

9876

ORIGINAL

Diag. Cht. No. 1273-2 & 1274-2.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC
Field No. Ph-90	Office No. T-9876
LOCALITY	
State	LOUISIANA
General locality	GULF COAST
Locality	LEEVILLE
<u>19</u>	
CHIEF OF PARTY	
E. H. Kirsch, Chief of Field Party	
H. C. Applequist, Tampa Photo Office	
LIBRARY & ARCHIVES	
JUN 10 1958	
DATE	

COMM-DC 61300

9876

DESCRIPTIVE REPORT - DATA RECORD

T - 9876

Project No. (II): 24200

Quadrangle Name (IV):

Field Office (II): Houma, Louisiana

Chief of Party: B. H. Kirsch

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: H. C. Applequist

Instructions dated (II) (III): 5 September 1952

Copy filed in Division of

Supplement #1 25 September 1952

Photogrammetry (IV)

Supplement #2 30 September 1956

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): 11-20-56 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 5-9-58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): LA FOURCHE, 1928

Lat.: 29°08'43".302 (1333.1m)

Long.: 90°13'25".519 (689.8m)

Adjusted
Unadjusted

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **W. M. Reynolds**

Date: **Jan. - Feb. 1953**

Planetable contouring by (II): **W. M. Reynolds**

Date: **Jan. - Feb. 1953**

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

28 April 1953
Air Photo Compilation

Projection and Grids ruled by (IV): **A. Riley (W.O.)**

Date: **8 Sept. 1953**

Projection and Grids checked by (IV): **H. D. Wolfe (W.O.)**

Date: **8 Sept. 1953**

Control plotted by (III): **R. R. Wagner**

Date: **25 Oct. 1954**

Control checked by (III): **R. J. Pate**

Date: **25 Oct. 1954**

Radial Plot ~~orthostereoscopic~~

~~Stereoscopic~~ by (III): **M. M. Slavney**

Date: **29 Feb. 1956**

Stereoscopic Instrument compilation (III):

Planimetry

Inapplicable

Date:

Contours

Date:

Manuscript delineated by (III): **W. H. Shearouse**

Date: **15 Oct. 1956**

Photogrammetric Office Review by (III): **J. A. Giles**

Date: **5 Nov. 1956**

Elevations on Manuscript **J. A. Giles**
checked by **W** (III):

Date: **30 Oct. 1956**

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **C&GS Nine-lens**

Number	Date	Time	Scale	Stage of Tide
39485	29 Sept. 1952	0842	1:20,000	Negligible
39486	"	0844	"	"
39518	"	0942	"	+ 1.2 ft.
39519	"	0943	"	+ 1.2 ft.

Single-lens photography:

56-W-4284 to 4288 incl. 10-24-56 1:30,000
56-W-4349 " 4353 " " "
56-W-4500 " 4504 " " "

Tide (III)

Predicted tides

Reference Station: **PENSACOLA, FLA.**
Subordinate Station: **CAMINADA PASS (Bridge)**
Subordinate Station:

Diurnal

Ratio of Ranges	Mean Range	Spring Range
-	-	1.3
0.7	0.9	-

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **63**Shoreline (More than 200 meters to opposite shore) (III): **48**~~Shoreline (Less than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): **6**Recovered: **3**Identified: **3**Number of BMs searched for (II): **7**Recovered: **2**Identified: **12***Number of Recoverable Photo Stations established (III): **0**Number of Temporary Photo Hydro Stations established (III): **0**

Remarks: ***14 bench marks established**
1 triangulation station established

SUMMARY
TO ACCOMPANY TOPOGRAPHIC MAP T-9876

This is one of 19 topographic maps of PH-90 (6090), which includes 18 planimetric maps also. It covers a portion of land area situated between Timbalier Bay and Caminada Bay and directly south of a small village by the name of Leeville off the Louisiana Coast of the Gulf of Mexico.

The land area is nearly all marsh. There are a few smaller areas of woodland along the east edge of the quadrangle near State Road No. 1, which, running through Leeville and southward turns east towards Caminada Pass and Grand Isle. Many new canals have been constructed in recent years in the exploration and development of oil.

