

5312

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

Louisiana
State: Mississippi

DESCRIPTIVE REPORT

Photo
Topographic~~Hydrographic~~

Sheet No. T-5312

5312

LOCALITY

Lake Borgne

~~Rigolets.~~

Pearl River

~~West Rigolets to East Pearl~~

River.

1934

CHIEF OF PARTY

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

U. S. GOVERNMENT PRINTING OFFICE: 1923

5312

Applied to Chrt. 1269 May 18, 1939 R.R.
 Applied to Chrt 1268 July 1939 - O.S.
 Applied to Chart 878 Dec. 17, 1946 H. Hamilton was 12/1/48

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5312

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. 25

REGISTER NO. T-5312

State Louisisna and Mississippi.

General locality Rigolets Lake Borgne

Locality ~~West Rigolets to East~~ Pearl River

Scale $1:20,000$ ~~1:24,000~~ Date of Photographs 11/28/32, 19

Vessel 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 G. O. Coignet.

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

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

Instructions dated November 7th, 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-5312

FIELD NO. 25

PHOTOS, NOS.	DATE OF PHOTOGRAPHS	TIME
585-595	11/28/32	10:26 to 10:32 A. M.
626-635	11/28/32	10:52 to 10:57 A. M.

BY

DATE

PROJECTION BY	<u>E. P. Hernandez</u>	<u>5/17/34</u>
PROJECTION CHECKED BY	<u>J. C. Dobler</u>	<u>5/17/34</u>
CONTROL PLOTTED BY	<u>R. E. Wagner</u>	<u>5/18/34</u>
CONTROL CHECKED BY	<u>H. C. Smith</u>	<u>5/18/34</u>
RADIAL LINE PLOT BY	<u>M. H. Reese and H. C. Smith</u>	<u>5/18 to 5/23/34</u>
RADIAL LINE PLOT CHECKED BY	<u>G. O. Coignet</u>	<u>6/1/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>G. O. Coignet</u>	<u>6/1 to 6/19/34</u>
PASTING OF NAMES BY	<u>G. O. Coignet</u>	<u>6/20 to 6/22/34</u>
REVIEW OF COMPILATION BY	<u>G. O. Coignet</u>	<u>6/26/34</u>

AREA OF DETAIL INKED -- 88.1 sq. Statute miles.

LENGTH OF SHORELINE --(more than 100 meters from nearest opposite shore)-
100.0 statute miles.

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 25.

5312

GENERAL INFORMATION:

Instructions dated November 7th, 1933.

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

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

The tide variation in this area is very slight, approximately one (1) foot and because of this and the small scale of the photographs, (1:24,000), its effect was neglected in the determination of shore lines. The shore lines on the photographs were clearly defined and no trouble was experienced in their delineation.

The area covered by this sheet consists principally of low marsh lands with ridges extending from the high lands in the upper part of the sheet into the marsh. The higher land is well wooded, principally with pine trees. The low marsh lands are well covered by a net work of bayous of all sizes and numerous small lakes. There are many small areas under cultivation in the higher lands, and these, in most cases, are located near the high-ways and main roads.

This sheet was compiled from photographs taken by the U. S. Army Corps five lens T-3A camera No. 32-3, photographs number 585-595 (West Flight), approximately parallel with Longitude $89^{\circ} 41' 35''$, and 626-635 (East Flight), approximately parallel with Longitude $89^{\circ} 33' 45''$.

CONTROL:

(A) Sources:

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

- (a) Triangulation by Lieut. W. H. Bainbridge, 1934.
- (b) Triangulation by Lieut. F. L. Gallen, 1930-1931.

The geographic positions established by Lieut Bainbridge are on the North American 1927 Datum, and the field computations were used. The positions obtained by Lieut. Gallen were adjusted positions on the North American 1927 Datum. The only control station in the Northern portion of the sheet was Station "Pearl", however the radial plot held accurately and well defined intersections were obtained.

Only the vertical clearance of bridges is shown on the compilation. Bridge data was submitted by the compiler as follows.

Fort Pike Bridge	Drawbridge	U.S. Highway #90
30° 10'	Span	400 ft.
89° 44'	Draw	150 ft.
	Clearance	11 ft. above High Water

L. & N. R.R.	Drawbridge	over Rigolets
30° 09'	Span	420 feet
89° 37'	Draw	153.78 feet
	Clearance	11.5 feet above H.W.

L. & N. R.R.	Drawbridge	over East Pearl River
30° 11'	Span	85.8 feet
89° 32'	Draw	85.8 feet
	Clearance	5.4 feet above H.W.

