

5318

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  
Hydrographic

Sheet No. T-5318 5318

LOCALITY

Mississippi River

Lake Washington to

California Bay

193 4

CHIEF OF PARTY

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

U. S. GOVERNMENT PRINTING OFFICE: 1928

5318

Approved & Obs. 1272- April 1935- J.H.S.

" " " 1273 Sept. " J.H.S.

" " " 1271 Dec 1937 J.H.S.

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5318

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. 31

REGISTER NO. T-5318 5318

State Louisiana

General locality Mississippi River

Locality Lake Washington to California Bay

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

~~Reese~~ 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 S. S. Gill.

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-5318

FIELD NO. 31

PHOTOS, NO.	DATE OF PHOTOGRAPHS	TIME
510-519	12/21/32	10:04 to 10:08 A. M.
687-696	12/21/32	9:37 to 9:41 A. M.

	BY	DATE
PROJECTION BY	<u>E. P. Hernandez</u> <i>E. P. Hernandez</i>	<u>4/12/34</u>
PROJECTION CHECKED BY	<u>E. L. Fitch</u> <i>E. L. Fitch</i>	<u>4/12/34</u>
CONTROL PLOTTED BY	<u>E. P. Hernandez</u> <i>E. P. Hernandez</i>	<u>4/13/34</u>
CONTROL CHECKED BY	<u>S. S. Gill</u> <i>S. S. Gill</i>	<u>4/13/34</u>
RADIAL LINE PLOT BY	<u>West Flight, E. P. Hernandez</u> <i>West Flight, E. P. Hernandez</i> <u>East Flight, H. C. Smith</u> <i>H. C. Smith</i>	<u>4/20-24/34</u>
RADIAL LINE PLOT CHECKED BY	<u>S. S. Gill</u> <i>S. S. Gill</i>	<u>4/26/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>S. S. Gill</u> <i>S. S. Gill</i>	<u>4/26 to 5/9/34</u>
PASTING OF NAMES BY	<u>S. S. Gill</u> <i>S. S. Gill</i>	<u>5/29/34</u>
REVIEW OF COMPILATION BY	<u>S. S. Gill</u> <i>S. S. Gill M. H. T. R.</i>	<u>5/28/34</u>

AREA OF DETAIL INKED-- 75.9 sq. Statute Miles.

LENGTH OF SHORELINE-- (more than 100 meters from nearest opposite shore) 147.2 Statute Miles.

COMPILER'S REPORT  
FOR  
PHOTO TOPOGRAPHIC SHEET, FIELD NO. 31

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 the reports of Lieutenant C. I. Aslakson and Lieutenant E. R. Mc Carthy, in charge of the triangulation done in this area at the time of the compilation; and from members of the field inspection party.

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

Because of the very small tide in this area, its effect was neglected in the interpretation of the high water line from the photographs.

The field inspection party sketched in all changes in levees since the pictures were taken and also where levees did not show plainly.

The area covered by this sheet consists of cultivated land along the west bank of the Mississippi River and also along the east bank opposite Empire. The remainder of the sheet is covered by low marsh ground, none of which 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 510-519 (West Flight) approximately parallel to Longitude 89°41' and 687-696 (East Flight) approximately parallel to Longitude 89°33'.

CONTROL:

(A) Sources:

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

- (a) First order triangulation by Lt. C. I. Aslakson-1934.
- (b) Second order triangulation by Lt. E. R. Mc Carthy-1934.

The geographic positions obtained by Lieutenants C. I. Aslakson and E. R. Mc Carthy were used, these are on the North American 1927 Datum. The difference between the unadjusted and the final adjusted positions would be unplotable at the small scale of this compilation.

(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, 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 throughout in the compilation of this sheet.

(B) Adjustment of Plot:

The photographs in these two strips appear to be free of excessive tilt and scale fluctuations and the radial line plot required no unusual adjustment.

(C) Interpretation:

To denote brush three or four feet high the symbol used was thus: (  $\text{f}$  ), and the usual symbol for bamboo, (  $+$  ) was used to denote reeds, 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.

The double full line was used to indicate bayous and large canals, as well as the better class of roads. The lesser bayous and canals were shown by one solid line depending in weight upon the importance of the feature. The intermittent streams were shown by the usual symbol, three dots and a dash.

In most cases (unless labeled on the field inspection prints) the classification of these features had to be determined by a close examination of the photographs.

~~Landmarks are shown by a circle two millimeters in diameter.~~  
~~Prominent objects other than a Sta. shown by~~ **THREE**

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 the actual conditions.

(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. 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.

Names New names ~~available~~ have been  
accepted as shown by the compiler pending  
Mr. Parsons decision on the list submitted  
to him.

2 ggonas



(E) Conflicting Names:

The area West of Bay de la Cheniere and Bay Chicot has undergone a few changes from that shown by the U. S. Coast and Geodetic Survey Charts, numbers 196 and 1271. Small bayous and bays have been formed since these charts were made and names for these were obtained from inhabitants in this area by the field inspection party. *See opposite page.*

All other names shown on this sheet were taken from the afore mentioned charts, from U. S. Engineers' map of Southern Louisiana, from progress sketches of recently executed triangulation, and from the reports of the field inspection party. So far as is known no conflict in names exists.

