descriptive information, however, may not be in the digital record due to the restrictions of the presently available cartographic codes. The user should refer to the smooth sheet for complete information.

2. CONTROL AND SHORELINE

Sections H and I of the hydrographer's report contains adequate discussions of horizontal control and hydrographic positioning. More detailed information on horizontal control is found in the following.

Geodetic Control Report for CM-8716
Geodetic Control Survey Job-HC-9901

Positions of horizontal control stations used during hydrography are 1989 and 1990 field values based on NAD 83. These values were used during office processing for the computation of positions. The smooth sheet and accompanying overlays are annotated with NAD 27 adjustment ticks based on values determined with the NGS program NADCON. Geographic positions based on NAD 27 may be plotted on the smooth sheet utilizing the NAD 83 projection by applying the following corrections.

Latitude: 1.067 seconds (32.831 meters)
Longitude: 0.962 seconds (26.294 meters)

The year of establishment of control stations shown on the smooth sheet originates with the previously listed horizontal control reports and the published data.

The quality of 561 positions exceeds the positional limits, in terms of error circle radius and residual, or these positions have angles of intersection less than 30 degrees or more than 150 degrees. A review of the data shows that none of these fixes are used to position dangers to navigation. The features or soundings located by these fixes are consistent with the surrounding information. These fixes are considered acceptable.

The following positions were acquired by the hydrographer as "see field sheet" positions (SFS). These positions were converted to an automated format by the hydrographer. The see field sheet positions are located in the following general areas.

<u>Name of Area</u>	<u>Latitude North</u>	<u>Longitude West</u>
Cove Harbor	27/59/27	97/04/33
Palm Harbor	27/58/06	97/05/33
Bahia Bay	27/57/51	97/05/39
City-by-the-Sea	27/57/09	97/06/15

The following Class III shoreline maps, compiled at a scale of 1:20,000, apply to this survey.

	<u>Photography Date</u>	<u>Datum</u>
TP-01198	December 1982, November 1983	NAD 27
TP-01611	February, March 1989	NAD 83

The following high waterline revisions are depicted on the smooth sheet in red ink with supporting positional information. They are considered adequate to supersede the common photogrammetrically delineated shoreline.

<u>Feature</u>	<u>Latitude North</u>	<u>Longitude West</u>
pier (extension)	28/00/37.5	97/03/10.5
pier	28/00/27.5	97/03/17.5
pier	27/59/46.5	97/03/35.0
pier	27/59/40.5	97/03/44.0
pier (extension)	27/59/39.5	97/03/39.5

3. HYDROGRAPHY

Except as noted below, hydrography is adequate to:

- delineate the bottom configuration, determine least depths, and draw the standard depth curves;
- reveal there are no significant discrepancies or anomalies requiring further investigation; and
- show the survey was properly controlled and soundings are correctly plotted.

Hydrography did not extend to the 0.7 meter depth as required by CHANGE NO. 1 of the Project Instructions. However, the transfer of the zero curve from TP-01611 is adequate to complete the inshore hydrography from the northern smooth sheet limit south to latitude 27/58/00N. South of this latitude, TP-01198 is deficient in not depicting the zero curve, resulting in a lack of adequate hydrography.

4. CONDITION OF SURVEY

The hydrographic records and reports received for processing are adequate and conform to the requirements of the Hydrographic Manual, 4th Edition, revised through Change No. 3, the Hydrographic Survey Guidelines, and the Field Procedures Manual, April 1990 Edition, except:

Landmarks were not mentioned in the hydrographer's report. The hydrographer is required to evaluate landmarks from seaward to decide which landmarks are suitable for charting, to identify which charted landmarks no longer exist and, if more predominate objects exist that would serve as better landmarks, position these (HM section 5.5.1). The accomplishment and results should be noted in section P of the hydrographer's report.

5. JUNCTIONS

Survey H-10359 junctions with the following surveys.