T-9876 was originally compiled graphically at the Tampa District Office in 1955 from 1952 nine-lens photographs and 1953 field inspection. The manuscript was revised in 1957 from 1956 single-lens photography and 1957 field edit, then scribed to obtain good reproduction medium for final file copy.

Hydrographic information will be added to the manuscript according to U. S. Geological Survey specifications and released to that agency for the publication of a standard 7½ minute quadrangle at the scale of 1:24,000 and to replace a previous publication of 1935 at a scale of 1:31680, LEEVILLE, LA.

The following will be registered and filed in the Bureau Archives:

- A "Cronar" film positive at manuscript scale of 1:20,000
- The Descriptive Report
- A print in colors after final printing by G. S.

2. AREAL FIELD INSPECTION

The entire area is marsh and is uninhabited except for the small village of Leeville.

Leeville is located near the northwest corner of the quadrangle and serves as a home base for the many oil companies working in the area.

State Highway ¹620 crosses the area and is the sole route of transportation for vehicular traffic. Large shrimping fleets base in and around Leeville. Bayou Lafourche affords an entrance to the Gulf of Mexico through Belle Pass to the south.

The entire land area is marsh except for approximately one mile in the extreme southeast corner, which is sand beach along the Gulf of Mexico.

The exploration and development of oil and natural gas fields, the shrimping industry and the trapping of muskrat comprise the main means of gaining a livelihood.

One large oil and gas field is in production in the immediate vicinity of Leeville.

Field inspection is believed complete and was performed on the following 1:20,000 scale nine-lens photographs 39510 thru 39512 and 39518 thru 39520.

The oil companies are continuously digging canals to drilling sites and several since photography were located by the field inspection party. The field editor should check these areas for additional dredging.

The photography was of recent date and of good quality. No difficulty was encountered in the interpretation of photographs.

3. HORIZONTAL CONTROL

All control was searched for and where recovered was identified to aid in control of the radial plot.

The following stations were reported lost: GREY 1934; OAK 1928; and LAKE 1928.

No supplemental control was established by the field inspection party.

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4. VERTICAL CONTROL

Six tidal bench marks of this bureau were searched for and two were recovered. These were LEEVILLE, JUNCTION OF SW LOUISIANA CANAL, and BAYOU LAFOURCHE TIDAL BENCH MARKS RM 1 and RM 2.

In addition to the above, a third-order level line was run along the highway from Grand Isle to Larose. Bench marks were established at approximate one-mile intervals and the following marks were established in this quadrangle: LEEVILLE 1934; LEEVILLE 1934 RM NO 1; LEEVILLE 1934 RM NO 2; P 154; Q 154; R 154; S 154; T 154; U 154; V 154; W 154; X 154; Y 154; and Z 154.

No fly levels were run by the field party.

5. CONTOURS AND DRAINAGE

Contouring was done directly on the field photographs. Elevations for contours along the highway were determined by planetable traverse between the bench marks previously mentioned. All closures were good.

For the determination of elevations in the marsh and along spoil banks of canals, see Item 5 of Field Inspection Report for Quadrangle T-9677(). Tide staffs at Leeville, Bayou Ferblanc, and Pass Fourchon were used.

6. WOODLAND COVER

A few very small clumps of trees in the southeast corner of the quadrangle are indicated on the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along the Gulf of Mexico was located by chaining from identifiable points on the photographs. The remainder of the area is all apparent shoreline along the banks of the bayous and canals and the edge of the marsh along the lakes.

The low water line at apparent shoreline is synonymous with the mean high water line. The low water line at the Gulf of Mexico was not located.

All docks, wharves and piers are adequately covered by notes on the field inspection photographs.

All submarine cables are adequately covered by notes on the field inspection photographs.

All other shoreline structures are adequately covered by notes on the field inspection photographs.

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8. OFFSHORE FEATURES

Inapplicable.

9. LANDMARKS AND AIDS

Timbalier Bay Light 96 was located by theodolite cuts from identifiable points on the photographs. It was also identified directly on photograph 39518.

10. BOUNDARIES, MONUMENTS AND LINES

See "Special Report, Public Land Lines, Project Ph-90".

