

5309

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

State: Louisiana

DESCRIPTIVE REPORT
Photo }
Topographic } Sheet No. T-5309 **5309**
~~Hydrographic~~

LOCALITY

Mississippi River
Round Bay to Socola Canal

1934

CHIEF OF PARTY

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

5309

applied to Chit. 1050 May 1937
" " " 1271 Dec 1937

Chas. R. Smith J.
D.D. Smith

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5309

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. 22

REGISTER NO. T-5309 5309

State Louisiana.

General locality Mississippi River

Locality Round Bay to Scola Canal

Scale 1:20,000 Photographs: 12/21/32
1:24,000 Date of survey 12/21/32, 19

Vessel Air Photo Compilation Party, No. 24, New Orleans, La.

Chief of party M. H. Reese

Surveyed by See data sheet in descriptive report.

Inked by G. O. Coignet.

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-5309

FIELD NO. 22

PHOTOS, NO.	DATE OF PHOTOGRAPHS	TIME
323-332	12/21/32	11:04 to 11:08 A. M.
452-462	12/21/32	10:35 to 10:41 A. M.

	BY	DATE
PROJECTION BY	<u>E. P. Hernandez</u>	<u>4/14/34</u>
PROJECTION CHECKED BY	<u>H. C. Smith</u>	<u>4/14/34</u>
CONTROL PLOTTED BY	<u>H. C. Smith</u>	<u>4/16/34</u>
CONTROL CHECKED BY	<u>F. A. Donadieu</u>	<u>4/18/34</u>
RADIAL LINE PLOT BY	<u>West Flight, E. P. Hernandez</u> <u>East Flight, F. T. Clarke</u>	<u>5/1/34</u>
RADIAL LINE PLOT CHECKED BY	<u>G. O. Coignet</u>	<u>5/3/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>G. O. Coignet</u>	<u>5/3-29/34</u>
PASTING OF NAMES BY	<u>G. O. Coignet</u>	<u>6/2/34</u>
REVIEW OF COMPILATION BY	<u>G. O. Coignet</u>	<u>5/31/34</u>

AREA OF DETAIL INKED-- 155 sq. Statute Miles.

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

Note: Station cheniere has been reported
as lost and has been removed from
the compilation. (Recovery card of M.H.R., 1934, Louisiana.

39.8

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 22.

GENERAL INFORMATION:

Instructions dated November 7, 1933.

The information used in the compilation of this sheet was obtained from the sketches and notes on the field photographs and from members of the field inspection party in questionable areas.

Because of the very slight tide variations and the small scale of the photographs, its effect was not taken into consideration in the determination of shore lines.

The land area of this sheet consists principally of low marsh ground except for a narrow portion on each side of the Mississippi River, most of which is under cultivation. At one time, areas now marsh or covered with water, were in cultivation and canals with portions of their banks are still in evidence. The marsh area is well covered by a net-work of bayous, canals, lakes, and water holes.

This sheet was compiled from photographs taken by the U. S. Army Air Corps' five lens, T-3A Camera, No. 32-3; photograph numbers 323-332 (West Flight) approximately parallel with Longitude $89^{\circ}55'30''$ and 452-462 (East Flight) approximately parallel with Longitude $89^{\circ}48'$.

CONTROL:

(A) Sources:

(a) Triangulation by Lieutenant C. I. Aslakson, 1934.

(b) Triangulation by Lieutenant T. B. Reed, 1934.

The majority of the control on this sheet was executed by the first order party of Lieutenant C. I. Aslakson in 1934 and is on the North American 1927 datum, and the difference between the unadjusted and the final adjusted positions would be unplotable at the small scale of this compilation-1:24,000.

Station Wilkinson "C" was located by Lieutenant T. B. Reed and is on the North American 1927 datum.

Station Raquette 2 (1911) was not recovered by the field inspection party so the reference mark was computed and used and is shown as such on the sheet.

(B) Errors:

The geographic position of Station Cheniere, 1934, was found to be in error and would not hold with the radial line plot, so was disregarded. The radial line plot location of the station is shown with a circle three millimeters in diameter. The radial line plot position of the station was scaled as follows:

* Cheniere-1934	Latitude- $29^{\circ}32' - 454.1m$	Longitude- $89^{\circ}54' - 463.3m$.
<i>See opposite page.</i>		

No other errors were found in the control for this compilation.

(C) Discrepancies:

No control established by other organizations was used in the compilation of this sheet.

COMPILATION:

(A) Method:

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

(B) Adjustment of Plot:

The photographs in the two flights covering this area were free from excessive tilt and scale fluctuations and required no unusual adjustment.

(C) Interpretation:

To denote landmarks determined by radial line intersections, a circle 13 millimeters in diameter was used. To denote brush, the symbol was as follows ($\text{\textcircled{f}}$); for reed the symbol was (+); otherwise, only the conventional symbols approved by the Board of Surveys and Maps (1932) were used.

