

5313

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-5313

~~HYDROGRAPHIC~~

LOCALITY

Lake Borgne

Alligator Point

Lake St. Catherine to

Mouth of Biloxi Bayou

1934

CHIEF OF PARTY

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

U. S. GOVERNMENT PRINTING OFFICE: 1928

5313

Applied to Cht 1269 May 20, 1939 *JP*
" " " 1268 July 1939 *JP*

Applied to Cht 878 January 3, 1947 M. Hunsberger *swab 12/7/48*

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5313

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. 26

REGISTER NO. T-5313 5313

State Louisiana

General locality Lake Bogne

Locality Alligator Point
~~Lake St. Catherine to Mouth of Biloxi Bayou~~

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

~~Wessel~~ 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 H. C. Smith

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-5313

FIELD NO. 26

PHOTOS, NO.	DATE OF PHOTOGRAPHS	TIME
575-585	11/28/32	10:20 to 10:25 A. M.
636-643	11/28/32	10:57 to 11:01 A. M.

	BY	DATE
PROJECTION	<u>H. C. Smith</u>	<u>5/10/34</u>
PROJECTION CHECKED BY	<u>J. C. Dobler</u>	<u>5/10/34</u>
CONTROL PLOTTED BY	<u>H. C. Smith</u>	<u>5/11/34</u>
CONTROL CHECKED BY	<u>R. E. Wagner</u>	<u>5/14/34</u>
RADIAL LINE PLOT BY	<u>H. C. Smith</u>	<u>5/17-18/34</u>
RADIAL LINE PLOT CHECKED BY	<u>M. H. Reese</u>	<u>5/18/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>H. C. Smith</u>	<u>5/26 to 6/4/34</u>
PASTING OF NAMES BY	<u>H. C. Smith</u>	<u>6/8/34</u>
REVIEW OF COMPILATION BY	<u>H. C. Smith</u>	<u>6/7/34</u>

AREA OF DETAIL INKED -- 20.2 sq. Statute Miles.

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

COMPILER'S REPORT
FOR
PHOTO TOPOGRAPHIC SHEET, FIELD NO. 26

GENERAL INFORMATION:

This sheet was compiled in accordance with instructions dated November 7, 1933.

The information used in the compilation of this sheet was acquired from, the sketches and notes on the field photographs, and from the reports and progress sketches of triangulation by Lieut. Comdr. R. L. Schoppe and Lieut. W. H. Bainbridge, who were in charge of the triangulation party operating in this area at the time of compilation; and from members of the field inspection party in questionable areas.

All data and statistics used in the compilation of this sheet are given in the accompanying paper under heading of Notes on Compilation.

The area which this sheet covers consists principally of low marsh ground embodying an excessive number of small streams, ponds, sloughs, meandering brooks, and occasional mangle brush in some localities. This area borders on Lake St. Catherine on the North West and Lake Bogue on the South and East. There is no area under cultivation and is totally undeveloped and uninhabited with the exception of a few dwellings located on the L. & N. R. R. at the settlement of "Lake Catherine".

This sheet was compiled from the photographs taken by the U. S. Army Air Corps' five lens, T-3A Camera, No. 32-3, photograph numbers, 636-643 (East Flight) approximately parallel to Longitude 89°33'30" and 575-585 approximately parallel to 89°41'45" (West Flight).

CONTROL:

(A) Sources:

- (a) Triangulation by Lieut. Comdr. Schoppe and Lieut. W. H. Bainbridge, 1933-34.

The geographic positions are on the North American 1927 Datum and the field computations were used.

(B) Errors:

The available control for this sheet is adequate and the radial line plot established well defined points of intersection.

(C) Discrepancies:

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

Note since the bridge data shown
~~is~~^{were} approximate only and gave no
reference plane for clearances ~~if~~^{so} they have
been removed from the compilation.
The bridges referred to are those shown
at lat. $30^{\circ}06'$ long $89^{\circ}43'$; lat $30^{\circ}07'$ long $89^{\circ}41'$
and lat. $30^{\circ}05'$ long $89^{\circ}44'$.

B. G. Jones.

COMPILATION:

(A) Method:

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

(B) Adjustment of Plot:

The photographs on the west flight were free from excessive tilt. While some were tilted more than the average, none were to such an extent as to prevent use in drafting.

The photographs on the East flight were badly tilted, especially at the break in the flight, Namely photograph Nos. 641, 642, 643, and 644. However, no unusual adjustments were necessary in the drafting of the photographs.

(C) Interpretation:

To denote mangle brush three or four feet high, the following symbol was used ({). Aside from this, only the conventional symbols as approved by the Board of Surveys and Maps (1932) were used and no great difficulty was experienced in interpreting the detail from the photographs.

To indicate bayous, large canals, and rivers, the double full line was used; no roads show on this sheet.

The lesser bayous, canals and streams, being too narrow to be shown by a double line, were indicated by a single solid line.

