13016

Original

13016

FORM C&GS-504

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

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)

Field No.: Office No.: T-13016

LOCALITY

State: Texas

General locality: Baffin Bay

Locality: Point Penascal

1967-68

CHIEF OF PARTY

J.Bull,RADM,Director,Atlantic Marine Center

LIBRARY & ARCHIVES

DATE

USCOMM-DC 37022-P66

FORM C&GS-181a
(3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

T - 13016

PROJECT NO. (II):

PH-6711

FIELD OFFICE (II):	CHIEF OF PARTY
None	
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Atlantic Marine Center	

INSTRUCTIONS DATED (II) (III):

FIELD	February 7, 1967
AEROTRIANGULATION	May 18, 1967
OFFICE COMPILATION	June 29, 1967

METHOD OF COMPILATION (III):

Kelsh Stereo-Plotter

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:20,000	1:8,000 pantographed to 1:20,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III): MHW
N. A. 1927	EXCEPT AS FOLLOWS: *Elevations shown as (25) refer to mean high water* *Elevations shown as (5) refer to sounding datum* *i.e., mean low water*

REFERENCE STATION (III):

ROX, 1912 ✓

LAT.:	LONG.:	
27° 21' 06.928" 213.2M ✓	97° 24' 52.320" 1438.0M ✓	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
Y = 614,065.59 ft. ✓	X = 2,352,334.78 ft. ✓	Texas ✓	South ✓

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

USCOMM-DC 36393A-P66

FORM C&GS-181b
(3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): None *	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation, Date of Photography - April 1967	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE: May 8, 1967
PROJECTION AND GRIDS CHECKED BY (IV): T. F. Van Scoy	DATE: May 11, 1967
CONTROL PLOTTED BY (III): L. O. Neterer	DATE: July 19, 1967
CONTROL CHECKED BY (III): F. P. Margiotta	DATE: July 19, 1967
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I. I. Saperstein	DATE: July 19, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh Plotter	PLANIMETRY: W. S. Davis; Reviewed by: A. L. Shands — DATE: Sept. 22, 1967; Sept. 22, 1967
	CONTOURS: Inapplicable — DATE:
MANUSCRIPT DELINEATED BY (III): C. Blood	DATE: October 12, 1967
SCRIBING BY (III): R. R. White	DATE: April 17, 1968
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation - - - - - - - - - - R. J. Pate; Field Edit - - - - - - - - - - R. E. Smith; Scribing & Stick-up - - - - - R. E. Smith	DATE: Oct. 15, 1967; Apr. 8, 1968; Apr. 16, 1968

REMARKS:

FIELD EDIT BY: E. W. Hartford — March 18, 1968

* Refer to "Pre-Marking Report" attached.

USCOMM-DC 36393-P66

FORM C&GS-181c
(3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):
Wild RC-8
USC&GS ~~Type~~ "L"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67L(c)407 thru 411	March 25, 1967	0307	1:40,000	See REMARKS
67L(c)424 thru 428	March 26, 1967	1054	"	" "
67L(c)454 thru 458	"	1115	"	" "
67L-512R thru 513R	"	1223	"	" "
67L-481R thru 487R	"	1214	"	" "
67L-473R thru 478R	"	1159	"	" "

predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Galveston, Texas	-	-	-
SUBORDINATE STATION: Aransas Pass *	-	-	-
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Atlantic Marine Center M. M. Slavney DATE: May 1969

PROOF EDIT BY (IV): DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2	RECOVERED: 2	IDENTIFIED: 1
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED:	IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

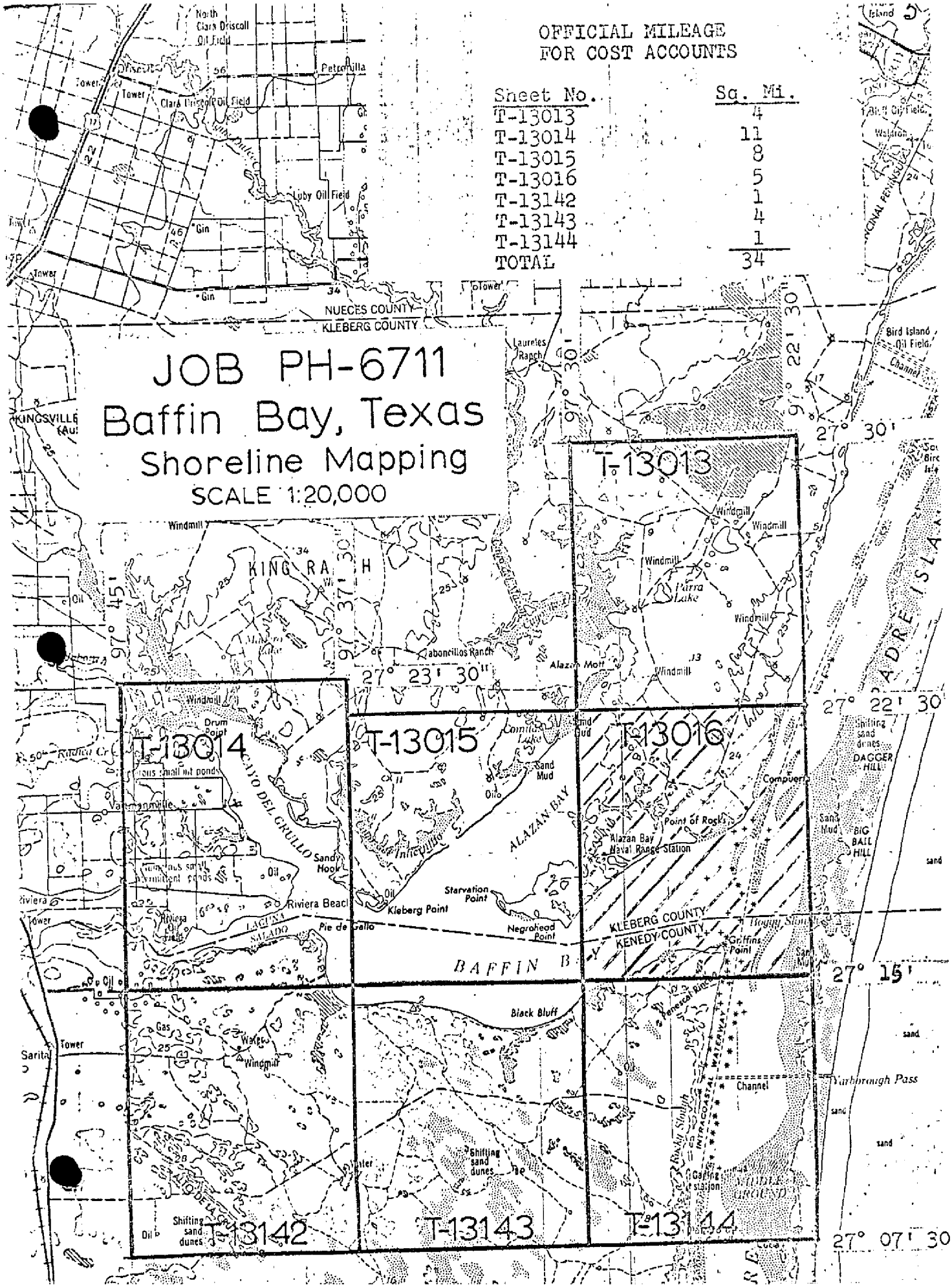
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

REMARKS:

*
Refer to No. 3301, page 240, 1967 Tide Table, Diurnal Tide. Inside Bay areas have a mean range of tide of less than $\frac{1}{2}$ foot.

