

00225

TP- 00225

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00225	Edition No. 1
Job No. CM-7702	
Map Classification FINAL, FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State TEXAS	
General Locality SABINE PASS TO PASS CAVALLO	
Locality FREEPORT HARBOR CHANNEL	
19 77 TO 1979	
REGISTRY IN ARCHIVES	
DATE	

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

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
- ☐ RESURVEY
- ☐ REVISED

SURVEY TP. 00225

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH-CM-7702

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Roy K. Matsushige

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☐ ORIGINAL
- ☐ RESURVEY
- ☐ REVISED

JOB PH- _____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation May 10, 1977

Aerotriangulation Oct. 3, 1977

Compilation Feb. 17, 1978

Amendment I May 13, 1978

2. FIELD

Premarking Feb. 3, 1977

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

- ☒ MEAN HIGH-WATER
- ☒ MEAN LOW-WATER
- ☐ MEAN LOWER LOW-WATER
- ☐ MEAN SEA LEVEL

OTHER (Specify)

Gulf Coast Low Water Datum

3. MAP PROJECTION

Lambert Conformal Conic

4. GRID(S)

STATE

Texas

ZONE

South Central

5. SCALE

1:20,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	R. Kelly	Mar 1978
METHOD: Analytic	LANDMARKS AND AIDS BY	None	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	S. Solbeck	Feb 1978
METHOD: Coradomat 21	CHECKED BY	S. Solbeck	Feb 1978
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	R. Kravitz	Aug 1978
COMPILATION	CHECKED BY	L. Neterer	Aug 1978
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Kravitz	Aug 1978
	CHECKED BY	J. Roderick	Sept 1978
METHOD: Smooth drafted and	CONTOURS BY	NA	
graphic	CHECKED BY	NA	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	NA	
	CHECKED BY	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Roderick	Sept 1978
6. APPLICATION OF FIELD EDIT DATA	BY	C. Blood	Aug 1979
	CHECKED BY	I. Perkinson	Sept 1979
7. COMPILATION SECTION REVIEW	BY	I. Perkinson	Sept 1979
8. FINAL REVIEW	BY	J. Hancock	Jan 1981
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	Feb. 1981
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	R. Kelly	June 1981
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	N. D. Moore	OCT 1981

NOAA FORM 76-36A

SUPERSEDES FORM C&GS 181 SERIES

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00225
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Focal Length 88.47 mm 132.71 mm Wild R.C. 8 "E" and R.C. 10 "C"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC X (I) INFRARED X		TIME REFERENCE ZONE Central MERIDIAN 90th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES * <input checked="" type="checkbox"/> REFERENCE STATION RECORDS ** <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY **					
NUMBER AND TYPE	DATE	TIME (CST)	SCALE	STAGE OF TIDE	
** 77C(I)-2580-2585	Mar 7, 1977	10:15	1:40,000	At mean low water	
* 77E(P)-9559-9571	Mar 7, 1977	14:53	1:30,000	0.7 ft. above MLW	
* 77E(P)-9519-9523	Mar 7, 1977	14:12	1:30,000	0.4 ft. above MLW	
* Alternate photos				Range of tide 1.2 ft.	
** Alternate even numbers					

REMARKS

There is no tide coordinated M.H.W. infrared photography for this project, and photo-hydro support data is not required.

2. SOURCE OF MEAN HIGH-WATER LINE:

* The mean high water line was compiled from the above listed compilation photography.

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

** The mean low water line was compiled graphically from the above listed tide coordinated infrared low water photography.

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	EAST	SOUTH	WEST
No survey	TP-00226	No survey	TP-00224

REMARKS

TP-00225

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	Feb 1977
2. HORIZONTAL CONTROL	RECOVERED BY R. Tibbetts ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R. Ledbetter	Feb 1977
3. VERTICAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None LOCATED (Field Methods) BY None IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
77E(P)9523	WELL (U.S.E.), 1912		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1-form 76-53, 1-form 76-52, Field inspection report.

TP-00225

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	P. Walbolt	June 1979
2. HORIZONTAL CONTROL	RECOVERED BY P. Walbolt ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	June 1979
3. VERTICAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY P. Walbolt LOCATED (Field Methods) BY None IDENTIFIED BY P. Walbolt	June 1979 June 1979
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY P. Walbolt	June 1979
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) 77E(P)9561, 9564 and 9570			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED One landmark			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
77E(P)9561	Radio Tower		
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	

