

5311

U. S. COAST & GEODETIC SURVEY  
LIB D ARCHIVES  
JUL 23 1934  
Acc. No. \_\_\_\_\_

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton, Director

State: Louisiana

**DESCRIPTIVE REPORT**  
Photo  
Topographic } Sheet No. T-5311 5311  
~~Hydrographic~~

LOCALITY

Barataria Bay

Grand Isle to Robinson Bayou.

1934

CHIEF OF PARTY

M. H. Reese, Jr. H. & G. Engr.

Applied to CH# 1273 - Oct. 1935 - HSB.  
" " " 1271 Dec 1937 - HSB.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5311

TOPOGRAPHIC TITLE SHEET

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

Field No. 24 5311

REGISTER NO. T-5311 5311

State Louisiana

General locality Barataria Bay

Locality Grand Isle to Robinson Bayou.

Scale 1: <sup>20,000</sup>~~24,000~~ Photographs. Date of ~~survey~~ 12/21/32, 19

✓~~Wassak~~ Air Photo Compilation Party No. 24, New Orleans, La. Date of Compilation May 9, 1934.

Chief of party M. H. Reese.

Surveyed by See data sheet in the descriptive report.

Inked by A. A. de Carriere.

Heights in feet above -----to ground to tops of trees

Contour, Approximate contour, Form line interval-----feet

Instructions dated November 7, 1933.

Remarks: Compiled on a scale of 1:24,000 and enlarged and printed on scale of 1:20,000 by Photo-Lithography.

...

- NOTES ON COMPILATION -

SHEET NO. T-5311

FIELD NO. 24

PHOTOS, NO.	DATE OF PHOTOGRAPHS	TIME
302-312	12/21/32	10:56 to 11:00 A. M.
473-480	12/21/32	10:47 to 10:50 A. M.

	BY	DATE
PROJECTION BY	<u>E. P. Hernandez</u>	<u>3/29/34</u>
PROJECTION CHECKED BY	<u>H. C. Smith</u>	<u>3/29/34</u>
CONTROL PLOTTED BY	<u>E. P. Hernandez</u>	<u>4/4/34</u>
CONTROL CHECKED BY	<u>H. C. Smith</u>	<u>4/4/34</u>
RADIAL LINE PLOT BY	(East Flight)- <u>H. C. Smith</u> (West Flight)- <u>E. P. Hernandez</u>	<u>4/3-7/34</u>
RADIAL LINE PLOT CHECKED BY	<u>M. H. Reese</u>	<u>4/9/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>A. A. de Carriere</u>	<u>4/13-29/34</u> <u>5/5-9/34</u>
PASTING OF NAMES BY	<u>A. A. de Carriere</u>	<u>5/ 12-14/34.</u>
REVIEW OF COMPILATION BY	<u>A. A. de Carriere</u>	<u>5/ 11/34.</u>

AREA OF DETAIL INKED-- 28.1 sq Statute Miles.

LENGTH OF SHORELINE-- (more than 100 meters from nearest opposite shore)  
187.2 Statute Miles.

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 24.

GENERAL INFORMATION:

Instructions dated November 7, 1933.

The information used in the compilation of this sheet has been obtained from the notes and sketches on the field photographs, from members of the field inspection party in questionable areas, from the reports and data of Lieutenant T. B. Reed, engaged in triangulation and combined operations work in this vicinity at the time of the compilation.

The accompanying "Notes on Compilation" detail all data and statistics in connection with the compilation of this sheet.

The shore-line along the Gulf Coast was taken from the field photographs on which the field inspection party had sketched in the high water line.

Normal tide variation in this locality is very slight (approximately one foot) and its effect was neglected because of the small scale of photographs. The shore-lines of the bays, lakes and bayous in the area shown by this sheet, however, are subject to change because of the abnormal tides during the winter season, which are caused by the high winds backing up the waters of the Gulf or forcing them out of the bayous and lakes.

The land area consists principally of low marsh ground, a very small portion of which is either cultivated or developed.

This sheet was compiled from photographs taken by the U. S. Army Air Corps' five lens T-3A Camera, No. 32-3, photograph Numbers-302-312 (West Flight) approximately parallel with Longitude  $89^{\circ}55'45''$  and 473-480 (East Flight) approximately parallel with Longitude  $89^{\circ}48'15''$ .

(SEE ATTACHED MEMORANDUM)

CONTROL:

(A) SOURCES.