T-13016

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area for Hydro	October 1967	Superseded
Field Edit applied Manuscript Complete	April 1968	Superseded
Revised in final review	May 1969	


OFFICIAL MILEAGE
FOR COST ACCOUNTS
Sheet No. Sq. Mi.
T-13013 4
T-13014 11
T-13015 8
T-13016 5
T-13142 1
T-13143 4
T-13144 1
TOTAL 34
JOB PH-6711
Baffin Bay, Texas
Shoreline Mapping
SCALE 1:20,000
T-13013
T-13014
T-13015
T-13016
T-13142
T-13143
T-13144
NUECES COUNTY
KLEBERG COUNTY
KENEDY COUNTY
KING RANCH
BAFFIN B
ALAZAN BAY
CAYO DEL GRULLO
LAGUNA SALADO
Riviera Beach
Kleberg Point
Starvation Point
Negrohead Point
Pie de Gallo
Sand Hook
Drum Point
Point of Rocks
Alazan Bay Naval Range Station
Griffins Point
Black Bluff
Shifting sand dunes
DAGGER HILL
BIG BALL HILL
Corpus Christi Pass
Channel
INTRACOASTAL WATERWAY
Laureles Ranch
Laborcillos Ranch
Alazan Mott
Sierra Lake
Bird Island Oil Field
North Clara Driscoll Oil Field
Clara Driscoll Oil Field
Petronilla
Luby Oil Field
Sarita
Kingsville
97° 45'
97° 37' 30"
97° 30'
97° 22' 30"
27° 30'
27° 23' 30"
27° 22' 30"
27° 15'
27° 07' 30"

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13016

Shoreline manuscript T-13016 is one of seven 1:20,000 scale maps that comprise PH-6711. These maps are for the area of Baffin Bay, Texas, and that part of Laguna Madre at the entrance to baffin Bay. The sketch on page 5 of this report shows the position of T-13016 in PH-6711.

This is a stereo-instrument job in advance of hydrographic surveys of the area. There was no field inspection; field work preceding compilation consisted of locating and marking control before photography. An analytic bridge was run in the Washington Office using 1:60,000 RC-9 photography of March 25, 1967, from which pass points were identified and located for controlling the compilation photographs.

Color photographs at 1:40,000 scale were flown on March 25, 1967 with RC-8 camera (L); from which black and white diapositives were made for instrument compilation, with ratio color prints furnished for photo-hydro, and ratio black and white prints for field edit. Infra-red 1:40,000 scale photographs were flown on March 26, 1967 with the RC-8 camera (L); from which ratio cronapaque prints were furnished for compilation of the mean high water line, and subsequently for photo-hydro support.

The map was field edited in March 1968. Field edit was done on an ozalid print, a cronaflex positive, color ratio photograph 67-L-424, and matte B&W prints of 67-L-410, 426, and 456.

The map was scribed and stuck up after applying the field edit.

Final review was done at the Atlantic Marine Center during May 1969.

The compilation manuscript was a vinylite sheet 7 minutes and 30 seconds in latitude and longitude. The smooth manuscript is on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT
T-13016

There was no field inspection prior to compilation.

REPORT ON PRE-MARKING FOR SHORELINE MAPPING OF BAFFIN BAY, TEXAS JOB PH-6711

Pre-marking of twelve horizontal control stations for shoreline mapping of Baffin Bay, Texas, was done in accordance with project instructions dated February 7, 1967.

Nine stations were marked by 12 foot square white plastic panels pointed out by two 3 foot by 24 foot wings, as in array no. 3 in the instructions. Two or three of these stations differ significantly from the standard array due to terrain conditions at the station sites. These differences are adequately pointed out on the C S I Cards.

Three stations were marked by 12 foot equilateral triangles with three 3 by 24 foot wings pointing them out. These targets are composed of white-wash.

Six of the control stations were marked by placing the center panel directly over the station, or as in the case of SALT 1912, over one of the reference marks.

It was necessary to re-locate six of targets, due either to terrain conditions, or the fact that the stations were outside the flight lines. The following stations were marked direct:

LOS OLMOS 1949 - MAP (west of) T-13142 Line 60-1
CRAWFORD 2, 1912 - MAP T-13143 Line 60-1
SALT, 1912 - MAP T-13144 Line 60-1 REFERENCE MARK
TANQUES DE LUIS WINDMILL, 1949 - MAP T-13013 Line 60-3
GRULLO, 1949 - MAP T-13014 Line 60-3
MIDWEST, 1939 - MAP (east of) T-13013 Line 60-3

Station SALT, 1912 reference mark was substituted for GRIFFUTS POINT 4, 1949. TANQUES DE LUIS WINDMILL, 1949 was used in lieu of moving or relocating a target from ROX, 1912, which was indicated on the project diagram.

The targets for the following stations were relocated:

KENEDY RANCH WATER TANK 1931 MAP T-13142 Line 60-1
METHOD: Eccentric occupation - sun azimuth and distance.
PENESCAL 2, 1912 MAP T-13144 LINE 60-1
METHOD: Triangulation, with two measured bases.
KLEBERG 2, 1949 MAP northwest of T-13014 LINE 60-3
METHOD: Eccentric occupation - Sun azimuth and distance.

PORTALES, 1949 MAP north of T-13014 LINE 60-3
METHOD: 2 point fix with three stations occupied.
HINDJOSO, 1949 MAP T-13013 LINE 60-3
METHOD: Angle and distance.
UNION, 1939 MAP east of T-13016 LINE 60-1
METHOD: Triangulation, w/measured base, sun azimuth and check azimuth.

All stations were marked and ready for photography on March 13, 1967 as per instructions. An additional week was needed to complete locations. Photography was flown on March 26, 1967.

No special problems were encountered. The landowners and/or managers were most cooperative and provided a lot of welcome assistance in recovering various stations. Special appreciation is extended to the National Park Service for the aid rendered in reaching the stations on Padre Island.

Many area residents state that they are looking forward, with expectations, to its issue of the new charts.

Distances were measured with a standardized steel tape using 20 lbs tension. Angular measurements were made with a wild T-2 theodolite. Four positions of the circle were used. Field computations were made where indicated.

Richard E. Kesselring

Richard E. Kesselring
Surveying Technician

Approved and forwarded
Lloyd K. Wilson
Chief Photo Party 62
4/5/67

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6711
Baffin Bay, Texas

July 19, 1967

21. Area Covered

This report covers Baffin Bay, Texas, consisting of seven (7) 1:20,000 scale T-sheets, T-13013 thru T-13016 and T-13142 thru T-13144.

22. Method

Analytic aerotriangulation methods were used to bridge three strips of 1:60,000 scale panchromatic photography, taken with the RC-9, "M" camera. Common tie points were dropped from Strips 1 and 3 to control Strip 2.

Furthermore, points were measured on the bridging photography common with the 1:40,000 scale compilation "L" photography. The compilation photography consists of black and white diapositives printed from color film.

The attached sketch of the strips bridged shows the placement of triangulation furnished and those that were used in the final strip adjustment. Closures to control have been tabulated. State plane coordinates (Texas South Zone) have been furnished for all bridge points on the IBM readout.

23. Adequacy of Control

All horizontal control was premarked with white panels and no difficulty was encountered with the identification.

Although no control was available for Strip 2, tie points from Strips 1 and 3 were used in the adjustment of Strip 2 and is believed adequate.

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the "M" photography was good. Photo coverage is inadequate to compile the southern half of T-13144.

In addition to the color photography, several strips of 1:40,000 scale infrared photography were flown and ratios were made to compilation scale along with the color photography on black and white base.

Because of the large water area it may be difficult to set models 67-L-452-453 and 453-454; therefore, in order to compile part of the shoreline on T-13143, several shoreline points were measured and identified on ratio prints 67-L-470R, 471R and 472R. It will be possible to compile this stretch of shoreline graphically, if unable to set the above models.

