

5407

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Form 504
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DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Photo
Topographic
~~Hydrographic~~

Sheet No. 5407

State Louisiana

LOCALITY

Mississippi River Delta

~~East Bay to Northeast Pass~~

South Pass to SOUTHEAST PASS

1934

CHIEF OF PARTY

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

5407

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 49

REGISTER NO. 5407 **5407**

State Louisiana

General locality Mississippi River Delta

Locality East Bay to Northeast Pass South Pass to Southeast Pass

Scale 1:20,000 photographs
~~1:24,000~~ Date of ~~survey~~ December 2, 1932

~~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 M. G. Gill, Jr.

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.

Applied to ENT 1272 - May 1935 - H. S. Gumble

-- NOTES ON COMPILATION --

SHEET NO. 5407

FIELD NO. 49

PHOTOS, NOS.	DATE OF PHOTOGRAPHS	TIME
1417-1423	12/2/32	9:58 to 10:00 A. M.
1137-1128	12/2/32	9:22 to 9:27 A. M.

DATA	BY	DATE
PROJECTION BY	<u><i>E. P. Hernandez, Jr.</i></u> E. P. Hernandez, Jr.	<u>6/15/34</u>
PROJECTION CHECKED BY	<u><i>F. A. Donadieu</i></u> F. A. Donadieu	<u>6/15/34</u>
CONTROL PLOTTED BY	<u><i>F. A. Donadieu</i></u> F. A. Donadieu	<u>6/19/34</u>
CONTROL CHECKED BY	<u><i>H. C. Smith</i></u> H. C. Smith	<u>6/21/34</u>
RADIAL LINE PLOT BY	<u><i>F. A. Donadieu</i></u> F. A. Donadieu	<u>7/3-5/34</u>
RADIAL LINE PLOT CHECKED BY	<u><i>M. B. Gill, Jr.</i></u> M. B. Gill, Jr.	<u>7/6/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u><i>M. B. Gill, Jr.</i></u> M. B. Gill, Jr.	<u>7/7-21/34</u>
PASTING OF NAMES BY	<u><i>M. B. Gill, Jr.</i></u> M. B. Gill, Jr.	<u>7/27/34</u>
REVIEW OF COMPILATION BY	<u><i>G. O. Coignet</i></u> G. O. Coignet	<u>7/28/34</u>

AREA OF DETAIL INKED-- 34.7 sq. statute miles approx.

LENGTH OF SHORELINE-- 119.8 statute miles approx.

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. 5407,

FIELD NO. 49

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 inspection party.

The land area of this sheet consists of low marsh lands with numerous small islands, lakes, bayous, and river passes.

There is no cultivated area on this sheet and the only vegetation consists of willow trees along the streams, great areas of reeds, and marsh grass everywhere. The town of Port Eads is built on elevated land.

The tide along the main shoreline is approximately two feet. In some areas the difference between the high and low water line is too small to be noted at this scale. In other areas the slope of the coast is so gradual that the high water line was taken at the marsh line, from which sand and mud continued, making the low water line indistinguishable. In these areas the channels are shown by broken lines. Some of this marsh is under water at high tide so in these places the high water line is probably not accurate. In several areas the high water line is very indefinite, so is shown with a broken line.

The U. S. Engineers have located stations along the banks of the South Pass. Those stations recovered are shown on the sheet by a 3 mm. circle.

This sheet was compiled from the U. S. Army Air Corps, five lens, T-3A Camera No. 32-3; photograph numbers 1417-1423 on the east flight between Longitudes $89^{\circ}04'10''$ and $89^{\circ}04'50''$ approximately, and photograph numbers 1128-1137 on the west flight along Longitude $89^{\circ}12'10''$ approximately.

CONTROL:

(A) Sources.

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

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

All geographic positions in this area are corrected from the North American Datum to the North American 1927 Datum. Using first order triangulation stations De Suite 1927-1934, Bayou Cook 1883-1934, Blyou 1922-1934, and Buras 1922-1934, a conversion factor was obtained. This correction was found to be +2.9 meters in back latitude, -2.9 meters in forward latitude, -16.4 meters in back longitude, and +16.4 meters in forward longitude.

(B) Errors.

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

(C) Discrepancies.

No discrepancies in the geographic positions were found. No control stations established by other organizations were used in the compilation of this sheet.