The canal paralleling the L. & N. R. R. crossing the North West corner of the sheet was slightly exaggerated in respect to its distance from the railroad. The canal was drawn in approximately eight meters further from the railroad than actually is the case, to allow detail to be clearly shown.

The three small bridges on the L. & N. R. R. are of fixed type and have a clearance of approximately five feet. This data is given in the note on the sheet. *See opposite page*

The houses, which appear, have also been slightly exaggerated for purpose of clearness, but the centers are accurate for hydrographic purposes.

In most cases where the field inspection party did not classify all of the physical features, they were determined by close examination of the photographs.

(D) Information From Other Sources:

There was no other sources of information for this sheet, other than that obtained from the photographs, from the field inspection party and from the reports of Lieut. Comdr. R. L. Schoppe and Lieut. W. H. Bainbridge.

(E) Conflicting Names:

The names shown on this sheet have been taken from U. S. Coast and Geodetic Survey Chart No. 1268, and from progress sketches of triangulation work by Lieut. Comdr. R. L. Schoppe and Lieut. W. H. Bainbridge and by information supplied by the field inspection party. All names are in current usage by the inhabitants of this particular area and no conflict of names exist. *The only new name is that of the town of "Lake Catherine". This is shown on the compilation pending Mr. Bacon's decision.*

COMPARISON WITH OTHER SURVEYS:

This sheet matches satisfactorily with the adjoining sheets to the North, South, East, and West, numbers T-5312, T-5314, T-5321, and T-5305, respectively.

LANDMARKS:

The list of landmarks as recommended by the field inspection party is submitted on form 567 for the area covered by this project.
sheet.

RECOMMENDATIONS FOR FURTHER SURVEYS:

It is believed that an error of five meters may occur in the compilation of this sheet in well defined detail and an error of ten meters for other data. It is understood, however, that the canal mentioned previously under INTERPRETATION in this report and several houses have been slightly exaggerated in order that the detail will show up clearly in the photo-lithographic 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 surveys are required.

H. C. Smith
Submitted by: H. C. Smith,
Draftsman

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

Note The value of 5 to 10 meters given above is high for work on this scale. A better estimate is an accuracy of location of 5 to 10 meters for inter related points and 5 to 20 meters for other detail. These values may be exceeded in the areas at the S.E. corner of the compilation and at the western edge below lat. 30°-04' where there was very little control. However, the detail in these areas is accepted as sufficiently accurate for charting and adequate to improve the old surveys T 3664 (1918) and T 773 (1858). Comparison with T 3664 shows very little change and substantially the same position for the whole line. T 3664 covers the small area at the S.E. corner of the compilation

B. G. Jones

LANDMARKS FOR CHARTS

New Orleans, Louisiana

June 7 _____, 1934

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.

[illegible]

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) offshore, (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.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5313

Title (Par. 56) Forwarded with sheet.

Chief of Party M. H. Reese

Compiled by H. C. Smith

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.)
See Page 3 of the report
- ✓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. 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.) *Page 5*
14. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.) *Page 5 Page 2*
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:

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. Robert
 Chief, Division of Charts

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

GEOGRAPHIC NAMES

Survey No. T 5313

GEOGRAPHIC NAMES		<div>Underlined names approved Feb. 21, 1936 On Chart No. 1268</div> <div>On previous survey No.</div> <div>On U. S. Quadrangle 1935</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> <div>U. S. Engrs</div>									
Name on Survey	A	B	C	D	E	F	G	H	I	J	
<u>Lake St. Catherine</u>	✓		St. Catherine on Rigolets	✓	Quad, 1893		✓		✓	1	
<u>Truloix Point</u>			✓	✓						2	
<u>Truloix Bayou</u>			✓	✓						3	
<u>Bayou Platte</u>			✓	✓						4	
<u>Little Bayou Platte</u>			✓	✓						5	
<u>Alligator Point</u>	✓		✓						✓	6	
<u>Bobs Bayou</u>			✓	✓						7	
<u>Lake Catherine</u> (RR Guide):			✓				✓		✓	8	
<u>Miller Bayou</u>			✓	✓						9	
<u>Unknown Pass</u>	✓		✓							10	
<u>Blind Bayou</u>			✓	✓						11	
<u>Shell Point</u>	✓		✓						✓	12	
<u>Big Deedie Lake</u>			✓	✓						13	
<u>Little Deedie Lake</u>			✓	✓						14	
<u>LAKE BORGNE</u>	✓	✓	✓				✓		✓	15	
<u>Biloxi Bayou</u>	✓		✓						✓	16	
<u>Bayou Magill</u> <small>See T. 5314</small>			✓	✓						17	
<u>False Mouth Bayou</u>			✓	✓						18	
<u>Lakes of Bayou Marron</u>			✓	✓						19	
<u>Deedie Bayou</u>			✓	✓						20	
<u>L & N R R.</u>	✓		✓			RR Guide	✓			21	
										22	
										23	
										24	
										25	
										26	
A large number of new names are from U. S. & S. surveys of 1935 {Advance sheets}										27	

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