Respectfully submitted,

I. I. Saperstein

Approved and forwarded,

Henry P. Eichert
Acting Chief
Aerotriangulation Section

BAFFIN BAY, TEXAS
Fit to Control (feet)

STRIP 1

		x	y
1.	KLEBERG 2, 1949 subpoint	-0.4	-1.2
2.	CRULLO, 1949	+0.2	+2.4
3.	PORTALES, 1949 subpoint	-3.9	+1.6
4.	HINDJOSO, 1949 subpoint	0.0	-1.9
5.	TANQUES DE LUIS WINDMILL, 1949	+1.2	-1.9
6.	MIDWEST, 1939	0.0	+0.7

STRIP 2

18801	-4.4	- 2.9
18802	-5.2	- 6.6
18803	-1.2	+ 1.1
18804	-0.9	- 1.4
20801	+0.5	- 1.9
20802	+4.7	- 0.7
20803	+1.7	+13.0
22801	+2.6	- 1.1
22802	-1.6	- 8.0
25801	-2.3	+ 2.5
25802	-0.4	+ 2.6
25803	+0.9	- 0.1
25804	-2.9	- 3.7

STRIP 3

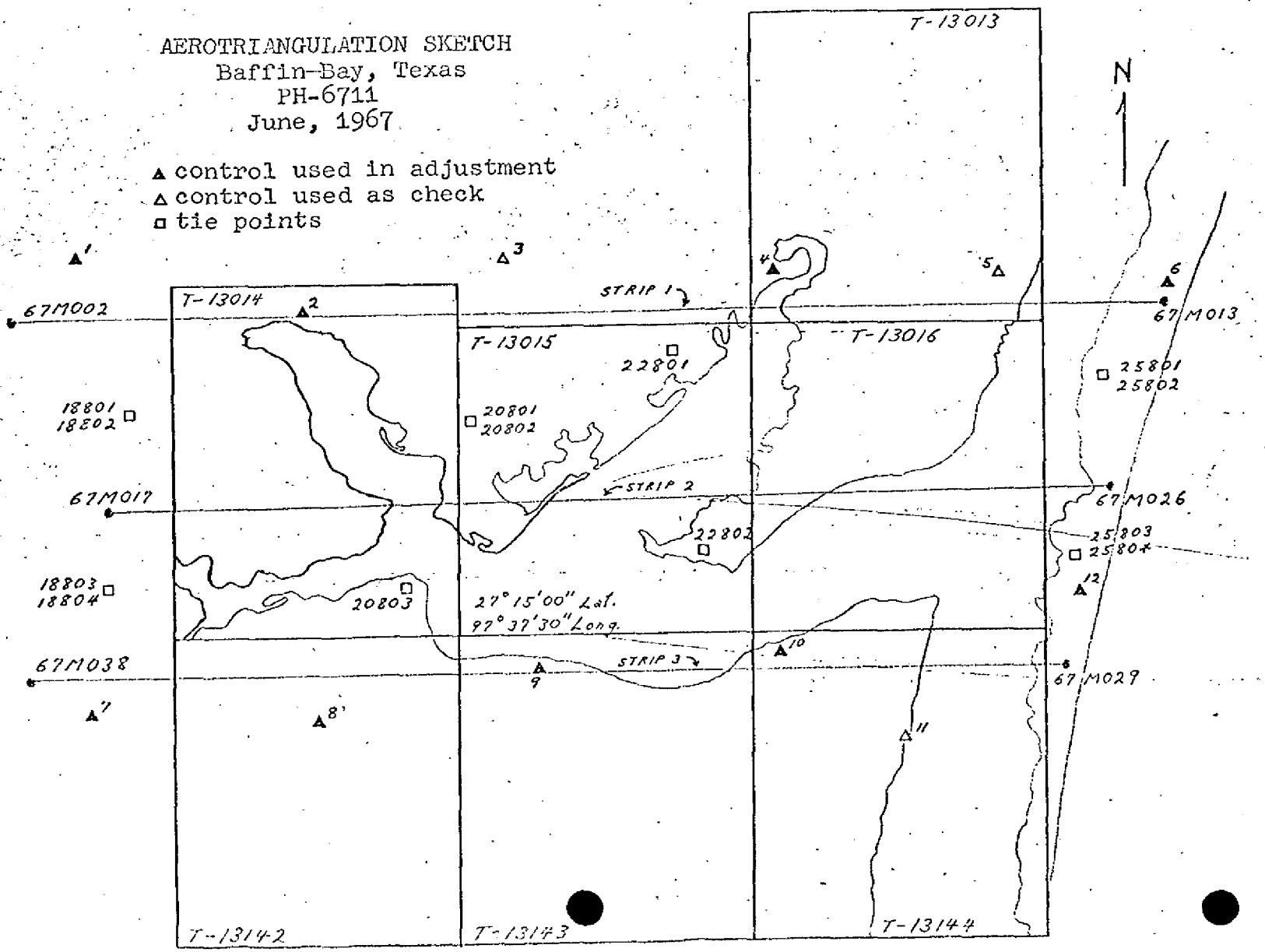
7.	LOS OLMOS, 1949	-0.3	-0.3
8.	KENEDY RANCH WATER TANK, 1931 subpoint	-0.5	+1.9
9.	CRAWFORD 2, 1912	-0.7	-3.7

BAFFIN BAY, TEXAS, Fit to Control, cont.
STRIP 3

	x	y
10. PENESCAL 2, 1912 subpoint	+0.6	+2.7
11. SALT RM, 1912	-1.8	+2.8
12. UNION, 1939 subpoint	-0.2	-0.6

AEROTRIANGULATION SKETCH
Baffin-Bay, Texas
PH-6711
June, 1967

▲ control used in adjustment
△ control used as check
□ tie points



ORM 164
4-23-54)

U.S. DEPARTMENT OF COMMERCE — COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T-13016 PROJECT NO. PH-6711 SCALE OF MAP 1:20,000 SCALE FACTOR none

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR φ-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
	G.P. Vol. 5	N.A.	27° 21' 06.928"	213.2	(1633.5) ✓					
ROX, 1912	Pg. 120	1927	97° 24' 52.320"	1438.0	(211.1) ✓					

1 FT. = .3048006 METER

COMPUTED BY: A. C. Rauck, Jr. DATE July 12, 1967 CHECKED BY: C. H. Bishop DATE July 14, 1967

COMM-DC-57843

COMPILATION REPORT
T-13016

31. DELINEATION:

The Kelsh Plotter was used. There was no field inspection. Photography was satisfactory.

32. CONTROL:

See Pre-Marking Report and Photogrammetric Plot Report herewith.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DATA:

High and low water lines were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Appropriate copies of Form 567 were forwarded to the Washingon Office under date April 1968.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions have been made with T-13015 to the west, T-13013 to the north, and T-13144 to the south. There is no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS quadrangle POINT OF ROCKS, TEXAS, scale 1:24,000, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 894, scale 1:40,000, edition of April 17, 1967.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Approved and forwarded:

P. A. Stark
For J. Bull, RADM, Director
Atlantic Marine Center

Submitted:

B. Wilson
B. Wilson
Cartographic Technician

18.

May 11, 1967

48: GEOGRAPHIC NAMES
FINAL NAME SHEET

PH-6711 (Baffin Bay, Texas)
T-13016

✓Alazan Bay
✓Baffin Bay
*Calbero Artesian Well
✓Compuerta Pass
*El Martillo
✓El Tule Artesian Well
✓Intracoastal Waterway
✓Laguna Madre
✓Padre Island
✓Penascal Rincon
✓Point of Rocks
✓Point Penascal

* Beyond interior details compiled on this shoreline map.

Approved by:

A. J. Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

T-13016

49. NOTES FOR THE HYDROGRAPHER

Predicted tide table indicate a range of tide within these surveys of less than one-half foot. The MHWL was compiled from infrared photos believed to be at or near MHW, but occasional measurements from identifiable photo points to the MHWL should be made to verify the compilation.

The USGS Quadrangle maps indicate many of the foreshore areas as occasionally inundated. Verify and/or correct the compilation of the MHWL as regards this inundation.

There was no field inspection prior to compilation.

FORM C&GS-1002
(9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RJP	RJP	RJP	RJP

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
RJP	X	X

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
X	X	RJP	RJP

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RJP	X	RJP	X

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RJP	RJP	RJP	RJP

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
RJP	X	X

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
X	X	X	RJP

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
RJP	RJP	X	RJP

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
X	X

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
RJP	RJP	RJP

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
X	RJP	X	RJP

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
R. J. Pate 10/15/67	Albert C. Rauck, Jr. A. C. Rauck, Jr.

41. REMARKS *(See attached sheet)*

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

COMPILER	SUPERVISOR
B. Wilson B. Wilson 4/5/68 Reviewed by: R. E. Smith 4/8/68	Albert C. Rauck, Jr. A. C. Rauck, Jr.

