

TP 01147

TP 01147

|                                                                                                               |                         |
|---------------------------------------------------------------------------------------------------------------|-------------------------|
| NOAA FORM 76-35<br>(3-76)                                                                                     |                         |
| U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY       |                         |
| <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>                                                       |                         |
| This Map Edition Will Not Be Field Edited                                                                     |                         |
| <b>Map No.</b><br>TP-01147                                                                                    | <b>Edition No.</b><br>1 |
| <b>Job No.</b><br>CM-8108                                                                                     |                         |
| <b>Map Classification</b><br>Class III                                                                        |                         |
| <b>Type of Survey</b><br>Shoreline                                                                            |                         |
| <h3 style="text-align: center;">LOCALITY</h3>                                                                 |                         |
| <b>State</b><br>Texas                                                                                         |                         |
| <b>General Locality</b><br>Texas City                                                                         |                         |
| <b>Locality</b><br>San Leon To Texas City                                                                     |                         |
| <div style="border: 1px solid black; padding: 5px; text-align: center;">           19 81 TO 19         </div> |                         |
| <h3 style="text-align: center;">REGISTRY IN ARCHIVES</h3>                                                     |                         |
| <b>DATE</b>                                                                                                   |                         |

|                                                         |  |                                                                                                                                                                                            |  |                                                                                                                                         |  |                                                                                  |  |
|---------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|--|
| NOAA FORM 76-36A<br>(3-72)                              |  | U. S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.                                                                                                                    |  | TYPE OF SURVEY<br><input checked="" type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED |  | SURVEY TF-01147<br>MAP EDITION NO. (1)<br>MAP CLASS<br>JOB <del>XX</del> CM-8108 |  |
| <b>DESCRIPTIVE REPORT - DATA RECORD</b>                 |  |                                                                                                                                                                                            |  |                                                                                                                                         |  |                                                                                  |  |
| PHOTOGRAMMETRIC OFFICE<br>Rockville, Md.                |  |                                                                                                                                                                                            |  | LAST PRECEDING MAP EDITION                                                                                                              |  |                                                                                  |  |
| OFFICER-IN-CHARGE<br>Ronald Brewer                      |  |                                                                                                                                                                                            |  | TYPE OF SURVEY<br><input type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED            |  | JOB PH-<br>MAP CLASS<br>SURVEY DATES:<br>19__ TO 19__                            |  |
| <b>I. INSTRUCTIONS DATED</b>                            |  |                                                                                                                                                                                            |  |                                                                                                                                         |  |                                                                                  |  |
| 1. OFFICE                                               |  |                                                                                                                                                                                            |  | 2. FIELD                                                                                                                                |  |                                                                                  |  |
| Aerotriangulation May 26, 1984<br>Office Aug. 9, 1983   |  |                                                                                                                                                                                            |  | Field Oct. 30, 1981                                                                                                                     |  |                                                                                  |  |
| <b>II. DATUMS</b>                                       |  |                                                                                                                                                                                            |  |                                                                                                                                         |  |                                                                                  |  |
| 1. HORIZONTAL:                                          |  | <input checked="" type="checkbox"/> 1927 NORTH AMERICAN                                                                                                                                    |  | OTHER (Specify)                                                                                                                         |  |                                                                                  |  |
| 2. VERTICAL:                                            |  | <input checked="" type="checkbox"/> MEAN HIGH-WATER<br><input type="checkbox"/> MEAN LOW-WATER<br><input type="checkbox"/> MEAN LOWER LOW-WATER<br><input type="checkbox"/> MEAN SEA LEVEL |  | OTHER (Specify)                                                                                                                         |  |                                                                                  |  |
| 3. MAP PROJECTION<br>Lambert Conformal Conic Projection |  |                                                                                                                                                                                            |  | 4. GRID(S)                                                                                                                              |  |                                                                                  |  |
|                                                         |  |                                                                                                                                                                                            |  | STATE<br>Texas                                                                                                                          |  | ZONE<br>South Central                                                            |  |
| 5. SCALE<br>1:20,000                                    |  |                                                                                                                                                                                            |  | STATE                                                                                                                                   |  | ZONE                                                                             |  |
| <b>III. HISTORY OF OFFICE OPERATIONS</b>                |  |                                                                                                                                                                                            |  |                                                                                                                                         |  |                                                                                  |  |
| OPERATIONS                                              |  |                                                                                                                                                                                            |  | NAME                                                                                                                                    |  | DATE                                                                             |  |
| 1. AEROTRIANGULATION<br>METHOD: Analytical              |  |                                                                                                                                                                                            |  | BY Rick Johanson                                                                                                                        |  | 1/84                                                                             |  |
| LANDMARKS AND AIDS BY                                   |  |                                                                                                                                                                                            |  | Rick Johanson                                                                                                                           |  | 1/84                                                                             |  |
| 2. CONTROL AND BRIDGE POINTS<br>METHOD: Coradomat       |  |                                                                                                                                                                                            |  | PLOTTED BY Rick Johanson                                                                                                                |  | 1/84                                                                             |  |
|                                                         |  |                                                                                                                                                                                            |  | CHECKED BY N/A                                                                                                                          |  |                                                                                  |  |
| 3. STEREOSCOPIC INSTRUMENT<br>COMPILATION               |  |                                                                                                                                                                                            |  | PLANIMETRY BY Ted Doyle                                                                                                                 |  | 11/84                                                                            |  |
| INSTRUMENT: Wild B-8                                    |  |                                                                                                                                                                                            |  | CHECKED BY J. Schad                                                                                                                     |  | 11/84                                                                            |  |
| SCALE: 1:20,000                                         |  |                                                                                                                                                                                            |  | CONTOURS BY N/A                                                                                                                         |  |                                                                                  |  |
|                                                         |  |                                                                                                                                                                                            |  | CHECKED BY N/A                                                                                                                          |  |                                                                                  |  |
| 4. MANUSCRIPT DELINEATION                               |  |                                                                                                                                                                                            |  | PLANIMETRY BY Ted Doyle                                                                                                                 |  | 11/84                                                                            |  |
|                                                         |  |                                                                                                                                                                                            |  | CHECKED BY J. Schad                                                                                                                     |  | 11/84                                                                            |  |
| METHOD: Smooth Drafted                                  |  |                                                                                                                                                                                            |  | CONTOURS BY N/A                                                                                                                         |  |                                                                                  |  |
|                                                         |  |                                                                                                                                                                                            |  | CHECKED BY N/A                                                                                                                          |  |                                                                                  |  |
| SCALE: 1:20,000                                         |  |                                                                                                                                                                                            |  | HYDRO SUPPORT DATA BY N/A                                                                                                               |  |                                                                                  |  |
|                                                         |  |                                                                                                                                                                                            |  | CHECKED BY N/A                                                                                                                          |  |                                                                                  |  |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT                |  |                                                                                                                                                                                            |  | BY N/A                                                                                                                                  |  |                                                                                  |  |
| 6. APPLICATION OF FIELD EDIT DATA                       |  |                                                                                                                                                                                            |  | BY N/A                                                                                                                                  |  |                                                                                  |  |
|                                                         |  |                                                                                                                                                                                            |  | CHECKED BY N/A                                                                                                                          |  |                                                                                  |  |
| 7. COMPILATION SECTION REVIEW                           |  |                                                                                                                                                                                            |  | BY J. Schad                                                                                                                             |  | 11/84                                                                            |  |
| 8. FINAL REVIEW                                         |  |                                                                                                                                                                                            |  | BY E. Allen                                                                                                                             |  | 1/85                                                                             |  |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH             |  |                                                                                                                                                                                            |  | BY E. Allen                                                                                                                             |  | 4/85                                                                             |  |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH             |  |                                                                                                                                                                                            |  | BY J. Schad                                                                                                                             |  | 5/85                                                                             |  |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION             |  |                                                                                                                                                                                            |  | BY E. DAUGHERTY                                                                                                                         |  | MAY 1985                                                                         |  |

