

10515

Diag. Cht. No. 1116-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-170 Office No. T-10515

LOCALITY

State Louisiana

General locality Atchafalaya Basin Floodway

Locality Flat Lake to Lake Verret

1956-1957

CHIEF OF PARTY

I. R. Rubottom Chief of Party
Fred Natella Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 1963

CGMM-DC 61300

10515

DESCRIPTIVE REPORT - DATA RECORD

T - 10515

PH 170

Project No. (II): ~~25170~~ Quadrangle Name (IV):

Field Office (II): Morgan City, Louisiana Chief of Party: Ira R. Rubottom

Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: Fred Natellä

Instructions dated (II) (III): 4 December 1956 (II) Copy filed in Division of
Supplement 2, 14 March 1957 Photogrammetry (IV)
Supplement 1 dated 15 Jan. 1957
21 June 1957(III)
Amendment dated 2 April 1959
Letter 73/rrj dated 8 January 1959
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): FEB 14 1961 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): X

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): LONG, 1935

Lat.: 29° 50' 08.901" Long.: 91° 08' 51.842" Adjusted X
Unadjusted

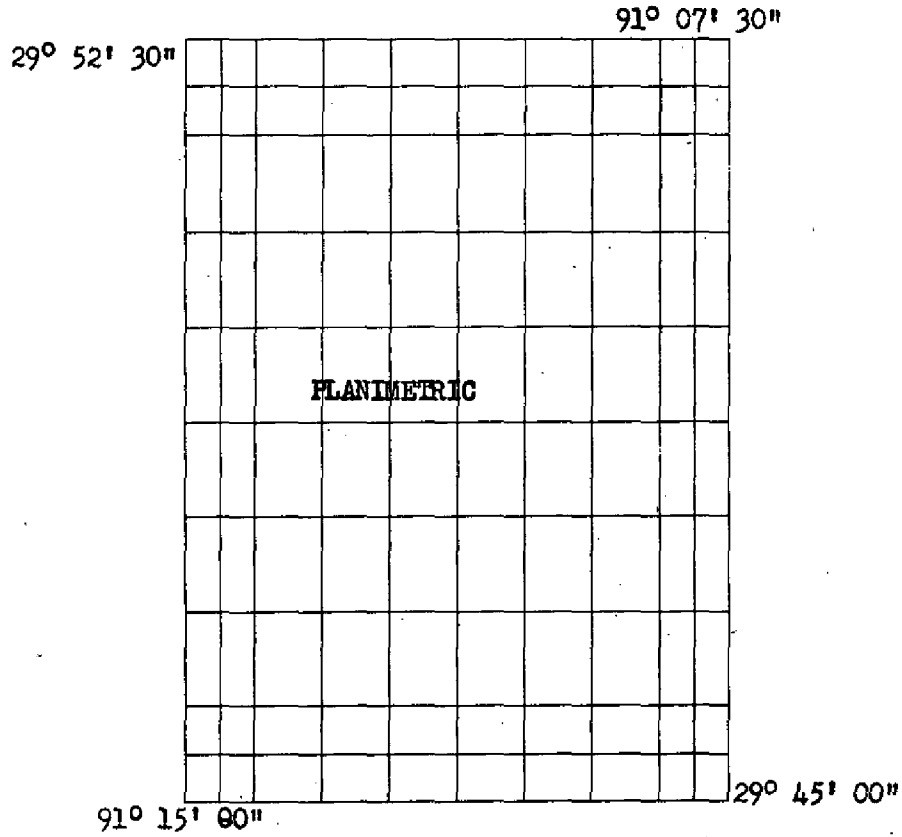
Plane Coordinates (IV): State: Zone:

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



Areas contoured by various personnel
(Show name within area)
(I) (II)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **J. E. Johnson**

Date: **January-February
1957**

Planetable contouring by (II): ---

Date:

Completion Surveys by (II): ---

Date:

Mean High Water Location (III) (State date and method of location): **1-14-57 thru 2-18-57. Indicated by field inspection on field photographs. Defined and transferred to office photographs by stereoscopic inspection and graphically detailed on the manuscript.**

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III):

J. L. Harris

Date: **10-31-57**

Control checked by (III):

D.N. Williams

Date: **11-5-57**

Radial Plot or Stereoscopic
Control extension by (III):

J. L. Harris

Date: **1-17-58**

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III):

**L. Mei - Compilation
L. O. Foster - Scribing
C. C. Harris - Stick-up**

Date: **3-11-58
3-18-58
7-25-58**

Photogrammetric Office Review by (III):

**C. C. Harris - Rough Draft
J. L. Harris - Advance**

Date: **7-2-58
9-8-60**

Elevations on Manuscript
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

5.