43. REMARKS

Edit was taken from 1 ozalid print, 1 cronaflex print, Field Forms 567, pancromtic ratio prints 67-L-410, 426, and 456 & color photo 67-L-424

On the cronaflex print the editor used red, blue, black, and violet ink, not just violet as stated in his report.

FIELD EDIT REPORT
BAFFIN BAY, TEXAS
PH-6711

GENERAL NOTES

This report is submitted for seven (7) sheets, field edited March 4 through March 15, 1968.

All field edit notes were made in violet ink on the discrepancy prints and were referenced to photographs.

52 ADEQUACY OF COMPILATION

The compilation of buildings, roads and trails, flood areas, and all shoreline features appeared to be good. Location of rocks compiled was found to be very good. Most piers compiled are now in ruins.

54 RECOMMENDATIONS

NONE

56 ROCKS

All rocks in question were verified and noted on the discrepancy print. These rocks are a marine growth formed from worms and shells; this hard substance is locally known as wormrock. Therefore very few rocks bare; only one area, Pt. Penascal, that these rocks bare one to two feet. One rock was located at the edge of the Intracoastal Waterway. This rock is very near the edge of the channel, and just south of Light 115. It was located by sextant fix and plotted on the cronaflex copy (sheet T-13016).

A sextant fix was taken on rocks awash at Point Penescal; this is a rocky area that extends north from rocks that bare at Pt. Penascal.

There are many submerged rocks in Baffin Bay. These rocks should be located by the Hydro Party, for they would be very difficult to find by random searching.

57 WELLS AND PIPELINES

All wells were located from the photos except one; it was located by intersection method. Numerous pipelines at the head of CAYO DEL GRULLO were not shown. This water is mostly too shallow for navigation. Two wells have no pipelines running from them. The location of wells and pipelines are noted on photos 67-430, 448, and 449.

58 LANDMARK BUILDINGS AND BLUFFS

Compilation of this feature is good. It is recommended that most all buildings be charted as there are so few in the area. Deletions are shown on the discrepancy sheet and additions are on photos 67-410, 426, 434, 448, and 449.

There are very few Bluffs; ones recommended for charting are noted on photos 67-399, 429, 430, 434, and 452.

59 BOAT RAMPS AND MHW DISTANCES

There are only three (3) boat ramps in the Bay at present. they are noted on the discrepancy sheet and referenced to photos.

There is no evidence of any change in the MHWL since photography. Several places were visually checked, and a few distances were taped; these are shown on photos 67-399, 426, 429, 430, 432, 452, and 456.

60 NAUTICAL AIDS AND LANDMARKS

There are numerous Lights, Piles, and Platforms along the Intracoastal Waterway. These were located by radial plots, excepting two Daybeacons and several pile which were located by sextamt fix and plotted directly on the cronaflex copy.

There are 37 new daybeacons in sheets T-13014, 15, and 16; these were located by intersection method. Corner and end daybeacons were checked with a no-check coordinate position and scaled on the cronaflex copy. These are a single pile about 15 or 16 feet above the water with a red triangle at the top with reflective numbers.

There are only a few nautical landmarks consisting mainly of Windmills, and one Tower. These were used as photo-hydro stations, and were ploted directly on the cronaflex copy with the height and year.

All field edit notes are in violet ink, and are found on the following photos: 67-399, 410, 426, 429, 430, 432, 434, 448, 449, 452, and 456.

Forms 567 submitted in duplicate for all aids and naut. landmarks.

18 March 1968
Submitted by:

E W Hartford

E. W. Hartford
Surveying Technician

FORM C&GS-567
5-66)

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~
} STRIKE OUT TWO

Atlantic Marine Center — April 1 — 1968

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(Hydrographic Manuscript)~~ the charts indicated.

The positions given have been checked after listing by B. Wilson

B. Wilson — For J. Bull, RADM, USESSA, Director, AMC — Chief of Party.

STATE	TEXAS		POSITION											
			LATITUDE*		LONGITUDE*									
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.P.METERS	° ′	″ D.P.METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	Intracoastal Waterway	CHARTS AFFECTED
	CORPUS CHRISTI-PORT ISABEL													
DAYBEACON 2	BAFFIN BAY		27 16	38.37 1181	97 24	45.38 1248	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 4	BAFFIN BAY		27 16	39.31 1210	97 25	12.58 386	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 6	BAFFIN BAY		27 16	40.13 1235	97 25	36.94 1016	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 8	BAFFIN BAY		27 16	41.20 1268	97 26	05.89 162	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 10	BAFFIN BAY		27 16	38.31 1179	97 26	30.29 833	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 12	BAFFIN BAY		27 16	35.45 1091	97 26	54.94 1511	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 14	BAFFIN BAY		27 16	32.94 1014	97 27	16.43 452	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 16	BAFFIN BAY		27 16	29.83 918	97 27	43.56 1198	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 18	BAFFIN BAY		27 16	23.36 719	97 28	05.27 145	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 20	BAFFIN BAY		27 16	16.44 506	97 28	27.78 764	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 22	BAFFIN BAY		27 16	10.07 310	97 28	48.68 1339	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 24	BAFFIN BAY		27 16	03.28 101	97 29	11.23 309	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893SC *
DAYBEACON 26	BAFFIN BAY		27 15	57.28 1763	97 29	30.90 850	N.A. 1927	Photo. T-13016	Feb. 1968		x		x	894 893 SC *

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 36485-P69

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~
} STRIKE OUT TWO

Atlantic Marine Center April 1, 1968

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by B. Wilson
B. Wilson

For J. Bull, RADM, USESSA
Director, AMC
Chief of Party

STATE: TEXAS

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	Intracoastal Waterway	CHARTS AFFECTED
				51.17		50.86	N.A.	Photo.	Feb.				x	894
DAYBEACON 28	BAFFIN BAY		27 15	1575	97 29	1399	1927	T-13016	1968		x			893SC *
	* 893 is a proposed small craft chart.													

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be ~~-f the~~ area and not by individual field survey sheets. Information under each column heading should be given.

FORM C&GS-567
(5-66)

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~DISCONTINUED~~ } STRIKE OUT TWO

Atlantic Marine Center — April 1 — 19 1968

I recommend that the following objects which have ~~have not~~ been inspected from seaward to determine their value as landmarks be charted on ~~deleted from~~ the charts indicated.

The positions given have been checked after listing by B. Wilson

B. Wilson

For J. Bull, RADM, USESSA
Director, AMC
Chief of Party.

Intracoastal Waterway

STATE: TEXAS			POSITION										
			LATITUDE*		LONGITUDE*								
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.M. METERS	° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	CORPUS CHRISTI-PORT ISABEL												
				41.36		49.07	N.A.	Photo				x	894
LIGHT 89			27 21	1273	97 22	1349	1927	T-13016	3/1/68		x		893SC *
				18.45		25.68	N.A.	Photo.				x	894
LIGHT 95			27 20	568	97 23	706	1927	T-13016	3/1/68		x		893SC *
				53.51		36.52	N.A.	Photo.				x	894
AYBEACON 97			27 19	1647	97 23	1004	1927	T-13016	3/7/68		x		893SC *
				04.42		57.43	N.A.	Photo.				x	894
AYBEACON 101			27 19	136	97 23	1579	1927	T-13016	3/6/68		x		893SC *
				39.51		08.66	N.A.	Photo.				x	894
LIGHT 103			27 18	1216	97 24	238	1927	T-13016	3/1/68		x		893SC *
				20.24		26.00	N.A.	Photo.				x	894
LIGHT 115			27 17	623	97 24	715	1927	T-13016	3/1/68		x		893SC *
				55.62		44.17	N.A.	Photo.				x	894
LIGHT 127			27 15	1712	97 24	1215	1927	T-13016	3/6/68		x		893SC *
	* 893 is a proposed small craft chart												

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

24

USCOMM-OC 56465-P66

FORM C&GS-567
(5-66)

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~XXXXXXXXXX~~ } STRIKE OUT TWO

Atlantic Marine Center April 1 1968

I recommend that the following objects which have ~~not~~ been inspected from seaward to determine their value as landmarks be charted on ~~XXXXXXXXXX~~ the charts indicated.