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## COMPILATION SOURCES

TP-01147

## 1. COMPILATION PHOTOGRAPHY

|                                                                                                                                                                   |          |                                                                                 |          |                                                |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|------------------------------------------------|----------------------------------------------|
| CAMERA(S) RC(E) F/L=(152.71 mm)<br>Wild -B-8                                                                                                                      |          | TYPES OF PHOTOGRAPHY<br>LEGEND                                                  |          | TIME REFERENCE                                 |                                              |
| TIDE STAGE REFERENCE                                                                                                                                              |          | (C) COLOR<br>(P) PANCHROMATIC<br>R <input checked="" type="checkbox"/> INFRARED |          | ZONE                                           | <input checked="" type="checkbox"/> STANDARD |
| <input checked="" type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |          |                                                                                 |          | MERIDIAN                                       | <input type="checkbox"/> DAYLIGHT            |
| NUMBER AND TYPE                                                                                                                                                   | DATE     | TIME                                                                            | SCALE    | STAGE OF TIDE                                  |                                              |
| 81 E(C) 5973-5977                                                                                                                                                 | 11/11/81 | 15:11                                                                           | 1:50,000 | 0.14 ft at Eagle Point                         |                                              |
| 81 E(C) 5963-5967                                                                                                                                                 | 11/11/81 | 14:57                                                                           | 1:50,000 | 1.4 ft at Texas City                           |                                              |
| 81 E(R) 5911-5815                                                                                                                                                 | 11/11/81 | 13:36                                                                           | 1:50,000 | 0.0 ft at Eagle Point<br>0.88 ft at Texas City |                                              |

REMARKS Based On predicted tides reference station Galveston Bay,  
Substations- Eagle Point, and Texas City

## 2. SOURCE OF MEAN HIGH-WATER LINE:

Photographs listed above

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The infrared photographs listed above.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
|               |         |                  |               |         |                  |

## 5. FINAL JUNCTIONS

|                   |             |              |             |
|-------------------|-------------|--------------|-------------|
| NORTH<br>TP-01146 | EAST<br>N/A | SOUTH<br>N/A | WEST<br>N/A |
|-------------------|-------------|--------------|-------------|

REMARKS

## HISTORY OF FIELD OPERATIONS.

TP-01147

1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION.

| OPERATION                                                                                                                                                                                               | NAME                                    | DATE                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------|
| 1. CHIEF OF FIELD PARTY                                                                                                                                                                                 |                                         |                         |
| 2. HORIZONTAL CONTROL<br>RECOVERED BY<br>ESTABLISHED BY<br><del>XXXXXXXXXX</del> IDENTIFIED BY                                                                                                          | R. S. Tibbets<br>R. S. Tibbets<br>N/A " | 10/3/81<br>10/3/81<br>" |
| 3. VERTICAL CONTROL<br>RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY                                                                                                                    | R. S. Tibbets<br>N/A<br>N/A             | 10/3/81<br><br>         |
| 4. LANDMARKS AND AIDS TO NAVIGATION<br>RECOVERED (Triangulation Stations) BY<br>LOCATED (Field Methods) BY<br>IDENTIFIED BY                                                                             | N/A<br>N/A<br>N/A                       |                         |
| 5. GEOGRAPHIC NAMES INVESTIGATION<br>TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input checked="" type="checkbox"/> NO INVESTIGATION | N/A                                     |                         |
| 6. PHOTO INSPECTION<br>CLARIFICATION OF DETAILS BY                                                                                                                                                      | N/A                                     |                         |
| 7. BOUNDARIES AND LIMITS<br>SURVEYED OR IDENTIFIED BY                                                                                                                                                   | N/A                                     |                         |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Photoidentified

2. VERTICAL CONTROL IDENTIFIED

N/A

| PHOTO NUMBER | STATION NAME                                                                     | PHOTO NUMBER | STATION DESIGNATION |
|--------------|----------------------------------------------------------------------------------|--------------|---------------------|
| 81 E(c)5974  | Texas City Municipal Tank<br>9th Ave and 14 th st. North 1960<br>Sub. Sta. A & B |              |                     |

3. PHOTO NUMBERS (Clarification of details)

N/A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

N/A

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
|              |             |              |             |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☐ NONE

7. SUPPLEMENTAL MAPS AND PLANS

NOA Form 76-36C (3-72) U.S. DEPARTMENT OF COMMERCE

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

One Field Book CM-8108 Houston Ship Channel Project Report and CSI cards

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

## RECORD OF SURVEY USE

TP-01147

## I. MANUSCRIPT COPIES

| COMPILATION STAGES |          |               | DATE MANUSCRIPT FORWARDED |               |
|--------------------|----------|---------------|---------------------------|---------------|
| DATA COMPILED      | DATE     | REMARKS       | MARINE CHARTS             | HYDRO SUPPORT |
| Final Reviewed Map | May 1985 | Class III Map | May 1985                  |               |
|                    |          |               |                           |               |
|                    |          |               |                           |               |
|                    |          |               |                           |               |

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER     | CHART LETTER<br>NUMBER ASSIGNED | DATE<br>FORWARDED | REMARKS                     |
|------------|---------------------------------|-------------------|-----------------------------|
| 5<br>Pages | NOAA Form 76-40                 | May 1985          | Nonfloating Aids/Landmarks  |
| 2<br>Pages | PLM's                           | May 1985          | Possible Landmarks Features |
|            |                                 |                   |                             |
|            |                                 |                   |                             |
|            |                                 |                   |                             |
|            |                                 |                   |                             |

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

|                   |                                 |                          |                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SECOND<br>EDITION | SURVEY NUMBER<br>TP - _____ (2) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                   | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |                                                                                                                                                                                                                                                         |
| THIRD<br>EDITION  | SURVEY NUMBER<br>TP - _____ (3) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                   | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |                                                                                                                                                                                                                                                         |
| FOURTH<br>EDITION | SURVEY NUMBER<br>TP - _____ (4) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                   | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |                                                                                                                                                                                                                                                         |



## SUMMARY

TP- 01147

This 1:20,000 scale final shoreline map is one of nine maps that comprise project CM-8108, Houston Ship Channel, Houston to Texas City, Texas.

The purpose of this survey is to provide data to be used in nautical chart maintenance and new chart construction.

Field operations consisted of aerial photography, and the recovery and establishment of horizontal control necessary for the aerotriangulation of the project.

Natural color photographs were used to complete this segment of survey. The 1:50,000 scale photographs were taken November 11, 1981, and October 15, 1982. The 1:30,000 scale photographs were taken November 5, 1982. The 1981 photographs were exposed with the Wild RC-8(E) camera and the 1982 photographs with the Wild RC-10(B) camera.

Compilation was performed by the Coastal Mapping Unit, Rockville, Maryland. Final review was conducted by personnel of the Coastal Mapping Unit.

## FIELD INSPECTION

TP-01147

There was no field inspection prior to compilation. Field work accomplished was limited to the taking of the color photographs and the recovery and establishment of horizontal control necessary for the aerotriangulation.



## Photogrammetric Plot Report

Houston Ship Channel, Texas

CM-8108

January 1984

21. Area Covered

This report pertains to six sheets, three 1:10,000 scale sheets, TP-01140 to TP-01142. Three 1:20,000 scale sheets, TP-01145 to TP-01147. The area covered is the shorelines of Houston Ship Channel, the west shore of Galveston Bay from Morgan Point to Virginia Point and the Clear Lake area.

22. Method

Five strips were bridged by analytical aerotriangulation methods. Strips four and five were bridged on the Wild STK and strips one, six, and seven were bridged on the NOSAP. Strip one is 1:30,000 scale and the other four strips are 1:50,000 scale. Field identified control and tie points were used for the strip adjustment. Ratio values were determined for the bridging photographs as well as 1:50,000 MLLW IR photography. State Plane Coordinates in the Texas, South Central Zone were used for the strip adjustments and for plotting on the Coradomat.

23. Adequacy of Control

The control was adequate for the job and was within the National Standards of Map Accuracy.

24. Supplemental Data

USGS quadrangles was used to provide vertical control for the strip adjustments.

25. Photography

The photography was adequate for the job.