Camera (kind or source) (III): USC&GS 9-lens focal length 8/25 inches

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
54696 thru 54699	10-15-56	9:18	1:20,000	Tide is mainly diurnal. Probably about 0.9 ft. above M.L.W. on this day.
54752 thru 54754	10-15-56	10:10	1:20,000	

Tide (III)

Reference Station: Galveston, Texas
Subordinate Station: Eugene I, Atchafalaya Bay
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	1.1	1.9

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): 57
Shoreline (More than 200 meters to opposite shore) (III): 13
Shoreline (Less than 200 meters to opposite shore) (III): 30
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 7 Recovered: 6 Identified: 5
Number of BMs searched for (II): --- Recovered: --- Identified: ---
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

FIELD INSPECTION REPORT
MAP T-10515

2. AREAL FIELD INSPECTION

The east guide levee of the Atchafalaya Basin Floodway crosses the map in a north-south direction, dividing the area into two approximately equal sections. The west half of the area is a part of the floodway, the general conditions being the same as described in Field Inspection Report for Map T-10522 (≡) except as noted in the following paragraph.

Silting in the floodway section of the map is not nearly so extensive and rapid as in the area to the west and north because flood waters reach the area chiefly through seepage from upstream and have already deposited the greater part of the load of silt. This section is predominantly swamp; the existing fast ground is limited to the natural levees along the streams. There is little actual difference between the two sections except that the west one is covered by water during the flood season.

The main waterways are Bayous Long, Milhomme, and Magazille, portions of Belle River, the Morgan City-Plaquemine Intracoastal Waterway, Grassy and Flat Lakes and Lakes Palourde and Verret.

Louisiana Highway 70 runs northerly along the top of the guide levee from Morgan City to Donaldsonville. A spur road leads from the levee to the unincorporated village of Stephenville at the junction of Bayous Long and Milhomme.

The main population of the area is located in Stephenville and scattered along the foot of the levee. There are a few families living in houseboats along bayous.

The economy of the area is based on petroleum, shipping, fishing, trapping, and lumber industries, ranking in importance in the order named. The petroleum industry is the main source of income as the majority of the people are associated either directly with it or provide services required by it, such as river boat personnel to move the numerous tank and supply barges; boat yard workers to maintain the large fleet of boats required to service the oil industry in the surrounding area, etc. Trapping is largely seasonal, lasting some four months. Except in the case of shrimping, fishing is largely part time.

Field inspection has been annotated on the following nine-lens photographs: 54752 thru 54754 and 54759 thru 54799.

697 6

Nine lens 1:20,000 scale photographs were of sufficient quality for field inspection and no special difficulty in interpretation due to quality was encountered. Since photography was of recent date, the few new features found consist mainly of new canals to petroleum drilling sites. These features have been added to the photography by plane-table methods.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey horizontal control was searched for.

No supplemental control was established.

PBM 52 USE 1917 was recovered and identified. PBM 50 USE 1917 was recovered during the course of recovery of Bureau control. These were the only stations of another agency searched for.

The following Coast and Geodetic Survey triangulation stations were reported lost or destroyed: PBM 53 (USED) 1935; LONG 1935; SHELL POINT 1935 (north of T-10515).

Although LONG 1935 was reported lost, the base of the monument is believed to be recovered and was identified; identification is doubtful due to doubtful recovery. In the case of SHELL POINT 1935, it is not known whether the station or R. M. No. 1 was recovered. Identification is doubtful due to doubtful recovery.

