

5408
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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

ate: Louisiana

DESCRIPTIVE REPORT

Topographic	} Sheet No.	5408	5408
Hydrographic		5409	5409

LOCALITY

~~Chandeleur and Breton Sounds~~

~~Lake Eloi to Morgan Harbor~~

T5408	Breton Sound
	Lake Eloi
T5409	Chandeleur Sd.
	Morgan Harbor

1934

CHIEF OF PARTY

M. H. Reese, Jr. H. and G. Eng.

U. S. GOVERNMENT PRINTING OFFICE: 1928

5408
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Applied to Chrt. 1268 - Aug. 1939 - H.S.D.
Applied to Chrt. 1115 July 1940 J.G.L.

- NOTES ON COMPILATION -

SHEET NO. ~~T-5323~~ ^{T5408} _{T5409}

FIELD NO. 36

PHOTOS, NO.	DATE OF PHOTOGRAPHS	TIME
861-872	11/29/32	9:46 to 9:51 A. M.
1011-1021	11/29/32	10:05 to 10:09 A. M.

	BY	DATE
PROJECTION BY	<u><i>E. P. Hernandez</i></u> E. P. Hernandez	<u>4/27/34</u>
PROJECTION CHECKED BY	<u><i>J. C. Dobler</i></u> J. C. Dobler	<u>4/27/34</u>
CONTROL PLOTTED BY	<u><i>John Gidiere</i></u> John Gidiere	<u>4/28/34</u>
CONTROL CHECKED BY	<u><i>J. C. Dobler</i></u> J. C. Dobler	<u>4/30/34</u>
RADIAL LINE PLOT BY	<u><i>H. C. Smith</i></u> H. C. Smith	<u>4/28-30/34</u>
RADIAL LINE PLOT CHECKED BY	<u>A. J. Peterson</u>	<u>5/1/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>A. J. Peterson</u>	<u>5/11 to 6/4/34</u>
PASTING OF NAMES BY	<u>A. J. Peterson</u>	<u>6/6/34</u>
REVIEW OF COMPILATION BY	<u><i>A. J. Peterson</i></u> A. J. Peterson	<u>6/5/34</u>

AREA OF DETAIL INKED-- 76.3: sq. Statute Miles.

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5408
5409

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. 36

REGISTER NO. T-5408 5408
T-5409A 5409

State Louisiana

General locality ~~Eloi Bay~~ ^{See Below} ~~Chandeleur and Breton Sounds~~

Locality ~~Lake Eloi to Morgan Harbor~~
~~Bayou Pointe En Pointe to Comfort Island~~

Scale 1:20,000 Photographs: 11/29/32
~~1:24,000~~ Date of ~~survey~~ 11/29/32, 19

~~Wessex~~ 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 J. A. Peterson.

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.

NOTE : These sheets were compiled as one sheet but the compilation was too large for printing and has been made into two sheets, Nos. 5408 and 5409. The localities as shown on the titles are as follows:

T 5408 Breton Sound
Lake Eloi
Louisiana

T 5409 Chandeleur Sound
Morgan Harbor
Louisiana

B.G. Jones
office 7/11/34

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 36

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 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 high water line was taken from the photographs where it is shown clearly by the dark lines indicating marsh and brush. Along some sections of the shore there are mud flats, or very shallow water, which is shown on the sheet by broken lines. There are a few shell piles scattered about in this area. There is no cultivation of any nature in this area and only one old trapper's shack.

This sheet was compiled from photographs taken by the U. S. Army Air Corps' five lens, T-3A Camera, No. 32-3, photograph numbers 861-872 (West Flight) approximately parallel with longitude $89^{\circ}26'40''$ and 1011-1021 (East Flight) approximately parallel with Longitude $89^{\circ}19'20''$.

CONTROL:

(A) Sources:

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

(a) Triangulation by Lieut. E. R. Mc Carthy-1934.

Geographic Positions established by Lieut. E. R. Mc Carthy in 1934 were used. These positions are on the North American 1927 Datum and are tied in with 1st order triangulation along the Mississippi River recently executed by Lieut. C. I. Aslakson.

(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 covering the area

shown by this sheet appear to be free of excessive tilt and scale fluctuations and the radial plot required no unusual adjustment.

(C) Interpretation:

To denote brush three or four feet high the symbol (f) is used. This formation of brush is usually a type of evergreen growth, its roots in salt water and is called locally "mangle". The land is subject to quite regular overflow and its formation is typical of usual salt water marsh. To denote reeds three or four feet high, which also occurs in a few scattered places, but usually along bayous, the symbol (+) is used. There are a few shell piles in this area and are shown by dots.