(a) Triangulation by H. W. Hemple- 1928.

(b) Triangulation by Lieutenant T. B. Reed-1933-34.

In the compilation of this sheet the Geographic Positions obtained by H. W. Hemple in 1928 were on the North American datum and were tied in with the triangulation executed in that year by W. Mussetter to the westward.

These geographic positions were recently recomputed to the North American 1927 datum, (by a member of Lieutenant E. R. McCarthy's party) eastward from the triangle "Amos", "Beach", "Hammock" which had been adjusted to the North American 1927 datum. Recent ties with first order triangulation indicate very small error in this area.

These positions were used and supplemented by those of Lieutenant T. B. Reed who was engaged in combined operations work in this locality at the time of the compilation. A number of hydrographic stations, located by triangulation and marked and described by Lieutenant T. B. Reed-1934, were used as additional control in the compilation and these stations are shown by a circle, ~~two~~ <sup>three</sup> millimeters in diameter.

Because of the recent ties with first order triangulation to the North and East of this sheet any existing error between the unadjusted and the final adjusted positions would be unplottable at the small scale of the photographs- 1:24,000. Further data concerning the control in this area can be obtained from the report of Lieut. T. B. Reed, 1934.

(B) Discrepancies:

No discrepancies in position of control stations was found, and no control stations established by other organizations were used in this compilation.

COMPILATION:

(A) Method:

The usual five lens radial line method of plotting was used throughout in the compilation of this sheet.

(B) Adjustment of Plot:

The photographs in the two strips covering the area shown by this sheet appear to be free of excessive tilt and scale fluctuation except photograph No. 475 which was discarded because of excessive tilt and distortion. The radial plot required no unusual adjustments.

(C) Interpretation:

To denote mangle brush three or four feet high, the symbol used was ( ? ), otherwise, only the conventional graphic symbols were used as approved by the "Board of Surveys and Maps" (1932) and no great difficulty was experienced in interpreting photographic detail except on several of the photos of the East Flight, Nos. 473-480, as follows:

In the northern portion of this flight the marshy isles gradually merge with mud-flats and very shallow water, which condition combined with somewhat dim photographs necessitated careful study of the precise delineation of the shorelines.

The large canals, bayous and hard surface roads are indicated by double full lines; secondary roads or streets by double broken lines; and lesser bayous and canals by one solid line depending in weight upon the importance of the feature.

Those appearing on "Grand Terre Isle" are drainage canals and ditches of the old sugar plantation now covered with marsh and grass.

In most cases (unless labeled on the field inspection prints) the classification of all features had to be determined by a close examination of the photographs.

(D) Information From Other Sources:

Information was derived from the ground survey of the Freeport Sulphur Company-1934, and also the ground survey of Lieut. T. B. Reed-1934, besides that taken from the photographs, reports of the field inspection party, and those noted above under "General Information". See report for sheet No. T-5318 under heading "COMPILATION" sub-heading "Information From Other Sources" for further information concerning the ground survey of the Freeport Sulphur Company.

(E) Conflicting Names.

The names of the main features shown on this sheet were taken from U. S. Coast and Geodetic Survey Chart No. 196, while those of the lesser features were taken from *obtained* the ~~original sketches~~ of Lieutenant T. B. Reed. The names shown are in current usage by the inhabitants of that area and as far as can be ascertained no conflict in names exists. ~~The names shown may be later supplemented by hydrographic parties working in this area.~~

COMPARISON WITH OTHER SURVEYS.

The junctions with adjoining sheets to the North, East and West, Nos.- T-5310, T-5319 and T-5301, respectively are satisfactory.

In comparing this sheet with U. S. Coast and Geodetic Survey Chart No. 196, it is to be noted that the Gulf shore line has remained fairly constant, while the shore lines of the inland marshy areas have undergone considerable changes. However, the general characteristics of the islands, bays, etc. may be readily noted.

LANDMARKS:

The land marks in the area covered by this sheet will be furnished on Form 567 by Lieutenant T. B. Reed, who was engaged in combined operations work in this area at the time of the compilation.

RECOMMENDATIONS FOR FURTHER SURVEYS.

The compilation of this sheet is believed to have a probable error of five meters in well defined detail of importance for plotting and ten meters for other data. There was no need to exaggerate any detail of importance in order to keep it distinct in the photolithographic process.

To the best of my knowledge this sheet is complete in all details of importance for charting purposes within the accuracy stated above, and no additional survey is required.

