

9667

ORIGINAL

Diag. Cht. No. 1270. + 1268-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-89 Office No. T-9667

LOCALITY

State LOUISIANA

General locality BRETON SOUND

Locality LAKE ELOI

19 57

CHIEF OF PARTY

P.L. Bernstein, Chief of Field Party
Ira R. Rubottom, Tampa Photo Office

LIBRARY & ARCHIVES

JUN 24 1958

DATE

COMM-DC 61300

2996

DESCRIPTIVE REPORT - DATA RECORD

T-9667

Project No. (II): Ph-89

Quadrangle Name (IV): LAKE Σ101

Field Office (II): New Orleans La.

Chief of Party: P.L. Bernstein

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: Ira R. Rubottom

Instructions dated (II) (III): 11 April 1952

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

~~Stereoscopic Plotting Instrument Scale (III):~~

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

4 Mar 1958

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): EDDIE, 1934

Lat.: 29° 49' 28" .589 (880.3M)

Long.: 89° 25' 54" .589 (1465.7M)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

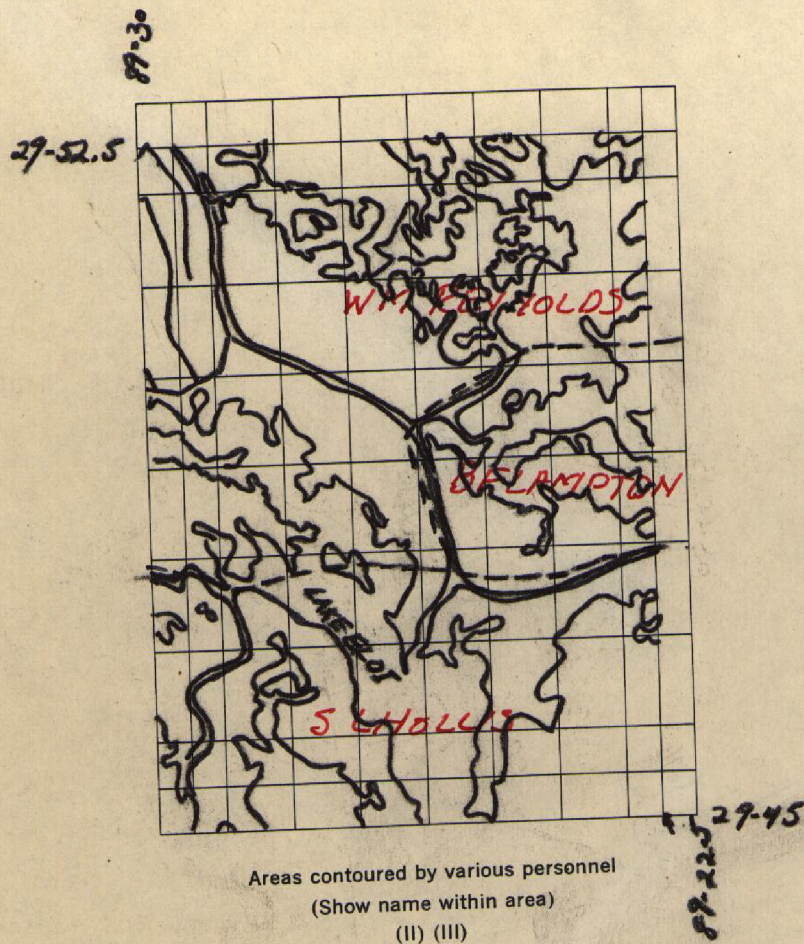
Zone:

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.



DATA RECORD

Field Inspection by (II): S.L.Hollis, Jr.
W.M.Reynolds
B.F.Lampton, Jr.

Date: June-Sept. 1952

Planetable contouring by (II): ~~Same as above~~

Date: ~~June-Sept. 1952~~

Completion Surveys by (II):

*No CONTROLS ON MAP
AKH
SEE REVIEW REPORT FROM CG*

Date:

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

28 September 1952
Air Photo Compilation

Projection and Grids ruled by (IV): Joan Thuma (W.O.)