The positions given have been checked after listing by B. Wilson

B. Wilson

For J. Bull, RADM, USESSA
Director, AMC
Chief of Party

Intracoastal Waterway

STATE: TEXAS

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE * ° ′	POSITION LATITUDE * ″ D.M. METERS	POSITION LONGITUDE * ° ′	POSITION LONGITUDE * ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	CORPUS CHRISTI-PORT ISABEL												
	BAFFIN BAY												
	ALAZAN BAY												
				57.99		33.91	N.A.	Photo.	Feb.			x	894
WINDMILL	Steel ht= 45 (50)		27 20	1785	97 28	932	1927	T-13016	1968		x		893SC *
	* 893 is a proposed small craft chart												

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 36485-P6

REVIEW REPORT T-13016
SHORELINE
MAY 1969

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 29 through 35), which shows the differences noted in items 62, 64, and 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey T-9197; 1:20,000; Field Completion 1951.

The T-9197 differences with this survey are shown on the Comparison Print in blue.

The shorelines are in fair agreement on the two surveys, with the largest differences in the "spoil" islands in Laguna Madre (pages 29, 32 and 35), at the inlets to flooded areas (pages 29 thru 34, and the sand shoreline at 29° 15.6', 97° 25.45' (page 34).

All the aids to navigation in Baffin Bay, pages 33 thru 35, are new since T-9197.

Of the aids to navigation on T-9197 in Laguna Madre, Daybeacons 87 and 93 (page 29) are now replaced by buoys, Daybeacons 95, 97, 99, and lights 115 and 117 have been moved, see pages 32 and 35.

This survey supercedes the previously registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

USGS quad POINT OF ROCKS, TEXAS; 1:24,000, Field check 1951.

The quadrangle is a reduction of T-9197, see Item 62, and the same comparison applies.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

H-9005 (745-20-2-68); 1:20,000; 1968

The data from H-9005 is from a mylar overlay of the boat sheet; the boat sheet was lost in a launch sinking. The eastern limits of H-9005 are near 97° 24'. There are no contemporary hydrographic surveys east of H-9005.

The H-9005 differences with this survey are on the comparison print in green.

The overlay of H-9005 does not show the aids to navigation, pages 33 thru 35 .

The overlay of H-9005 shows numerous rocks and foul areas not on T-13016, see pages 32 thru 34 . These are not identifiable on the photographs, and attention is directed to Item 56 of the field edit report.

The overlay does not show all the spoil islands on T-13016 and there have been changes made in the islands on H-9005.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 893; 1:40,000; 6th Edition Feb. 5, 1968
Chart 894; 1:40,000 2nd Edition April 17, 1967.

Chart 893 southern limits are near latitude 29° 21', however, chart 894 covers the entire area of this survey.

Comparison by projector reveals that Registered Survey T-9197, see item 62, was the source for the planimetry, including most of the spoil islands, for the charts in the area of this survey. Other differences of the charts with T-13016 are shown on the Comparison Print in red.

The chart shows numerous piles, markers, and/or platforms along the Intracoastal Waterway, that are not on T-13016, see pages 29 , 32 , 34 , and 35 . These are not visible on the photographs and were apparently not visible in the field when the field editor located the piles, platforms, and aids to navigation shown on T-13016. Please refer to paragraph 1 and 2 of Item 60 of the Field Edit Report, and the Field Edit ozalid and cronaflex.

The chart shows numerous rocks awash and sunken rocks that do not appear on T-13016, see pages 31 , 32 , 34 , and 35 .

All rocks on T-13016 have been verified or located by the field editor. Please note Item 56 of the Field Edit Report, particularly for the position of the off lying rocks awash at Pt. Penescal, page 34 . The field editor submitted a section of Chart 894, stapled to the field edit ozalid, on which some rocks were noted. These notes are duplicated on the Comparison Print (page 34), but the chart scale of 1:40,000 precludes using these positions on T-13016, which is 1:20,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with the job instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

M. M. Slavney.

Approved by:

Allen L. Powell

Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Approved by:

Charles Lamm

Chief, ~~Cartographic~~ Photogrammetric Branch AHB

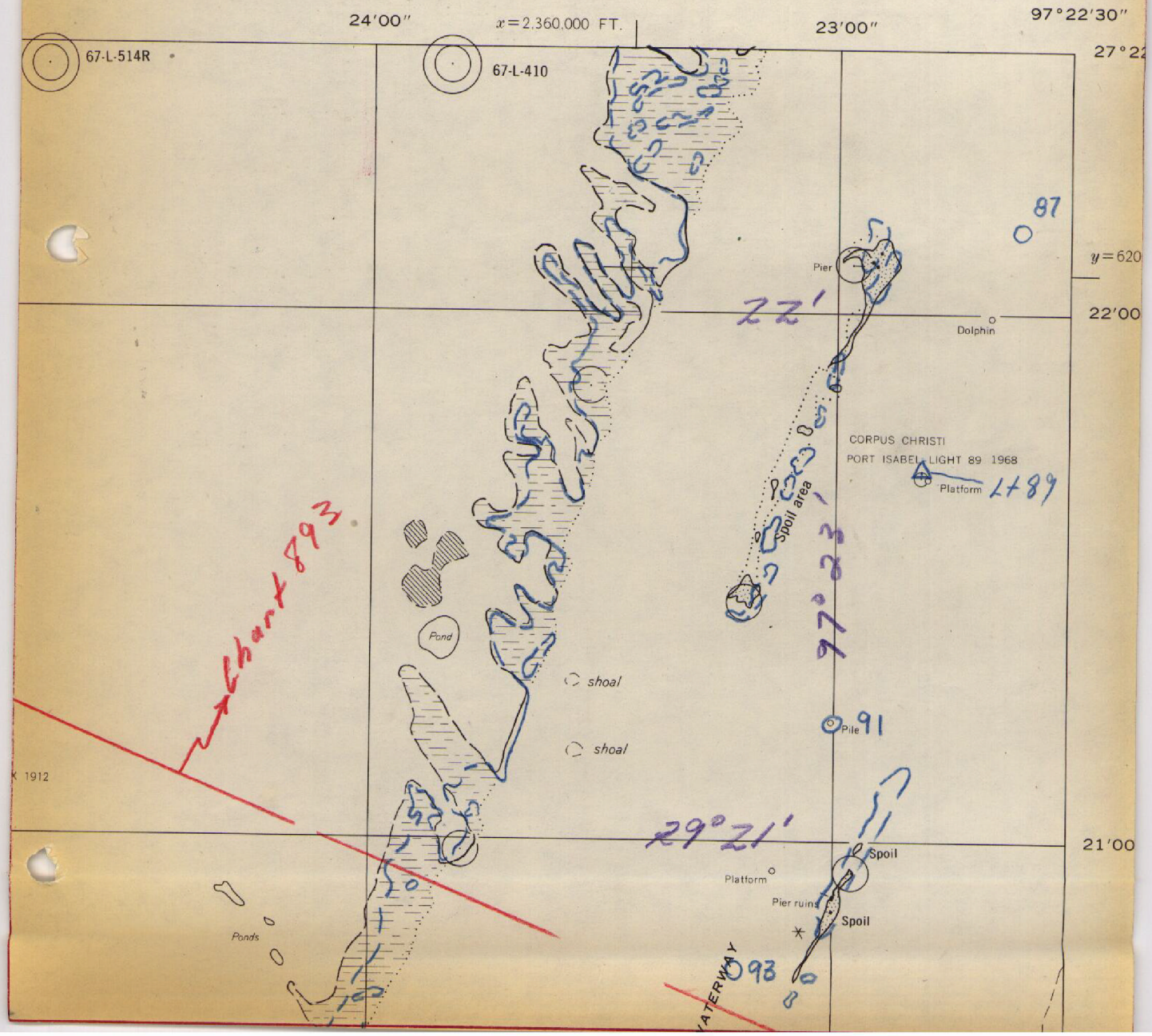
R H Houlder

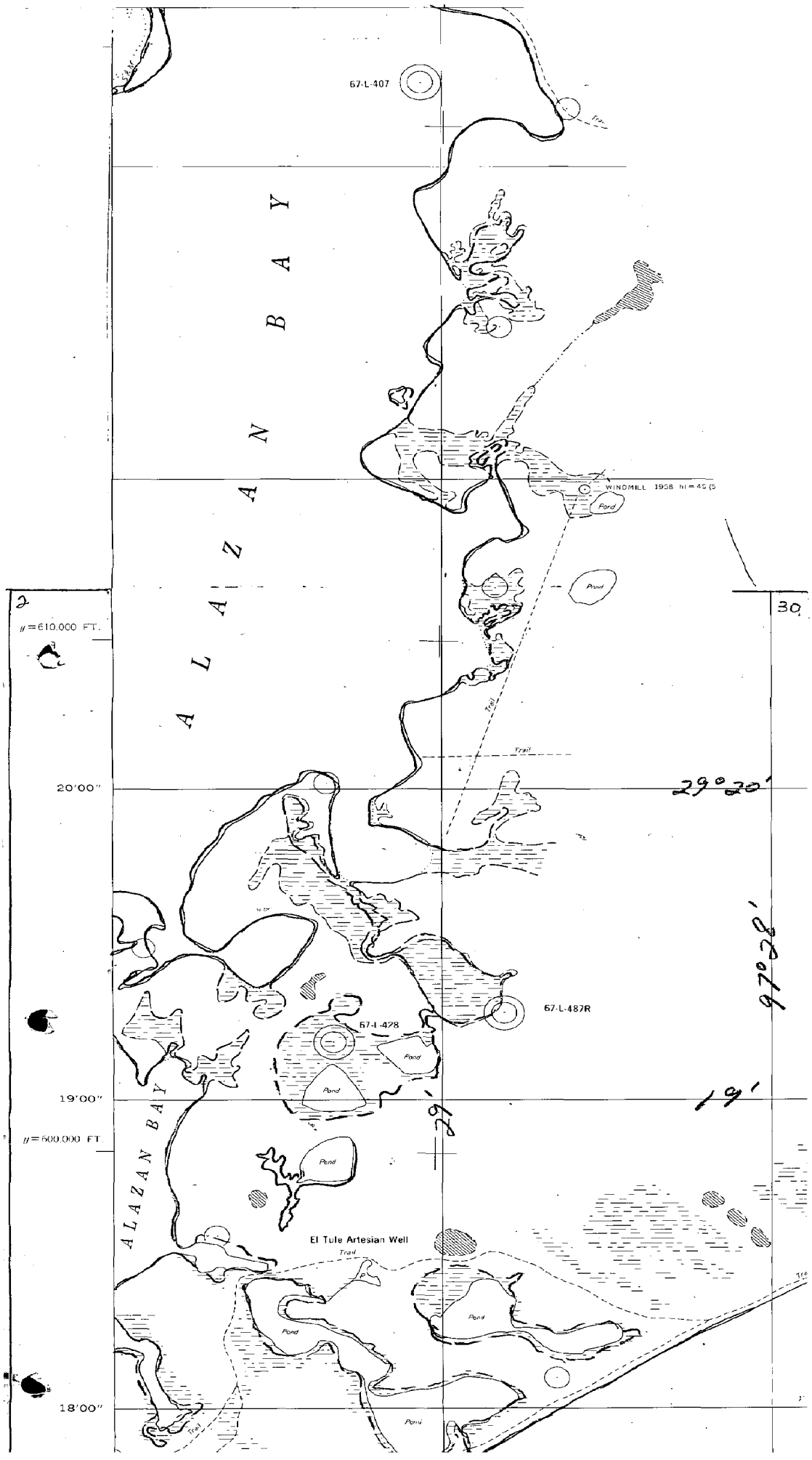
Chief, Photogrammetry Division

~~Chief, Chart~~ Division

~~Chief, Operations~~ Division

29.


24'00"
x=2,360,000 FT.
23'00"
97°22'30"
27°22
67-L-514R
67-L-410
87
y=620
Pier
22'00
Dolphin
CORPUS CHRISTI
PORT ISABEL LIGHT 89 1968
Platform
L789
Spoil area
chart 893
Pond
shoal
shoal
Pile 91
1912
21'00
Spoil
Platform
Pier ruins
Spoil
Ponds
93
WATERWAY


67-L-407
ALAZAN BAY
WINDMILL 1958 ht = 45 (5
Pond
Trail
30
y = 610,000 FT.
20'00"
29°20'
97°28'
67-L-487R
67-L-428
19'00"
y = 500,000 FT.
El Tule Artesian Well
18'00"

29°20'

NOTE: Water stages vary widely with meteorological conditions. A broken line has been used instead of the usual high-water line symbol in those areas where the high-water line is not identifiable, and also to indicate the approximate limits of areas subject to inundation. The dotted line represents the approximate low-water line.

67-L-485R

67-L-426

67-L-486R

27'

97°26'