There are no political boundaries.

11. OTHER CONTROL

Two photo points were established to control the location of aids to navigation.

12. OTHER INTERIOR FEATURES

All roads have been classified in accordance with Paragraph 5441 of the Topographic Manual, Part II.

All buildings have been classified in accordance with Paragraph 5446 of the Topographic Manual, Part II.

The clearance of the bridge at Leeville, the only bridge over navigable waters in the quadrangle, was determined as follows:

<u>Location</u>	<u>Use</u>	<u>Type</u>	<u>Spans</u>	<u>Horiz. Clearance</u>			<u>Vert. Clearance</u>		<u>MHW</u>
				<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>(Closed)</u>	<u>above</u>	
Lafourche, Bayou, La.	Hwy	Sw	1	54 ft	-	54 ft		11.7 ft.	
Leeville, La.				(no channel)					

There are no cables over navigable waters within the quadrangle.

There are no airports or landing fields within the quadrangle.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-90".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. 90-1, Third-Order Level Line data, forwarded to Washington Office 22 December 1952.

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Letter of Transmittal No. 90-5, Forms 567, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. 90-6, Forms 567, to be forwarded to photogrammetric office at a later date.

Letter of Transmittal No. 90-7, "Special Report, Public Land Lines, Project Ph-90", to be forwarded to Washington Office at a later date.

Letter of Transmittal, Public Lands Lines data, forwarded to Washington Office 28 January 1953.

Letter of Transmittal No. 90-8, "Special Report, Geographic Names, Project Ph-90", to be forwarded to Washington Office at a later date.

Letter of Transmittal No. 90-12, Data, Quadrangle T-9876(), forwarded to Washington Office 4/29/53.

Submitted
27 April 1953

William M. Reynolds
William M. Reynolds
Cartographic Survey Aid

Approved & Forwarded
4/29/53

E. H. Kirsch
E. H. Kirsch
Chief of Party

SCALE FACTOR

[illegible]

DATE 10/20/53

排 9a

COMPILATION REPORT T-9876

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9865

31. DELINEATION

The graphic method was used. Scale of photographs was fair to good. Definition of details was poor in places on the photographs.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Spot elevations only have been shown on the canal spoil banks in the Leeville oil field area. Marsh elevations are one to two feet. Heights exceeding this are found along the highway where contours have been shown.

The tidal drainage throughout was readily delineated.

35. SHORELINE AND ALONGSHORE DETAILS

Refer to Item 7.

Shoreline inspection was adequate.

36. OFFSHORE DETAILS

Oil well structures have been delineated in accordance with field inspection notes.

37. LANDMARKS AND AIDS

There are no landmarks or aids.

TIMBALIER BAY LIGHT 96, referred to in Item 9, actually falls in Map T-9875 and has been reported with that survey.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with map T-9866 to the north; T-9884 to the south; T-9877 to the east; and T-9875 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. PUBLIC LAND LINES

Reference Special Report Public Land Lines, page 8.

T-21S, R-23E was applied to the manuscript from Bureau Land Management plat dated 28 November 1952 by holding detail common to both, since no other control was available. T-21S, R-22E was applied to the manuscript from G. L. O. plat dated 18 May 1842. It is believed a .5-mile discrepancy appears in the north-south direction. The section lines were fitted to BAYOU LAPOURCHE since no other control was available. Some of the sections are small due to the .5-mile discrepancy. These section lines are shown as unreliable.

In T-22S, R-22E; T-23S, R-23S & 24E; T-23S, R-22E and R-22S, R-23E, large discrepancies were noted between the G.L.O. plats and the ground as it actually exists.

41. PUBLIC LAND LINES (CONTINUED)

Some of the more apparent discrepancies are as follows:

(a) From the intersection of BAYOU LAFOURCHE and BAYOU MOREAU to the junction of BELL PASS with BAYOU LAFOURCHE, the actual ground distance is approximately 7.4 miles while on the G. L. O. plats the distance shown is approximately 9 miles.