Date: 29 June 1953

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

Date: 1 July 1953

Control plotted by (III): I.I.Saperstein

Date: 14 August 1953

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

Date: 14 August 1953

Radial Plot of ~~Stereoscopic~~

Date: 28 October 1954

Control extension by (III): M.M.Slavney

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Inapplicable

Date:

Date:

Manuscript delineated by (III): R.A.Reece

Date: 8 June 1955

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

Date: 10 June 1955

Elevations on Manuscript
checked by (III):

J.A.Giles

Date: 10 June 1955

Camera (kind or source) (III): U.S.C&G.S.Nine-lens

Number	Date	Time	Scale	Stage of Tide
39345	28 September 1952	9:34	1:20,000	1.9
39346	"	9:35	"	"
39351	"	9:43	"	"
39352	"	9:44	"	"
39353	"	9:45	"	"

Tide (III)
(Predicted Tides)

Reference Station: Pensacola Florida

Subordinate Station: Bay St. Louis

Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 61

Shoreline (More than 200 meters to opposite shore) (III): 67

~~Shoreline (Less than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 5 (1)*

Number of BMs searched for (II): None

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

() * Third-Order stations established

DIURNAL

Ratio of Ranges	Mean Range	Spring Range
-	-	1.3
1.2	-	1.6

Date:

OCT 1957

Date:

Date:

Date:

Identified: 4(1)*

Identified:

SUMMARY TO ACCOMPANY TOPOGRAPHIC MAP

This topographic map is one of 17 similar maps of Project PH-89. It covers a portion of Louisiana from Mississippi Sound south to Breton Sound.

Project PH-89 is a graphic compilation project. Field work in advance of compilation included the establishment of some additional control, complete field inspection, the delineation of 5 foot contours directly on the nine-lens photographs by planstable methods, and the investigation of geographic names and political boundaries.

Since almost all the terrain was marsh, only 3 of the maps on PH-89 were field edited. They are T-9660, T-9665, T-9667. All were compiled at the scale of 1:20,000, using nine-lens photographs taken in 1952. Newer 63 camera photographs taken in 1955 were used to revise delineation where necessary. There were few such cases.

With the addition of hydrographic data these maps will be forwarded to the Geological Survey for publication as standard 7½ minute quadrangles.

Items registered under each map number will include a Cronar film positive and a descriptive report.

2. AREAL FIELD INSPECTION

The land area is entirely marsh with numerous ponds and bayous. Bayou la Loutre crosses the quadrangle. There is some spoil along the dredged canals in the northwest part of the quadrangle and along Bayou la Loutre from its junction with Bakers Canal to the north.

Bayou Eloï is an important waterway between Bayou la Loutre and Chandeleur Sound. Bayou Petre, Treasure Pass, and Christmas Camp Lake are also much used.

The field inspection is believed to be complete.

The nine-lens photographs are clear and should offer little difficulty in interpretation. The single lens ratio prints are very poor and indistinct; however, because of the comparative simplicity of the area, little difficulty should be encountered.

Field work has been done on the following nine-lens photographs: 35350-51; and the following single-lens ratio prints: MDA-2-26(1 of 2), MDA-2-28, MDA-6-37, MDA-26-62, MDA-26-63, and MDA 26-64(2 of 2).

3. HORIZONTAL CONTROL

The following third-order triangulation station was established during field work: LAKE ELOI LIGHT 3 1952. Station BRIG 1934 has been reported as lost on Form 526.

4. VERTICAL CONTROL

There are no bench mark in the quadrangle.

See "Special Report, Vertical Control and Contouring, Project Ph-89".

The Bakers Canal tide staff is located within the quadrangle and has been identified on the photographs.

5. CONTOURS AND DRAINAGE

See "Special Report, Vertical Control and Contouring, Project Ph-89".

The Bakers Canal and Bayou la Loutre tide staffs were used to control elevations in this quadrangle.

Drainage is all tidal and shows clearly on the photographs.

6. WOODLAND COVER

The only vegetation in the quadrangle is marsh grass.

7. SHORELINE AND ALONGSHORE FEATURES

All shoreline is apparent except where there is spoil along the shore. The mean low water line is contiguous with the mean high water line. There are no piers or other shoreline structures.