Submitted by,

*Rick Johanson*

Rick Johanson

Approved and Forwarded:

*Don O. Norman*

Don O. Norman  
Chief, Aerotriangulation Unit

# Houston Ship Channel, Texas

CM-8101

Fit to Control  
X and Y in Feet

|      | <u>Name</u>                                                                |          | <u>Point No.</u> | <u>X</u> | <u>Y</u> |
|------|----------------------------------------------------------------------------|----------|------------------|----------|----------|
|      | <u>Strip 1</u>                                                             |          |                  |          |          |
| △    | 65 Rice, 1942                                                              | Sub Pt A | 484101           | 1.1      | -2.1     |
| △    |                                                                            | Sub Pt B | 484102           | -0.8     | 1.9      |
|      | 50 Fire, 1942                                                              | Sub Pt A | 489101           | 0.3      | 3.6      |
| △    |                                                                            | Sub Pt B | 489102           | -0.4     | -0.6     |
| △    |                                                                            | Sub Pt C | 489103           | -0.7     | 1.1      |
|      | 2 Galena Park<br>Water Tank 2<br>1968                                      |          | 490108           | 4.7      | 5.0      |
|      | 117 Houston Ethyle<br>Gas Corp<br>Water Tower, 1952                        | Sub Pt A | 492101           | 1.3      | 0.5      |
| △    |                                                                            | Sub Pt B | 492102           | -0.2     | -1.0     |
| △    |                                                                            |          | 494121           | 0.4      | -0.8     |
| 121A | Deer Park<br>Shell Refining<br>Co. Tallest Stack<br>1955                   |          |                  |          |          |
| 125  | San Jacinto Battle<br>Field Monument<br>1963                               |          | 965140           | 0.0      | 5.9      |
| 131  | Park, 1955                                                                 | Sub Pt A | 983101           | 0.8      | 1.5      |
| △    |                                                                            | Sub Pt C | 983103           | -0.4     | 0.1      |
|      | <u>Strip 6</u>                                                             |          |                  |          |          |
|      | 203 Texas City,<br>Municipal Tank<br>9th Ave. & 14th<br>Street North, 1960 |          |                  |          |          |
| △    |                                                                            | Sub Pt A | 974101           | 0.4      | 3.1      |
| △    |                                                                            | Sub Pt B | 974102           | 1.9      | 5.0      |
|      | 213 Nass., 1933                                                            |          |                  |          |          |
| △    |                                                                            | Sub Pt A | 970101           | 4.3      | 2.4      |
| △    |                                                                            | Sub Pt B | 970102           | 4.4      | 1.4      |

|   | <u>Name</u>      | <u>Point No.</u> | <u>X</u> | <u>Y</u> |
|---|------------------|------------------|----------|----------|
| △ | Tie from Strip 4 | 963802           | -0.2     | -1.5     |
| △ | " " " "          | 964801           | -1.1     | -0.1     |
| △ | " " " "          | 964802           | 0.4      | -2.0     |
| △ | " " " "          | 965801           | -1.8     | 2.4      |
| △ | " " " "          | 965802           | 1.8      | 2.0      |
| △ | " " " "          | 966801           | 0.7      | -1.8     |
| △ | " " " "          | 966802           | 2.6      | -1.9     |
| △ | " " " "          | 967801           | -2.2     | -3.2     |
| △ | " " " "          | 967802           | -1.6     | -3.1     |
| △ | " " " "          | 968801           | -1.7     | 0.0      |
| △ | " " " "          | 968802           | -4.2     | -3.1     |
| △ | " " " "          | 969801           | -2.5     | -1.4     |
| △ | Tie from Strip 4 | 969802           | -1.0     | 1.6      |

Strip 7

|   |                  |        |      |      |
|---|------------------|--------|------|------|
| △ | Tie from Strip 6 | 498801 | 0.1  | 1.5  |
| △ | " " " "          | 498802 | 0.2  | -1.0 |
| △ | " " " "          | 498803 | 0.3  | -1.0 |
| △ | " " " "          | 498804 | -0.6 | 0.8  |
| △ | " " " "          | 498805 | 0.2  | 0.1  |
| △ | Tie from Strip 6 | 498806 | -0.2 | 0.0  |

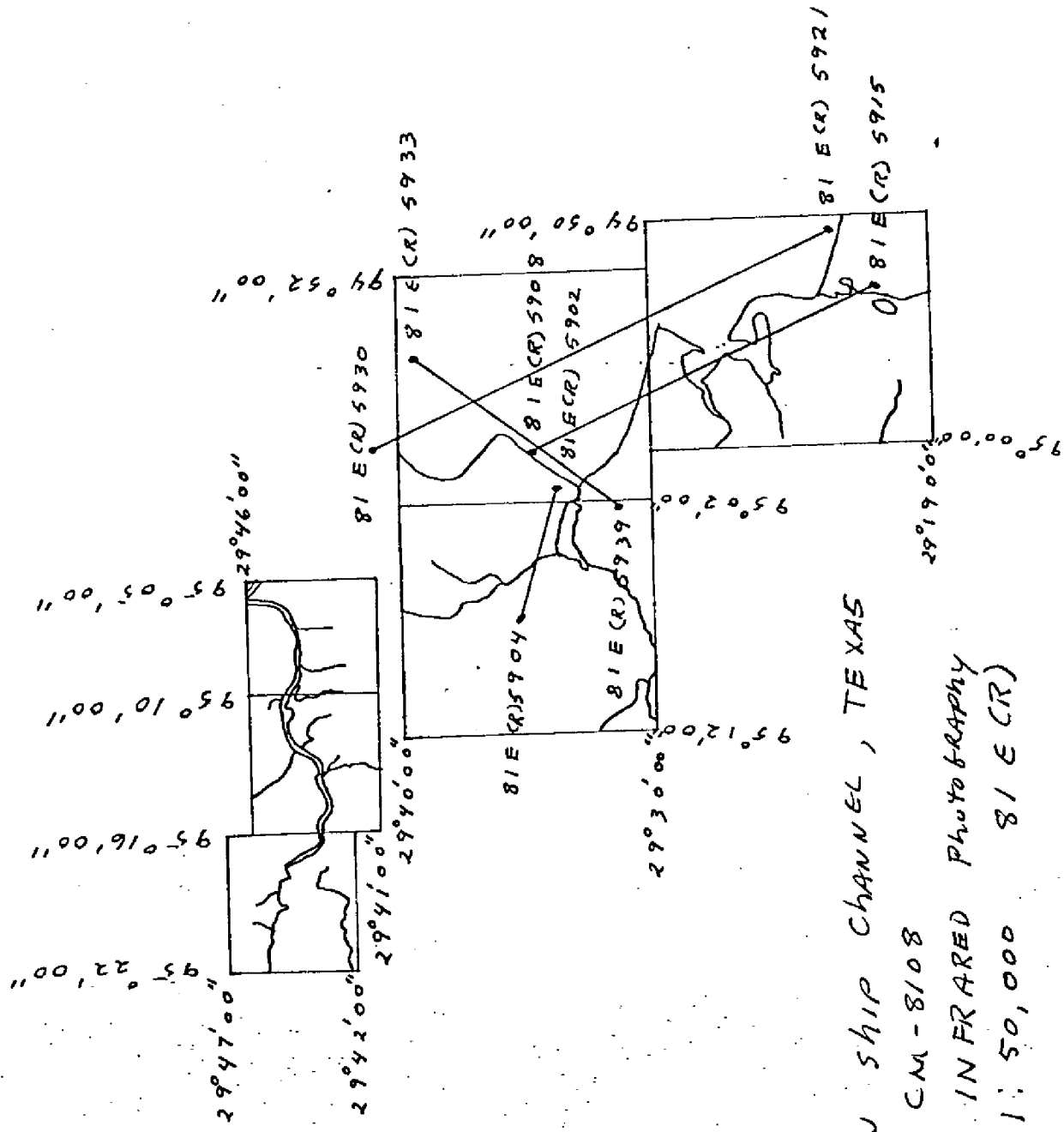
//

| <u>NAME</u>                                | <u>POINT NO.</u> | <u>X</u> | <u>Y</u> |
|--------------------------------------------|------------------|----------|----------|
| <u>Strip #4</u> 1:50,000 scale photography |                  |          |          |
| △ Nass, 1933 Sub Point A                   | 970101           | -0.7     | -0.1     |
| Sub Point B                                | 970102           | 8.3      | 2.7      |
| Texas City Municipal Tank 9th              |                  |          |          |
| Ave. & 14th St., North 1960                | 974100           | 4.2      | 2.3      |
| △ Sub Point A                              | 974102           | 3.2      | 2.0      |
| Sub Point B                                | 974102           | 3.1      | 3.5      |
| △ Hanson, 1933 Sub Point A                 | 978101           | -7.5     | -2.2     |
| Sub Point B                                | 978102           | -11.7    | 3.2      |
| Tie from Strip 5                           | 941801           | 1.4      | -3.7     |
| " " " "                                    | 941802           | 1.3      | -3.6     |
| " " " "                                    | 941803           | -1.1     | .0       |
| " " " "                                    | 941804           | -1.8     | .0       |
| La Porte St. Marys Church Cross            |                  |          |          |
| 1932                                       | 981100           | 3.4      | -2.4     |
| △ Sub Point A                              | 981101           | 2.5      | -2.0     |
| △ Sub Point B                              | 981102           | 3.8      | 2.5      |
| Park, 1955 Sub Point A                     | 983101           | -0.6     | -0.2     |
| Sub Point B                                | 983102           | -0.7     | 4.7      |
| △ Sub Point C                              | 983103           | -0.8     | 0.5      |
| Sheldon, Southland Paper Mill Inc.         |                  |          |          |
| Stack, 1968                                |                  |          |          |
| △ Sub Point A                              | 987101           | -2.4     | -2.4     |
| Sub Point B                                | 987102           | 0.2      | 1.9      |
| △ Sub Point C                              | 987103           | 1.8      | 1.8      |