(b) From the intersection of BAYOU MOREAU and a stream leading south in Section 5 of T-23S, R-23E to BAY CHAMPAGNE (LITTLE BAY CHAMPAGNE on G. L. O. Plat) the actual ground distance is about 0.5 mile, while the distance shown on the plat between these features is about 2.5 miles. The land is partially unsurveyed as shown on this plat. However, the distance was determined by matching the plat to plat (T-23S, R-22E) to the west.

Similar discrepancies were noted throughout the sheet when an attempt was made to adjust the G. L. O. plats to the ground as it actually exists. Inasmuch as it is impossible to reconcile these differences in this office, no attempt was made to show land lines in the disputed areas.

The Geological Survey has published these disputed lines on Quadrangles LEEVILLE and BELL PASS.

It is requested that these discrepancies be disposed of by the Washington Office and/or the field editor.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with Coast and Geodetic Survey Planimetric Map No. T-5032, dated 1935, scale 1:20,000, and U. S. Geological Survey Quadrangle LEEVILLE, scale 1:31,680, published in 1935. Numerous minor differences occur and the Gulf of Mexico beach has eroded approximately 250 meters.

47. COMPARISON WITH NAUTICAL CHARTS

Nautical Chart No. 1273, 2nd edition of May 1938, scale 1:80,000, corrected to 28 July 1956, and No. 1274, scale 1:80,000, corrected to 13 August 1956, were used for comparison. Planimetric Map No. T-5032 appears to be the source of topography and the same differences occur.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Respectfully submitted

William H. Shearouse

WILLIAM H. SHEAROUSE
Carto Photo Aid

APPROVED AND FORWARDED

H. C. Applequist
H. C. Applequist, Chief of Party

T-9876.

Geographic Names.

Bay Tartallon
Bayou Cochon
Bayou Lafourche
Bayou Moreau
Bayou Ferblanc
Bayou Palourde

Devils Bay

Greys Canal
Gulf of Mexico
Hackberry Bay
Havoline Canal

Lafourche Parish
Lake Laurier
Lake Palourde
Leeville
Louisiana

South Lake
Southwestern Louisiana Canal

Timbalier Bay

William Canal

According to the new Lafourche Parish Highway Map, old No. 620 should be new No. 1. It crosses Bayou Lafourche at Leeville, and north of that place is on the west bank.

Names approved 12-5-56.
 L Heck. L.H.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 98 76

1. Projection and grids JG 2. Title JG 3. Manuscript numbers JG 4. Manuscript size JG

5a. Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks JG
9. Plotting of sextant fixes XX 10. Photogrammetric plot report JG 11. Detail points JG

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline JG 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges JG 16. Aids to navigation None 17. Landmarks XX 18. Other alongshore physical features JG 19. Other along-shore cultural features JG

PHYSICAL FEATURES

20. Water features JG 21. Natural ground cover JG 22. Planetable contours JG 23. Stereoscopic Instrument contours XX 24. Contours in general JG 25. Spot elevations JG 26. Other physical features JG

CULTURAL FEATURES

27. Roads JG 28. Buildings JG 29. Railroads XX 30. Other cultural features JG

BOUNDARIES

31. Boundary lines XX 32. Public land lines JG

MISCELLANEOUS

33. Geographic names JG 34. Junctions JG 35. Legibility of the manuscript JG 36. Discrepancy overlay JG 37. Descriptive Report JG 38. Field Inspection photographs JG 39. Forms JG

40. Jesse A. Giles
Reviewer
Jesse A. Giles

William A. Rasure
Supervisor, Review Section or Unit
William A. Rasure

41. Remarks (see attached sheet)

*TIMBALIER BAY LIGHT 96 referred to in Item 9 falls on T-9875

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

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FIELD EDIT REPORT
MAP T-9876

51. METHODS

Field edit was done in accordance with standard accepted practice and instructions as modified by:

(a) Bureau letter 711-lmh to Tampa District Office, subject: Field Edit-Project 24200(Ph-90), Topographic and planimetric maps-Louisiana Coast, dated 2 January 1957.

(b) Bureau letter 711-lmh to Tampa District Office, subject: Location of Oil Wells-Project 24200 (Ph-90), dated 20 January 1957.

(c) Bureau letter 73-dmm to Chief, Photogrammetric Party No. 1, subject: Field Edit-Project 24200 (Ph-90), Louisiana, dated 20 February 1957.