COMPILATION:

(A) Method.

The usual five lens photograph radial line method of plotting was used throughout 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 line plot required no unusual adjustments.

(C) Interpretation.

Only the graphic symbols approved by the Board of Surveys and Maps (1932) were used. No difficulty was encountered in the interpretation of photographic detail except in that area at the mouth of South Pass which is covered by the "C" prints of photographs 1126 and 1127. In these photographs the exact positions of the houses of the pilot station and below were hard to pick. Some of the detail of said section may possibly be omitted. The entire portion of West Jetty may not be shown. The high water line of the land southwest of West Jetty and "~~Light on Radio Station~~" may be inaccurate.

The sand bars, as shown by dotted lines, are subject to continual shifting so the exact boundaries are somewhat in error.

Mud shoal areas are bounded approximately by broken lines.

(D) Information From Other Sources.

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

(E) Conflicting Names.

There are no names on this sheet which conflict with names on other U. S. Coast and Geodetic Survey charts of this area.

* West Jetty Front R. Lt.

COMPARISON WITH OTHER SURVEYS:

The junctions with the adjoining sheets, 5403 to the west and 5406⁴ to the north, are satisfactory. * 5434 and 5435

Comparison of this sheet with U. S. C. & G. S. aerial photo compilation sheets No. 4050 and No. 4043 of 1922 and the U. S. Engineer Aerial compilation survey of 1929:-

The shape of the land bounding South Pass has remained practically unchanged since 1922 except for areas to the west and southwest of the mouth of South Pass which seem to be rapidly washing away until today most of the areas that extended from the Pass into East Bay may be under water at high tide.

The area which bounds Redfish Bay has practically remained the same.

To the east of the lower Southeast Pass, Micale Bayou has filled in and its mouth extended about 400 meters since 1922. The small bay south of Micale Bayou has its opening to the Gulf closed on the north and opened on the east.?

The whole of Garden Island Bay is very rapidly being filled in at the rate of from one to about one and one half miles between 1922 and 1932.

The mouth of Cheniere Pass, Dennis Pass, and Sawdust Bend Bayou have filled up. The part of Howard Pass which connects with Johnson Pass is dry.

By comparison of the two above mentioned surveys with this sheet it seems that all the changes have been consistent and steady between the years 1922 and 1932.

LANDMARKS:

The landmarks in this area which are of value to navigation are submitted on Form 567.

RECOMMENDATION FOR FURTHER SURVEYS:

The compilation of this sheet is believed to have a probable error of 8 meters in well defined detail and 15 meters in others.

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 deemed necessary.

See review of book.

M. B. Gill, Jr.
submitted by: M. B. Gill, Jr.
Draftsman.

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

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 5407

Title (Par. 86) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by M. B. Gill, Jr.

Project Louisiana Air Photo Compilation
Party No. 24

Instructions dated Nov. 7, 1933

1. The survey and preparation for it conform to the requirements of the topographic manual. (Par. 81 and 16, a, b, c, d, e, f, g and h.) 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. 22, 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. 20.) None submitted.
5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 18a, 43, 44.)
6. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 25, 27, 28, 30, 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, buoys, 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. 16a.)
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 report, as far as they apply to this survey. (Pars. 01, 02 and 03.)
- 11. The descriptive report also contains all additional information provided in photo captions as prescribed in the instructions and in the "Notes on the Description of Photographs Like Maps from Five Lens Aerial Photographs".
- 12. The descriptions of reconnaissance stations and references to charts that were accomplished on Form 504, and naming of pertinent charts. (Pars. 04, 05, and 06) *None*
- 13. A list of landmarks for charts was furnished on Form 507 and naming of pertinent charts. (Pars. 08, 9, 09.)
- 14. The geographic dates of the chart is *North American 1927* and the reference station is *correctly stated. (Pars. 04)* and is *unadjusted.*
- 15. Junctions with contemporary surveys are indicated.
- 16. Geographic names are shown on the chart and are checked by the Description Reports. (Pars. 04, 09a.)
- 17. The quality of the drafting is good. (Pars. 04, 05, 06, 07, 08, 09, 09a, 09b, 09c, 09d, 09e, 09f, 09g.)