Strip #5 1:50,000 scale photography

|   | <u>NAME</u>                     | <u>POINT NO.</u> | <u>X</u> | <u>Y</u> |
|---|---------------------------------|------------------|----------|----------|
|   | Barrow 2, 1963 Sub Point A      | 936102           | -0.8     | -0.9     |
| △ | Sub Point B                     | 936103           | 0.2      | 0.2      |
| △ | Tie from Strip 4                | 941801           | -0.5     | 1.2      |
| △ | " " " "                         | 941802           | -0.3     | 1.0      |
|   | La Porte St. Marys Church Cross |                  |          |          |
|   | 1932                            | 981100           | -8.1     | -3.1     |
| △ | Sub Point A                     | 981101           | 0.8      | -2.3     |
|   | Sub Point B                     | 981102           | 0.8      | 4.2      |
|   | Tie from Strip 4                | 941803           | 1.8      | -2.6     |
|   | " " " "                         | 941804           | 2.4      | -2.7     |
| △ | Whitcomb, 1968 Sub Point A      | 945101           | -0.1     | -0.1     |
|   | Sub Point B                     | 945102           | 0.1      | 1.1      |
|   | Sub Point C                     | 945103           | 2.2      | -1.6     |





HOUSTON SHIP CHANNEL, TEXAS

CM-8108

MALL W INFRARED PHOTOGRAPHY

1:50,000 81 E(R)

Houston Ship Channel, Texas

CM-8108

January 1984

Ratio values for 1:50,000 scale bridging photography:

|                   |         |
|-------------------|---------|
| 81 E(C) 5970-5987 | X 2.531 |
| 82 B(C) 8936-8946 | X 2.492 |
| 81 E(C) 5962-5969 | X 2.538 |
| 81 E(C) 5948-5950 | X 2.530 |

Ratio values for 1:30,000 scale bridging photography:

|                   |          |
|-------------------|----------|
| 82 E(C) 8484-8496 | X 3.1005 |
|-------------------|----------|

Ratio values for 1:50,000 scale MLLW black-and-white infrared photography:

|                   |         |
|-------------------|---------|
| 81 E(R) 5902-5904 | X 2.526 |
| 81 E(R) 5909-5915 | X 2.526 |
| 81 E(R) 5921-5930 | X 2.532 |
| 81 E(R) 5933-5939 | X 2.528 |



## DESCRIPTIVE REPORT CONTROL RECORD

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

| MAP NO.                                                        | STATION NAME                              | JOB NO.             | CM-8108                  | GEODETTIC DATUM     |               | ORIGINATING ACTIVITY |  |
|----------------------------------------------------------------|-------------------------------------------|---------------------|--------------------------|---------------------|---------------|----------------------|--|
|                                                                |                                           |                     |                          | NA 1927             | Rockville, MD |                      |  |
| SOURCE OF INFORMATION<br>(Index)                               | AEROTRI-<br>ANGULATION<br>POINT<br>NUMBER | COORDINATES IN FEET |                          | GEOGRAPHIC POSITION |               | REMARKS              |  |
|                                                                |                                           | STATE               | ZONE                     | φ LATITUDE          | λ LONGITUDE   |                      |  |
| Dickinson Bayou<br>Channel LTZ 1963                            | Quad<br>290943<br>STA 1054                | 196                 | x= 3 305 296.79          | φ                   | 29 27 45.058  |                      |  |
|                                                                |                                           |                     | y= 615 251.54            | λ                   | 94 53 49.820  |                      |  |
| Dickinson Bayou<br>Channel LT 14 1963                          | Quad<br>290943<br>STA 1055                | 195                 | x= 3 297 800.23          | φ                   | 29 27 24.389  |                      |  |
|                                                                |                                           |                     | y= 612 900.45            | λ                   | 94 55 15.506  |                      |  |
| Texas City Channel<br>Cut C Range Front<br>Light 1963          | Quad<br>290943<br>STA 1110                | 205A                | x= 3 312 371.08          | φ                   | 29 23 01.845  |                      |  |
|                                                                |                                           |                     | y= 586 878.69            | λ                   | 94 52 41.147  |                      |  |
| Texas City Channel<br>Cut Range Rear<br>Light 1963             | Quad<br>290943<br>STA 1111                | 205B                | x= 3 313 114.14          | φ                   | 29 23 08.317  |                      |  |
|                                                                |                                           |                     | y= 587 559.01            | λ                   | 94 52 32.481  |                      |  |
| Texas City Channel<br>Cut B Inner Range<br>Front Light 1963    | Quad<br>290943<br>STA 1106                | 205                 | x= 3 310 330.61          | φ                   | 29 22 53.947  |                      |  |
|                                                                |                                           |                     | y= 586 008.64            | λ                   | 94 53 04.545  |                      |  |
| Texas City Channel<br>Cut B Inner Range<br>Rear Light 1963     | Quad<br>290943<br>STA 1107                | 204A                | x= 3 307 606.95          | φ                   | 29 23 01.182  |                      |  |
|                                                                |                                           |                     | y= 586 644.62            | λ                   | 94 53 35.063  |                      |  |
| Texas City Municipal<br>Tank, 9th Ave & 14th St.<br>North 1960 | Quad<br>290943<br>STA 1113                | 203                 | x= 3 300 746.90          | φ                   | 29 23 31.909  |                      |  |
|                                                                |                                           |                     | y= 589 508.89            | λ                   | 94 54 51.434  |                      |  |
| Texas City WAH<br>Chang Corp Stack<br>1960                     | Quad<br>290943<br>STA 1117                | 206                 | x= 3 292 477.46          | φ                   | 29 21 26.654  |                      |  |
|                                                                |                                           |                     | y= 576 562.79            | λ                   | 94 56 29.946  |                      |  |
|                                                                |                                           |                     | x=                       | φ                   |               |                      |  |
|                                                                |                                           |                     | y=                       | λ                   |               |                      |  |
|                                                                |                                           |                     | x=                       | φ                   |               |                      |  |
|                                                                |                                           |                     | y=                       | λ                   |               |                      |  |
| COMPUTED BY                                                    |                                           | DATE                | COMPUTATION CHECKED BY   |                     |               | DATE                 |  |
| LISTED BY                                                      |                                           | DATE                | LISTING CHECKED BY       |                     |               | DATE                 |  |
| HAND PLOTTING BY                                               |                                           | DATE                | HAND PLOTTING CHECKED BY |                     |               | DATE                 |  |

COMPILATION REPORT  
Job CM-8108  
TP-01147

31. Delineation

Delineation was accomplished using the Wild B-8 stereoplotter and is based on office interpretation of the bridged natural color photographs. Ratio photographs were used as an aid in interpreting and verifying the compilation.

The Mean Lower Low Water limits were delineated from ratio infrared photographs.

32. Control

Horizontal control was furnished by the Aerotriangulation Unit and was adequate in controlling the stereomodels.

Vertical control used in leveling the stereomodels was taken from USGS quadrangles.

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable to this manuscript. Drainage was delineated from stereomodels set on the Wild B-8 by office interpretation of the bridging photographs.

35. Shoreline and Alongshore Detail

All shoreline and alongshore detail was compiled using the Wild B-8 stereoplotter. No field edit will be done on this manuscript.

36. Offshore Detail

Numerous offshore wells, pipeline obstructions, platforms, and dolphins were located using the natural color photographs.