Submitted by: A. A. de Carriere.  
Draftsman.

Approved by *M. H. Reese*  
M. H. Reese.  
Chief of Party.

## REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5311

Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by A. A. de Carriere.

Project Louisiana Air Photo Compilation Instructions dated November 7, 1933/

Party No. 24.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.) (Note) Par. 8 not applicable to this party.
2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
3. The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.) None submitted.
5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
6. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) See Par. C, Page 3 of Des. Report.
7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. No changes in such details have been noted on this sheet.
8. The span, draw and clearance of bridges are shown. (Par. 16c.)
9. The data furnished by the Field Inspection is adequate.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.



10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
12. *None submitted*  
The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.)
13. *None submitted. Sent in by Hydro. Party.*  
A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)
14. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.) *unadjusted.*
15. Junctions with contemporary surveys are adequate.
16. *Geographic Names edited Nov 3, 1934. See attached list.*  
Geographic names are shown on the sheet and are covered by the *H. Bacon* Descriptive Report. (Par. 64, 66k.) *New names are reported in current local use and are shown on the compilation pending Mr. Bacon's decision. Only 1 such name, all others agree*
17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, *with the* 37, 38, 39, 40, 41, 42, 45, 46.)
18. No additional surveying is recommended.
19. Remarks:
20. Examined and approved: *M. H. Reese*  
M. H. Reese.  
Chief of Party
21. Remarks after review in office: *See review report at back.*

Reviewed in office by: *B. G. Jones*

Examined and approved: *K. T. Adams*  
Chief, Section of Field Records

*L. O. Dolbert*  
Chief, Division of Charts

*J. B. Borden*  
Chief, Section of Field Work  
*G. H. Hulse*  
Chief, Division of  
Hydrography and Topography.

SHEET. #  
T-5311

MEMORANDUM TO ACCOMPANY DESCRIPTIVE REPORT SHEET NO. T-5311

Enclosed in this report is a photostated copy of a portion of the topographic sheet by T. B. Reed in 1934, showing differences in shore line as determined, or interpreted by the plane table survey of this area. The high water line as traced on the photo sheet is represented by a solid red line, thus (——).

The difference in location of the high water line is due to the considerable changes that have taken place between the date the photographs were taken, namely, December 12, 1932, and the time of the plane table survey, 1934, and from the interpretation of the high water line.

In the determination of the shore line from approximately latitude  $29^{\circ}16'10''$  and longitude  $89^{\circ}57'00''$  to latitude  $29^{\circ}14'15''$  and longitude  $89^{\circ}59'00''$ , the field party interpreted the grass line as the high water line. This is actually the storm high water line according to notes of the field inspection party.

The difference in shore line in the two surveys between latitude  $29^{\circ}16'00''$  and  $29^{\circ}18'00''$  and longitude  $89^{\circ}52'00''$  and  $89^{\circ}57'00''$  shows changes that have been brought about by tidal conditions since date of photographs. The same, in all probability, applies to that stretch of shore line between latitude  $29^{\circ}18'00''$  and  $29^{\circ}19'00''$ , longitude  $89^{\circ}46'00''$  and  $89^{\circ}52'00''$ .

*Above written by Reese but not signed.*

*In par 1 above, The <sup>difference</sup> change from Long.  $89^{\circ}57'$  to  $89^{\circ}58'$  seems more likely to be due to storm action. BGS. See the following review.*

Review of Air Photo Compilation T 5311 (1934)

Comparison with contemporary surveys: The area of this compilation is covered in part by plane table surveys T 6077, T 6078 and T 6079, scale 1:20,000, (Dec., 1933 to May, 1934); and by hydrographic surveys H 5490, H 5492 and H 5493, (1934), of T. B. Reed. The plane table surveys show only the outside H. W. line, and signals located for hydrography along the outside coast, and detail at the Freeport Sulphur Company plant.

The plane table surveys were not completed until after completion of this compilation. Reese was, therefore, instructed that in view of the constant changes along the outside coast, it would not be necessary to transfer the shoreline from the plane table surveys to his compilations. Copies of correspondence are attached at the back of this report.

Attached at the back of this report are photostat copies of the plane table surveys with H. W. line from the compilation shown in red. These were forwarded by Reese with notes shown thereon stating his estimate of the causes of the differences illustrated. In nearly every case, Reese has attributed the differences to change since the photos were taken, 1932. The descriptive reports for plane table surveys T 6077 and T 6078 attribute these differences to change and state that in some areas the change is considerable after every storm.