18. No additional surveying is recommended.

19. Remarks:

20. Checked and approved:

M. H. Reese
 M. H. Reese
 Chief, Section of Field Reports

21. Remarks after review in office: *See following pages.*

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

Checked and approved: *C.K. Green*
 Chief, Section of Field Reports
L.D. Tolbert
 Chief, Section of Maps

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

New Orleans, Louisiana,

July 24, _____, 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					DATUM	METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE					
	°	'	D. M. METERS	°	'			
South Pass East Jetty Lt. Hse. 1904	28	59	(1147.8) 699.4	89	08	(1330.5) 293.8	N.A. 1927	Triangu- lation 1904 #1272 ✓
Front R, South Pass West Jetty	28	59	(1082.6) 764.6	89	08	(972.8) 651.5	"	Photo Comp. 1934 " ✓
Pilot Tower Port Eads	28	59	(706.4) 1140.5	89	08	(720.7) 903.5	"	Triangu- lation 1921 " ✓
Northwest Radio Tower Port Eads	29	00	(369.5) 1477.7	89	09	(573.9) 1050.1	"	Photo Comp. 1934 " ✓
Southeast Radio Tower Port Eads	29	00	(422.3) 1424.9	89	09	(638.8) 985.2	"	" 1934 " ✓
Radio Compass Port Eads	29	00	(520.1) 1327.1	89	09	(735.0) 889.0	"	" 1934 " ✓
Water Tank Port Eads	29	00	(79.4) 1767.8	89	09	(339.6) 1282.1	"	" 1934 " ✓
South Pass (Rear) Lt. Hse. 1904	29	00	(180.2) 1667.0	89	10	(1608.0) 16.0	"	Triangu- lation 1904 " ✓
Picayune Bayou Lt. 1921	29	01	(723.5) 1123.7	89	10	(124.2) 1499.5	"	" 1921 " ✓
Oysterville Lt. (See next page)	29	03	(1452.8) 394.4	89	12	(1263.8) 359.4	"	" " ✓
Grand Bayou Lt. 1921	29	04	(767.7) 1079.5	89	12	(329.7) 1293.3	"	" 1921 " ✓
Upper Cave Lt. (See next 1934 page)	29	06	(1612.2) 2235.0	89	14	(1327.7) 294.7	"	" " ✓
Frank's Crossing Lt. (See next page) 1934	29	07	(1527.8) 319.4	89	14	(611.7) 1010.5	"	" " ✓
S. Pass West Jetty Rear R. Light	28	59	(901.4) 945.8	89	08	(629.4) 994.9	"	Photo Comp. 1934 " ✓
S. Pass Front Range Lt.	28	59	1147.0 114.7	89	09	839.0	"	" " ✓

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.

Scaling of Positions from photo comp by D.G. Jones
" " " " " " " " " "
1147.0
114.7
1547
copy checked
D.S.G.

REVIEW OF AIR PHOTO COMPILATION T-5407 (1934)

Landmarks:

1921 Triangulation positions were plotted and used on the compilation and entered in the list of landmarks for the following lights which have been moved since that date: Oysterville light moved 10 meters, 250 degrees, in 1931; Upper Cave light moved 13 meters, 238 degrees, in 1926; and Frank's Crossing light moved 5 meters, 270 degrees, in 1931. These distances were taken from the Notice to Mariners. The positions in the list of landmarks on the preceding page have been corrected by applying the change in azimuth and ^{distance}~~position~~ to the 1921 triangulation positions. These lights have been replotted on the compilation by azimuth and distance from the 1921 triangulation positions and are now shown as topographic stations on the compilation. The distances used to replot the stations are probably approximate, only, but are so small that no error of over 10 meters is likely.

South Pass Front Range light was not shown on the original compilation. The light does not show on the photographs. In answer to an inquiry regarding the position the field party located the position of the light on the photos by field inspection and submitted the geographic position plotted on a tracing of the original compilation. The position so determined has been added to the attached list of landmarks in this office and plotted on the compilation before printing. The light now plots on the inner edge of the west jetty as described in the light list but the azimuth of the range on this compilation is 134° rather than 135° given in the light list and as shown on the present chart 1274. The azimuth of 134° checks with the channel lines on the chart.

The position of \triangle Port Eads Plot Tower 1921 was plotted incorrectly on the original compilation and has been corrected. This position

was not used to control the plot.