37. Landmarks and Aids

Two landmarks and 16 aids to navigation were located by Aerotriangulation Unit and verified by Compilation Unit. Six landmarks, 12 aids to navigation and 14 possible landmark features were located by Compilation Unit.

38. Control for Future Survey - None

39. Junctions

See attached form 76-36B, item 5 of the Descriptive Report.

40. Horizontal and Vertical Control

This map meets the National Standards of Map Accuracy and the requirements specified in the project instructions.

41. through 45. Not Applicable

46. Comparison with Existing Maps

A comparison was made with the following 1:20,000 scale U.S. Geological Survey quadrangle:

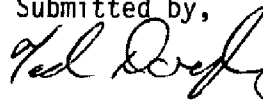
Texas City, Texas, 1954 (photorevised 1969 and 1974)  
Virginia Point, Texas, 1954 (photorevised 1969 and 1974)

47. Comparison with Existing Charts

A comparison was made with the following National Ocean Service Charts:

11322, 16th Edition, September 25, 1982, 1:40,000 scale  
11323, 44th Edition, April 25, 1981, 1:80,000 scale  
11324, 19th Edition, November 21, 1981, 1:25,000 scale  
11325, 16th Edition, September 25, 1982, 1:25,000 scale  
11326, 18th Edition, June 1981, 1:80,000, scale  
11327, 18th Edition, September 19, 1981, 1:25,000 scale

Submitted by,



Ted Doyle

Approved and Forwarded:



Chief, Coastal Mapping Unit

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

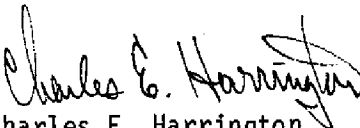
CM-8108 (Texas City, Texas)

TP-01147

April Fool Point  
Atchison Topeka & Santa Fe (RY)  
Cat Point  
Dickinson Bay  
Dickinson Bayou  
Dollar Bay  
Dollar Point  
Eagle Point  
Edwards Point  
Factory Bayou  
Galveston Bay  
Highland Bayou  
La Marque

Moses Bayou  
Moses Lake  
Salt Bayou  
San Leon  
Snake Island  
Southern Pacific (RR)  
Swan Lake  
Texas City  
Texas City Canal  
Texas City Junction  
Texas City Terminal (RY)  
Texas City Terminal Junction

Approved by:

  
Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

REVIEW REPORT  
SHORELINE SURVEY

TP-01147

61. GENERAL STATEMENT

A final review was performed for this shoreline map. No major discrepancies were encountered. Refer to the summary bound with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS - None.63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

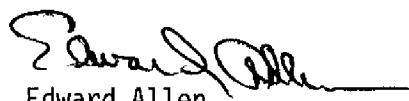
64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS - None.65. COMPARISON WITH NAUTICAL CHARTS

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

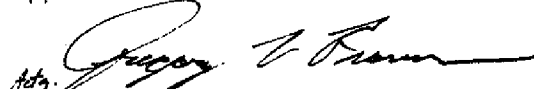
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

  
Edward Allen  
Cartographer

Approved and Forwarded:

  
Chief, Photogrammetric Section  
Chief, Photogrammetry Branch



| NOAA FORM 76-40<br>(8-74)<br>Replaces C&GS Form 567.                                                                                                                |  |                                                                                                                                                     |  | U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION |       |                                    |       | NONFLOATING AIDS OR LANDMARKS FOR CHARTS |          |                                                                                                                                                                                                                                                                                                                                                                                                 |        | ORIGINATING ACTIVITY |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|-------|------------------------------------|-------|------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------|--|--|--|
| TO BE CHARTED<br><input checked="" type="checkbox"/> TO BE REVISED<br><input type="checkbox"/> TO BE DELETED                                                        |  | REPORTING UNIT<br>(Field Party, Ship or Office)                                                                                                     |  | STATE                                                                          |       | LOCALITY                           |       | DATE                                     |          | <input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> PHOTO FIELD PARTY<br><input checked="" type="checkbox"/> COMPILATION ACTIVITY<br><input type="checkbox"/> FINAL REVIEWER<br><input type="checkbox"/> QUALITY CONTROL & REVIEW GRP.<br><input type="checkbox"/> COAST PILOT BRANCH<br>(See reverse for responsible personnel) |        |                      |  |  |  |
| The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks. |  | JOB NUMBER                                                                                                                                          |  | SURVEY NUMBER                                                                  |       | DATUM                              |       | POSITION                                 |          | METHOD AND DATE OF LOCATION<br>(See instructions on reverse side)                                                                                                                                                                                                                                                                                                                               |        | CHARTS<br>AFFECTED   |  |  |  |
| CHARTING<br>NAME                                                                                                                                                    |  | DESCRIPTION<br>(Record reason for deletion of landmark or aid to navigation.<br>Show triangulation station names, where applicable, in parentheses) |  | LATITUDE<br>° / ' / " D.M. Meters                                              |       | LONGITUDE<br>° / ' / " D.P. Meters |       | OFFICE                                   |          | Position<br>- # HELD -<br>Quality                                                                                                                                                                                                                                                                                                                                                               |        | CHARTS<br>AFFECTED   |  |  |  |
| HOUSTON SHIP CHANNEL                                                                                                                                                |  |                                                                                                                                                     |  |                                                                                |       |                                    |       |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                 |        |                      |  |  |  |
| - LT 39                                                                                                                                                             |  |                                                                                                                                                     |  | 29 25                                                                          | 47.92 | 94 50                              | 06.23 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 948539 | 11327                |  |  |  |
| - LT 43                                                                                                                                                             |  |                                                                                                                                                     |  | 29 26                                                                          | 57.66 | 94 50                              | 41.05 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 948543 | 11327                |  |  |  |
| - LT 44                                                                                                                                                             |  |                                                                                                                                                     |  | 29 27                                                                          | 02.90 | 94 50                              | 33.79 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 949544 | 11327                |  |  |  |
| - LT 47                                                                                                                                                             |  | - PIPELINE MARKER LT 47                                                                                                                             |  | 29 27                                                                          | 49.16 | 94 51                              | 11.75 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 948547 | 11327                |  |  |  |
| - LT 48                                                                                                                                                             |  | - PIPELINE MARKER LT 48                                                                                                                             |  | 29 27                                                                          | 57.08 | 94 50                              | 50.79 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 949548 | 11327                |  |  |  |
| - LT 50                                                                                                                                                             |  |                                                                                                                                                     |  | 29 28                                                                          | 14.59 | 94 51                              | 09.71 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 949550 | 11327                |  |  |  |
| - LT 51A                                                                                                                                                            |  | - PIPELINE MARKER LT 51A                                                                                                                            |  | 29 29                                                                          | 12.78 | 94 51                              | 54.41 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 950551 | 11327                |  |  |  |
| - LT 52A                                                                                                                                                            |  | - PIPELINE MARKER LT 52A                                                                                                                            |  | 29 29                                                                          | 18.31 | 94 51                              | 36.34 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 950552 | 11327                |  |  |  |
| - LT 53                                                                                                                                                             |  |                                                                                                                                                     |  | 29 29                                                                          | 35.33 | 94 52                              | 00.59 | 81 E(C) 5964                             | 11-11-81 | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 950553 | 11327                |  |  |  |

| RESPONSIBLE PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE OF ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OBJECTS INSPECTED FROM SEAWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <div>ORIGINATOR</div> <input type="checkbox"/> PHOTO FIELD PARTY<br><input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> OTHER (Specify)                                                                                                                                                                                                                                                                               |
| POSITIONS DETERMINED AND/OR VERIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FIELD ACTIVITY REPRESENTATIVE                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div>OFFICE ACTIVITY REPRESENTATIVE</div> <input type="checkbox"/> REVIEWER<br><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE                                                                                                                                                                                                                                                                                                                              |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'<br>(Consult Photogrammetric Instructions No. 64,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <div>OFFICE</div> <p><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br/>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br/>EXAMPLE: 75E(C)6042<br/>8-12-75</p>                                                                                                                                                                                                                                                                                                                                                                                         | <div>FIELD (Cont'd)</div> <p><b>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b><br/>EXAMPLE: P-8-V<br/>8-12-75<br/>74L(C)2982</p>                                                                                                                                                                                                               |
| <div>FIELD</div> <p><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br/>Enter the applicable data by symbols as follows:<br/>F - Field<br/>P - Photogrammetric<br/>L - Located<br/>V - Visually<br/>V - Verified<br/>1 - Triangulation<br/>2 - Traverse<br/>3 - Intersection<br/>4 - Resection<br/>5 - Field identified<br/>6 - Theodolite<br/>7 - Planetable<br/>8 - Sextant</p> <p><b>A. Field positions* require entry of method of location and date of field work.</b><br/>EXAMPLE: F-2-6-L<br/>8-12-75</p> <p><b>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b></p> | <p><b>II. TRIANGULATION STATION RECOVERED</b><br/>When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.<br/>EXAMPLE: Triang. Rec.<br/>8-12-75</p> <p><b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br/>Enter 'V-Vis.' and date.<br/>EXAMPLE: V-Vis.<br/>8-12-75</p> <p><b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b></p> |