COMPARISON WITH OTHER SURVEYS:

The junctions with the adjoining sheets to the North, No. T-5317; South, No. T-5319; and West, No. T-5310; are all satisfactory.

The Freeport Sulphur Company's Canal and plant, Bay Lanaux and Little Pass do not show on the U. S. Coast and Geodetic Survey Charts, numbers 196 and 1271; also Bayou Vacherie, shown on the old charts does not appear on the photographs.

In comparing the matching of this sheet with Air Photo Topo, Sheet No. 4030 compiled on 1:40,000 scale in 1922, it is noted that the bromide print furnished this office, which was enlarged to 1:24,000 scale in order to match the scale of this sheet, is distorted to a large degree. The maximum difference, however, of shorelines and features except along the West bank of the Mississippi River and at California Point, is approximately 20 meters, and this is largely attributed to the above mentioned distortion. California Point has washed away approximately 90 meters. This is proven because the Station California Pt. has washed away and could not be recovered by the field inspection party. The West <sup>bank</sup> of the Mississippi River just South of Empire has also washed away about 60 meters. These are the major differences, but, taking into consideration the difference in scale of the two compilations and the elapsed time between the compilations (12 years), it is thought that as a whole the comparisons are very favorable. See Descriptive Report for Sheet T-5319\* for further data concerning this comparison. \*T 5432

State Highway #31, along the West bank of the Mississippi River is shown somewhat exaggerated in order that the shore line of the Mississippi River, the levee, and the New Orleans and Lower Coast Railroad could be accurately shown. This was necessary because at the small scale of the photographs these features would probably appear as a solid blotch when photographed during the photo-lithographic process.

LANDMARKS:

The list of landmarks as recommended by the field inspection party is submitted on form No. 567 for the area covered by this *compilation project. and those not recommended are to be removed from the charts.*

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 roads, bayous, bridges, and canals, may be slightly exaggerated, where necessary in order to keep the detail clear and to keep it from photographing as

*See last page of review.*



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 surveys are required.

Submitted by: S. S. Gill  
Draftsman

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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

New Orleans, LouisianaJune 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

Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					DATUM
	°	'	D. M. METERS	°	'	D. P. METERS			
Potash Navigation Lt. ✓	29	29	(1854.1) 13.2	89	41	(408.9) 1207.5	N. A. 1927	Triangulation	U.S.C. & G.S. Charts Nos. 196, 1271-1273
Hongolace Lt. ✓	29	27	(1018.5) 828.8	89	39	(997.7) 619.3	"	"	" 1273
Harris Bayou Light ✓	29	27	(1384.9) 462.4	89	36	(928.4) 688.5	"	"	" 1273
Tropical Bend Light ✓	29	24	(1772.2) 75.1	89	36	(1086.8) 530.9	"	"	" 1273
<i>Bayou La Moque Light</i> <del>Light Beacon</del>	29	26	(870.9) 976.4	89	35	(126.8) 1490.4	"	Air Photo	" 1273
Water Tank ✓	29	28	(1341.2) 506.2	89	41	(1007.7) 608.9	"	Triangulation	" 1273
Black Stack	29	23	(1415.7) 431.6	89	35	(300.7) 1317.3	"	Air Photo	" 1273
Church Spire ✓	29	23	(1240.2) 607.2	89	35	(103.3) 1514.7	"	Triangulation	" 1273
<i>Sealing of positions taken from air photo sheet checked in office by B.G. Jones</i>									

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) 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-5318

Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by S. S. Gill.

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.) *See following page*
- ✓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. 6, Page 3 of Desc. 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 4 of the report and the review following.~~  
*See page 4 of the report and the review at the 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.) *See pages 4 and 6 of the desc. report.*
- ✓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.) *Page 4 of the desc. report No names conflict with charts 196 and 1271.*
- ✓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. Follett*  
Chief, Division of Charts

*L. B. Borden*  
Chief, Section of Field Work  
*G. H. H. H.*  
Chief, Division of  
Hydrography and Topography.

Review of Air Photo Compilation T 5318 (1934)

Date of Survey: The photographs were taken December 31, 1932, and all detail is shown as of that date except for that noted on pages two and three of the report.

Control: The control was adequate but the accuracy of location given at the bottom of page four of the report is probably high for work on this scale (1:20,000). A more likely value is considered to be an accuracy of location of 8 to 10 meters for intersected points and 10 to 20 meters for other detail.

Comparison with other surveys: See page four of the descriptive report for comparison with T 4030 (1922) which covers the southern border of this compilation.

The last topographic survey covering the remainder of this area is T1197 (1871). This <sup>last</sup> survey is old and many changes have occurred. No detailed comparison is necessary. The compilation shows more complete detail and is adequate to supersede the older surveys T 4030 (1922) and T 1197 (1871).

