

5404

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, Director

State: Louisiana

DESCRIPTIVE REPORT

Photo  
Topographic  
Hydrographic

} Sheet No. 5404 5404

LOCALITY

Mississippi River Delta

Lower End of  
Southwest Pass

1934

CHIEF OF PARTY

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

5404

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5404

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. 45

REGISTER NO. 5404 5404

State Louisiana

General locality Mississippi River Delta

Locality Lower End of Southwest Pass

Scale <sup>20 000</sup> 1:24,000 photographs Date of survey December 2, 1932.  
Date of compilation-

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

Chief of party M. H. Reese.

Surveyed by See data sheet in the 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 scale of 1:24,000 and enlarged and printed on scale of 1:20,000 by Photo Lithography.

...

*Appended to Chart 1272. May 1935 - H. J. Sumble*

-- NOTES ON COMPILATION --

SHEET NO. 5404

FIELD NO. 45

PHOTOS, NO.                      DATE OF PHOTOGRAPHS                      TIME  
1707A-1715A                      12/2/32                      9:07 to 9:10 A. M.

DATA	BY	DATE
PROJECTION BY	<u><i>E. P. Hernandez Jr.</i></u> E. P. Hernandez, Jr.	<u>6/14/34</u>
PROJECTION CHECKED BY	<u><i>F. A. Donadieu</i></u> F. A. Donadieu	<u>6/14/34</u>
CONTROL PLOTTED BY	<u><i>E. P. Hernandez Jr.</i></u> E. P. Hernandez, Jr.	<u>6/18/34</u>
CONTROL CHECKED BY	<u><i>F. A. Donadieu</i></u> F. A. Donadieu	<u>6/18/34</u>
RADIAL LINE PLOT BY	<u><i>H. C. Smith</i></u> H. C. Smith	<u>6/21/34</u>
RADIAL LINE PLOT CHECKED BY	<u><i>S. S. Gill</i></u> S. S. Gill	<u>6/23/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u><i>S. S. Gill</i></u> S. S. Gill	<u>6/24-30/34</u>
PASTING OF NAMES BY	<u><i>S. S. Gill</i></u> S. S. Gill	<u>7/16/34</u>
REVIEW OF COMPILATION BY	<u><i>H. C. Smith</i></u> H. C. Smith	<u>7/16/34</u>

AREA OF DETAIL INKED-- 7.4 sq. statute miles.

LENGTH OF SHORELINE-- 38.4 statute miles (more than 100 m. from nearest opposite shore).

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. 5404,

FIELD NO. 45

GENERAL INFORMATION:

Instructions dated November 7, 1933.

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

The tide in this area is approximately two feet (2'), and its effect was neglected in determining the shore line due to the small scale of photographs.

The land area of this sheet consists of low marsh lands with numerous small bayous. The town of Burwood is built on elevated ground.

At the south end of the pass there are jetties. The jetties built along the shore line of the River are wooden piling and those that are along the Gulf are concrete.

Small wing dams have been built along the shore line of the Pass to narrow the channel.

There are numerous lights ~~beacons~~ along both banks of the River and also on the jetties.

The U. S. Engineers have located stations along both the East and West Jetties and along both banks of South West Pass. These stations are shown on the sheet with 3 <sup>mm</sup> ~~cm~~ circles.

This sheet was compiled from the U. S. Army Air Corps, five lens, T-3A Camera No. 32-3, photograph numbers 1707-1715 (only one flight).

CONTROL:

(A) Sources.

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

- (a) Triangulation by F. B. T. Siems, 1921.
- (b) Triangulation by G. C. Mattison, 1921.
- (c) Triangulation by F. S. Borden, 1922.

The geographic positions by the above parties were corrected to the North American 1927 Datum by obtaining a factor from a comparison of the geographic positions on the North American Datum of a group of stations that were also located by first order triangulation and computed on the N. A. 1927 Datum. *(1927-1934) (1883-1934)*

The stations used were: De Sulte, Bayou Cook, Biyou *(1922-1934)* and Buras. *(1922-1934)* The correction was found to be +2.9 in back latitude, -2.9 m. in forward latitude, -16.4 m. in back longitude and +16.4 in forward longitude. This correction was applied to all triangulation stations covered by this sheet.

(B) Errors.

The control was adequate for this sheet and the radial plot gave good intersections.

(C) Discrepancies.

No control stations established by other organizations were used in this compilation.

COMPILATION:

(A) Method.

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

(B) Adjustments of Plot.

The photographs in this strip were free of excessive tilt and scale fluctuations and the radial plot required no unusual adjustments.

(C) Interpretation.

Only the usual 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 sand bars along the east coast were clearly evident, although the exact boundaries, as shown, may be somewhat in error due to continual changes.