8. OFFSHORE FEATURES

None except as reported on Form 567.

9. LANDMARKS AND AIDS

Adequately covered by Form 567.

10. BOUNDARIES, MONUMENTS, AND LINES

There are no political boundaries. For a discussion of section corners, see Field Inspection Report for Quadrangle T-9665().

11. OTHER CONTROL

None.

12. OTHER INTERIOR FEATURES

There is one house in the quadrangle.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-89".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Vertical Control and Contouring, Project Ph-89", to be forwarded at a later date.

"Special Report, Geographic Names, Project Ph-89", to be forwarded at a later date.

Letter of Transmittal No. 89-7, Horizontal Control Data, forwarded to Tampa Photogrammetric Office 27 August 1952.

Letter of Transmittal No. 89-10, Horizontal Control Data, forwarded to Washington Office 27 August 1952.

Letter of Transmittal No. 89-11, Forms 567, forwarded to Washington Office 8 September 1952.

Letter of Transmittal No. 89-12, Forms 567, forwarded to Tampa Photogrammetric Office 8 September 1952.

Letter of Transmittal No. 89-17, Data, Quadrangles T-9665(), T-9666(), T-9667(), T-9668(), and T-9669(), forwarded to Washington Office 17 September 1952.

Submitted
8 September 1952

B. Frank Lampton, Jr.

B. Frank Lampton, Jr.
Cartographic Survey Aid

Approved & Forwarded
17 September 1952

Percy L. Bernstein

Percy L. Bernstein
Chief of Party

COMPILATION REPORT T-9667PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9655.

31. DELINEATION

The manuscript was compiled by the graphic method. No unusual problems were encountered.

Photographs were of fair scale and quality. Field inspection was adequate.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

The maximum ground elevation is seven (7) feet and is on one of the spoil banks.

No difficulty was encountered in delineation of the drainage.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated according to the field inspector's notes. No difficulty was encountered.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks.

One(1) fixed aid to navigation has been shown and Form 567 is being submitted herewith.

38. CONTROL FOR FUTURE SURVEYS

There are no recoverable topographic stations or photo-hydro stations.

39. JUNCTIONS

Junction has been made to the north with T-9662; to the west with T-9666; to the east with T-9668; and to the south with T-9670.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. PUBLIC LAND LINES

No land lines were shown. The field inspector failed to recover any control for the location of public land lines.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.C&G.S. Planimetric Map T-5408, scale 1:20,000, compiled from photographs taken in November 1932; and U.S.C&G.S. LAKE ELOI QUADRANGLE, scale 1:31,680, 1935 edition. Only minor changes in shoreline are noted, due to normal erosion of shoreline by wave action.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with U.S.C&G.S. Chart 1270, scale 1:80,000, published June 1947 (2nd edition) and bearing a print date 18 October 1954. No differences worthy of note exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None

Richard A. Reece
Richard A. Reece
Carto Photo Aid

Approved and Forwarded;

H.C. Applequist
/ Ira R. Rubottom, Chief of Party.

T-9667.

Geographic Names.

Lake Athanasio

Bakers Canal

Blind Lagoon

Blind Pass

China Pass

x Christmas Camp Bay - Christmas camp lake (underlined by Heck on Geog. Names print)

Deep Pass

Drum Hole

Drum Lake

Eloi Bay

Bayou Eloi

Lake Eloi

Engineers Canal

FLAT BAY —→ From FIELD 2017 AKH

Halfmoon Lake

Isaacs Ditch

Joe Shuman Pass

Lake of the Mound

Long Lagoon

Louisiana

Bayou la Loutre

Mosquito Bight

Bayou Petre

Bayou Pointe-en-Pointe

Bayou Ramon

St. Bernard Parish

Three Bayous

Treasure Bay

Treasure Pass

Deadman Island (underlined by Heck on Geog. Name print)

Names approved 9-19-56.