7. SUPPLEMENTAL MAPS AND PLANS

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

Field edit report, field edit print, 3 Forms 76-40

TP-00225

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Aug 1978	Class III Manuscript superseded	July 16, 1979	March 16 1979
Field edit applied compilation complete	Aug 1979	Class I Manuscript	Feb 21, 1980	Feb 21, 1980
Final Review	Jan 1980	Final Map & amended 76-40 Forms	Jan 5, 1981	
Final Review	Jan 1980	Final Map	Feb 27, 1981	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Feb 15, 1980	Landmark for Charts (superseded)
1		Feb 15, 1980	Landmark to be deleted (superseded)
1		Feb 15, 1980	Aids for Charts (superseded)
1		Jan 5, 1981	Landmarks for Charts (amended)
1		Jan 5, 1981	Landmarks to be deleted (amended)
1		Jan 5, 1981	Aids for charts (amended)

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Feb 15, 1980; Jan 5, 19813. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: None

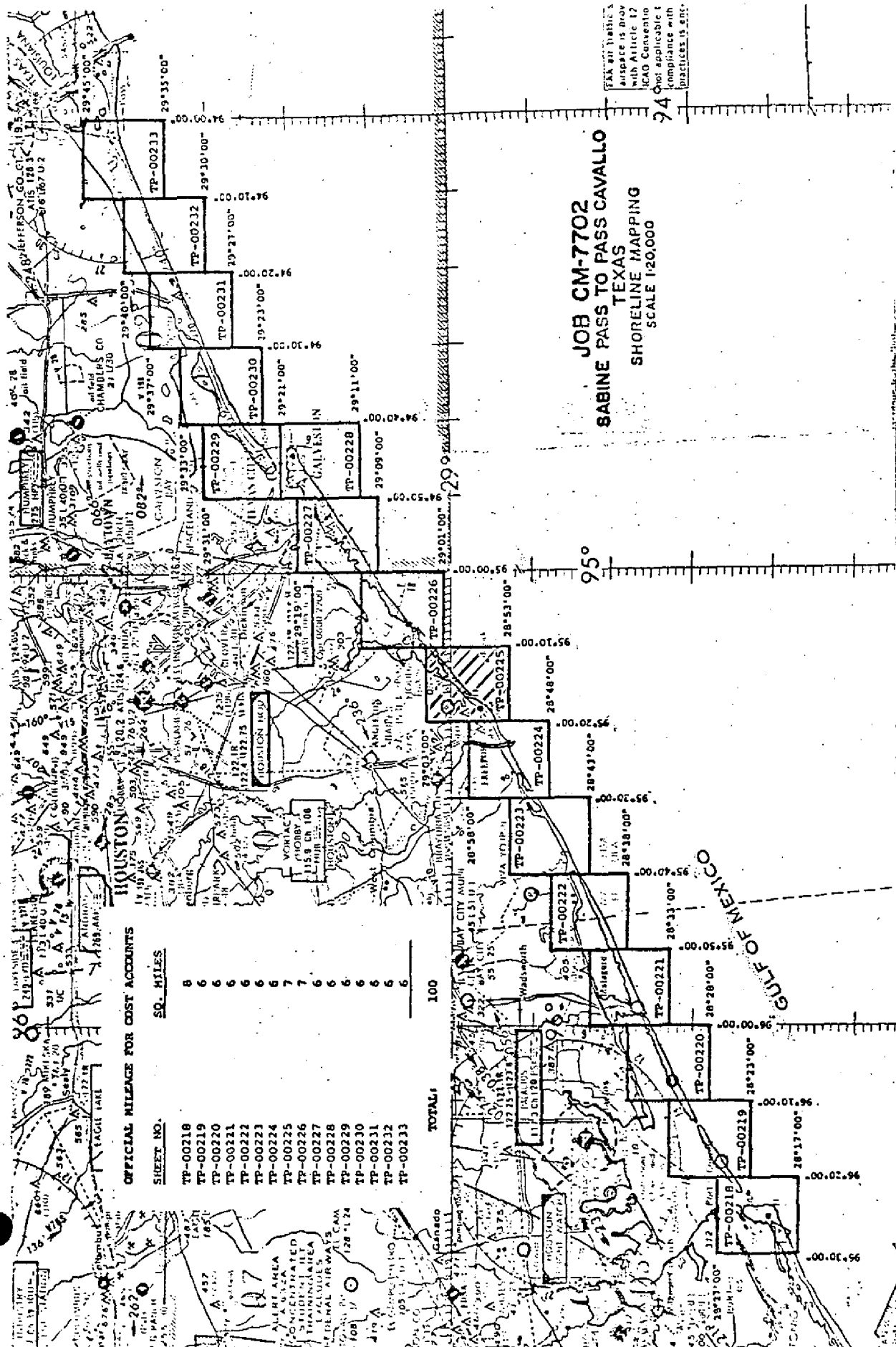
III. FEDERAL RECORDS CENTER DATA

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 EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <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 EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <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 EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <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 TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00225

This 1:20,000 shoreline manuscript is one of 16 maps that comprise Project CM-7702 which covers an area from Sabine Pass to Pass Cavallo, Texas. Maps TP-00224 through TP00233 were field edited and reviewed as Class I. Field edit was canceled via correspondence letter dated July 2, 1980 from the Chief, Photogrammetry Division for maps TP-00218 through TP-00223; these were reassigned to be reviewed and registered as Class III.