4. VERTICAL CONTROL

There are no tidal bench marks in this quadrangle.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

All streams are perennial. While the main drainage pattern is self evident on the photographs, there is a maze of small sloughs and bayous winding through the swamps that are not readily discernible because of tree overhang or growth in the stream bottom. Since these features are common to this type terrain, their great numbers and intricate patterns are of no consequence to the map and would offer no aid to the navigator. However, due to the silting up of the mouths and heads of many of the wider bayous, the course of many double line streams, as they leave or enter main drainage, is obscured by a heavy canopy of cypress and gum trees growing in the shallow water. The drainage pattern in this situation is usually recognizable by a lighter gray tone (cypress and gum) in a stream-like pattern. This condition has been indicated on the photograph in several representative areas, the remainder of which can be compiled by analogy.

Due to the unusual situation encountered in this area relative to fast ground and swamp, some discussion is offered to further clarify the field notes on the photographs. As mentioned in paragraph 2, an alluvial levee of various widths has formed along the banks of some of the bayous, extant and extinct. While the entire area is in effect a large swamp,

actually covered with water for 4 to 5 months a year, the remainder of the year a low bluff is evident along the alluvial levees and should be mapped as the high-water line. While there was no problem alongshore, the inshore limits of the levees were a different situation. The problem was solved after determining that the tree tone could be used as the dividing line between fast ground and swamp. Due to the difference in elevation of the alluvial deposit and the adjacent terrain, and subsequent drainage, there are two different vegetation types in the two areas: hardwood and palmetto with a few scattered cypress and gum trees on the fast ground (darker evergreens) and cypress and gum (gray fleecy tone) in the swamp areas.

A mixture of several species of trees grows in the marginal areas adjoining the pure cypress swamp. These marginal areas were all classified as swamp.

6. WOODLAND COVER

Woodland Cover was classified in accordance with reference 5433Aa, Topographic Manual, Part II, and the project instructions; and has been adequately indicated by field inspection notes on the photographs.

Attention is called to the swamp area on the east side of the West Lake Verret oil field: The large individual tree canopies that resemble hardwoods are large cypress trees, heavily laden with spanish moss, growing in areas of marsh grass and low brush. This feature is prevalent in many locales throughout the project.

7. SHORELINE AND ALONGSHORE FEATURES

Both the mean high-water line and the apparent shoreline are generally obscured by trees, although the low bluff mentioned in paragraph 5 is visible in some places. In cases where the shoreline is obscured, an allowance has been made for the overhang. Where applicable, the apparent shoreline has been indicated at the base of the offshore line of solid trees; this line is flexible and is often a compromise between ground conditions and practicability.

The shore ends of all submerged pipelines crossing public waterways and landmark cross-country pipelines in canals have been indicated. Due to the intricacy of the pipeline network in the oil fields it was impractical to show all the pipeline crossings in the access canals.

All canals except the Intracoastal Waterway are private.

The piers indicated at the wells in the West Lake Verret oil field were built before the pipeline system was developed and were used to tie barges alongside when taking petroleum from the well, and to protect the well casing from collision. Although the need for the long piers no longer exists, they are maintained and should be mapped.

The boilers indicated at various locations in the oil fields are on elevated platforms. Where piers are indicated alongside they consist of lower level landings.

All other shoreline features are adequately annotated on the field inspection photograph.

8. OFFSHORE FEATURES

Two parallel wooden bulkheads in ruins have been indicated along both sides of a dredged channel in Flat Lake. Both the channel and the bulkheads have been abandoned. There is one offshore petroleum well in Lake Palourde.

9. LANDMARKS AND AIDS

There are none.

10. BOUNDARIES, MONUMENTS AND LINES

See "Special Report, Boundaries, Project ^{PH} 2170."

11. OTHER CONTROL

No other control was required.

12. OTHER INTERIOR FEATURES

Roads were classified in accordance with reference 5441, Topographic Manual, Part II, and the Project Instructions.

Buildings were classified in accordance with reference 5446, Topographic Manual, Part II, and the Project Instructions.

All tanks are oil tanks unless otherwise indicated.

There are no overhead cables or bridges in the quadrangle.