Canals, bayous, and good roads are shown with double solid lines. Roads and canals of less importance and too narrow to be shown with double lines are shown with a single line. The small canal near and to the North of station Gulf Oil Derrick, Longitude $89^{\circ}54'11''$ (approximate) and Latitude $29^{\circ}32'18''$ (approximate) was dug since the taking of the photographs. Its exact location and length was not accurately determined by the field inspection party and was drawn with a broken line and as accurately as possible with the given information.

In all cases, except where labeled on the field photographs the classification of features had to be determined by a close examination of the photographs. No great deal of difficulty was experienced in interpreting the detail from the photographs, except on the far end of the A prints on the West Flight, where in some cases, it was hard to distinguish between mud flats, low water holes, and burnt marsh. The main features, however, were traced without much difficulty. There was no overlapping flight on the West, therefore, all the tracing had to be done from the "A" prints of pictures Nos. 323-332. A small area Longitude $89^{\circ}53'$, Latitude $29^{\circ}33'30''$ was not clearly visible because of a smoke screen covering it and was shown on the sheet by a broken line.

(D) Information From Other Sources:

There was no information taken from sources other than that mentioned above.

(E) Conflicting Names:

The names shown were taken from U. S. Geological Survey, Point-a-la Hache sheet, from the U. S. Coast and Geodetic Survey Chart No. 1271, from the War Department's Map of Southern Louisiana, and from reports and sketches of the field inspection party. All names shown are in current usage by the inhabitants of this section, and, so far as is known no conflict in the names exist. *New names submitted by the compiler have been accepted pending Mr. Bacon's decision. B.G.G.*

COMPARISON WITH OTHER SURVEYS:

The junctions with adjoining sheets to the North, South, and East, T-5308, T-5310, and T-5317 respectively; are satisfactory. On the West a comparison with the U. S. Geological Survey Air Photo Compilation Sheet S/2 Barataria Quadrangle, at the junction Longitude 90°00', shows the following discrepancies:

FEATURE:	U.S.COAST & GEODETIC SHEET		U.S.GEOLOGICAL SHEET	
	Latitude	Meters	Latitude	Meters
A peninsula	29°30'	1740	29°30'	1690.6
	29°31'	246.4	29°31'	206.7
A Lake (North Shore)	29°31'	1135	29°31'	1103.6
A bayou (N. Bank)	29°34'	1614	29°34'	1667.2
	(S. Bank) 29°34'	1538	29°34'	1594.3
Bayou Dupont (N.Bank)	29°37'	728.3	29°37'	670.2
	(S.Bank) 29°37'	636.1	29°37'	580.4

LANDMARKS:

The list of landmarks as recommended by the field inspection party is submitted on form No. 567 for the area covered by this project.

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 of ten meters for other data.* It is understood that the width of roads, bridges, canals, and bayous may be slightly expanded; where necessary, in order to keep the detail clear and to keep it from photographing as a solid area in the photo-lithographic process.

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

Submitted by:

J. O. Coignet
G. O. Coignet
Draftsman

Approved by: *M. H. Reese*
M. H. Reese

Chief of Party.

* The value of 5 to 10 meters given above is high for work on this scale. A better estimate is 5 to 10 meters for intersected points and 10 to 20 meters for other detail. B.G.G.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

New Orleans, Louisiana.June 1, 1934.

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

M. H. Reese
M. H. Reese

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	D. M. METERS	°	D. P. METERS			
Navigation Lt. (Foster) 1934	29	31 (206.0) 1641.4	89	45 (1348.4) 267.4	N. A. 1927	Triangu- lation	U.S.C. & G.S. Chart No. 1271
Red Brick Stack, 1934	29	33 (1455.7) 391.6	89	46 (44.2) (4.0) 1571.2	"	"	"
Magnolia Orange Grove	29	33 (1641.7) 205.7	89	49 (768.8) 846.3	"	"	"
Ruined Brick Stack	29	34 (574.4) 1272.9	89	53 (426.4) 1188.1	"	Air Photo	"
2 1/2 mi. S. E. Celeste 1934	29	36 (1089.1) 758.2	89	50 (281.5) 1333.0	"	"	"
Deer Range Light 1934	29	36 (645.0) (6.3) 1202.3	89	47 (398.1) 1217.0	"	Triangu- lation	"
Favret Lt. 1934	29	32 (1354.9) 492.4	89	45 (1504.5) 111.0	"	Air Photo	"
Courthouse Lt. 1934	29	34 (612.4) 1234.9	89	47 (417.8) 1197.3	"	Triangu- lation	"
Pt. A, La Hache Lt. 1934	29	35 (1696.3) 151.1	89	48 (953.8) 661.0	"	Air Photo	"
Tower, Pt. A La Hache 1934	29	35	89	48	"	"	"
Church Spire 1934	29	35	89	48	"	"	"
Reading of positions of these objects located by the photo pilot checked in the office by D. H. Benson 10/20/34							

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) off-shore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5309

Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by G. O. Coignet.