<u>Survey</u>	<u>Year</u>	<u>Scale</u>	<u>Area</u>
H-10327	1990	1:10,000	North
H-10360	1990-91	1:10,000	South, west of longitude 97/03/27W
H-10366	1990	1:10,000	East
H-10367	1991	1:10,000	South, east of longitude 97/03/27W

The junctions with surveys H-10360, H-10366 and H-10367 are complete.

The junction with survey H-10327 has not been formally completed since that survey was previously processed and forwarded for charting. The junction comparison was made using a copy. The soundings on survey H-10327 are in feet while soundings on survey H-10359 are in meters. The soundings are in good agreement; however, one sounding, a 2.4 meter (8-foot) depth was transferred to survey H-10359 because it is shoaler than the surrounding soundings of this survey. The depth curves shown on survey H-10327 delineates different depths than on survey H-10359 and, therefore, do not agree.

6. COMPARISON WITH PRIOR SURVEYS

H-5693 (1935) 1:20,000

Survey H-5693 covers the present survey east of longitude 97/04/50W. The major difference between the surveys is the vast amount of change that has taken place along the present dredged waterways. Piers, bulkheads and boat basins have been added and channels created. There have also been other man-made changes to water depths, most notably from the deposition of bottom material in spoil areas. Inshore soundings on the present survey are 0.3 to 0.5 meters deeper. This is confirmed by the inshore displacement (approximately 100 meters) of the MLLW line depiction on the photogrammetric shoreline map TP-01611 when compared to the chart. Considering the difference in the scales of the surveys, the methods of surveying, and the amount of man-made change in the area, comparison with this prior survey is good. Some discrepancies between the two surveys were noted and discussed in section M of the hydrographer's report.

Survey H-10359 is adequate to supersede prior survey H-5693 within the common area.

There are no prior surveys west of longitude 97/04/50W.

T-9179 (1948) 1:20,000
T-9296 (1946-48) 1:20,000

Shoreline map T-9179 covers an area south of latitude 28/01/00N. The natural shoreline has changed significantly since these prior shoreline maps were completed. At the time that these prior shoreline maps were compiled, the Intracoastal Waterway did not exist in the area. Since the building of the waterway, the area has been commercially developed.

Shoreline map T-9296 covers an area north of latitude 28/01/00N. Cultural features, piers and breakwaters have changed over the years with some changes to the natural shoreline.

Survey H-10359 is adequate to supersede the prior shoreline maps T-9179 and T-9296 as the source of charting information offshore of the high waterline within the common area.

There are no AWOIS items originating from prior survey H-5693 or prior shoreline maps T-9179 and T-9296 that apply to the present survey.

7. COMPARISON WITH CHART

Chart 11314, 16th edition, dated January 20, 1990; scale 1:40,000, NAD 83

a. Hydrography

Charted hydrography originates with the prior survey H-5693 and prior shoreline maps T-9179 and T-9296 and miscellaneous sources.

The following features were not found or disproven during this survey. They should remain as charted.

<u>Feature</u>	<u>Latitude North</u>	<u>Longitude West</u>	<u>AWOIS Number</u>
wreck PA	28/01/07.06	97/01/21.96	5155
pier ruins (centered)	28/00/19.06	97/03/20.96	5137
subm pipe	28/00/05.06	97/03/24.96	5133
subm pipe PD	27/58/55.07	97/02/36.96	5112
stakes (centered)	27/57/58.07	97/05/19.96	5091

The area south of latitude 27/58/00N inshore of the 2-foot depths was not adequately addressed during this survey. The charted zero curve should be retained as charted except as required to avoid conflict with isolated survey depths.

With the exceptions noted above, survey H-10359 is adequate to supersede charted hydrography within the common area.

b. AWOIS

AWOIS items originate with miscellaneous sources. The disposition of AWOIS items may be found in the item investigation reports that follow the descriptive report.

AWOIS item 5154, a "rep wreck ED", was investigated on survey H-10327 and is discussed in the item investigation report attached to that survey.