There are no roads in this area. There are a few small canals on the northwestern part of the sheet. The larger bayous are shown by double full lines, whereas the small bayous and tidal sloughs are shown by one solid line, depending in weight upon the importance of the feature. In most cases, unless labelled on the field inspection reports, the classification of these features had to be determined by a close examination of the photographs. All boundaries of shoal water areas are shown by dotted lines.

(D) Information from Other Sources:

There was no information derived from sources other than the photographs and sketches and notes of the field inspection party. The photographs were clear, except for numbers 869 C, 870 C, and 871 C, which were a little dark but the shorelines could be distinguished by scrutinizing the sheet carefully.

(E) Conflicting Names;

The names shown on this sheet were taken from U. S. C. and G. Survey Chart No. 1270 and from the Corps of Engineers' Map of Southern Louisiana. So far as is known no conflict in names exist.

COMPARISON WITH OTHER SURVEYS:

The junctions with the adjoining sheets to the North, T-5322, South, T-5324, and West, T-5315, are satisfactory.

In comparing this sheet with U. S. Coast and Geodetic Survey Chart No. 1270, it is found that the general outlines and positions are the same, except for a few small islands, which appear on Chart 1270, but not on this sheet. The disappearance of these islands is probably due to currents and storms.

LANDMARKS:

There are no prominent landmarks in this area which are suitable for navigation that were recommended by the field inspection party.


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 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 surveys are required.

See review at back of this report.

Submitted by: J. A. Peterson.
Draftsman


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

Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by J. A. Peterson

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 1.) 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.) *See review at back.*
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 page 3 and review at back.*
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. 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.) *none submitted*
- 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 are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) *Names agree with the chart, No 1270 and no new names are shown.*
- 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 Review on following page.*

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

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

H. B. Brown
 Chief, Section of Field Work
E. J. Rude
 Chief, Division of
 Hydrography and Topography.

These compilations were compiled and submitted as one compilation, No. 5319. It was too large for printing and has been divided into two sheets. Consequently the polyconic projection shown on both of these compilations has its center line on meridian 89° 22' at the side instead of the center of each sheet.

Comparison with other surveys.

See page 4 of the descriptive report. Comparison of these compilations shows numerous changes in the shapes of islands and points of land. These comparisons were made with T-1148 & T-769 (1870), the last previous topographic surveys. A number of small islands in Morgan Harbor have disappeared. The compilation is adequate to supercede the older surveys.

Control

There was ample control on T-5408. On T-5409 the control is more widely distributed but the photographs ~~to be~~ free of large tilt and the plot was no doubt strengthened by extending it across the overlap to triangulation on T-5522 to the North. The accuracy of location given on page 4 of the descriptive report is high for work on this scale. Assuming careful plotting an ~~estimate~~ ^{estimate} better is an accuracy of about 10 meters for the intersected points, and 10 to 20 meters for the other detail. These limits are probably exceeded to some extent on T-5409 where there was less control and the centers of some of the photographs fall over the water.

B. G. Jones
B. G. Jones.

T5408

Differences in names adjusted with USGS March 1936

	Remarks	Decisions
1	Think the "la" should be lower case. <i>Most of the maps use "l.a." See T5409</i> "la" is correct French usage.	
2	New name. OK.	
3	" " "	
4	" " " This should be called Drum Lake in order to avoid confusion with Drum Bay, near by.	
5	" " "	
6	" " " Location in question. Differs from T5322. To be adjusted	
7		
8	New name OK.	
9	" " "	
10	" " "	
11	" " "	
12		
13	New name OK	
14		
15		
16	New name OK.	
17	" " "	
18	" " "	
19	Prefer "en" to "En" "en" is correct French	
20	New name OK.	
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T5408

Name on Survey

*Underlined names
Approved Feb 19, 1934*

On Chart
No. 1268 & 1270

On previous survey
No.