The purpose of these maps was to provide contemporary shoreline data in the support of hydrographic operations and to furnish data for nautical chart revision.

The contemporary hydrographic operation, K104-MI-78 & 79, consisted of six, 1:20,000 scale smoothsheets that were verified and registered at the time a final comparison with the shoreline maps was made. The hydrographic survey limits originated at Lat. $29^{\circ}36'$, Long. $94^{\circ}15'$ and extended Southwest to Lat. $29^{\circ}09'$, Long. $95^{\circ}02'$, excluding the inshore areas of Galveston Bay Entrance, Bolivar Roads.

Field work prior to compilation was accomplished in March, 1977; this involved the establishment of horizontal and vertical control in order to meet aerotriangulation requirements. During this same period, tide observations were field recorded to assist in obtaining tide-coordinated low water photography.

Photo coverage for compilation and aerotriangulation was flown in March, 1977 with the "E" camera at a scale of 1:20,000 and 1:30,000 with panchromatic film. Tide-coordinated black and white infrared photography was taken at mean low water using the "C" camera at 1:40,000 scale.

Analytic aerotriangulation was adequately provided by the Washington Science Center.

Compilation was performed at the Atlantic Marine Center in September 1978, field edit operation was completed in June 1979 and field edit data was applied in September 1979.

Final review was performed at the Atlantic Marine Center in January 1981. During this operation, amended data concerning Landmarks and Aids to Navigation for Charts was processed and forwarded to the Nautical Data Section; this issue is further discussed in the Review Report.

The original base manuscript and all pertinent data was forwarded to the Washington Science Center for final registration.

Tide coordinated photography for this project was taken March 7, 1977. Tidal datum depicted on this map is Mean Low Water. Reference should be noted in the National Ocean Survey Directive dated November 28, 1977, that Gulf Coast Low Water Datum is defined as Mean Lower Low Water when the type of tide is mixed and Mean Low Water when the type of tide is diurnal. This Directive is superseded by Federal Register/ Vol. 45, No. 207/dated Thursday, October 23, 1980, which changes the name "Gulf Coast Low Water Datum" to "Mean Lower Low Water."

FIELD INSPECTION

TP-00225

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

See attached report on panelling of control.

Job CM-7702

3. Assignment

In accordance with advanced copy of field instructions, Job CM-7702 dated 1/24/77; Shoreline Mapping: Sabine Pass to Pass Cauallo, Texas was accomplished during February - March, 1977.

5. Horizontal Control

Recovery of horizontal control was limited to those stations needed to meet aerotriangulation requirements; recovery notes have been submitted for only those stations.

All station requirements as per control diagram were met except Circle Nos. 1; 6; 7; 16 and 18.

Circle No. 1. Could not be placed at the south end of the island as indicated on project diagram due to the unstable condition of the point. It was moved approximately three quarters mile northeast of indicated site, however, in the process of determining a position of this panel, a three point fix was taken on the south side of Pass Cávallo on a large concrete platform. The Fix Point (SAL, 1977) was premarked with array No. 3. Station BM 754 (USE) 1934 could not be recovered. A traverse was run from STATON PIERCE, 1931. Obstruction at the panel site made it impossible to turn through the panel site, so TP-03 is the home station for Circle No. 6.

Station BM 692 (USE) 1932 could not be recovered. A traverse was run from STATION McNEEL, 1854 to Panel site. Both traverses were double run.

Permission could not be obtained to place a panel at STATION LONE, 1934. Permission was received from Mr. Van Scoy of Rockville, Maryland to move the panel to SABINE PASS, Southwest Base, 1874. STATION TURN, 1934 was also photo-identified.

6. Premarking of Control

All stations were marked as reported on control station identification card (Form 152).

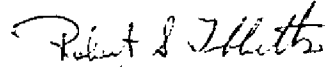
8. Tide Observations and Records for Tide-Coordinated Photography

Level connection was made to BM 43, 1957; BM 44, 1957 and BM E 168, 1936, before photography and BM 43, 1957 after photography, and was recorded on NOAA Form 76-77. Tape readings were recorded on Form 277 (NOAA 77-53).

13. Report

The field party was instructed by CAM513 to forward data through AMC.

Submitted by,



Robert S. Tibbetts
Chief, Photo Party 62

Photogrammetric Plot Report
Sabine Pass To Pass Cavallo, Texas
Job CM-7702
March 1978

21. Area Covered

This report covers sixteen 1:20,000 sheet;

TP-00218	TP-00223	TP-00228
TP-00219	TP-00224	TP-00229
TP-00220	TP-00225	TP-00230
TP-00221	TP-00226	TP-00231
TP-00222	TP-00227	TP-00232
		TP-00233

of Sabine Pass To Pass Cavallo, Texas.