*B. G. Jones*

(1)

Date. Sept 30, 1935 GEOGRAPHIC NAMESSurvey No. T 5318Chart No. 196, 1271, 1273

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

*Approved names underlined in red. H. Bacon*

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Bay Dohesse</u> ✓			U.S.G.S.	
	<u>Pelican Pt.</u> ✓				
	<u>California Pt.</u> ✓				
	<u>Kelly Gap</u> ✓				
	<u>Spanish Pt.</u> ✓				
	<u>Cuselich Bay</u> ✓				
	<u>Bayou Bio</u> ✓				
	<u>Bayou Tortillon</u> (Correct French)				
	<u>Quarantine Bay</u> ✓				
	<u>Bay la Mer</u> ✓				
	<u>Mangrove Pt.</u> ✓				
	<u>California Bay</u> ✓				
	<u>Bayou Lamogue</u> ✓				
	<u>Auguste Bay</u> ✓				
	<u>Sunrise Point</u> ✓				
	<u>Harris Bayou</u> ✓				
	<del>Ballanrock Canal</del> / Change to <u>Bayou Lamogue</u> (USGS & La. State Engr.) 1935				
	<u>Nicholl</u> ✓				
	<u>Pt. Pleasant</u> ✓				
	<u>Empire</u> ✓				
	<u>Doullat Canal</u> ✓ <i>Doullat OK</i>				
	<u>Bosco Island</u> ✓			U.S.G.S.	



(2)

Survey No. T 5318Date Sept. 30, 1935 GEOGRAPHIC NAMESChart No. 196, 12714/273

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

*Approved names underlined in red. H. Bacon*

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Tropical Bend</u> ✓				
	<u>Sixtymile Point</u>				
	<u>Cox Bay</u> ✓				
	<u>Nairn</u> ✓			Location by U.S.G.S.	
	<u>Bay Vacherie</u> ✓			U.S.G.S.	
	<u>Bayou Vacherie</u>			U.S.G.S.	
	<u>Adams Bay</u> ✓				
	<u>Dymond I.</u> ✓				
	<u>Mevers Canal</u> ✓				
	<u>Back Levee Canal</u>	<small>BACK LEVEL CANAL</small> Back Levee Canal is correct. U.S.G.S. Jan. 1936			
	<u>Upper Grand Bayou</u>			U.S.G.S.	
	<u>Mud Bay</u>	?		U.S.G.S.	
	<u>Bay Chicot</u> ✓				
	<u>Bayou Maringouin</u>			U.S.G.S.	
	<u>Bayou des Platines</u> ✓	<u>Plantins</u> (U.S.G.S. 1936) correction		U.S.G.S.	
	<u>Grand Bayou (3)</u> / <u>Not Bayou Vacherie</u>			U.S.G.S.	
	<u>Bay de la Cheniere</u> ✓				
	<u>Homeplace</u> ✓				
	<u>Bremond</u> ✓			U.S.G.S.	
	<u>Mississippi River</u>				
	<u>Port Sulphur</u> ✓	<u>Formerly Grandepoit</u>		U.S.G.S.	
	<u>Bay Lanaux</u> ✓				

(3)

Survey No. T5318

Date. Sept. 30, 1935 GEOGRAPHIC NAMES

Chart No. 196,1271 & 1273

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

Approved names underlined in red. H. Bacon

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Little Pass</u> ✓				
	<u>Potash</u> ✓				
	<u>Hayes Canal</u> ✓				
	<u>Freeport Sulphur Co. Canal</u> ✓				
	<u>Bayou Cheniere</u> (2) ✓			U.S.G.S.	
	<u>Lake Washington</u> ✓			U.S.G.S. for location	
	<u>Bayou Washington</u> ✓				
	<u>Socla Canal No. 2</u> ✓				
	<u>Battistella Canal</u> ✓ (U.S.G.S. 1935) Location not known (Not Battis)				
	<p>The villages of <u>Daisy</u>, <u>Grand Prairie</u> and <u>Nestor</u> on the east side of the <u>Mississippi River</u> have been abandoned. This part of the river has been made a spillway and the levees abandoned. See U.S. Engs. Map.</p> <p>Comparisons and verification of names have been made from the U.S.G.S. surveys of 1935 H.B.</p>				

Survey No. T-5318GEOGRAPHIC NAMES  
Sheet ThreeChart No. 196 - 1272Date. January 7, 1936

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.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Empire</u>				
	<u>Bosco Island</u>				
	<u>Doullut Canal</u>				
	<u>Harris Bayou</u>				
	<del>Balleneck Canal</del> out.				
	<u>Nicholl</u>				
	<u>Point Pleasant</u>				
	<u>Sunrise Point</u>				
	<u>Auguste Bay</u>				
	<u>Bayou Lemogue</u>				
	<u>California Bay</u>				
	<u>California Point</u>				
	<u>Pelican Point</u>				
	<u>Mangrove Point</u>				
	<u>Kelly Gap</u>				
	<u>Bay la Mer</u>				
	<u>Quarantine Bay</u>				
	<u>Bayou Bio</u>				
	<u>Cuselich Bay</u>				
	<u>Bay Denesse</u>				
	<u>Spanish Point</u>				
	<u>Bayou Bio</u>				
	<u>Bayou Tortillon</u>				