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U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Louisiana

DESCRIPTIVE REPORT

Photo  
Topographic  
~~Hydrographic~~

Sheet No. T-5310 5310

LOCALITY

Barataria Bay

Bayou St. Denis to Bay

San Bois.

1934

CHIEF OF PARTY

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

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5310

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. 23

REGISTER NO. T-5310 5310

State Louisiana

General locality Barataria Bay

Locality Bayou St. Denis to Bay San Bois

Scale 1:24,000 Photographs: 12/21/34  
Date of survey 12/21/34, 19

~~Messick~~ Air Photo Compilation Party, No. 24, New Orleans, La.

Chief of party M. H. Reese

Surveyed by See data sheet of Descriptive Report.

Inked by M. E. Gill, Jr.

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 a scale of 1:20,000 by Photo-Lithography.

- NOTES ON COMPILATION -

SHEET NO. T-5310

FIELD NO. 23

PHOTOS, NOS:	DATE OF PHOTOGRAPHS	TIME
313-322	12/21/32	11:00 to 11:04 A. M.
463-472	12/21/32	10:41 to 10:47 A. M.

	BY	DATE
PROJECTION BY	<u><i>E. P. Hernandez</i></u> E. P. Hernandez	<u>3/30/34</u>
PROJECTION CHECKED BY	<u><i>H. C. Smith</i></u> H. C. Smith	<u>3/30/34</u>
CONTROL PLOTTED BY	<u><i>R. E. Wagner</i> <i>E. P. Hernandez</i></u> R. E. Wagner & E. P. Hernandez	<u>4/4-5/34</u>
CONTROL CHECKED BY	<u><i>E. P. Hernandez</i></u> E. P. Hernandez	<u>4/5/34</u>
RADIAL LINE PLOT BY	<u><i>H. C. Smith</i> <i>E. P. Hernandez</i></u> East Flight- H. C. Smith West Flight- E. P. Hernandez	<u>4/5-7/34</u>
RADIAL LINE PLOT CHECKED BY	<u><i>M. H. Reese</i></u> M. H. Reese	<u>4/8/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u><i>M. B. Gill, Jr.</i></u> M. B. Gill, Jr.	<u>5/6 to 6/6/34</u>
PASTING OF NAMES BY	<u><i>M. B. Gill, Jr.</i></u> M. B. Gill, Jr.	<u>6/7/34</u>
REVIEW OF COMPILATION BY	<u><i>M. B. Gill, Jr.</i> <i>M. H. Reese</i></u> M. B. Gill, Jr.	<u>6/8/34</u>

AREA OF DETAIL INKED-- 58 sq. Statute Miles.

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

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 23

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; and from the reports and data of Lieut. T. B. Reed, engaged in combined operations work during the time of compilation.

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

The tide variation is very slight, approximately one foot, and its effect was neglected, because of the small scale of the photographs-1:24,000. The shore-lines of the bays, lakes, and bayous are subject to change due to the high tides during the winter caused by strong winds.

The land area is practically all low marsh, subject to overflow, and none is under cultivation.

This sheet was compiled from photographs taken by the U. S. Army Air Corps' five lens, T-3A camera, No. 32-3, photograph numbers, 313-322 (West Flight) approximately parallel with longitude 89°55'40", and 463-472 (Est Flight) approximately parallel with longitude 89°48'00".

CONTROL:

(A) Sources:

The following sources of control were used in the compilation of this sheet:

(a) Triangulation by Lieut. T. B. Reed, 1933-34.

(b) Triangulation by Lieut. C. I. Aslakson, 1934.

Geographic Positions established by Lieut. T. B. Reed 1933-34, and Lieut. C. I. Aslakson, 1934, were used. These are on the North American 1927 Datum and the field computations were used.

These positions were supplemented by a number of hydrographic stations, located by triangulation and marked and described by Lieut. T. B. Reed, 1934. They were used as additional control in the compilation and are shown by a circle three millimeters in diameter. *See review at back.*

(B) Errors:

The control is adequate for this sheet and the radial plot gave good intersections.

(C) Discrepancies:

No discrepancies in position of control stations were found. 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 appear to be free of excessive tilt and scale fluctuation and 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 the photographic detail. All boundaries of shoal areas were shown by dotted lines. These were taken from the photographs and from notes and sketches of the field inspection parties, and may be expected to have departure from actual conditions.