22. Method

Four strips of 1:30,000 scale and two strips of 1:20,000 scale panchromatic photography taken with the "E" camera were bridged by analytic aerotriangulation methods and adjusted to ground on the Texas Stateplane Coordinate System, South Central Zone.

Alternate exposures were used for bridging where possible, because of the 80 percent endlap. Photographs had to be renumbered for strip adjustment program. Tide-coordinated, black-and-white infrared photography 1:40,000 scale taken with the "C" camera at MLW were tied to the 1:20,000 and 1:30,000 scale bridging photography for shoreline compilation of 1:20,000 scale maps, by means of positioning common points to determine the exact ratios. Tie points were used to augment datum between bridging strips. Ruling of manuscripts and plotting of points were done on the Coradomate and forwarded to AMC.

23. Adequacy of Control

In recovering panel number 16 for station Turn, 1934 panel was found to be out of position. It was not known if panel was moved before or after photographing so three substitute stations were established. The panel and three sub. stations were read in bridging strip number one. It was determined in the adjusting of strip one that the panel had not been moved before photographing. Substitute station one and two were not very good image points, therefore they were very difficult to point on in the instrument. Substitute station number three was a good image point and held in the adjustment.

All other control held within the accuracy required by National Standards of maps at 1:20,000 scale.

Closures on strip number five adjustment were slightly high for a third degree adjustment. This is probably because of the narrow models and minimum amount of control (5 stations) for a strip of 41 models.

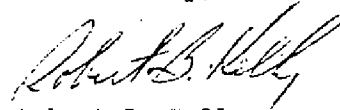
24. Supplemental Data

Local shoreline on U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

The photography was adequate as to placement of flight lines, consistent quality, definition and absent of haze.

