DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: Louisiana

DESCRIPTIVE REPORT

LOCALITY
Mississippi River Delta
Lower End of Southwest Pass

1934

CHIEF OF PARTY
M. H. Reese, Jr., H. & G. Engr.
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 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 this sheet May 1935 - H. D. Smith


--- NOTES ON COMPILATION ---

SHEET NO. 5404
FIELD NO. 45

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

DATA

<table>
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<td>BY E. F. Hernandez, Jr.</td>
<td>6/14/34</td>
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<td>PROJECTION BY</td>
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<tr>
<td>PROJECTION CHECKED BY F. A. Donadio</td>
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<tr>
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<tr>
<td>RADIAL LINE PLOT BY H. C. Smith</td>
<td>6/21/34</td>
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<tr>
<td>RADIAL LINE PLOT CHECKED BY S. S. Gill</td>
<td>6/23/34</td>
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<td>DRAFTING OF PHOTOGRAPHS BY S. S. Gill</td>
<td>6/24-30/34</td>
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<td>PASTING OF NAMES BY S. S. Gill</td>
<td>7/16/34</td>
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<tr>
<td>REVIEW OF COMPILATION BY H. C. Smith</td>
<td>7/16/34</td>
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</table>

AREA OF DETAIL INKED— 7.4 sq. statute miles.

LENGTH OF SHORELINE— 38.4 statute miles (more than 100 m. from nearest opposite shore).
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 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 'm' circles.
This sheet was compiled from the U. S. Army Air Corps, five lens, T-3A Camera No. 32-5, 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. (1927-1935) (1883-1918) (1922-1934)
The stations used were: De Soto, Bayou Cook, Bayou and Burwood. The correction was found to be 42.9 in back latitude, -2.9 m. in forward latitude, -16.4 m. in back longitude and 416.4 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.

COMPARISON WITH OTHER SURVEYS:

The junction with the adjoining sheet, C-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, C. C. Pattison, 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.

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,
Draftsman.

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>POSITION</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
<tr>
<td>Front Range</td>
<td>28 56</td>
<td>1196.2</td>
<td>651.0</td>
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<td>Triangulation</td>
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<tr>
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<td>1905.7</td>
<td>69 22</td>
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<tr>
<td>(Old Lighthouse Structure)</td>
<td>28 58</td>
<td>1234.6</td>
<td>89 23</td>
<td>1927</td>
<td>Triangulation</td>
<td>1272</td>
</tr>
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<tr>
<td>Southwest Pass</td>
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<td>89 22</td>
<td>1927</td>
<td>N. A.</td>
<td>1272</td>
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<tr>
<td>Light House 1904-1922</td>
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<td>1927</td>
<td>Triangulation</td>
<td>1272</td>
</tr>
<tr>
<td>East Jetty Beacon 1921</td>
<td>28 59</td>
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<td>89 22</td>
<td>1927</td>
<td>AirPhoto</td>
<td>1272</td>
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<td>Light Beacon #5</td>
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<td>Light Beacon #5</td>
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<td>Old Tower</td>
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<td>N. A.</td>
<td>1272</td>
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</tbody>
</table>

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 be 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, tail stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) landside, (3) harbor; 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
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:

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M. E. Reese, Chief of Party.

<table>
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<th>CHARTS AFFECTED</th>
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<td></td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td>DATUM</td>
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<td>N. E. Radio Tower</td>
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<td>S. W. Radio Tower</td>
<td>28 54</td>
<td>(1124.6)</td>
<td>69 25</td>
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</table>

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Title (Pub. No.) Forwarded with Sheet.

Name of Party M. H. Reese

Compiled by S. S. Gill

Project Louisiana Air Photo Compilation

Instructions dated Nov. 7, 1933.

Party No. 24

The survey and preparation for it conforms to the requirements of the topographic manual. (Pars. 20 and 21, 22, 26, 24, 26, 25, 24, 26, 26, 24) Note: Par. 3 not applicable to this party.

The character and scope of the compilation satisfy the instructions and the Notes on the Compilation of Photometric Line Maps from Five Low Aerial Photographs.

The control and adjustment of the radial plot were adequate. (Par. 26, 26)

There is insufficient control on maps from other sources that were transmitted by the field party for their application to the chart. (Par. 26, 26) None submitted.

High water lines on surveys and maps were correct and adequate for chart compilation. (Pars. 26, 26, 26)

The representation of low water lines, pools, coves, reefs, and shoals and lagoons pertaining to them is satisfactory. (Pars. 26, 26, 26, 26, 26, 26) See Par. 26, Page 3 of Doc. Depot.

The changes shown on previous surveys and on the chart have been noted with this chart and a statement has been enclosed in this report regarding the removal from the chart or change in position of important details such as reefs, lighthouses, piers, piers, buoys, 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 lock.

The name, size and clearance of bridges are shown. (Par. 26, 26)

The data furnished by the field inspection is adequate.

Note: Details and paragraphs, words or phrases not applicable and useless those requiring it. Paragraph numbers refer to those in the Topographic Manual. The reverse side has continuation remains.
22. The descriptive report covers all details listed in the manual, so far as they apply to this survey. (Para. 5d, 6a and 6c)

23. The descriptive report also contains all additional information required in photo interpretation as prescribed in the instructions and in the "Rules on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".

24. The descriptions of recoverable stations and reference to shore lines were accomplished on Form 5R, and scaling of positions accepted. (Para. 20, 25, and 97) None submitted on Form 6A

25. A list of landmarks for charts was furnished on Form 57 and scaling of positions accepted. (Para. 20, 25, and 60) Positions were not checked by the field party but were checked in the office.

26. The geographic datum of the sheet is North American 1927 and the reference station is currently noted. (Para. 5a) Unadjusted

27. Surveys with contemporary surveys are adequate.

28. Geographic names are shown on the sheet and are covered by the descriptive report. (Para. 6b, 62b)

29. The quality of the drafting is good. (Para. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 41, 42, 43, 44, 45)

30. No additional surveying is recommended.

31. Remarks

32. Examined and approved

33. Remarks after review in office.

Noted in office by: J. G. Jones

Examined and approved

K. T. Adams
Chief, Division of Field Work
Chief, Division of Charting

J. H. Gordon
Chief, Division of Field Work
Chief, Division of Hydrography 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 Mr. 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° 50' from South instead of 23° 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-4014, 1922 and shows numerous changes in detail. The compilation is complete and adequate to supersede the older survey.

The lights and land marks shown have bee compared with Chart 1272 as noted in the above paragraph and on page 5 and 6.

B. C. Jones
B. C. Jones.
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Decisions</th>
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<td>6</td>
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<td>Mudpan Bayou</td>
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<td>Gulf of Mexico</td>
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Names verified by H.B., Jan. 30, 1936