L. & N. R.R.	Fixed Span	over Little Rigolets
30° 08'	Clearance	11.5 ft. above H.W.
89° 39'		

(B) Errors:

No errors in control stations were found.

(C) Discrepancies:

No discrepancies in position of control stations were 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 through out 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 from excessive tilt and scale fluctuations and the radial line plot required no unusual adjustments.

(C) Interpretation:

To denote brush three or four feet high the symbol (?) was used, and to denote shells and sand the symbol () was used. Aside from these only the conventional graphic symbols approved by the Board of Surveys and Maps (1932) were used, and no great difficulty was experienced in interpreting the photographic detail.

The limits of mud flats along shore lines are shown by a single light broken line.

Good roads, rivers, and the larger bayous are shown with double solid lines. So as not to exaggerate the width of the lesser bayous, too narrow to be shown with a double line, they were shown with single solid lines and where intermittent with the symbol (-----). Small dirt roads and paths were shown with a broken line.

In most cases, unless labeled on the field inspection photographs, the classification of features had to be determined by a careful and close examination of the photographs.

(D) Information from other Sources:

Information concerning the highway draw-bridge and L. & N. R.R. draw-bridges was obtained from the U. S. Army Corps of Engineers, 1st New Orleans District. Aside from this there was no information derived from sources other than the photographs and sketches and notes of the field inspection party.

(E) Conflicting Names:

The names shown on this sheet do not conflict with those of the following charts examined: U. S. Coast & Geodetic Survey Chart No. 1268, U. S. Geological Survey Quadrangle Sheet "Rigolets", and U. S. Army Corps of Engineers map of Southern Louisiana.

Names agree with chart 1268 and no new names are shown
B.G. Jones.

COMPARISON WITH OTHER SURVEYS:

The junction with the adjoining sheets to the South, T-5313; East, T-5320; and West, T-5304 are satisfactory. There are no available charts for comparison on the North of this sheet.

LANDMARKS:

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

RECOMMENDATION FOR FURTHER SURVEYS:

The photographs from which this sheet was compiled were clear and it is believed that the compilation is correct within a probable error of five (5) meters in well defined detail of importance and of ten (10) meters for other data. *

It is understood that the widths of roads and bayous may be slightly exaggerated so that they will not run together and appear as a solid area during the photolithographic 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 surveys are required.

Submitted by

G. O. Coignet
G. O. Coignet,
Draftsman.

Approved by

M. H. Reese
M. H. Reese.
Chief of Party, C. & G. S.

* The value of 5 to 10 meters noted above is high for work on this scale. Assuming careful compiling a better estimate is an accuracy of location of 5 to 10 meters for interconnected points and 10 to 20 meters for other detail. This value may be exceeded for inshore detail at the North edge of the compilation.

B. G. Jones

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DIVISION OF CHARTS, FILE NO. _____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

New Orleans, Louisiana.June 26, 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.

Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETER- MINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE		DATUM			
	°	'	D. M. METERS	°	'				D. P. METERS
<i>See Page 8 of this report</i> Light Beacon	30	10	(935.2) 912.4	89	31	(1447.6) 157.8	N.A. 1927	Air- Photo	U. S. C. & G. S. No. 1268.
Light Beacon	30	08	(306.0) 1541.3	89	35	(565.9) 1040.1	"	"	"
Airway Beacon 1934	30	09	(38.5) 1809.0	89	44	(1187.3) 419.0	"	"	"
Light Beacon 1934	30	10	(933.4) 913.0	89	44	(620.7) 985.6	"	"	"
Light Beacon 1934	30	10	(578.0) 1269.6	89	44	(449.6) 1156.1	"	"	"
Light Beacon 1934	30	10	(352.9) 1494.6	89	44	(356.8) 1249.0	"	"	"
Light, Center L. & N. Br. East Pearl River. 1934	30	11	(616.0) 1231.6	89	32	(1499.6) 105.6	"	Triang- ulation	"
Light, Mid-span L. & N. Bridge, over Rigolets. 1934	30	09	(1293.6) 553.9	89	37	(247.5) 1358.2	"	"	"
Light, Center of Fort Pike Bridge. 1934	30	10	(1432.4) 415.1	89	44	(1548.4) 57.0	"	"	"
Pearl River Light. 1934	30	09	(1133.0) 714.6	89	31	(905.1) 700.6	"	"	"
Lake Borgne Light No. 1 1934	30	09	(7169.5) 1776.7 78.0	89	31	(419.9) 1185.8	"	"	"
Lake Borgne Light No. 3 1934	30	08	(2378) 1609.7 1604.9	89	32	(6.7) 1599.0 (11.2) 1594.2	"	"	"
Lake Borgne Light No. 5 1934	30	08	(557.6) 1290.0	89	34	(1216.1) 389.6	"	"	"
Lake Borgne Light No. 7 1934	30	08	(872.3) 975.3	89	35	(788.3) 817.4	"	"	"
W Rigolets L. H. 1934	30	10	(977.9) 869.6	89	44	(670.7) 934.7			