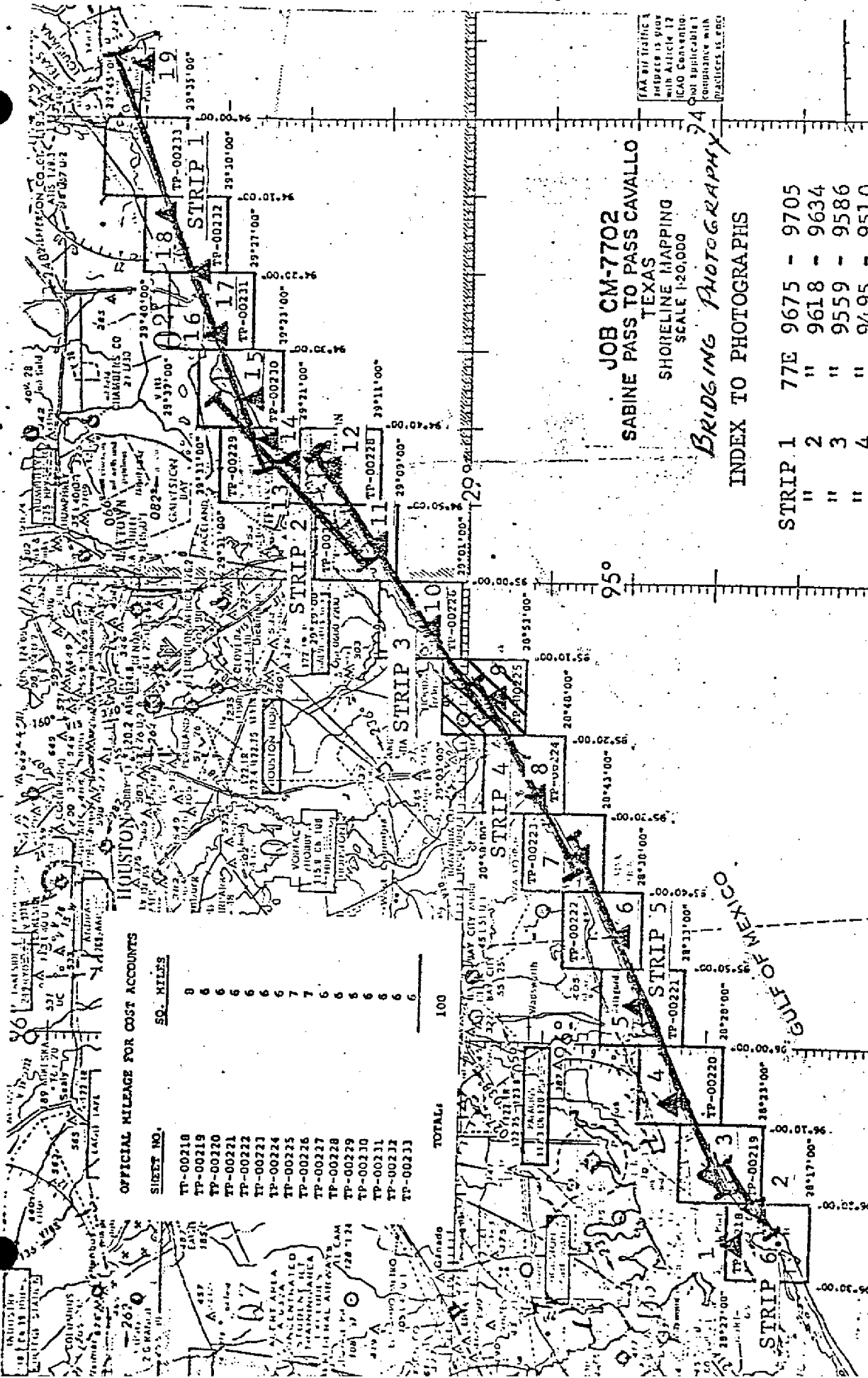
Submitted by,


Robert B. Kelly

Approved and forwarded:



Don O. Norman
Acting Chief, Aerotriangulation Section



JOB CM-7702
SABINE PASS TO PASS CAVALLO
TEXAS
SHORELINE MAPPING
SCALE 1:20,000

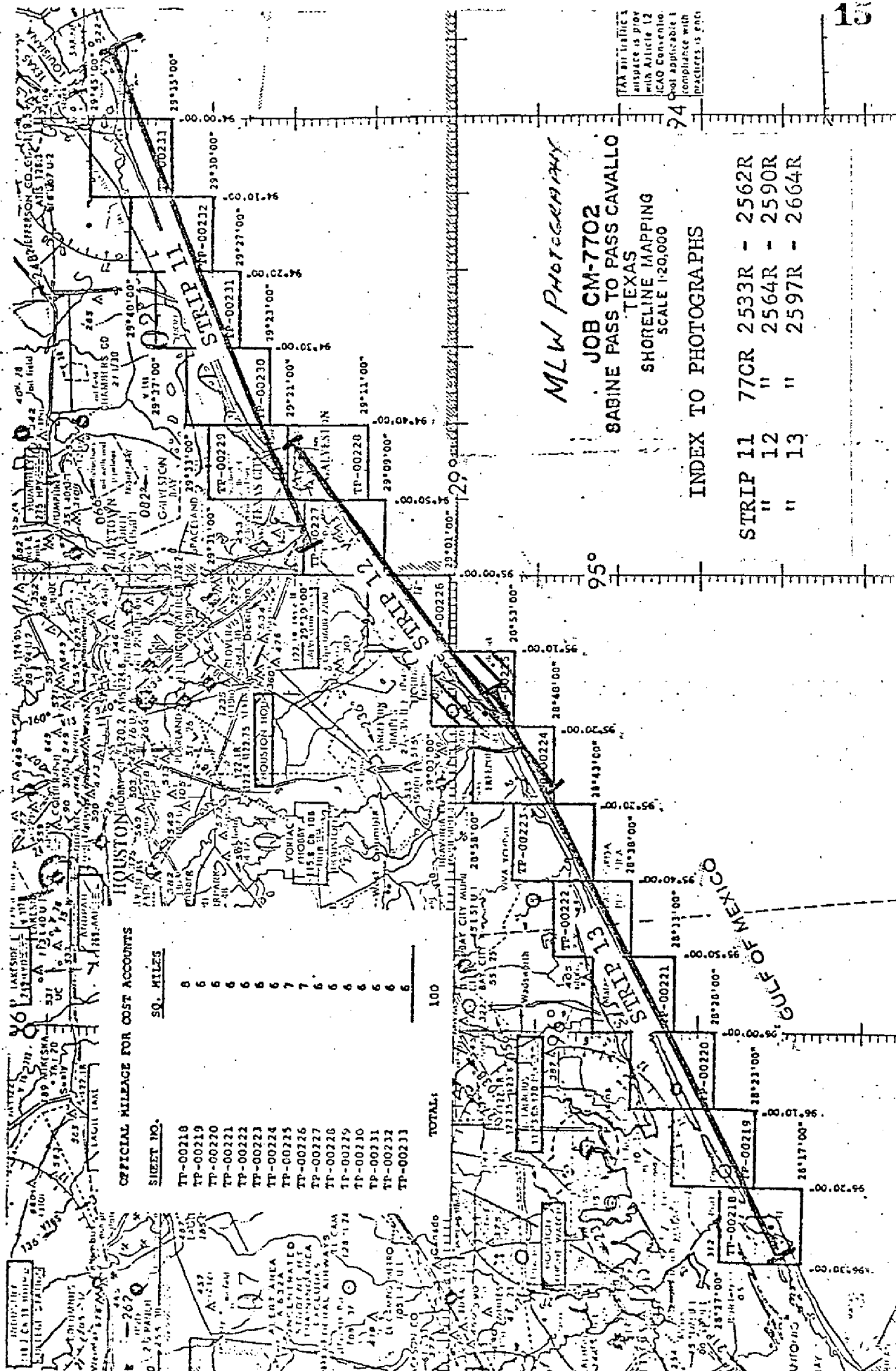
BRIDGING PHOTOGRAPHY
INDEX TO PHOTOGRAPHS