| NOAA FORM 76-40<br>(8-74)<br>Replaces C&GS Form 567.                                                         |                                         |                                                                                                                                                      |        | U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION |        |                     |  | NONFLOATING AIDS OR LANDMARKS FOR CHARTS                          |                            |                                                                   |       | ORIGINATING ACTIVITY                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------|--------|---------------------|--|-------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| REPORTING UNIT<br>(Field Party, Ship or Office)                                                              |                                         | STATE                                                                                                                                                |        | LOCALITY                                                                       |        | DATE                |  | METHOD AND DATE OF LOCATION<br>(See instructions on reverse side) |                            | CHARTS<br>AFFECTED                                                |       | ORIGINATING ACTIVITY                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| TO BE CHARTED<br><input type="checkbox"/> TO BE REVISED<br><input checked="" type="checkbox"/> TO BE DELETED |                                         | Rockville, MD                                                                                                                                        |        | Texas                                                                          |        | Galveston Bay       |  | 12/84                                                             |                            |                                                                   |       | <input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> PHOTO FIELD PARTY<br><input checked="" type="checkbox"/> COMPILATION ACTIVITY<br><input type="checkbox"/> FINAL REVIEWER<br><input type="checkbox"/> QUALITY CONTROL & REVIEW GRP.<br><input type="checkbox"/> COAST PILOT BRANCH<br>(See reverse for responsible personnel) |  |  |  |
| OPR PROJECT NO.                                                                                              |                                         | JOB NUMBER                                                                                                                                           |        | SURVEY NUMBER                                                                  |        | DATUM               |  | POSITION                                                          |                            | METHOD AND DATE OF LOCATION<br>(See instructions on reverse side) |       | CHARTS<br>AFFECTED                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| CHARTING<br>NAME                                                                                             |                                         | DESCRIPTION<br>(Record reason for deletion of landmark or aid to navigation.<br>Show triangulation station names, where applicable, in parentheses.) |        | LATITUDE                                                                       |        | LONGITUDE           |  | OFFICE                                                            |                            | FIELD                                                             |       | CHARTS<br>AFFECTED                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                              |                                         |                                                                                                                                                      |        | ° / ' " D.M. Meters                                                            |        | ° / ' " D.P. Meters |  |                                                                   |                            |                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| Light                                                                                                        | Red Fish Bar Outer<br>Range Front Light | 29 28                                                                                                                                                | 54.97  | 94 51                                                                          | 23.12  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Aerotriangulated<br>949502 |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| Light                                                                                                        | Red Fish Bar Outer<br>Range Rear Light  | 29 28                                                                                                                                                | 15.53  | 94 50                                                                          | 52.72  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Aerotriangulated<br>949501 |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| -LT 54                                                                                                       |                                         | 29 29                                                                                                                                                | 40.03  | 94 51                                                                          | 52.54  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Aerotriangulated<br>950554 |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                              | DICKINSON BAYOU                         |                                                                                                                                                      |        |                                                                                |        |                     |  |                                                                   |                            |                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| -LT 4                                                                                                        | DICKINSON BAYOU CHANNEL<br>LT 2 1963    | 29 27                                                                                                                                                | 45.058 | 94 53                                                                          | 49.82  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Geodetic<br>Position       |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| -LT 14                                                                                                       | DICKINSON BAYOU CHANNEL<br>LT 14 1963   | 29 27                                                                                                                                                | 24.389 | 94 55                                                                          | 15.506 |                     |  | 81 E(C) 5964<br>11-11-81                                          | Geodetic<br>Position       |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| -LT A                                                                                                        |                                         | 29 27                                                                                                                                                | 34.32  | 94 55                                                                          | 41.15  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Aerotriangulated<br>950503 |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| -LT B                                                                                                        |                                         | 29 27                                                                                                                                                | 32.85  | 94 55                                                                          | 45.56  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Aerotriangulated<br>950504 |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| -LT 27                                                                                                       |                                         | 29 28                                                                                                                                                | 05.14  | 94 57                                                                          | 03.89  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Manually<br>Digitized      |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| LT WRI                                                                                                       | Eagle Point Wreck Light<br>WRI          | 29 29                                                                                                                                                | 14.20  | 94 53                                                                          | 34.73  |                     |  | 81 E(C) 5964<br>11-11-81                                          | Manually<br>Digitized      |                                                                   | 11327 |                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |



| RESPONSIBLE PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE OF ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OBJECTS INSPECTED FROM SEAWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| POSITIONS DETERMINED AND/OR VERIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p align="center"><b>INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'</b><br/>(Consult Photogrammetric Instructions No. 64,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>OFFICE</b></p> <p><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br/>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br/>EXAMPLE: 75E(C)6042<br/>8-12-75</p>                                                                                                                                                                                                                                                                                                                                                | <p><b>FIELD (Cont'd)</b></p> <p><b>8. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b><br/>EXAMPLE: P-8-V<br/>8-12-75<br/>74L(C)2982</p>                                                                                                                                                                                                            |
| <p><b>FIELD</b></p> <p><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br/>Enter the applicable data by symbols as follows:<br/>F - Field<br/>L - Located<br/>V - Verified<br/>1 - Triangulation<br/>2 - Traverse<br/>3 - Intersection<br/>4 - Resection<br/>5 - Field identified<br/>6 - Theodolite<br/>7 - Planetable<br/>8 - Sextant</p> <p><b>A. Field positions* require entry of method of location and date of field work.</b><br/>EXAMPLE: F-2-6-L<br/>8-12-75</p> <p><b>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b></p> | <p><b>II. TRIANGULATION STATION RECOVERED</b><br/>When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.<br/>EXAMPLE: Triang. Rec.<br/>8-12-75</p> <p><b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br/>Enter 'V-Vls.' and date.<br/>EXAMPLE: V-Vls.<br/>8-12-75</p> <p><b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b></p> |