On U. S. Squadrangle
Maps
C5 W. 10
65
Bayou
Breaux
1933
From local
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

KUS ENGRS

Name on Survey	A	B	D	E	F	G	H	KUS ENGRS
<u>Bayou la Loutre</u>	✓		Bayou la Loutre					✓ 1
<u>Isaacs Ditch</u>			✓	✓				2
<u>Drum Hole</u>			✓	✓				3
<u>Drum Lake</u> OK. by U.S. 48			✓	✓				4
<u>Bayou Ramon</u>			✓	✓				5
<u>Crooked Bayou</u>			✓	✓				6
<u>Lake of the Mound</u>	1268 1270	TS322	✓✓				✓	7
<u>Blind Lagoon</u>			✓	✓				8
<u>China Pass</u>			✓	✓				9
<u>Long Lagoon</u>			✓	✓				10
<u>Joe Shimans Pass</u>			✓	✓				11
<u>Bayou Petre</u>	1270		✓					12
<u>Treasure Pass</u>			✓	✓				13
<u>Christmas Camp Lake</u>	1270		✓				✓	14
<u>Point Cahill</u>	1270		✓					15
<u>Deep Pass</u>			✓	✓				16
<u>Half Moon Lake</u>			✓	✓				17
<u>Treasure Bay</u>			✓	✓				18
<u>Bayou Pointe-en-Pointe</u>	✓ 1270		✓					19
<u>Blind Pass</u>	✓		✓	✓				20
<u>Lake Eloi</u>	✓ 1270		✓				✓	21
<u>Bayou Eloi</u>	✓ 1270		✓					22
<u>Mosquito Bight</u>	✓ 1270		✓					23
<u>Lake Athanasio</u>	✓ 1270	T1099	✓				✓	24
<u>Eloi Bay</u>	✓ 1270		✓				✓	25
								26
								27

T5409

Remarks

Decisions

1		
2		
3		
4	Recommend reference to U.S. Board on Geographical Names Stat on Charts till changed by decision	One word. D. G. N. 11/18/38
5		
6		
7		
8	Recommend Whitelog. Survey of 1935	
9	New name. O.K.	
10		
11		
12		
13		
14		
15		
16	New name. O.K.	
17	" " "	
18	" " "	
19	The feature Point Nellie in Morgan Harbor has disappeared. The name has been deleted. Same is true with Espaden I	
20	This bayou extends all the way to Twilight Harbor. The correct French usage is lower case "i" in "la" not "Là"	Use "la" till decision is rendered
21	Note the correct placing of name.	
22		N.B. that decision 11/18/38 names Otter
23		Bayou the section between Elai Bay
24		and Twilight Harbor.
25		
26		
27	"Chicot Pass" by D. G. N. decision	11/18/38 →

GEOGRAPHIC NAMES
Survey No. T 5409

Name on Survey

Underlined names approved Feb. 19, 1936
On Chart No. 1270

On previous survey No. 1198

On U. S. Geographical Names Bureau files 1895 & 1935

From local information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

FUS Engrs.

Name on Survey	A	B	C	D	E	F	G	H	FUS Engrs.
<u>Jules Cutoff</u>	✓	T 1198	✓						1
<u>Skiff Island</u>	✓		✓						2
<u>Skiff Lake</u>	✓		✓						3
<u>Martinbox Bayou</u> * * *	✓	Skow Pass T 1198	Martin Box Bayou 1895 & 1935						4
<u>Skow Point</u>	✓	Skow Pt T 1198	✓						5
<u>Skow Pass</u>	✓	T 1198	✓						6
<u>Christmas Camp Lake</u>	1270 ✓		✓					✓	7
<u>Whitelog Lake</u>	✓		✓	White Log Lake (1895)					8
<u>Dry Bread Island</u>			✓						9
<u>Point Eliza</u>	✓	T 1148	✓						10
<u>Rawhead</u>	✓	T 1148	✓						11
<u>Point Cahill</u>	✓	✓	✓						12
<u>Old Harry Bayou</u>	✓	Old Harry's Bayou T 769	✓						13
<u>Comfort Island</u>	✓		✓						14
<u>Point Comfort</u>	✓	T 769	✓					✓	15
<u>Treasure Bay</u>			✓						16
<u>Treasure Bay Pass</u>			✓						17
<u>Morgan Harbor Pass</u>			✓						18
<u>Morgan Harbor</u>	✓	T 1148	✓					Morgan's Harbor	19
<u>Bayou La Loutre</u> (2) 1118/38 ✓	1116 ✓	Otter Bayou T 1099	Bayou La Loutre					Otter Bayou	20
<u>Point Paulina</u>	✓	T 1148	✓					✓	21
<u>Chandeleur Sound</u>	✓	T 1148	✓					✓	22
<u>Eloi Bay</u>	1270 ✓		✓					✓	23
<u>Codfish Point</u>	✓	T 1148	✓						24
<u>Twilight Harbor</u>	✓	T 1148	✓						25
<u>Point Lydia</u>	✓	T 1148	✓						26
<u>New Vignoles</u>	✓	T 1148	✓						27

R. Referred to United States Board on Geographical Names