AWOIS item 5155, a "subm dangerous wreck PA", charted latitude 28/01/07.06N, longitude 97/01/21.96W, was not investigated on this survey. It should remain as charted.

c. Controlling Depths

The Intracoastal Waterway and the Intracoastal Waterway Alternate Route pass through the area of this survey. The project depth for the Intracoastal Waterway is 12 feet (3.6 meters). This 12-foot project depth also applies to the Intracoastal Waterway Alternate Route, that intersects the main route on this survey at latitude 28/00/06N, longitude 97/01/36W. This survey verified the project depth, although most waterway soundings are deeper than the project depth.

A charted channel, centered at latitude 27/57/07N, longitude 97/04/37W, cuts through Traylor Island at Big Cut. This channel contains the note "3 ft rep 1979" (0.9 meters). The shoalest present survey sounding is 0.6 meters (2 feet). The present charted note should be removed and a note "2 feet 1991" charted. This is AWOIS item number 5082.

d. Aids to Navigation

The following information summarizes the results of survey H-10359 concerning aids to navigation.

Nineteen fixed aids and twenty-seven floating aids are shown on this survey.

The positions for the fixed aids located during this survey follow.

<u>Name</u>	<u>Light List Number</u>	<u>Latitude North</u>	<u>Longitude West</u>
Rockport Smallboat Harbor Channel Light 1	35714	28/00/56.48	97/02/47.81
Rockport Smallboat Harbor Channel Daybeacon "3"	35714.5	28/01/01.28	97/02/50.46
Aransas Bay Pipeline Marker Light C	35725	28/00/52.35	97/01/02.67
Aransas Bay Light 49	35750	28/00/07.97	97/01/34.24
Aransas-Corpus Christi Bay Cut Off Channel Light 7	35785	27/59/34.08	97/03/37.90
Aransas-Corpus Christi Bay Cut Off Channel Light 12	35810	27/59/24.57	97/04/19.32
Aransas-Corpus Christi Bay Cut Off Channel Light 13	35815	27/58/04.32	97/05/17.49
Daybeacon "17"	35825	27/57/39.27	97/05/34.85
Mobile Channel Daybeacon "1"	35830	27/57/35.63	97/05/41.38
Mobile Channel Daybeacon "2"	35835	27/57/34.83	97/05/41.81
Daybeacon "19"	35840	27/57/24.98	97/05/44.71
Aransas-Corpus Christi Bay Cut Off Channel Light 20	35845	27/57/14.72	97/05/55.20
Daybeacon "21"	35850	27/57/01.88	97/06/00.75
Aransas Bay Alternate Route Light 55	36100	27/59/07.27	97/02/29.32
Texaco Pipeline Light A	36105	27/59/00.48	97/02/44.32
Texaco Pipeline Light B	36110	27/58/54.10	97/02/39.92
Aransas Bay Alternate Route Light 61	36135	27/58/16.12	97/03/16.25

<u>Name</u>	<u>Light List Number</u>	<u>Latitude North</u>	<u>Longitude West</u>
Aransas Bay			
Alternate Route Light 69	36180	27/56/35.10	97/03/32.52
Daybeacon "73"	36200	27/57/51.83	97/05/25.85

The positions for the floating aids located during this survey follow.