There are no roads in the area of this sheet. The large bayous and canals are shown by double full lines, while the lesser bayous and canals by one solid line, depending in weight upon the importance of the feature. In most cases, unless labeled on the field inspection prints, the classification of said features had to be determined by close examination of the photographs.

(D) Information From Other Sources:

The only information obtained from other sources than the photographs and reports and sketches of the field inspection party was, that concerning the Freeport Sulphur Company's canal and plant. As this canal was dug and the plant built after the photographs were taken (1932) a construction print of the project was obtained from the Freeport Sulphur Co. This was complete and was on a scale of one inch equals four hundred feet, which was reduced, by the use of a pantograph, to the scale of this compilation, 1:24,000. Triangulation Station, Wash, 1927-1934, was used as the initial point of the grid system that was used by the Freeport Sulphur Co.'s Engineers. Recent triangulation in this area located two water tanks, one at the loading station near the Mississippi River, and the other at the plant (Grande Ecaille), also Station Rattlesnake-1934, was established at this time. The reduction checked in very closely with the photographs as to topography and the control stations held perfectly. It is believed that this area is faithfully shown within the allowable limits of error.

*See review at back*

(E) Conflicting Names:

*in pencil*  
Names examined and additions made and  
approved Dec. 22, 1934. Names should be lettered  
on sheet and list made. Harlow Bacon

The names shown on this sheet were taken from U. S. Coast and Geodetic Survey Chart No. 196, U. S. Geological Survey Quadrangle Sheet "Fort Livingston", U. S. Engineers' Map of Southern Louisiana and notes of the field inspection party. There is no conflict in names, so far as is known.

COMPARISON WITH OTHER SURVEYS:

The junction with the adjoining sheets, T-5309 to the North, T-5318 to the East, T-5311 to the South, and T-5300 to the West are satisfactory.

In comparing this sheet with U. S. Coast and Geodetic Survey Chart No. 196, it is noted that although the general outline is the same, erosion, probably caused by storms and currents, has reduced the area of the land.

Considerable difference is noted between the outstanding features shown by dashed lines on U. S. Coast and Geodetic Survey Chart No. 196 and the same on this sheet.

LANDMARKS:

The landmarks in the area covered by this sheet will be furnished on Form 567 by Lieut. T. B. Reed, who was engaged in combined operations work in this area at the time of this 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 charting and of ten meters for other data. It is understood that the widths of canals and bayous may be slightly exaggerated, where necessary, in order to keep the detail clear and to keep it from photographing as a solid area in the photo-lithographic process. *See the review at back*

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.

*M. B. Gill, Jr.*  
Submitted by: M. B. Gill, Jr.  
Draftsman

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

## REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5310

Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by M. B. Gill, Jr.

Project Louisiana Air Photo Compilation Instructions dated Nov. 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.) *Triangulation is closely spaced in this area.*
13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)  
*Jobe furnished by Hydrographic party of T.B. Reed.*
14. The geographic datum of the sheet is North American 1927 <sup>unadjusted.</sup> and the reference station is correctly noted. (Par. 34.)
15. Junctions with contemporary surveys are adequate.
16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) *See page 4, Desc Rept.*
17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 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 following review report.*

Reviewed in office by:

*B. G. Jones*

Examined and approved:

*K. T. Adams*  
Chief, Section of Field Records  
*L. O. Polbat*  
Chief, Division of Charts

*H. B. Jordan*  
Chief, Section of Field Work  
*G. H. Rude*  
Chief, Division of  
Hydrography and Topography.

3  
Review of Air Photo Compilation 5010 (1934)

Control: The hydrographic stations mentioned under Par. A, page 2, of the preceding descriptive report were actually located by triangulation but marked with hydrographic marks. The data for these stations are filed as triangulation in Division of Geodesy and the stations have been changed to Triangulation stations on the compilation.

The control was adequate for this compilation but the accuracy of location given on page 4 of the descriptive report is too high for work on this scale. A better value is an accuracy of location of 8 to 10 meters for intersected points and 10 to 20 meters for other detail.