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, flagstaves and like objects are not sufficiently permanent to chart.

Sealing of positions located by Photo plot checked in the office by D. H. Benson 11/5/34

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 5312

Title (Par. 56) Forwarded with Sheet

Chief of Party M. H. Reese

Compiled by G. O. Coignet.

Project Louisiana Air Photo Compilation
Party No. 24

Instructions dated Nov. 7th, 1934.

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.)
See page 3 of the descriptive report.
9. The data furnished by the Field Inspection is adequate.
See last page of this report concerning landmarks

NOTE: Strike out paragraphs, words or phrases no 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. 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 submitted*
13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)
See page and the following page for remarks.
14. The geographic datum of the sheet is North American 1927 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.) *Page 3*
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: *See next page concerning landmarks*
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:

Chas. H. Green
acting Chief, Section of Field Records
L. O. Solvick
 Chief, Division of Charts,

F. S. Borden
 Chief, Section of Field Work
W. H. Borden
 Chief, Division of
 Hydrography and Topography.

REVIEW OF AIR PHOTO COMPILATION T-5312 (1934)

Landmarks: The beacon at Long Point was shown by the compiler as a light. There is no record in the Light List or on the Aid Proof of a light here and the name has been changed on the compilation to "Beacon".

The compiler showed a light at Lat. $30^{\circ} 10'$ Long. $89^{\circ} 31.1'$. See Page 5 for the exact position. This has been removed from the compilation *pending examination of the photographs which are not yet in this office.* The position furnished by the compiler falls east of the channel shown on chart 1268. It is not likely that a light or beacon would have been placed in this position unless the whole channel has shifted and there is no record in the Light List or on the Aid Proof of any change in the buoys or the beacon or of the establishment of a new light. The photographs are not in this office but it is possible that the point was indentified incorrectly on the photographs. The only object which is recorded by the Light List is the beacon on the west side of the channel.

The compilation shows a new light in the pass at Lat. $30^{\circ} 10.7'$, Long. $89^{\circ} 44.7'$. This position has been plotted on the last Hydrographic Survey H-1054 and it plots just inside the two fathom curve on the north side of the channel.

West Rigolets Lighthouse was not listed in the list of landmarks by the compiler. The position has been added in this office.

B. G. Jones
B. G. Jones.

GEOGRAPHIC NAMES

Survey No. T5312

Name on Survey

	A	B	C	D	E	F	G	H	I	J
			On previous survey No.	On U.S. quadrangle No.	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	U.S. Engrs
<u>Richardson Bayou</u>			✓	✓						1
<u>Fawn Bayou</u>			✓	✓						2
<u>Chalon Bayou</u>			✓	✓						3
<u>Jug Bayou</u>			✓	✓						4
<u>Pointevants Bayou Ditch</u>			✓	✓	USGS June, 1936					5
<u>Browns Island</u>			✓	✓						6
<u>East Middle River</u>			✓	✓						7
<u>Middle River</u>			✓						✓	8
<u>West Middle River</u>			✓	✓						9
<u>Upper Black Bayou</u>			✓	✓						10
<u>Apple Pie Ridge</u>			✓	✓						11
<u>West Pearl River</u>	✓		✓						✓	12
<u>Salt Bayou</u> ②	✓		✓	✓						13
<u>Prevost Island</u>			✓	✓						14
<u>Perdido Bayou</u>			✓	✓						15
<u>Foster Bayou</u>			✓	✓						16
<u>Pearl River</u>	✓		✓				✓		✓	17
<u>Old Pearl River</u>			✓	✓						18
<u>Grassy Bayou</u>			✓	✓						19
<u>Johnny Three Bayou</u>			✓	✓						20
<u>Grand Plains</u>	✓		✓							21
<u>Grand Plains Bayou</u>	✓		✓							22
<u>Claiborne</u>	✓									23
<u>Bayou Isle aux Pois</u>	✓		✓							24
<u>Bayou Trois Chenes</u>	✓		✓							25
<u>Baldwin Lodge</u>	✓									26
<u>East Pearl River</u>	✓		✓							27