<u>Name</u>	<u>Light List Number</u>	<u>Latitude North</u>	<u>Longitude West</u>
Buoy "46"	35740	28/00/32.72	97/01/18.15
Buoy "47"	35745	28/00/19.83	97/01/23.85
Junction Buoy	35755	28/00/02.76	97/01/44.24
Buoy "2"	35760	28/00/01.43	97/02/00.87
Buoy "3"	35765	27/59/54.21	97/02/20.11
Buoy "4"	35770	27/59/52.11	97/02/39.02
Buoy "5"	35775	27/59/44.23	97/02/58.56
Buoy "8"	35790	27/59/33.07	97/03/53.35
Buoy "9"	35795	27/59/31.63	97/03/52.91
Buoy "10"	35800	27/59/28.01	97/04/04.84
Buoy "11"	35805	27/59/29.59	97/04/06.13
Buoy "22"	35855	27/56/51.77	97/06/12.57
Buoy "23"	35860	27/56/41.67	97/06/15.65
Buoy "51"	36090	27/59/41.58	97/01/59.11
Buoy "53"	36095	27/59/18.89	97/02/19.72
Buoy "56"	36115	27/59/00.22	97/02/41.38
Buoy "57"	36120	27/58/46.72	97/02/48.80
Buoy "59"	36125	27/58/25.66	97/03/08.22
Buoy "60"	36130	27/58/17.93	97/03/21.85
Buoy "62"	36140	27/57/58.84	97/03/23.40
Buoy "63"	36145	27/57/42.30	97/03/23.22
Buoy "64"	36150	27/57/26.07	97/03/28.95
Buoy "65"	36155	27/57/27.13	97/03/26.11
Buoy "66"	36160	27/57/09.92	97/03/31.54
Buoy "67"	36165	27/56/50.78	97/03/31.08
Buoy "67A"	36170	27/56/42.17	97/03/32.85
Buoy "68"	36175	27/56/33.12	97/03/36.86

All fixed aids and floating aids were located and serve their intended purpose. The hydrographer's report section P, page 10-11 contains a discussion on aids that are positioned different than charted.

There are three charted landmarks within the limits of hydrographic survey H-10359. The hydrographer did not locate these landmarks during this survey (see section 4). These three presently charted landmarks should be retained as charted. The photogrammetric field party located two additional landmarks within the limits of this survey that are documented in the report titled, Fixed Aids to Navigation, Photogrammetric Project CM-8716, Corpus Christi Bay to Copano Bay, Texas. These two landmarks are shown on the smoothsheet and should be charted.

e. Geographic Names

Names appearing on the smooth sheet and in the survey title have been approved by the Chief Geographer.

f. Dangers to Navigation

The hydrographer reported a shoal to the Eighth U.S. Coast Guard District New Orleans, Louisiana and N/CG222. A copy of the message is attached.

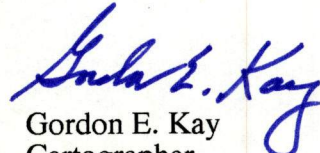
No additional dangers were discovered during office processing.

8. COMPLIANCE WITH INSTRUCTIONS

Except as noted in section 3, survey H-10359 adequately complies with the Project Instructions.

9. ADDITIONAL FIELD WORK

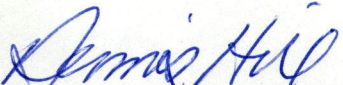
This is a good hydrographic survey. Additional field work is recommended on a time available basis to investigate AWOIS item 5155 as mentioned in section 7.b above.


Gordon E. Kay
Cartographer

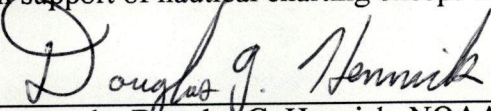
APPROVAL SHEET
H-10359

Initial Approvals:

The completed survey has been inspected with regard to survey coverage, delineation of the depth curves, development of critical depths, cartographic symbolization, comparison with prior surveys and verification or disproval of charted data. The digital data have been completed and all revisions and processing have been entered in the magnetic tape record for this survey. Final control, position, and sounding printouts have been made and are included with the survey records. The survey records and digital data comply with NOS requirements except where noted in the Evaluation Report.

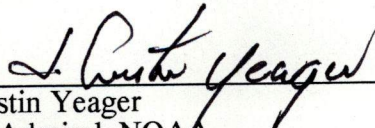
 Date: 2/16/93
Dennis J. Hill
Chief, Hydrographic Processing Unit
Pacific Hydrographic Section

I have reviewed the smooth sheet, accompanying data, and reports. This survey and accompanying digital data meet or exceed NOS requirements and standards for products in support of nautical charting except where noted in the Evaluation Report.