Project Louisiana Air Photo Compilation Instructions dated

1. ^{Party No. 24} 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. *See below.*
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.

Comparison with the last topographic survey T 1258 (1872) shows considerable additional detail along the river. The compilation is adequate to improve the older survey for the area covered. B.G. 4.

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. 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.) *None*

13. 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 ^{*unadjusted*} 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 of the report. New names submitted by the compiler have been accepted pending Mr. Brown's decision on the list submitted to him.*

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:

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

Examined and approved:
K. T. Adams
 Chief, Section of Field Records
L. O. Lobnitz
 Chief, Division of Charts

J. S. Borden
 Chief, Section of Field Work
G. W. Under
 Chief, Division of
 Hydrography and Topography.

Mr. Bacon
GEOGRAPHIC NAMES

AIR C T5309
Survey No.

Date OCTOBER 20, 1934

Chart No. 1271 & 196
1116

Names underlined in red approved Dec. 26, 1934

Diagram No.

Harlow Bacon

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

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

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

All names on sheet
at this date are ap-
proved but not listed
HB

Names revised and added from U.S. & D. Advance sheets of 1935. HB

Status	Name on Survey	Name on Chart or other Maps	New Names in local use	Names assigned by Field	Location Nov 8, 1935.
NEW NAME	<u>LAKE LAURIER</u> ✓	USGS			✓
NEW NAME	<u>BAYOU McCUTCHEN</u> ✓	USGS			✓
NEW NAME	<u>LITTLE BAYOU McCUTCHEN</u> ✓	USGS			✓
" "	<u>OAKS BAYOU</u> ✓	USGS			✓
" "	<u>BAYOU TAMBOUR</u> ✓	USGS			✓
" "	<u>BAYOU FRANCAIS</u> ✓	USGS. 1935			Note changed location
	BAYOU VANDERBILT (2)	USGS & 197 (not Grand Bayou)			Later information from USGS, Nov. 1935, shows Grand Bayou is correct. HB
	BAYOU GRANDE	197. USGS. Bayou Grande			29° 30' 89° 47'
	<u>Wilkinson Bayou</u> (2)	Position of name changed so as to drain Lake Laurier. HB. Nov 8, '35			Add name second time ✓
	<u>Hermitage Bayou</u> ✓	Replaces Wilkinson Bayou as a tributary to Lake Hermitage			✓
	<u>Thorn Tree Bayou</u> ✓	USGS. Survey of 1935			✓
	<u>Wreck Bayou</u> ✓	" " "			✓
	<u>Bayou Barge</u> ✓	" " "			✓
	<u>Bayou Grande</u> ✓	" " "			✓
	<u>First Bay</u> ✓	" " "			✓
	<u>Second Bay</u> ✓	" " "			✓
	<u>Third Bay</u> ✓	" " "			✓
	<u>Bell Bayou</u> ✓	" " "			✓
	<u>Bay Shayot</u> ✓	" " "			✓
	<u>Caquin Bay</u> ✓	" " "	Caquin Bay.		✓
	<u>Lake Hermitage</u> ✓	" " "			✓
	<u>Hermitage</u> ✓	" " "			✓

Date Nov. 8, 1935 GEOGRAPHIC NAMES

Survey No. T 5309

Chart No. 196 & 1271,
1116

Diagram No. _____

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

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

Under investigation. Q Underlined names approved Nov. 8, 1935, H.Bacon

Revision and corrections from U.S.G.S. advance sheets, Nov. 1935, H.B.

Status	Name on Survey	Name on Chart	Names Names in local use From USGS, 1935	Names assigned by Field	Location
	<u>Mississippi River</u> /	Same			✓
	<u>Harlem</u> /	"	"		✓
	<u>Bellerue</u> /	"	"		✓
	<u>Deer Range</u> /	"	"		✓
	<u>Nero</u> /	"	"		✓
	<u>Favret</u> /	"	"		✓
	<u>Pt Celeste</u> /	"	"		✓
	<u>Darant</u> /	"	"		✓
	<u>Woodland</u> /	"	"		✓
	<u>Pointe a la Hache</u> /	"	"		✓
	<u>Magnolia</u> /	"	"		✓
	<u>Bohemia</u> /	"	"		✓
	<u>Socola</u> /	"	"		✓
	<u>Petit Bay Chene Fleur</u> /		"		✓
	<u>Raquette Bay</u> /		"		✓
	<u>Raquette Bayou</u> /	Same	"		✓
	<u>Upper Wilkinson Bay</u> /		"		✓
	<u>Wilkinson Canal</u> (2) /	Same	"		✓
	<u>Lake Five</u> /		"		✓
	<u>Bayou Dupont</u> (3) /		"		✓
	<u>Round Lake</u> /	Not "Bay"	"		✓
	<u>Deer Range Canal</u> /		"		✓
	<u>Junior</u> /		See R.R. Guide		✓