GEOGRAPHIC NAMES
Survey No. T5312

Name on Survey

*Undisputed names (2)
approved Feb 20, 1944*
On Chart
No. 1268

On previous survey
No.

On U.S. A. quadrangle
Rigolets
From local
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

KU5. Engrs

	A	B	C	D	E	F	G	H	
<u>Yousman Bayou</u>			✓	✓					1
<u>Kopman Bayou</u>			✓	✓					2
<u>Johnson Pass</u>			✓	✓					3
<u>Mill Bayou</u>			✓						4
<u>Lake Pontchartrain</u> ✓			✓				✓	✓	5
<u>Double Bayou Lagoon</u>			✓	✓					6
<u>Trout Bayou</u>			✓	✓					7
<u>West Mouth</u>	✓		✓						8
<u>East Mouth</u>	✓		✓						9
<u>Hog Island</u>			✓	✓					10
<u>North Pass</u>	✓		✓						11
<u>Little Lake</u>	✓		✓					✓	12
<u>Little Lake Pass</u>	✓		✓						13
<u>Pole Cat Bend</u>	✓		✓						14
<u>English Lookout</u>	✓		✓			Ry ✓ Guide	✓		15
<u>Redfish Bayou</u>			✓	✓					16
<u>Sand Bayou</u>			✓	✓					17
<u>Pearl River Island</u> ✓			✓					✓	18
<u>Long Point</u>	✓		✓					✓	19
<u>North Side</u>			✓	✓					20
<u>East Pass</u> ?	✓		✓					✓	21
<u>Rabbit Island</u>	✓		✓						22
<u>Counterfeit Pass</u>			✓	✓					23
<u>Goose Pond</u>			✓	✓					24
<u>Bayou Bay Jaune</u>			✓	✓					25
<u>Rigolets (USGB)</u> ✓			✓				✓	✓	26
<u>Grand Coin Pocket</u>			✓	✓					27

one word

GEOGRAPHIC NAMES

Survey No. T5312

GEOGRAPHIC NAMES											
Survey No. T5312											
Name on Survey	<div>③ Underlined names approved Feb. 1936</div>										
	A	B	C	D	E	F	G	H	I	J	
			On previous survey No.	On U.S. S. quadrangle maps 1935	From local information	On local maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	U.S. Engrs.	
Grand Coin Bayou			✓	✓						1.	
Sawmill Pass			✓	✓						2	
Fort Pike	✓		✓						✓	3	
Lake St. Catherine	✓		✓	St Catharine on USGS Rigolets, 1893		✓			✓	4	
Bay Jaune Point			✓	✓						5	
Grand Cop Point			✓	✓						6	
Hospital Pass			✓	✓						7	
Corridor Bayou			✓	✓						8	
St. Catherine Pass	✓		✓	St Catharine on U.S. G.S. Rigolets, 1893					✓	9	
Deedie Bayou			✓	✓						10	
Little Deedie Lake			✓	✓						11	
Seven Lagoons			✓	✓						12	
Curtis Ditch			✓	✓						13	
Little Rigolets	✓		✓						✓	14	
Catfish Point			✓	✓						15	
LAKE BORGNE	✓		✓				✓		✓	16	
Rigolets (Village)	✓		✓			Ry ✓ Guide	✓		✓	17	
L & N R.R.	✓		✓				✓		✓	18	
U.S. Highway No. 90			✓	New location of Highway shown Old highway number deleted.						19	
Mulatto Bayou	This name is found on a map of the alluvial valley of the Mississippi. Mouth is at lat. 30°16'N. long 89°33'W. It should be investigated and approved before using										20
										21	
										22	
										23	
										24	
										25	
A large number of local names have been obtained by the U.S. Geological Survey in a survey and field inspection in 1935. These names have been put on this compilation. H.B. Feb. 14, 1936.										26	
										27	

M 234