All wells are gas and oil.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project ^{PH} 2170."

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA


"Special Report, Geographic Names, Project ^{PH} 25170" to be forwarded to the Washington Office at a later date.

"Special Report, Boundaries, Project ^{PH} 25170" to be forwarded to the Washington Office at a later date.

Data, Map T-10527, to be forwarded at a later date.

Revision Data, Map T-9021, to be forwarded at a later date.

Submitted:


James E. Johnson
Cartographic Survey Aid

Approved:


Ira R. Rubottom
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10515

Project Ph-170

Refer to Report for Radial Plot "B" and attached correspondence which is included in the Descriptive Report for T-10527.

MAP T. 10515 PROJECT NO. Ph-170 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)		FORWARD	(BACK)	
SHELL POINT	Office	N.A.	29	54				128.0	(1719.5)	
R.M. No. 1, 1935	Comp.	1927	91	09				23.0	(1586.7)	
MORGAN CITY MUNI-	G-1244	"	29	41	40.117			1235.2	(612.2)	
CIPAL TANK, 1931	I 82	"	91	12	29.132			783.2	(829.8)	
P.B.M. 48 (USED)	G-3218)	"	29	53	35.912			1105.8	(741.7)	
1917	P-30	"	91	12	21.407			574.4	(1035.5)	
P.B.M. 48 (USED)	Office	"	29	53				1151.2	(696.3)	
1917 Sub Station	Comp.	"	91	12				573.8	(1036.1)	
LONG, 1935	G-3218	"	29	50	08.901			274.1	(1573.3)	
DO	P-II 35	"	91	08	51.842			1391.8	(219.0)	
Sub Station	Office	"	29	50				273.5	(1573.9)	
ATTAKAPAS, 1935	Comp.	"	91	08				1401.6	(209.2)	
DO	G-3218	"	29	51	03.639			112.0	(1735.4)	
Sub Station	P-II 35	"	91	06	11.188			300.3	(1310.2)	
P.B.M. 50 (USED)	Office	"	29	51				102.3	(1745.1)	
1917	Comp.	"	91	06				309.2	(1301.3)	
P.B.M. 52 (USED)	Napoleonville Quad USE	"	29	50	07.366			226.8	(1620.6)	
1917	# 11	"	91	08	51.361			1378.8	(231.9)	
DO	Napoleonville Quad USE	"	29	46	54.629			1682.0	(165.4)	
Sub Station	# 13	"	91	10	04.635			124.5	(1487.1)	
P.B.M. 53 (USED)	Office	"	29	46				1715.6	(131.8)	
1935	Comp.	"	91	10				360.0	(1251.6)	
DO	G-3218	"	29	45	21.171			651.9	(1195.5)	
Sub Station	P-36	"	91	10	58.024			1559.0	(53.0)	

COMPILATION REPORT

Map Manuscript T-10515

Project Ph-170

Items 31 thru 36:

Refer to Compilation Report for T-10527 (1957). Exception: Under Item 34 there was no U.S.G.S. quadrangle available for comparison of drainage.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were completed with T-10527 on the west and T-10645 on the south. There are no contemporary surveys to the north and east.

40. Horizontal and vertical accuracy:

There are no areas of planimetry that are considered sub-normal in horizontal accuracy. Vertical accuracy is not applicable.

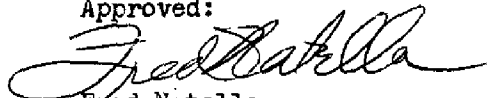
46. Comparison with Existing Maps:

The U.S.G.S. quadrangle "Napoleonville" was not available for comparison purposes.

47. Comparison with Nautical Charts:

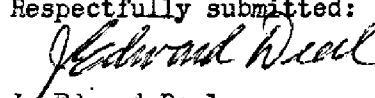
Comparison was made with nautical chart No. 1050 "New Orleans to Calcasieu River, east section) scale, 1:175,000 at Lat. 30°, revised 2-25-57.