The landmark list attached has been corrected according to changes noted in the above paragraph and should be used in preference to the list submitted by Reese as Chart Letter ⁶²³523 1934. The scaling of positions from the photo compilation has been checked in this office.

This compilation is adequate to supersede the older topographic surveys, T-3630 (1916), T-4043 (1922), T-4050 (1922). Comparisons with the 1922 surveys are given on page 4.

The estimated accuracy of location given on page 4 is somewhat high. A better estimate is an accuracy of location of 6 to 10 meters for intersected points and 6 to 20 meters for other detail. These values may be exceeded somewhat in the area east of longitude $89^{\circ} 08'$.

B.G. Jones

GEOGRAPHIC NAMES
LA.

Date February 11, 1935

Survey No. T-5407

Chart No. 1272

Diagram No. 1272-2

Sheet 1 of 2

* Approved by the Division of Geographic Names, Department of Interior.

⊘ Not Approved by the Division of Geographic Names, Department of Interior.

⊞ Referred to the Division of Geographic Names, Department of Interior.

New names from U.S.G.S. SW. East Delta and SE. East Delta, 1935. Advance Copy

Status	Name on Survey	Name on Chart 1272	US Engrs	New Names in local use USGS Survey of 1935	Names assigned by Field	Location
	<u>Sawdust Bend Bayou</u> ✓				✓	
	<u>Loomis Pass</u> ✓	Same	Same			
	<u>Cheniere Pass</u> ✓	"	"			
	<u>Southeast Pass</u> ✓	"	"			
	<u>Northeast Pass</u> ✓	"	"			
	<u>Portage Bay</u> ✓	"	"			
	<u>South Pass</u> ✓	"	"			
	<u>Dennis Pass</u> ✓	"	"			
	<u>Johnson Pass</u> ✓	"	"	Johnson's Pass		
	<u>Cognerieh Pass</u> ✓	"	"	Same		
	<u>Balize Bayou</u> ✓	Now obliterated Do not use name	Obliter- ated	No name	Old Bed of Balize Bayou	
	<u>Micale Bayou</u> ✓	Same ✓	Same	Same		
	<u>Cadro Pass</u> ✓	"	"	Cadros Pass	?	
	<u>Old Dennis Pass</u> ✓				✓	
	<u>Wright Pass</u> ✓	Same	Same			
	<u>Howard Pass</u> ✓	"	"		Reported as dry.	
	<u>Redfish Bay</u> ✓	"	"			
	<u>North Shore Bay</u> ✓			Same		
	<u>Francois Bend</u> ✓			"		
	<u>Loomis Pond</u> ✓			"		
	<u>Garden Island Pass</u> ✓			"		
	<u>Valentiers Pond</u> ✓			"		

J. J. [Signature]
Underscored names approved N.B.

Date. February 11, 1935

GEOGRAPHIC NAMES
L.A.

Survey No. T-5107

Chart No. 1272

Diagram No. 1272

*. Approved by the Division of Geographic Names, Department of Interior.

Sheet 2 of 2

φ. Not Approved by the Division of Geographic Names, Department of Interior.

P. Referred to the Division of Geographic Names, Department of Interior.

New names from U.S.G.S. S.W. East Delta and S.E. East Delta, 1935 Advance Copy

Status	Name on Survey	Name on Chart 1272	U.S. Engrs	New Names in local use U.S.G.S. Survey of 1935	Names assigned by Field	Location
	<u>Whale Bay</u> ✓				✓	
	<u>Fresh Water Bayou</u> ✓				✓	
	<u>East Bay</u> ✓	✓	✓			
	<u>Garden Island Bay</u> ✓	✓	✓			
	<u>Port Eads</u> ✓	✓	✓			
	<u>Gulf Of Mexico</u> ✓	✓	✓			
	<u>Pilot Station</u> ✓	= village of	South	Pass Same		
	<u>Lookout Island</u> ✓			Same		
	<u>Renaud Bend</u> ✓			"		
	<u>Viveal's Pass</u> ✓			"		
	<u>Wrights Pass</u> ✓			"		
	<u>Fox's Pass Pond</u> ✓			"		
	<u>Morgan Pond</u> ✓			"		
	<u>Johnson Pond</u>					

Underlined names approved
J. B. Eads