Names: Names are in agreement with chart 196 and the U.S.G.S. quadrangle Fort Livingston. This compilation shows only one new name not on chart 196, St. Mary's Point. See Par. E, page 4, of the descriptive report for sources. *See Par. E page four for names. H. Bacon*

Comparison with other surveys: There is no conflict in information shown on this compilation and the hydrographic surveys H 5492, H 5494 and H 5495, (1934) of T. B. Reed. Shoreline from the compilation was transferred to the Smooth Sheets by the Field Party.

The Freeport Sulphur Company plant and Canal, Lat.  $29^{\circ}-23'$ , Long.  $89^{\circ}47'$ , is shown also on plane table survey T 6079 (1934). This detail was applied to both the compilation and the plane table survey from a construction blue print of the Freeport Sulphur Company, using triangulation stations for control. See page 2 of the report for T 6079 and page 3 of the report for this compilation, T 5310. The azimuth of the canal differs on the two surveys there being a difference in location of 50 meters at Lat.  $29^{\circ}24'$ , Long.  $89^{\circ}45'$ . The compilation is accepted as correct in view of the statement in the descriptive <sup>report</sup> for T 6079 that the canal may be in error as shown on the plane table survey. The shoreline at the plant in Lat.  $29^{\circ}22.5'$  to  $29^{\circ}23'$  differs considerably <sup>between</sup> ~~on~~ the compilation and T 6079. The compilation should be used in this area as the shoreline has been carried to a junction with that taken from the photographs while on the plane table sheet it is left hanging as transferred from the blueprint without any connection to adjoining work.

The compilation has been compared with plane table survey T 1468 (1877). Large changes have occurred in some of the islands and points in Barataria Bay. In the smaller bays much of the detail remains about the same in shape and appearance. The compilation is adequate to supersede the old survey.

*B. G. Jones*

*Note: Additions shown on file copy in red applied 2/7/35 after registering but prior to use of the sheet for chart correction*

Lat  $29^{\circ}26'$   
 $29^{\circ}22'$   
 $29^{\circ}23'$   
 $29^{\circ}26'$

Long  $89^{\circ}-46'$   
 $89^{\circ}45'$   
 $89^{\circ}45'$   
 $89^{\circ}58'$

*B. G. Jones*

## GEOGRAPHIC NAMES

Date. January 7, 1935Chart No. 198 + 1116-1273Names underlined in red approved Jan 7, 1935

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.

*Harlow Bacon*  
 Comparisons made with  
 U.S. Nat. Survey, U.S. Engs  
 Map and various maps  
 of Louisiana Sept 20, 1935

Status	Name on Survey	<i>List of authorities not put down in this</i> Name on Chart <i>column.</i>	New Names in local use	Names assigned by Field	Location
	<u>Bayou St. Denis</u> <sup>new ch.</sup> 1273 ✓				
	<u>Grand Bayou</u> ✓ 1273 ✓				
	<u>Barataria Bay</u> ✓ 1273 ✓				
	<u>St. Mary's Point</u> <sup>omit H.B.</sup> 1273 ✓		<u>St Marys Point</u>		
	<u>Wilkinson Bay</u> ✓ 1273 ✓				
	<u>Wilkinson Bayou</u> ✓ (2) 1273 ✓				
	<u>Bayou Cooper</u> ✓ 1273 ✓				
	<u>Bay Chene Fleur</u> ✓ 1273 ✓				
	<u>Bay Batiste</u> ✓ 1273 ✓				
	<del>Cheniere Bayou</del> (2) 1273	Change to <u>Grande Cheniere Bayou</u> (USGS, 1935) H.B.			
	<u>Lake Grande Ecaille</u> 1273 ✓				
	<u>Bayou Dulac</u> ✓ 1273 ✓				
	<u>Freeport Sulphur Co. Canal</u> 1273		<u>Same</u>		
	<u>Bay San Bois</u> ✓ 1273 ✓				
	<u>Manilla</u> ✓ 1273 ✓				
	<u>Wilkinson Canal</u> 1273 ✓				
	<u>Bayou Dupont</u> 1273 ✓	USGS, 1935 H.B.			
	<u>Bay Jimmy</u> 1273 ✓	" "			
	<u>Bayou Cholas</u> (Village) 1273 ✓	" "			
	<u>Bayou Defon</u> (Village) 1273 ✓	" delete KTA	<u>Bayou Defond</u> USGS (1935)		
	<u>Saturday Island</u> 1273 ✓	" "			
	<u>Socola Canal No 2</u> 1273 ✓	" "			