The outside H. W. line on the compilation has been changed to agree with the plane table surveys, so as to show the latest available information. A note has been placed on the compilation stating that the M.H.W. line on the outside coast is from ground surveys from Dec., 1933, to May, 1934. The photostats attached at the back of the report furnish a record of the H.W. line as compiled from the 1932 photos.

The compilation at Lat.  $29^{\circ}21'$ , Long.  $89^{\circ}46'$ , agrees with plane table survey T 6079 as to location of detail of the Freeport Sulphur Company plant. All information on the plane table survey is shown on the compilation. See page 3 of the descriptive report for method of locating this detail.

Comparison with hydrographic surveys H 5490, H 5492 and H 5493 shows no conflict with the compilation. Shoreline from the compilation has been transferred to the hydrographic surveys by the field parties.

Comparison with the last previous topographic surveys Nos. T 1468, (1877) and T 1648 (1883) shows considerable changes. The larger features can be recognized but there have been many changes in the islands and points. The compilation is adequate to supersede the old surveys.

Names: There is no conflict in names between this compilation and chart 196 and the U.S.G.S. quadrangle. A number of new names are shown as submitted by the field parties. See page 4 of the descriptive report. \*

Control: The hydrographic stations mentioned in the last paragraph of page 2 of the descriptive report were actually located by triangulation but were marked by hydrographic station marks. The data for these stations are filed

\* The name Bassa Bassa Bay, lat.  $29^{\circ}21'$  - long  $90^{\circ}00'$  as shown on this compilation and on chart 196 is in accordance with chart letter 299, 1925. This Bay is shown as Round Bay on chart 197.

as triangulation in the Division of Geodesy and the stations have been changed to triangulation stations on the compilation.

At the ~~eastern~~<sup>western</sup> end of this compilation the radial plot was made more difficult by the fact that many of the photo centers fall over the water. However, this condition is not likely to have caused any considerable loss of accuracy as there was ample control and the photographs were free from large tilts. The accuracy of location given in last paragraph on page 4 is too high for work on this scale. A better value would be an accuracy of location of about 8 to 10 meters for intersected points and 10 to 20 meters for other detail.

*B. G. Jones*  
B. G. Jones.

*Note additions shown in red on file  
copy applied 2/7/35 shortly after sheet  
was registered but prior to its use  
for chart corrections.*

*B. G. Jones*

C O P Y

Post-Office Address: U. S. Coast & Geodetic Survey,

Telegraph Address: 1611 Masonic Temple Bldg.,

Express Address: New Orleans, La.

June 28, 1934.

To: The Director,  
U. S. Coast & Geodetic Survey,  
Washington, D. C.

From: M. H. Reese,  
Lieut. (j.g.), C. & G. S.

Subject: Comparison of Shoreline Surveys:

Enclosed you will find photostat copies of Lieutenant Reed's topographic sheets, with shoreline traced from the photo sheets in red on the photostat.

I am forwarding this for your decision as to whether the shoreline from the field sheets should be transferred to the photo sheets. You are advised that this survey was not available when the photo compilations were made, as Mr. Reed just recently finished inking his topo sheets.

The differences shown on the photostats are due to two causes. The most important one is the changes that have taken place since the photographs were taken. The secondary cause is misinterpretation of the highwater line. The field party, in most cases, has used the extreme highwater line instead of the mean highwater line, as advocated on page 69 of the Topographic Manual. This fact is more or less proved by use of the photographs when checking against the field survey, and several stretches of the beach of which I made the inspection, I found this to be the case.

Lieutenant Reed has plotted practically all of his hydrography in this area and to date no errors have been found in the air photo sheets, of any consequence.

It is requested that I be advised what procedure to take in regards to the shoreline.

I am forwarding this date, twenty-one sheets to the office. The sheets in question are being held.

(Sgd.) M. H. Reese.

26-RS  
1990 (24)

July 3, 1934.

To: Lieutenant (j.g.) M. H. Reese,  
Coast and Geodetic Survey,  
1611 Masonic Temple Building,  
New Orleans, Louisiana.

From: The Director,  
U. S. Coast & Geodetic Survey.

Subject: Shoreline surveys.

In reply to your letter dated June 28, 1934, it appears that the outer shoreline along the Gulf is so unstable that the additional expense of investigating the discrepancies with Lieutenant Reed's sheets is not warranted. You may, therefore, transmit the sheets without transferring the shoreline to the eastward of Longitude  $90^{\circ} 03'$ . Your descriptive reports should give a full description and explanation of the differences.