| NOAA FORM 76-40<br>(8-74)<br>Replaces C&GS Form 567.                                                                                                                |  |                                                                                                                                                      |                                                          | U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION |        |                                  |        | NONFLOATING AIDS OR LANDMARKS FOR CHARTS                          |              |                    |                       | ORIGINATING ACTIVITY                                                                                                                                                                                                                                                                                                                                                                            |       |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|--------|----------------------------------|--------|-------------------------------------------------------------------|--------------|--------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|
| REPORTING UNIT<br>(Field Party, Ship or Office)                                                                                                                     |  | STATE                                                                                                                                                |                                                          | LOCALITY                                                                       |        | DATE                             |        | METHOD AND DATE OF LOCATION<br>(See instructions on reverse side) |              | CHARTS<br>AFFECTED |                       | ORIGINATING ACTIVITY                                                                                                                                                                                                                                                                                                                                                                            |       |  |  |
| TO BE CHARTED<br><input type="checkbox"/> TO BE REVISED<br><input checked="" type="checkbox"/> TO BE DELETED                                                        |  | Rockville, MD                                                                                                                                        |                                                          | Texas                                                                          |        | Galveston Bay                    |        | 12/84                                                             |              |                    |                       | <input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> PHOTO FIELD PARTY<br><input checked="" type="checkbox"/> COMPILATION ACTIVITY<br><input type="checkbox"/> FINAL REVIEWER<br><input type="checkbox"/> QUALITY CONTROL & REVIEW GRP.<br><input type="checkbox"/> COAST PILOT BRANCH<br>(See reverse for responsible personnel) |       |  |  |
| The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks. |  | JOB NUMBER                                                                                                                                           |                                                          | SURVEY NUMBER                                                                  |        | DATUM                            |        | POSITION                                                          |              | OFFICE             |                       | Position<br>-4540-<br>Quality                                                                                                                                                                                                                                                                                                                                                                   |       |  |  |
| CHARTING<br>NAME                                                                                                                                                    |  | DESCRIPTION<br>(Record reason for deletion of landmark or aid to navigation.<br>Show triangulation station names, where applicable, in parentheses.) |                                                          | LATITUDE<br>° / ' " D.M. Meters                                                |        | LONGITUDE<br>° / ' " D.P. Meters |        | POSITION                                                          |              | OFFICE             |                       | Position<br>-4540-<br>Quality                                                                                                                                                                                                                                                                                                                                                                   |       |  |  |
|                                                                                                                                                                     |  |                                                                                                                                                      | Cedar Bayou Channel                                      |                                                                                |        |                                  |        |                                                                   |              |                    |                       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |  |  |
| - LT F                                                                                                                                                              |  |                                                                                                                                                      | - PIPELINE MARKER LIGHT F                                | 29 28                                                                          | 40.62  | 94 53                            | 08.75  |                                                                   | 81 E(C) 5964 | 11-11-81           | 950501                | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 11327 |  |  |
| - LT G                                                                                                                                                              |  |                                                                                                                                                      | - PIPELINE MARKER LIGHT G                                | 29 28                                                                          | 02.05  | 94 54                            | 36.71  |                                                                   | 81 E(C) 5964 | 11-11-81           | 950502                | Aerotriangulated                                                                                                                                                                                                                                                                                                                                                                                | 11327 |  |  |
|                                                                                                                                                                     |  |                                                                                                                                                      | Texas City Channel                                       |                                                                                |        |                                  |        |                                                                   |              |                    |                       |                                                                                                                                                                                                                                                                                                                                                                                                 |       |  |  |
| - LIGHT                                                                                                                                                             |  |                                                                                                                                                      | - Cut A Inner Range Front Light                          | 29 22                                                                          | 18.74  | 94 50                            | 14.03  |                                                                   | 81 E(C) 5966 | 11-11-81           | Manually Digitized 16 | 11324                                                                                                                                                                                                                                                                                                                                                                                           |       |  |  |
| - LIGHT                                                                                                                                                             |  |                                                                                                                                                      | - Cut A Inner Range Rear Light                           | 29 22                                                                          | 33.81  | 94 50                            | 49.60  |                                                                   | 81 E(C) 5966 | 11-11-81           | Manually Digitized 14 | 11324                                                                                                                                                                                                                                                                                                                                                                                           |       |  |  |
| - LIGHT                                                                                                                                                             |  |                                                                                                                                                      | Texas City Channel<br>Cut C Range Front Light 1963       | 29 23                                                                          | 01.845 | 94 52                            | 41.147 |                                                                   | 81 E(C) 5966 | 11-11-81           | Geodetic Postion 205A | 11324                                                                                                                                                                                                                                                                                                                                                                                           |       |  |  |
| - LIGHT                                                                                                                                                             |  |                                                                                                                                                      | Texas City Channel<br>Cut C RANGE REAR LIGHT 1963        | 29 23                                                                          | 08.317 | 94 52                            | 32.48  |                                                                   | 81 E(C) 5966 | 11-11-81           | Geodetic Postion 205B | 11324                                                                                                                                                                                                                                                                                                                                                                                           |       |  |  |
| - LIGHT                                                                                                                                                             |  |                                                                                                                                                      | Texas City Channel<br>Cut B Inner Range Front Light 1963 | 29 22                                                                          | 53.947 | 94 53                            | 04.545 |                                                                   | 81 E(C) 5966 | 11-11-81           | Geodetic Postion 205  | 11324                                                                                                                                                                                                                                                                                                                                                                                           |       |  |  |
| - LIGHT                                                                                                                                                             |  |                                                                                                                                                      | Texas City Channel<br>Cut B Inner Range Rear Light 1963  | 29 23                                                                          | 01.182 | 94 53                            | 35.063 |                                                                   | 81 E(C) 5966 | 11-11-81           | Geodetic Position 204 | 11324                                                                                                                                                                                                                                                                                                                                                                                           |       |  |  |

| RESPONSIBLE PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | ORIGINATOR                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE OF ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NAME | <input type="checkbox"/> PHOTO FIELD PARTY<br><input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> OTHER (Specify) |
| OBJECTS INSPECTED FROM SEAWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                  |
| POSITIONS DETERMINED AND/OR VERIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | FIELD ACTIVITY REPRESENTATIVE                                                                                                                                                    |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | <input type="checkbox"/> REVIEWER<br><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE                                                                    |
| <b>INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'</b><br>(Consult Photogrammetric Instructions No. 64, Form 76-40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                                                                                                                                                  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>OFFICE</b></p> <p><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br/>           Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br/>           EXAMPLE: 75E(C)6042 8-12-75</p> </div> <div style="width: 45%;"> <p><b>FIELD (Cont'd)</b></p> <p><b>B. Photogrammetric field positions** require</b><br/>           entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.<br/>           EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                                                                                                                                  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>FIELD</b></p> <p><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br/>           Enter the applicable data by symbols as follows:<br/>           F - Field<br/>           L - Located<br/>           V - Verified<br/>           1 - Triangulation<br/>           2 - Traverse<br/>           3 - Intersection<br/>           4 - Resection</p> <p>A. Field positions* require entry of method of location and date of field work.<br/>           EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p> </div> <div style="width: 45%;"> <p><b>II. TRIANGULATION STATION RECOVERED</b><br/>           When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.<br/>           EXAMPLE: Triang. Rec. 8-12-75</p> <p><b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br/>           Enter 'V-Vis.' and date.<br/>           EXAMPLE: V-Vis. 8-12-75</p> <p><b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b></p> </div> </div> |      |                                                                                                                                                                                  |

Replaces C&amp;GS Form 567.

~~NAVIGATION AIDS OR~~ LANDMARKS FOR CHARTSU.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

## ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY  
☐ GEODETIC PARTY  
☐ PHOTO FIELD PARTY  
☒ COMPILATION ACTIVITY  
☐ FINAL REVIEWER  
☐ QUALITY CONTROL & REVIEW GRP.  
☐ COAST PILOT BRANCH  
(See reverse for responsible personnel)

REPORTING UNIT  
(Field Party, Ship or Office)

Rockville, MD

STATE

Texas

LOCALITY

Galveston Bay

DATE

12/84

The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

CM-8108

TP-01147

NA 1927

| CHARTING NAME |                                                      | DESCRIPTION<br><i>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)</i> |  | POSITION |                   |           |                   | METHOD AND DATE OF LOCATION<br><i>(See instructions on reverse side)</i> |                            |                        |  | CHARTS AFFECTED |  |
|---------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|-------------------|-----------|-------------------|--------------------------------------------------------------------------|----------------------------|------------------------|--|-----------------|--|
|               |                                                      |                                                                                                                                                          |  | LATITUDE |                   | LONGITUDE |                   | OFFICE                                                                   |                            | Position FIELD Quality |  |                 |  |
|               |                                                      |                                                                                                                                                          |  | ° /      | //<br>D.M. Meters | ° /       | //<br>D.P. Meters |                                                                          |                            |                        |  |                 |  |
| R TR          | R TR (KTLW)                                          |                                                                                                                                                          |  | 29 24    | 58.97             | 94 56     | 11.77             | 81 E(C) 5975<br>11-11-81                                                 | Aerotriangulated<br>975405 |                        |  | 11327           |  |
| TANK          |                                                      |                                                                                                                                                          |  | 29 24    | 40.38             | 94 55     | 31.05             | 81 E(C) 5975<br>11-11-81                                                 | Aerotriangulated<br>975463 |                        |  | 11327           |  |
| TANK          | Texas City Muni TANK<br>9th Ave & 14th North st 1960 |                                                                                                                                                          |  | 29 23    | 31.909            | 94 54     | 51.434            | 81 E(C) 5974<br>11-11-81                                                 | Geodetic<br>Position       |                        |  | 11324           |  |
| TANK          |                                                      |                                                                                                                                                          |  | 29 23    | 36.73             | 94 54     | 27.10             | 81 E(C) 5774                                                             | Manually<br>Digitized      |                        |  | 11324           |  |
| TANK          |                                                      |                                                                                                                                                          |  | 29 22    | 31.49             | 94 53     | 49.62             | 81 E(C) 5966<br>11-11-81                                                 | Manually<br>Digitized      |                        |  | 11322<br>11324  |  |
| STACK         | Texas City WAH CHANG<br>CORP STACK 1960              |                                                                                                                                                          |  | 29 21    | 26.656            | 94 56     | 29.946            | 81 E(C) 5974<br>11-11-81                                                 | Geodetic<br>Position       |                        |  | 11322<br>11324  |  |
| TANK          |                                                      |                                                                                                                                                          |  | 29 20    | 26.80             | 94 59     | 51.20             | 81 E(C) 5974<br>11-11-81                                                 | Manually<br>Digitized      |                        |  | 11322<br>11324  |  |
| TRIPOD        |                                                      |                                                                                                                                                          |  | 29 22    | 30 54             | 94 50     | 08.53             | 81 E(C) 5966<br>11-11-81                                                 | Manually<br>Digitized      |                        |  | 11324           |  |
|               |                                                      |                                                                                                                                                          |  |          |                   |           |                   |                                                                          |                            |                        |  |                 |  |
|               |                                                      |                                                                                                                                                          |  |          |                   |           |                   |                                                                          |                            |                        |  |                 |  |