Pond

Trail

Pier & Building in ruins

on chart 89f

Foul with rocks & Grass

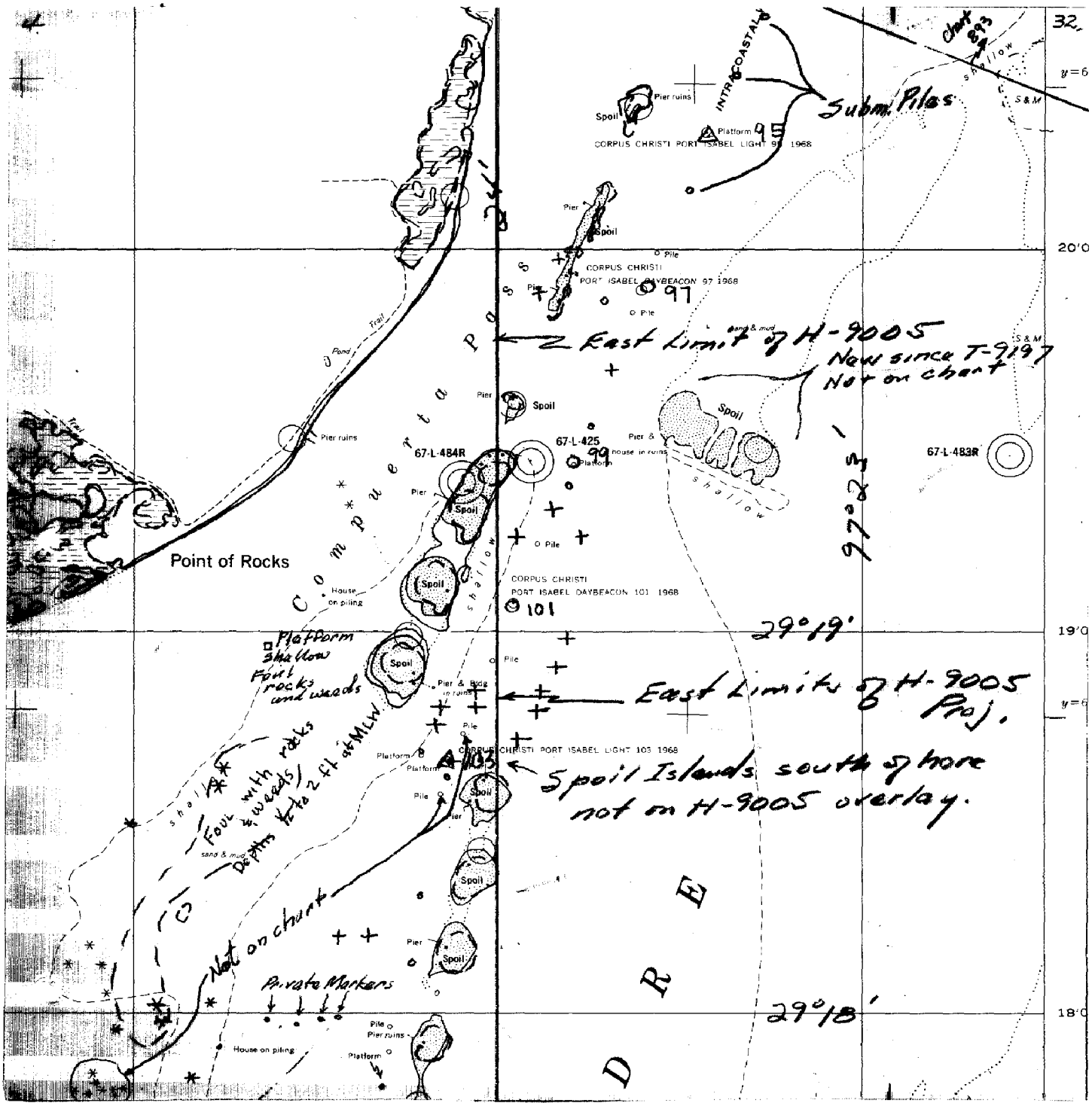
shoal

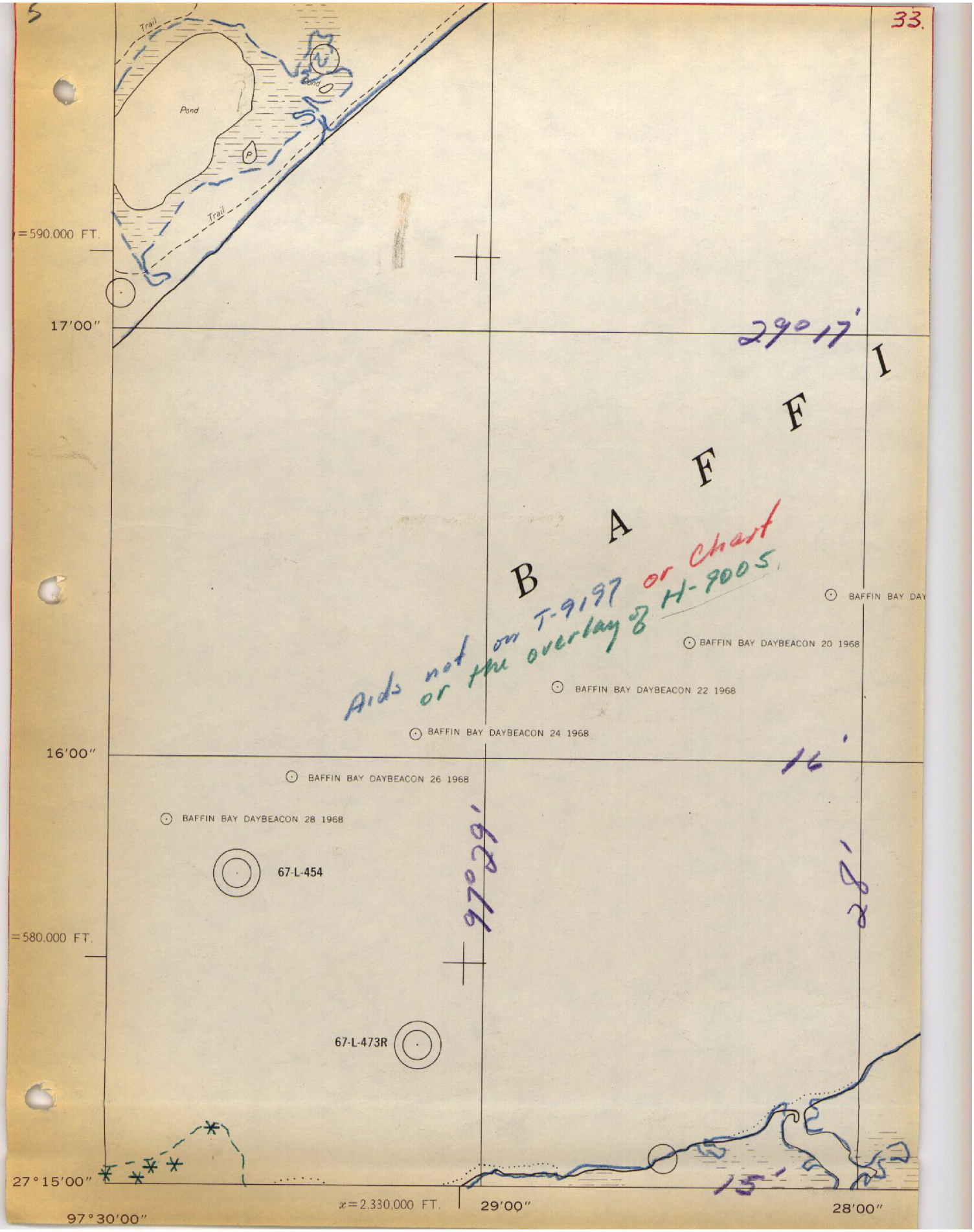
shoal

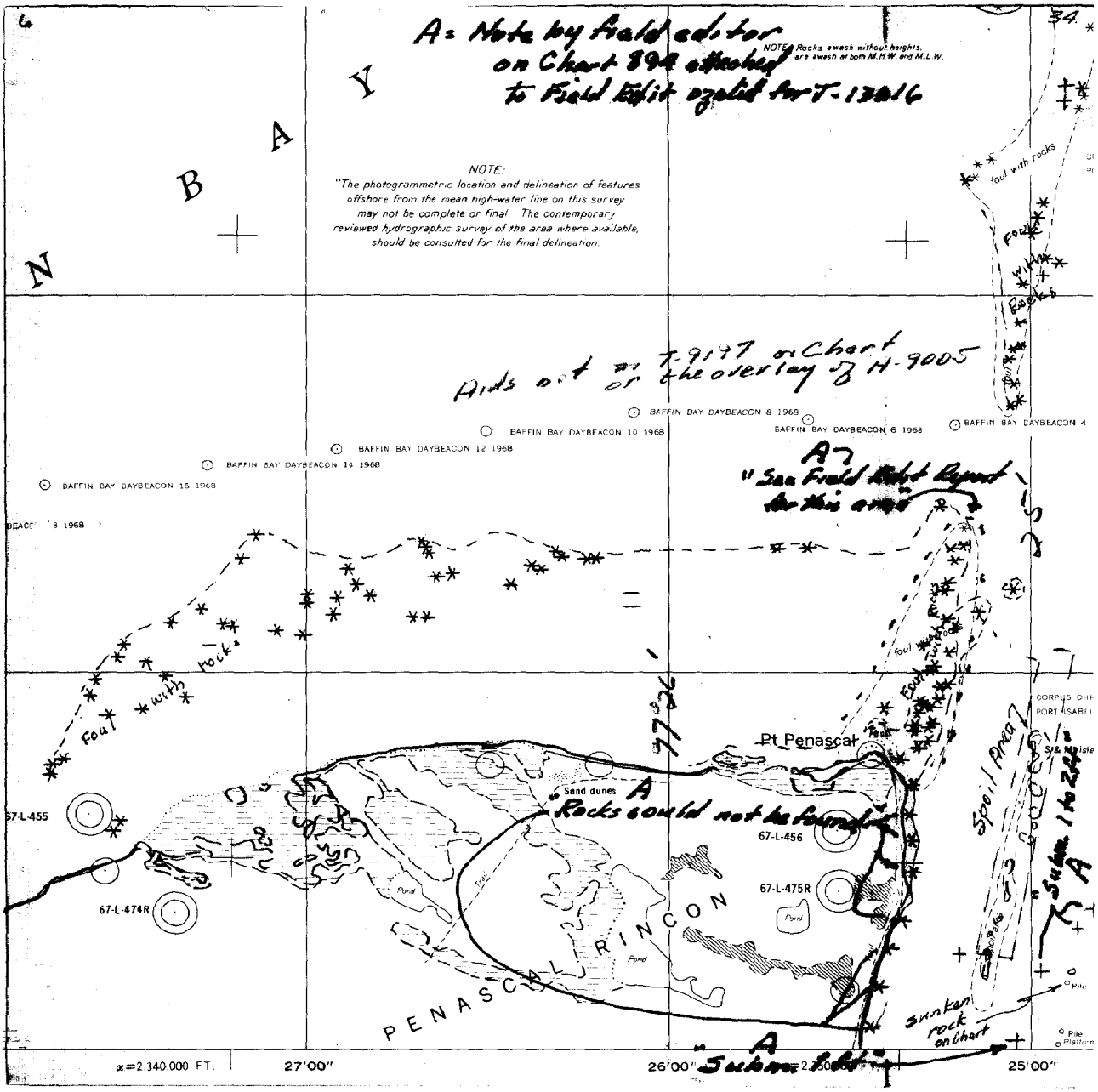
Marker

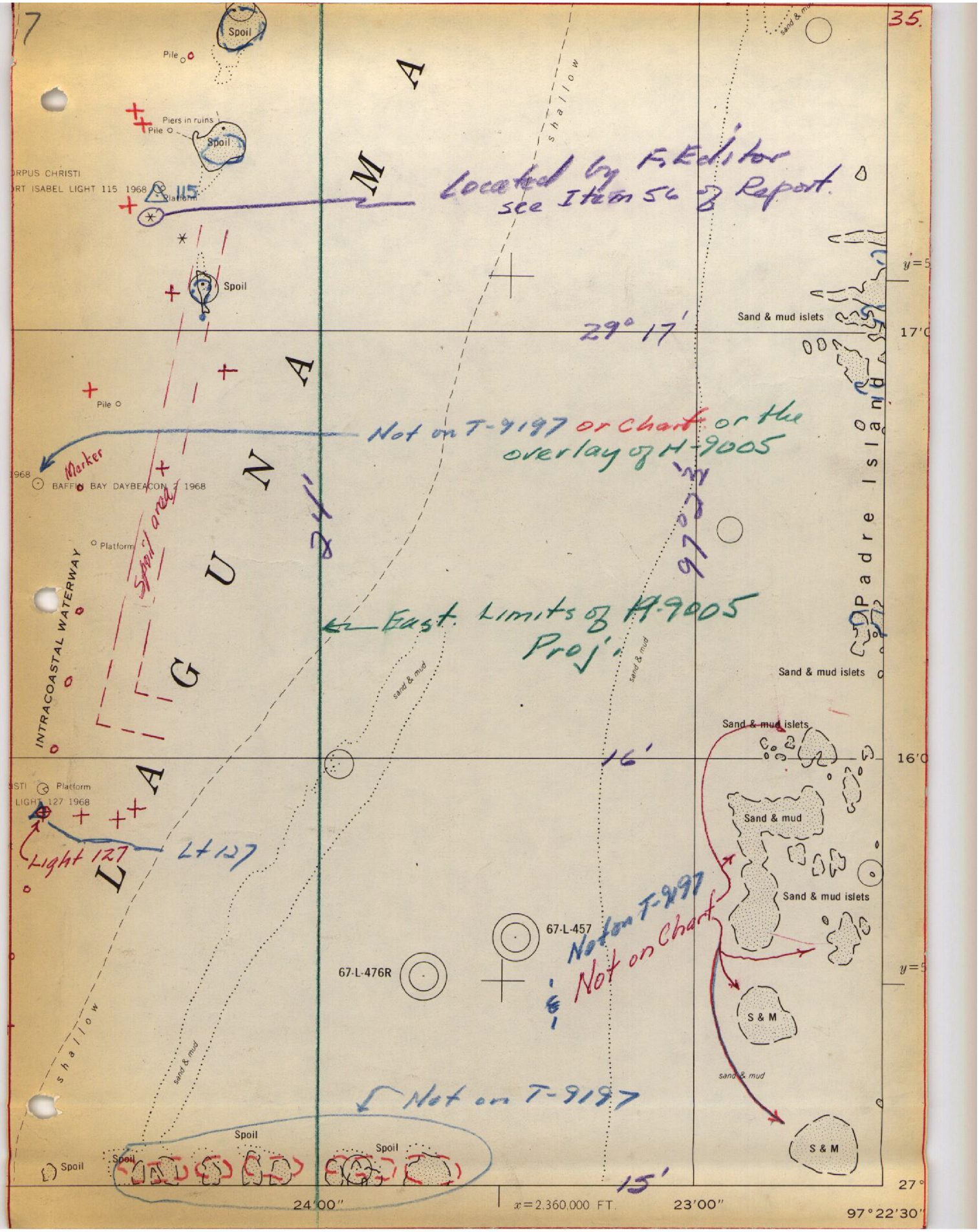
Not on chart On H-9005

29°18'


Subm. Piles
East Limit of H-9005
Now since T-9197
Not on chart
East Limits of H-9005 Proj.
Spoil Islands south of here
not on H-9005 overlay.
Point of Rocks
Platform
Shallow
Foul rocks and weeds
Foul with rocks & weeds
Depths 1½ to 2 ft ±tMLW
Not on chart
Private Markers
CORPUS CHRISTI
PORT ISABEL DAYBEACON 97 1968
CORPUS CHRISTI
PORT ISABEL DAYBEACON 101 1968
CORPUS CHRISTI PORT ISABEL LIGHT 103 1968
INTRACOASTAL
Chart 893
97°28'W
29°19'
29°18'
20'0
19'0
18'0
32


33.
Trail
Pond
Pond
P
Trail
=590,000 FT.
17'00"
BAFFIN BAY DAY
BAFFIN BAY DAYBEACON 20 1968
BAFFIN BAY DAYBEACON 22 1968
BAFFIN BAY DAYBEACON 24 1968
16'00"
BAFFIN BAY DAYBEACON 26 1968
BAFFIN BAY DAYBEACON 28 1968
67-L-454
=580,000 FT.
67-L-473R
27°15'00"
97°30'00"
x=2,330,000 FT.
29'00"
28'00"
15'
B A F F I
Aids not on T-9197 or Chart
or the overlay of H-9005


A: Note by field editor on Chart 894 attached to Field Edit ozalid for T-13816
NOTE: Rocks awash without heights, are awash at both M.H.W. and M.L.W.
NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation.