All bayous and small streams are shown by the double full lines and those of lesser importance by a full single line.

The concrete and wooden jetties are also shown with the solid single line as well as the side walls at Burrwood. Mud flats are shown by a broken line.

(D) Information From Other Sources.

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

(E) Conflicting Names.

There are no names on this sheet conflicting with names shown on the U. S. C. & G. S. charts of this area.

*No new names are shown.*

COMPARISON WITH OTHER SURVEYS:

The junction with the adjoining sheet, T-5403, to the north is satisfactory.

In comparing with the U. S. C. & G. S. Chart No. 4044, compiled in 1922 from air photos by Naval Air Service, G. C. Mattison, Chief of Party, there are some slight variations. The Southwest Pass is becoming narrow north of Burrwood due to the building of wing jetties. These are causing the silt and debris to deposit and therefore causing the width of the pass to decrease.

The high water line on the east coast does not agree with the high water line as shown on the air photo topographic sheet. This

is probably due to storms and high winds washing the shore away.

The detail is very much the same. Burrwood Bayou and some of the smaller bayous coincide in comparing the two sheets. A sanitary canal at Burrwood has been dug since the 1922 aerial survey.

In comparing the west coast line the shore has changed a small amount probably due to the winds and tides, but the general outline is the same.

In comparing with sheet of the U. S. Engineers, Passes of the Mississippi River, Sheet No. 45, made from aerial surveys in 1922 and 1929, there is little variation from the shore line in 1929, approximately twenty (20) meters.

LANDMARKS:

The list of landmarks as recommended by the field inspection has been submitted on Form 567 for the area covered by this sheet.

*See next page and the reverse of the book.*

RECOMMENDATIONS FOR FURTHER SURVEYS:

The compilation of this sheet is believed to have a probable error of eight (8) meters in well defined detail of importance for charting, and of fifteen (15) meters for other data.

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*  
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, Louisiana,

July 15, 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			
Front Range S. W. Pass Lt. 1921 <i>(Old Lt. structure)</i>	28	56	(1196.2) 651.0	89	24	(403.3) 1221.7	1927 N. A.	Triangu- lation ✓ 1272	
Burwood Tank 1921	28	57	(41.5) 1805.7	89	22	(276.0) 1348.8	1927 N. A.	Triangu- lation ✓ 1272	
Southwest Pass Light House 1904-1922	28	58	(1294.6) 542.6 662.6	89	23	(791.5) 843.0 827.0	1927 N. A.	Triangu- lation ✓ 1272	
Southwest Pass East Jetty Beacon 1921 <i>old Lt.</i>	28	54	(1205.0) 642.2	89	25	(619.7) 1005.9	1927 N. A.	Triangu- lation ✓ 1272	
Light Beacon #6	28	59	(1673.6) 173.5	89	21	(230.8) 1393.5	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon #5	28	58	(255.2) 1591.9	89	22	(804.8) 826.8	1927 N. A.	AirPhoto ✓ 1272	
Old Tower	28	58	(409.9) 1437.2	89	23	(1129.9) 494.6	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon #3	28	57	(75.5) 1771.7	89	23	(1132.6) 491.9	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon #4	28	57	(1652.1) 195.1	89	23	(604.7) 1019.8	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon #2	28	56	(1347.6) 499.6	89	24	(1291.7) 333.4	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon #1	28	56	(1471.1) 374.3	89	24	(605.0) 1020.1	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon R. Range	28	55	(1033.6) 813.7	89	25	(1116.5) 508.6	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon F. Range	28	55	(1675.7) 171.6	89	25	(824.5) 800.6	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon R. Range	28	54	(208.1) 1639.1	89	25	(130.3) 1494.8	1927 N. A.	AirPhoto ✓ 1272	
Light Beacon F. Range	28	54	(663.7) 1183.6	89	25	(136.6) 1488.5	1927 N. A.	AirPhoto ✓ 1272	

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.

U. S. GOVERNMENT PRINTING OFFICE: 1933

*Scaling of Photo locations checked to 3 meters by Voucher and Bensen  
Entry of GPs checked of A stations checked by B.G.J. B.G.Jones*

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

New Orleans, Louisiana,

July 15, 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			
<i>N. E.</i> N. E. Radio Tower	28	54	(1077.3) 769.9	89	25	(626.5) 998.6	N. A. 1927	AirPhoto ✓ 1272	
S. W. Radio Tower	28	54	(1124.6) 722.5	89	25	(585.9) 1039.2	" "	" " ✓ 1272	

*Sealing of photo locations checked to 3  
meters by Benson.  
Bgg*

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.