| RESPONSIBLE PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ORIGINATOR                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE OF ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                  |
| OBJECTS INSPECTED FROM SEAWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> PHOTO FIELD PARTY<br><input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> OTHER (Specify) |
| POSITIONS DETERMINED AND/OR VERIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FIELD ACTIVITY REPRESENTATIVE                                                                                                                                                    |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> REVIEWER<br><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE                                                                    |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'<br>(Consult Photogrammetric Instructions No. 64,)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                  |
| <b>OFFICE</b><br><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br>EXAMPLE: 75E(C)6042<br>8-12-75                                                                                                                                                                                                                                                                                                               | <b>FIELD (Cont'd)</b><br><b>B. Photogrammetric field positions** require</b><br>entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.<br>EXAMPLE: P-8-V<br>8-12-75<br>74L(C)2982                                                                                                                                                                                           |                                                                                                                                                                                  |
| <b>FIELD</b><br><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br>Enter the applicable data by symbols as follows:<br>F - Field<br>L - Located<br>V - Verified<br>1 - Triangulation<br>2 - Traverse<br>3 - Intersection<br>4 - Resection<br>5 - Field Identified<br>6 - Theodolite<br>7 - Planetable<br>8 - Sextant<br>A. Field positions* require entry of method of location and date of field work.<br>EXAMPLE: F-2-6-L<br>8-12-75<br>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. | <b>II. TRIANGULATION STATION RECOVERED</b><br>When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.<br>EXAMPLE: Triang. Rec.<br>8-12-75<br><b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br>Enter 'V-Vis.' and date.<br>EXAMPLE: V-Vis.<br>8-12-75<br>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods. |                                                                                                                                                                                  |

[illegible]

| RESPONSIBLE PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE OF ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OBJECTS INSPECTED FROM SEAWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ORIGINATOR<br><input type="checkbox"/> PHOTO FIELD PARTY<br><input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> OTHER (Specify)                                                                                                                                                                                                                                                           |
| POSITIONS DETERMINED AND/OR VERIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FIELD ACTIVITY REPRESENTATIVE                                                                                                                                                                                                                                                                                                                                                                                                                            |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OFFICE ACTIVITY REPRESENTATIVE<br><input type="checkbox"/> REVIEWER<br><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE                                                                                                                                                                                                                                                                                                          |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'<br>(Consult Photogrammetric Instructions No. 64, FIELD (Cont'd))                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>OFFICE</b><br><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br>EXAMPLE: 75E(C)6042<br>8-12-75                                                                                                                                                                                                                                                                                                               | <b>B. Photogrammetric field positions** require</b><br>entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.<br>EXAMPLE: P-8-V<br>8-12-75<br>74L(C)2982                                                                                                                                                                                                                    |
| <b>FIELD</b><br><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br>Enter the applicable data by symbols as follows:<br>F - Field<br>L - Located<br>V - Verified<br>1 - Triangulation<br>2 - Traverse<br>3 - Intersection<br>4 - Resection<br>5 - Field identified<br>6 - Theodolite<br>7 - Planetable<br>8 - Sextant<br>A. Field positions* require entry of method of location and date of field work.<br>EXAMPLE: F-2-6-L<br>8-12-75<br>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. | <b>II. TRIANGULATION STATION RECOVERED</b><br>When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.<br>EXAMPLE: Triang. Rec.<br>8-12-75<br><b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br>Enter 'V-Vis.' and date.<br>EXAMPLE: V-Vis.<br>8-12-75<br>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods. |

10/83

## MAP FEATURES OF POSSIBLE LANDMARK VALUE

| MAP NO.       | JOB NO.     | GEOGRAPHIC AREA            | GEODETIC DATUM                    | ORIGINATING ACTIVITY                             |                    |  |  |
|---------------|-------------|----------------------------|-----------------------------------|--------------------------------------------------|--------------------|--|--|
| TP-01147      | CM-8108     | Galveston Bay              | NA 1927                           | Rockville, MD                                    |                    |  |  |
| CHARTING NAME | DESCRIPTION | PHOTO NO.<br>Date of Photo | PLANE COOR. (FT)<br>STATE<br>ZONE | GEOGRAPHIC POSITION<br>φ LATITUDE<br>λ LONGITUDE | POSITION QUALITY   |  |  |
| R. TR         |             | 81 E(C) 5977<br>11-11-81   | X<br>Y                            | φ 29 29 18.65<br>λ 94 58 37.98                   | Manually Digitized |  |  |
| Tower         |             | 81 F(C) 5977<br>11-11-81   | X<br>Y                            | φ 29 29 17.65<br>λ 94 58 31.87                   | "                  |  |  |
| Tower         |             | 81 E(C) 5977<br>11-11-81   | X<br>Y                            | φ 29 29 11.16<br>λ 94 58 33.91                   | "                  |  |  |
| Tower         |             | 81 F(C) 5977<br>11-11-81   | X<br>Y                            | φ 29 29 13.14<br>λ 94 58 43.06                   | "                  |  |  |
| Tower         |             | 81 E(C) 5977<br>11-11-81   | X<br>Y                            | φ 29 29 25.44<br>λ 94 58 46.55                   | "                  |  |  |
| Tower         |             | 81 E(C) 5977<br>11-11-81   | X<br>Y                            | φ 29 29 25.80<br>λ 94 58 54.98                   | "                  |  |  |
| Tower         |             | 81 E(C) 5976<br>11-11-81   | X<br>Y                            | φ 29 27 40.73<br>λ 94 58 27.57                   | "                  |  |  |
| Tower         |             | 81 F(C) 5976<br>11-11-81   | X<br>Y                            | φ 29 27 32.38<br>λ 94 58 23.86                   | "                  |  |  |
| Tank          |             | 81 F(C) 5973<br>11-11-81   | X<br>Y                            | φ 29 20 11.04<br>λ 94 57 56.56                   | "                  |  |  |
| Tank          |             | 81 E(C) 5974<br>11-11-81   | X<br>Y                            | φ 29 23 36.46<br>λ 94 59 11.17                   | Aerotriangulated   |  |  |
| Tank          |             | 81 E(C) 5974<br>11-11-81   | X<br>Y                            | φ 29 23 23.46<br>λ 94 57 40.41                   | "                  |  |  |
| R TR          |             | 81 E(C) 5975<br>11-11-81   | X<br>Y                            | φ 29 25 03.85<br>λ 94 56 08.11                   | "                  |  |  |

NOTE: The objects have not been inspected from seaward to determine their value as landmarks.

|           |             |      |       |                    |                 |      |       |
|-----------|-------------|------|-------|--------------------|-----------------|------|-------|
| LISTED BY | James Schad | DATE | 12/84 | LISTING CHECKED BY | Edward D. Allen | DATE | 12/84 |
|-----------|-------------|------|-------|--------------------|-----------------|------|-------|



### MAP FEATURES OF POSSIBLE LANDMARK VALUE

[illegible]

**NOTE:** The objects have not been inspected from seaward to determine their value as landmarks.

James Schad |

**LISTING CHECKED BY**

Edward D. Allen

**DATE** 12/84