Aids as at T-9197 or Chart H-9005 or the overlay of
BAFFIN BAY DAYBEACON 8 1968
BAFFIN BAY DAYBEACON 10 1968
BAFFIN BAY DAYBEACON 6 1968
BAFFIN BAY DAYBEACON 4
BAFFIN BAY DAYBEACON 12 1968
BAFFIN BAY DAYBEACON 14 1968
BAFFIN BAY DAYBEACON 16 1968
A
"See Field Edit Report for this area"
Foul with rocks
Pt Penascal
Sand dunes
A
"Rocks could not be found"
67-L-455
67-L-456
67-L-474R
67-L-475R
Pond
Trail
PENASCAL
RINCON
Spoil Area
A
"Submerged Jetty"
Sunken rock on chart
Pile
Platform
x=2,340,000 FT.
27'00"
26'00"
25'00"


35.
Spoil
Pile
Piers in ruins
Pile
Spoil
CORPUS CHRISTI
PORT ISABEL LIGHT 115 1968
Platform
115
Located by F. Editor
see Item 54 of Report.
Spoil
Pile
Marker
BAFFIN BAY DAYBEACON 2 1968
Platform
Spoil area
INTRACOASTAL WATERWAY
Platform
LIGHT 127 1968
Light 127
LT 127
LAGUNA MADRE
shallow
sand & mud
Sand & mud islets
Padre Island
Not on T-9197 or Chart or the overlay of H-9005
East Limits of H-9005 Proj.
29° 17'
97° 23' 24"
24'
16'
15'
67-L-457
67-L-476R
Not on T-9197
Not on Chart
Sand & mud
Sand & mud islets
S & M
Not on T-9197
Spoil
Spoil
Spoil
Spoil
y=5
17'0
16'0
27°
24'00"
x=2,360,000 FT.
23'00"
97°22'30"

NOTES TO VERIFIER
T-13016, JOB PH-6711
BOAT SHEET NO. H-9005 (745-20-2-68)

Please note Items 64 and 65 of the Descriptive Report for T-13016, and pages 29 thru 35 .