U. S. GOVERNMENT PRINTING OFFICE: 1933



## REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 5404

**Title (Par. 56)** Forwarded with Sheet.

**Chief of Party** M. H. Reese **Compiled by** S. S. Gill

**Project** Louisiana Air Photo Compilation **Inspection dated** Nov. 7, 1933.  
**Party No.** 24

1. The survey and preparation for its execution to the requirements of the topographic Manual. (Par. 2; and 11, a, b, c, d, e, f and 1c.) 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. 11, 12.)
4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 13.) None submitted.
5. High water line on survey and survey coast is clear and adequate for chart compilation. (Par. 14a, 41, 42.)
6. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 14, 15, 16, 17, 42, 43.) See Par. C, Page 3 of Des. Report.
7. Important details shown on previous surveys and on the chart have been compared with this chart 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, buoys, 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 the review of the book.*
8. The span, draw and clearance of bridges are shown. (Par. 14b.)
9. The data furnished by the Field Inspection is adequate.

**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 tabulating remarks.

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 61, 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 504, and scaling of positions checked. (Par. 20, 23, and 27.) None submitted on form 624
- 13. A list of landmarks for charts was furnished on Form 507 and scaling of positions checked. (Par. 102, c, 20.)  
*positions were not checked by the field party but were checked in the office*
- 14. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 24) *unadjusted*
- 15. Junctions with contemporary surveys are adequate.
- 16. Geographic names are shown on the sheet and are covered by the Descriptive Reports. (Par. 64, 65a.)  
*Page 3*
- 17. The quality of the drafting is good. (Par. 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34.)

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 Maps  
*L. O. Tolbert*  
 Chief, Division of Charts,

*J. P. Borden*  
 Chief, Section of Field Work  
*G. H. Rabe*  
 Chief, Division of  
 Photogrammetry and Topography

REVIEW OF AIR PHOTO COMPILATION T-5404 (1934).

LANDMARKS:

△ S.W. Pass E. Jetty Beacon. This is the old S.W. Pass, E. Jetty Light structure and is still standing according to a letter from M. H. Reese in November 1934.

S. W. Pass, E. Jetty Light (the present light) was not shown on the compilation when first received in this office. In reply to an inquiry regarding the light ~~was~~, Reese forwarded a tracing showing the position which was transferred to the compilation as shown. The method of location of the position given on the tracing was not stated, but the light plots on the N. E. corner of the landing wharf and is described in the light list as on the landing wharf. The position checks the position now shown on Chart 1272.

S. W. Pass Inner Range as marked by positions of the lights on this compilation measures  $24^{\circ} 50'$  from South instead of  $23^{\circ}$  ~~25~~ given in the light list.

Positions scaled from the compilation and shown on the land mark list have been checked in this office.

COMPARISON WITH OTHER SURVEYS:

The compilation has been compared with T-4044, 1922 and shows numerous changes in detail. The compilation is complete and ~~adequate~~ <sup>adequate</sup> to supersede the older survey.

The lights and land marks shown have been compared with Chart 1272 <sup>and the light list</sup> as noted in the above paragraph and on page 5 <sup>and 6</sup>.

*B. G. Jones*  
B. G. Jones.

① T5404

New names from surveys by U.S.G.S. in 1935. West Delta

	Remarks	Decisions
1		
2		
3		
4		
5		
6		
7	C, New name. OK	- <u>Stake Island</u>
8	C " " "	- <u>Mud Bay</u>
9	C. " " "	- <u>Stake Island Bayou</u>
10	C " " "	- <u>No. 3 Bayou</u>
11	C. " " "	<u>Light House Bayou</u>
12	C. " " "	<u>Middle Ground Pass</u>
13	C " " "	- <u>Mudpan Bayou</u>
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. **T 5404**

*Underlined Names approved Feb. 1936. H.B.*  
*On Chart No. 1272*  
*On previous survey No. 1272*  
*On U. S. S. G. S. Maps From local information*  
*On local Maps*  
*P. O. Guide or Map*  
*Rand McNally Atlas*  
*U. S. Light List*  
*F. U. S. Engrs.*

Name on Survey	A	B	C	D	E	F	G	H		
<u>East Jetty</u>	1272								✓	1
<u>West Jetty</u>	"								✓	2
<u>SOUTHWEST PASS</u>	"								✓	3
<u>Burrwood</u>	"		✓						✓	4
<u>Burrwood Bayou</u>			✓							5
<u>Sanitary Canal</u>			✓							6
<u>Stake Island</u>			Stake Island							7
			Mud Bay							8
			Stake Island Bayou							9
			No. 3 Bayou							10
			Light House Bayou							11
			Middle Ground Pass							12
			Mudpan Bayou							13
<u>Gulf of Mexico</u>	1272		✓						✓	14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
<i>Names verified by H.B. Jan. 30, 1936</i>										27