STRIP 1	77E	9675	-	9705
"	"	"	"	9634
"	"	"	"	9586
"	"	"	"	9510
"	"	"	"	9431
"	"	"	"	9338

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	SQ. MILES
TP-00218	8
TP-00219	6
TP-00220	6
TP-00221	6
TP-00222	6
TP-00223	6
TP-00224	6
TP-00225	7
TP-00226	7
TP-00227	6
TP-00228	6
TP-00229	5
TP-00230	6
TP-00231	6
TP-00232	6
TP-00233	6
TOTALS	100

THIS MAP IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS DESIGNED. IT IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS DESIGNED.



MLW PHOTOGRAPHY

JOB CM-7702
SABINE PASS TO PASS CAVALLO
TEXAS
SHORELINE MAPPING
SCALE 1:20,000

INDEX TO PHOTOGRAPHS

STRIP 11 77CR 2533R - 2562R
" 12 " 2564R - 2590R
" 13 " 2597R - 2664R

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	SQ. MILES
TP-00218	8
TP-00219	6
TP-00220	6
TP-00221	6
TP-00222	6
TP-00223	6
TP-00224	6
TP-00225	7
TP-00226	7
TP-00227	6
TP-00228	6
TP-00229	6
TP-00230	6
TP-00231	6
TP-00232	6
TP-00233	6
TOTAL:	100

TAKE ALL TRAFFIC
AIRSPACE IS PROVED
WITH ARTICLE 12
ICAO CONVENTION
NOT APPLICABLE TO
COMPLIANCE WITH
PRACTICES IS PHOTO

KEY TO NUMBERED CONTROL
STATIONS USED IN ADJUSTMENT
AND CLOSURES

1 SAL, 1977	- .000, - .000
2 PANEL #1 H-62-01, 1977	.000, .000
3 OSGOOD 2, 1906	- .006, - .005
4 SULA, 1934	-4.286, 5.561
5 CRAB, 1934	3.950, -2.254
6 EAST POINT, 1883	-1.260, -2.740
7 PIERCE, 1931 (TARGET #6), 1977	- .430, 2.067
8 MC NEEL, 1852 (TARGET #7), 1977	- .000, - .000
9 WELL (USE) 1912	.002, .001
10 MOTTO, 1933	.375, - .549
11 OSTER, 1933	.112, - .105
12 JACINTO, 1933	.598, - .338
13 TRAVIS, 1933	1.062, -4.842
14 PARRS GROVE (USE), 1900	- .043, .079
15 PATTON, 1932	- .507, - .104
16 GILCHRIST 2, 1963	.448, - .675
17 TURN, 1934	1.460, 4.103
18 MEAD RM #3, 1963	- .067, .164
19 SABINE PASS, SOUTH WEST BASE 1874, 1963	.031, .056

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	CM-7702	GEODETIC DATUM	N.A. 1927	ORIGINATING ACTIVITY
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE TEXAS ZONE SOUTH CENTRAL	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
WELL(U.S.E.), 1912	280951 Page 1019	559100	X= Y=	ϕ 28°57' 08.294" λ 95°17' 10.027"	255.3 (1591.9) 271.5 (1353.3)
WEST 2 (U.S.E.), 1912	280951 Page 1020	95	X= Y=	ϕ 28°55' 48.936" λ 95°18' 37.906"	1506.5 (340.7) 1026.7 (598.4)
DOW CHEMICAL CO. PLANT A, ORGANIC WATER TANK, 1954	280951 Page 1028	92	X= Y=	ϕ 28°56' 47.542" λ 95°18' 51.873"	1463.6 (383.6) 1404.7 (220.2)
DOW CHEMICAL CO. PLANT A SHOP WATER TANK, 1954	280951 Page 1030	93	X= Y=	ϕ 28°56' 45.826" λ 95°19' 18.135"	1410.8 (436.4) 491.1 (1133.9)
SKEET, 1933	280951 Page 1017	85	X= Y=	ϕ 28°58' 44.664" λ 95°15' 09.268"	1375.0 (472.2) 250.9 (1373.4)
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
COMPUTED BY A. C. Rauck, Jr.		DATE Apr 13, 78	COMPUTATION CHECKED BY J. Moler		DATE Apr 14, 1978
LISTED BY A. C. Rauck, Jr.		DATE Apr 10, 78	LISTING CHECKED BY J. Moler		DATE Apr 12, 1978
HAND PLOTTING BY R. R. Kravitz		DATE Aug 16, 78	HAND PLOTTING CHECKED BY F. Mauldin		DATE Aug 16, 1978

COMPILATION REPORT

TP-00225

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter. The mean low water line was compiled graphically from tide coordinated infrared low water photography. Control of this photography was by the selection of shore-line pass points common to these photos and to the compilation photography. Photo hydro-support data was not required, nor prepared.