Field edit was accomplished by riding along the only road in the area and comparing actual natural and cultural features with a print of the manuscript at the same time.

Buildings appearing on 1956 photographs to be added to the manuscript were circled in red ink. Class 1 buildings were indicated only by the red ink circle while class 2 buildings were indicated by placing the numeral "2" alongside the circle.

Field edit corrections were made on the discrepancy print, one field edit sheet and single lens photographs 56-W-4286, -4287, -4349, -4350 and -4502. There is a legend on the field edit sheet explaining the use of the different colored inks.

52. ADEQUACY OF COMPILATION

It is believed that the compilation will be adequate upon application of field edit corrections and revisions to be made from 1956 photography.

53. MAP ACCURACY

No accuracy tests were made. Map accuracy appears to be good, however.

54. RECOMMENDATIONS

There are several tank batteries located in the quadrangle which consist of 4 or more circular oil tanks. All of these tanks scale less than 0.5 mm at photograph scale. These tanks have been compiled as 1.0 mm solid circles. In one location four existing tanks were compiled as three tanks and in a second location five tanks were compiled as three tanks. In each location these tanks

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are astride the shoreline of a canal which is not the actual relation between the tanks and canal. It is recommended that these tanks be compiled as .6 mm solid circles in accordance with Topographic Manual, Part II, Section 5446 Ga(1) as it is believed that this method will result in a more pleasing appearance of the map. If reproduction tolerances require use of the larger symbol it is recommended that displacement be inshore, retaining the correct relation between the shoreline and tanks.

55. EXAMINATION OF PROOF COPY

Mr. L. P. Broussard, P. O. Box 38, Cut Off, Louisiana has consented to examine a proof copy of this map. Mr. Broussard is a civil engineer employed by the Gulf Oil Corporation and is familiar with the area.

Submitted 15 March 1957

Isaiah Y. Fitzgerald
Isaiah Y. Fitzgerald
Photo. Engr.

Approved:

Ira R. Rubottom

Ira R. Rubottom
Chief of Party

REVIEW REPORT OF
TOPOGRAPHIC MAP T-9876
January 1958

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-1765	1:20,000	1887
T-1766	1:20,000	1887
T-5302	1:20,000	1934

Differences exist between these surveys. The marshy land area is subject to continuous change. In addition, many canals and ditches have been added within the limits of T-9876 since 1952 photography and 1953 field inspection. The subject topographic map is to supersede above-listed surveys for nautical charting purposes of common areas.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

LEEVILLE, LA., 1:31680, 1935, U. S. Geological Survey. This quadrangle is not in good agreement with T-9876. Differences noted under No. 62 apply here also.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys of this area.

65. COMPARISON WITH NAUTICAL CHARTS

1273	1:80,000	Revised to 57	9/23
1274	1:80,000	Revised to 57	9/16
1050	1:175,000	Revised to 57	2/25

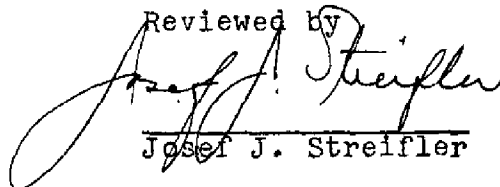
The land areas of these charts are based on prior topographic surveys. In addition to minor shoreline changes there are many prominent and extensive canals that have been constructed in recent years (since 1952) within the limits of subject topographic survey. These changes do not appear on above-listed charts and it is recommended, that they be corrected at an early date.

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66. ADEQUACY OF RESULTS AND FUTURE SURVEYS


Field edit of March 1957 was confined to riding along the only road, which meanders through the center of the quadrangle, for comparison of cultural and natural features. Other difficult accessible areas of natural features only could be office-interpreted adequately from photographs. The subject survey is within the requirements of adequacy and accuracy.

Reviewed by




Josef J. Streifler

Approved



 Chief, Review & Drafting Section
 Photogrammetry Division



 Chief, Nautical Charts
 Branch, Charts Division



 Chief, Photogrammetry Division

Act



 Chief, Coastal Surveys

M78