L. Heck L.A.

48. GEOGRAPHIC NAME LIST

BAKERS CANAL
BAYOU ELOI
BAYOU LA LOUTRE
BAYOU PETRE
BAYOU POINTE-EN-POINTE
BAYOU RAMON
BLIND LAGOON
BLIND PASS

CHINA PASS
CHRISTMAS CAMP LAKE

DEADMAN ISLAND
DEEP PASS
DRUM HOLE
DRUM LAKE

ELOI BAY --
ENGINEERS CANAL

HALFMOON LAKE

ISAACS DITCH

JOE SHUMAN PASS

LAKE ATHANASIO
LAKE ELOI
LAKE OF THE MOUND
LONG LAGOON
LOUISIANA

MOSQUITO BIGHT

ST BERNARD PARISH

THREE BAYOUS
TREASURE BAY
TREASURE PASS

50

PHOTOGRAMMETRIC OFFICE REVIEW

T-9667

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

~~Classification~~ unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line X 14. Rocks, shoals, etc. X 15. Bridges X 16. Aids to navigation J.G. 17. Landmarks X 18. Other alongshore physical features X 19. Other along-shore cultural features X

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours X 23. Stereoscopic instrument contours X 24. Contours in general X 25. Spot elevations J.G. 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads X 28. Buildings J.G. 29. Railroads X 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines X 32. Public land lines J.G.

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay X 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles William A. Pasare
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

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:

M-2623-12

49. NOTES FOR THE HYDROGRAPHER

None.

TIDE COMPUTATION

PROJECT NO. Ph. 09 T-9667

Time and date of exposure 28 Sept 52

Reference station PENSACOLA, FLA

Mean range

Date of field inspection

Subordinate station BAY ST LOUIS

Ratio of ranges 1.2

	Time	
	h.	m.
High tide	5	21
Low tide	17	13
Duration of rise or fall	11	52

	Height		Height x Ratio of ranges
	feet		
High tide	1.8		2.2
Low tide	0.1		0.1
Range of tide			2.1

	Time	
	h.	m.
High tide at Ref. Sta.	5	21
Time difference	+	10
Corrected time at Subordinate station	6	31

	Time	
	h.	m.
Low tide at Ref. Sta.	17	13
Time difference	+	10
Corrected time at Subordinate station	18	23

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	6	31	Ht. H. T. or L. T.	2.2	Feature bares		39352
Required time Interval	9	44	Tabular correction	0.3	Stage of tide above MLW		
	3	13	Stage of tide above MLW	1.9	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time Interval			Tabular correction		Stage of tide above MLW		
			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time Interval			Tabular correction		Stage of tide above MLW		
			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time Interval			Tabular correction		Stage of tide above MLW		
			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time Interval			Tabular correction		Stage of tide above MLW		
			Stage of tide above MLW		Feature above MLW		

Computed by

Checked by

R. A. V. R. D. Smith

Review Report T-9667
Topographic Map
15 October 1957

61. General Statement

See Summary

62. Comparison with Registered Topographic Surveys

1099	1:20,000	1870
5408	1:20,000	1934

Manuscript T-9677 supercedes all the above surveys in common areas as source material for chart construction.

63. Comparison with Maps of Other Agencies

USGS	Lake Elo	1:31,680	1935
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64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Chart 1270	1:80,000	2nd Ed. 1947	12/17/56
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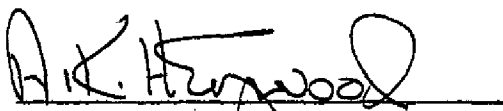
66. Adequacy of Results and Future Surveys

This manuscript complies with all instructions and meets The National Standards of Map Accuracy.

No Field Edit Report was submitted. The edit was confined to the possibility of construction of a land line net using 55 W camera photography. Photograph 55 W 1798 in particular shows extensive vehicle tracks in a general geometric pattern. It was thought these might be oil company explorations of the land line net. Subsequent communications with the oil companies proved this untrue. No land lines were delineated.

Two buildings and one canal were added during a comparison with the USC&GS 55 W camera photography.

Reviewed by


A. K. Heywood

Approved

L. C. Lande

Chief, Review Branch
Photogrammetry Division

Max L. L. L. L.

Chief, Nautical Chart Branch
Charts Division

Act J. Bruce

Chief, Photogrammetry Div.

MS

J. D. L. L.

Chief, Coastal Surveys Div.