32. CONTROL:

See the attached Photogrammetric Plot Report, dated March 1978.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by the Wild B-8 stereoplotter and by office inspection of the ratioed photographs.

The mean high water line was office edited and refined from the ratioed photographs, after being compiled on the stereo-plotter.

36. OFFSHORE DETAILS:

None

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion. Five charted aids to navigation, and three charted landmarks were photogrammetrically located. Three charted landmarks could not be located as they appear to be destroyed.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

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

TP-00225

40. HORIZONTAL AND VERTICAL ACCURACY:

Refer to the Photogrammetric Plot Report, dated March 1978.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following U.S. Geological Survey
Quadrangles:

Freeport, Texas, scale 1:24,000, 1964

Christmas Point, Texas, scale 1:24,000, 1965.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Survey Chart
No. 11322, scale 1:40,000, 10th edition, dated October 23, 1976.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Robert R. Kravitz

Robert R. Kravitz
Cartographic Technician
Date: 18 August 1978

Approved:

Jim Byrd for

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section.

ADDENDUM TO THE COMPILATION REPORT

TP-00225

FIELD EDIT

Field edit was adequate. No changes of the shoreline were necessary.

The Freeport Jetty Channel Range Front and Rear Lights, #3147 and #3148 were not shown. According to the fieldman, they were scheduled to be re-located in the near future; see Field Report.

The photo location submitted by the field editor for the landmark Radio Tower, elevation 280 ft. did not correspond with the apparent photo image. An office investigation determined that the tower had been moved approximately 200 ft. S.E. since the 1977 photography, but prior to field edit in 1979. The area photo-identified by the field editor was accepted when correspondence with the tower owner, Lorac Corp., confirmed the move and its new position.

9/19/80

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7702 (Sabine Pass to Pass Cavallo, Texas)

TP-00225

Follets Island

Freeport Harbor Channel

Gulf of Mexico

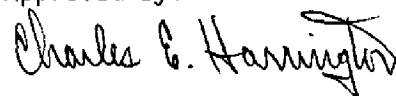
Quintana

Quintana Beach

Surfside

Surfside Beach

Approved by:

Charles E. Harrington
Chief Geographer, C3x5

FIELD EDIT REPORT: TP-00225, FREEPORT HARBOR CHANNEL51. METHODS

This field edit inspection was accomplished by driving each road leading to water and closest to water by truck, by walking stretches where there are no roads, and by offshore inspection from skiff.

52. ADEQUACY OF COMPILATION

Compilation is very good, and will be complete and adequate upon application of the field edit.

54. RECOMMENDATIONS

The Freeport Jetty Channel is scheduled to be changed in 1980; please see enclosed letter for further explanation.
(pg. 2 of this report)

56. GEOGRAPHIC NAMES

No discrepancies were encountered while performing this edit.

57. LANDMARKS AND AIDS TO NAVIGATION

Three (3) NOAA Form 76-40 are submitted.

58. FIELD EDITOR

Field Edit was performed by Philip B. Walbolt and Ralph A. Harrell.

22 June 1979
Submitted by:

Philip B. Walbolt

Philip B. Walbolt
Chief, Photo Party 63

#3147 FREEPORT JETTY CHANNEL, RANGE FRONT LIGHT
#3148 FREEPORT JETTY CHANNEL, RANGE REAR LIGHT

In order to recover some stations in Map TP-00225, it was necessary to contact Mr. Bud Thompson, who is the head surveyor for Plant A, Dow Chemical Company, at Freeport, Tex. It is the duty of Mr. Thompson to keep accurate positions of each structure in, and pertaining to, the vast Plant A industrial complex.

Since the above Range Rear Light falls within the Plant A complex, Mr. Thompson worked with the Corps of Engineers to establish the existing ranges, which are as follows:

#3148 FREEPORT JETTY CHANNEL, RANGE REAR LIGHT

X 3 179 122.33

Y 424 551.63

#3147 FREEPORT JETTY CHANNEL, RANGE FRONT LIGHT

X 3 181 194.68

Y 422 427.52

Recently Mr. Thompson was contacted by the Corps, which intends to dredge and change the Freeport Jetty Channel in 1980. It was necessary to locate a new location within the Plant A Complex for the new Rear Range to be built in 1980, which will be visible from seaward. A new Front Range will also be built. When dredging and construction of the new ranges is completed, their positions will be as follows:

new Rear Range

X 3 177 018.803

Y 427 167.370

new Front Range

X 3 180 160.575

Y 423 946.396

Mr. Thompson would be willing to answer any further questions. He may be reached at work at phone 713-238-2436.