Approved:



Fred Natella
CAPT, C&GS
Portland District Officer

Respectfully submitted:



J. Edward Deal
Cartographer
C&GS

49. Notes to the Hydrographer:

None.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10515

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

CONTROL STATIONS

- 5. Horizontal control stations of third-order or higher accuracy
- 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) None
- 7. Photo hydro stations None
- 8. Bench marks None
- 9. Plotting of sextant fixes
- 10. Photogrammetric plot report
- 11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

- 20. Water features
- 21. Natural ground cover
- 22. Planetable contours None
- 23. Stereoscopic instrument contours None
- 24. Contours in general None
- 25. Spot elevations None
- 26. Other physical features

CULTURAL FEATURES

- 27. Roads
- 28. Buildings
- 29. Railroads
- 30. Other cultural features

BOUNDARIES

- 31. Boundary lines None
- 32. Public land lines None

MISCELLANEOUS

- 33. Geographic names
- 34. Junctions
- 35. Legibility of the manuscript
- 36. Discrepancy overlay None
- 37. Descriptive Report
- 38. Field inspection photographs
- 39. Forms

40. Lorita L. Harris
Reviewer

Edward Deal
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:

48. Geographic Names:

Bayou Chevreuil → *Manuscript spelling incorrect*
Bayou Crosbeak
Bayou Gunnie
Bayou Long
Bayou Magazille
Bayou Milhomme
Bayou Sam
Bayou Segge
Bear Bayou
Belle River
Big Bayou Jessie
Big Fork Bayou
Dog Island
Dog Island Pass
Flat Lake
Graveyard Island
Hog Bayou
Lake Verret
Little Bayou Jessie
Little Bayou Sorrel
Long Island
Sixmile Lake

George M. Bace
Geographic Names Section
18 April 1962

REVIEW REPORT
OF PLANIMETRIC MANUSCRIPTS
T-10515 and T-10523 thru T-10527
November 1962

61. General Statement

These are Six (6) of 31 planimetric maps of project TN-170, Atchafalaya River La. These maps were prepared as bases for Nautical Charts and future Hydrographic Surveys.

62. Comparison with Registered Topographic Surveys

T-8897	1:10000	1946	Shoreline Surveys
T-8898	1:10000	1946	"
T-8899	1:10000	1946	"

These planimetric surveys supersede the above listed shoreline surveys of common area for nautical charting purposes.

63. Comparison with Maps of Other Agencies

Centerville, La.	1:62,500	G. of E.	1959
Jeanerette, La.	1:62,500	G. of E.	1954
Napoleonville, La.	1:62,500	G. of E.	1953

A comparison shows that the above maps are in good agreement except for minor shoreline and cultural details.

64. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys within the area of these manuscripts.

65. Comparison with Nautical Charts

881 1:50,000 September 1962

There are no differences of importance except for a dredged channel that is shown on the chart, at Lat. $30^{\circ} 57.0'$ Long. $91^{\circ} 15.8'$, that is subsequent to the date of the manuscript.

66. Adequacy of Results and Future Surveys

These maps were prepared for bases for Nautical Charts and future Hydrographic Surveys and are within the required Accuracy.

Submitted by:

L. C. Lande
L. C. Lande

Approved by:

Charles L. ...
Chief, Cartographic Branch

Paul G. Taylor
Chief, Nautical Chart Division

J. E. ... 3/18/63
Chief, Photogrammetry Division

Harold G. Conely
Chief, Operations Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10515

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
881	8-5-63	<i>John P. Weir</i>	Full Part Before After Verification Review Inspection Signed Via Drawing No. 6
1050	1-6-64	h j kooter	Full Part Before After Verification Review Inspection Signed Via LCL Drawing No. <i>Considered not applied REC 2-4-64</i> Full Part Before After Verification Review Inspection Signed Via Drawing No. Full Part Before After Verification Review Inspection Signed Via Drawing No. Full Part Before After Verification Review Inspection Signed Via Drawing No. Full Part Before After Verification Review Inspection Signed Via Drawing No. Full Part Before After Verification Review Inspection Signed Via Drawing No. Full Part Before After Verification Review Inspection Signed Via Drawing No. Full Part Before After Verification Review Inspection Signed Via Drawing No.