 Date: 2/22/93
Commander Douglas G. Hennick, NOAA
Chief, Pacific Hydrographic Section

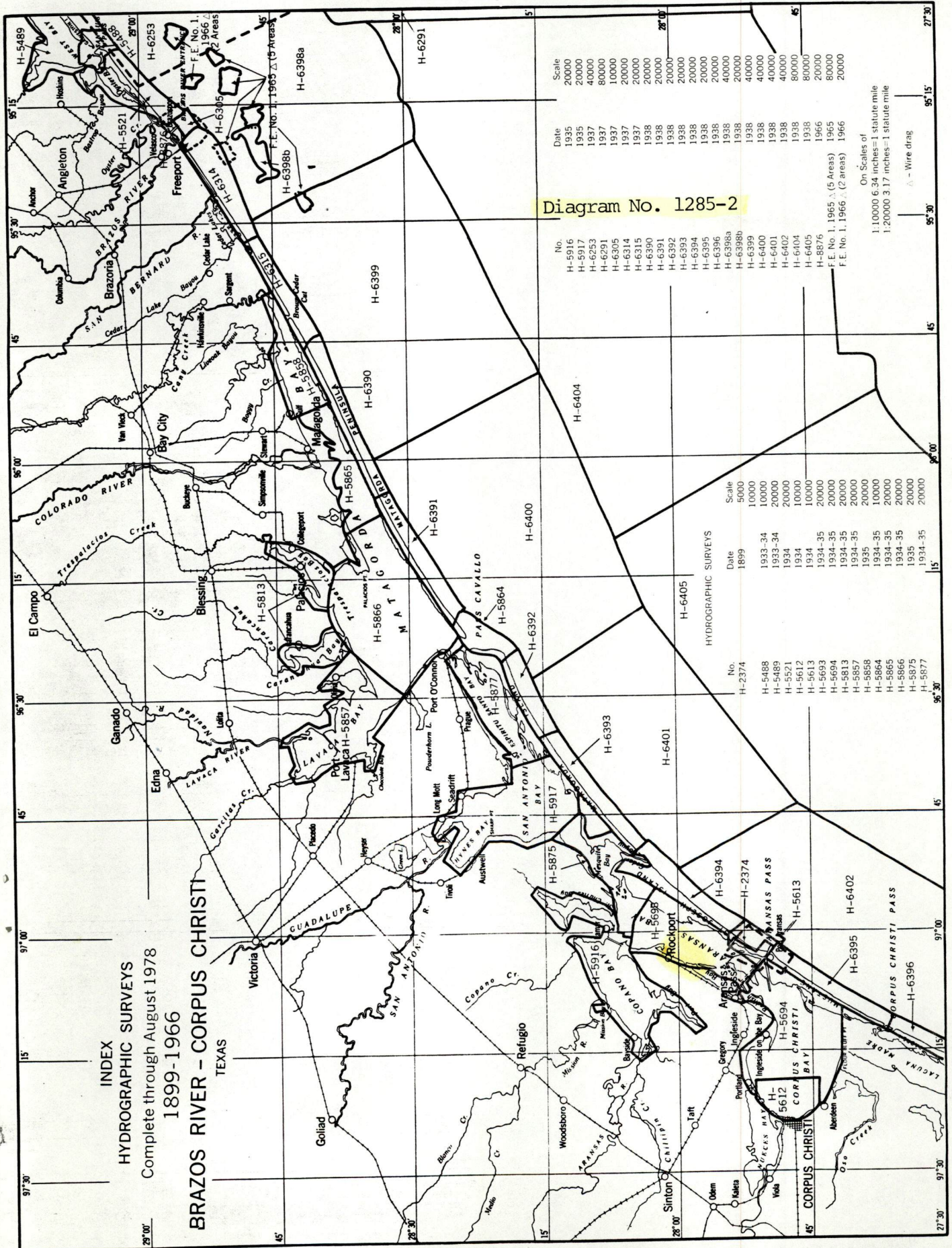
Final Approval

Approved:

 Date: 7/18/94
J. Austin Yeager
Rear Admiral, NOAA
Director, Coast and Geodetic Survey

DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Survey
Rockville, Maryland

Hydrographic Index No. 90 C



FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-10359

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.

SUPERSEDES C&GS FORM 8352 WHICH MAY BE USED