PHOTOGRAMMETRIC OFFICE PRE-HYDRO AND FIELD EDIT REVIEW

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TP- 00225

1. PROJECTION AND GRIDS JDR	2. TITLE JDR	5. HORIZONTAL CONTROL JDR	11. DETAIL POINTS AND PASS POINTS JDR
12. SHORELINE JDR	13. LOW-WATER LINE JDR	14. ROCKS, SHOALS, ETC. JDR	20. WATER FEATURES JDR
15. BRIDGES JDR	16. AIDS TO NAVIGATION JDR	17. LANDMARKS JDR	18. and 26. ALONGSHORE AND OTHER PHYSICAL FEATURES JDR
19. and 30. ALONGSHORE AND OTHER CULTURAL FEATURES JDR	PROCESSED RATIOS JDR	27. ROADS JDR	28. BUILDINGS JDR
29. RAILROADS JDR	23. and 25. CONTOURS AND SPOT ELEVATIONS NA	33. GEOGRAPHIC NAMES JDR	34. JUNCTIONS JDR
35. LEGIBILITY OF THE MANUSCRIPT JDR	36. FIELD EDIT OZALID JDR	10. PHOTOGRAMMETRIC PLOT REPORT JDR	37. COMPILATION REPORT JDR
40. REVIEWER J. Roderick September 25, 1978		SUPERVISOR Albert C. Rauck, Jr.	

41. REMARKS

PHOTOGRAMMETRIC OFFICE POST-HYDRO AND FIELD EDIT REVIEW

3. MANUSCRIPT NUMBERS IKP	FORMAT STICK-UP IKP	4. MANUSCRIPT SIZE IKP	5. HORIZONTAL CONTROL IKP
7. PHOTO HYDRO STATIONS IKP	9. PLOTTING OF SEXTANT FIXES IKP	12. SHORELINE IKP	13. LOW-WATER LINE IKP
14. ROCKS, SHOALS, ETC. IKP	15. BRIDGES IKP	16. AIDS TO NAVIGATION IKP	17. LANDMARKS IKP
18. PHYSICAL FEATURES IKP	19. CULTURAL FEATURES IKP	20. WATER FEATURES IKP	PIPELINES, CABLES, ETC. IKP
24. and 25. CONTOURS AND SPOT ELEVATIONS NA	27. ROADS IKP	28. BUILDINGS IKP	29. RAILROADS IKP
33. GEOGRAPHIC NAMES IKP	34. JUNCTIONS IKP	38. FIELD EDIT PHOTOGRAPHS IKP	36. FIELD EDIT OZALID IKP
37. FIELD EDIT REPORT IKP	GEOGRAPHIC FIX POSITIONS IKP	39. FIELD FORMS IKP	APPROVED TIDES IKP

COMPILER Charles Blood	DATE Aug. 1979	40. REVIEWER Irene Perkinson	DATE Oct. 1979	SUPERVISOR Albert C. Rauck, Jr.
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43. REMARKS

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

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

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

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Jerry L. Hancock
Jerry L. Hancock
Final Reviewer

Approved for forwarding:

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved:

John D. Perraw Jr.
for Chief, Photogrammetric Branch, Rockville

Approved:

Walter S. Simmons
Walter S. Simmons
Chief, Photogrammetry Division



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

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DATE: Jan. 5, 1981

TO: Jim Dailey
Chief, Nautical Data Section
OA/C3222

FROM: Jerry Hancock
Coastal Mapping Division, Final Review
CAN52X1

SUBJECT: Amended Data for Proj. K-104, Job CM-7702,
TP-00225, Freeport Harbor Channel, Tex.

Attached is an insert of Nautical Chart 11322, 14th Ed., Oct. 18/80, a copy of the final reviewed map and a revised set of Forms 76-40 (Non-floating Aids or Landmarks for Charts) for TP-00225. This supersedes the three previous forms dated Aug. 18, 1978 and Aug. 8, 1979.

Changes to the deletion form involve two additional charted landmarks, a TANK with an accurate position and a Radio tower with an approximate position; these are submitted for deletion as both features have been destroyed.

In the vicinity of Freeport Harbor Channel, the 76-40 forms have been amended to clarify the congested relationship and location of the Freeport Entrance Light, the Radio Beacon 290 KHZ and the landmark Cupola. Also, attention should be noted to the correct position for the Freeport Entrance Light as it was amended to read $28^{\circ} 56' 27.46''$ in contrast to $24.46''$ previously submitted.



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GULF

~~Power does not exist~~

~~Cypola position correct~~

~~Entrance 6
approx. 80 ft. S.E. of Cypola, Not
S.W. 1/4 Sec 25~~

~~CHAP
12 ELG 450 28H SW
11' ed 18 Oct 1982~~