Stable bayous or marsh areas inside the outer coast should be reconciled with the hydrographic sheets before the work is forwarded to this office in accordance with my letter of June 18, 1934.

Should shoreline corrected for the effects of the recent storm become available for the areas in which Lieutenant Reed is now working before you are ready to return the compilations of that area to this office, such shoreline should be shown on the photo compilations together with any corrections to the inner topography. Notes on the sheets and in the descriptive reports should indicate clearly the information so transferred.

(Sgd.) R. S. Patton

Director.

## GEOGRAPHIC NAMES

Survey No. T-5311Date. January 6, 1936Sheet OneChart No. 196

Diagram No. \_\_\_\_\_

\*, Approved by the Division of Geographic Names, Department of Interior.

Ø, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Underlined namesNomenclature agrees with U.S.G.S.approved Jan. 7, 1936 AB

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Bassa Bassa</u> ✓	✓	<i>Origin of this name uncertain.</i>		
	<u>Bassa Bassa Bay</u> ✓	✓			
	<u>Pelican Point</u> ✓	✓			
	<u>East Champagne Bay</u> ✓	✓			
	<u>Bayou Quatre</u> ✓	✓			
	<u>Mendicant Islands</u> ✓	✓	<i>Changed to Plural.</i>		
	<u>Bay des Ilettes</u> ✓	✓			
	<u>Bayou Beauregard</u> ✓	✓			
	<u>Point Peiro</u> ✓	✓			
	<u>East Point</u> ✓	✓			
	<u>Bayou Fifi</u> ✓	✓			
	<u>Fifi Island</u> ✓	✓			
	<u>Panama Point</u> ✓	✓			
	<u>Grand Isle (island)</u> ✓	✓			
	<u>Grand Isle (settlement)</u> ✓	✓			
	<u>Bayou Ragaud</u> ✓	✓	<i>Not Regault U.S.G.S. Survey of 1935</i>		
	<u>Shell Reef</u> ✓	✓			
	<u>Bird Reef</u> ✓	✓	" " "	" " "	" " "
	<u>Barataria Pass</u> ✓	✓			
	<u>Barataria Bay</u> ✓	✓			
	<u>Independence Island</u> ✓	✓			
	<u>Queen Bess Island</u> ✓	✓			



## GEOGRAPHIC NAMES

Survey No. T-5311Date. January 6, 1936Chart No. 196Sheet Two

Diagram No. \_\_\_\_\_

\* Approved by the Division of Geographic Names, Department of Interior.

Ø, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Underlined namesNomenclature agrees with U.S.G.SApproved Jan 7, 1936, A.B.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Fort Livingston</u> ✓	✓			
	<u>Pass Justin</u> ✓	✓	<u>Pass Justin</u>	See P.R. Top 6077	
	<u>Pass Abel</u> ✓	✓	<u>Pass Abel</u>	" " " "	
	<u>Grand Terre Island</u> ✓	✓	<u>Grand Terre Island</u>	" " " "	
	<u>Bay Melville</u> ✓	✓			
	<u>Grand Bank Bayou</u> ✓	✓			
	<u>Bay Dispute</u> ✓	✓			
	<u>Cat Bay</u> ✓	✓			
	<u>Bay Ronquille</u> ✓	✓			
	<u>Cheniere Ronquille</u> ✓	✓			
	<u>Bay Cheniere Ronquille</u> ✓	✓			
	<u>Quatre Bayoux Pass</u> ✓	✓	Plural form.		
	<u>Bay Long</u> ✓	✓			
	<u>Lake GrandeEcaille</u> ✓	✓			
	<u>GrandeEcaille Oil Field</u> ✓	✓			
	<u>Bay La Mer</u> ✓	✓			
	<u>Bayou la Mer</u> ✓	✓			
	<u>Robinson Bayou</u> ✓	✓			
	<u>Lake Robinson</u> ✓	✓	Robinson Bay on H5495. Investigation by U.S.G.S shows Lake Robinson to be correct name.		
	<u>Pipe Bay</u> ✓	✓			
	<u>Billet Bay</u> ✓	✓	<u>Billet Bay</u>	See H. 5495	
	<u>Gulf Of Mexico</u> ✓	✓	<u>Pipe Bay</u>	" "	



