

9790

Diag. Cht. No. 1268-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-68 Office No. T-9790

LOCALITY

State Mississippi * Louisiana

General locality Lake Borgne

Locality Pearl River

19 56

CHIEF OF PARTY

P.L. Bernstein, Chief of Field Party

I.R. Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE October 7, 1959

B-1870-1 (1)

0626
9790

DATA RECORD

T - 9790

Project No. (II): Ph-68

Quadrangle Name (IV):

PEARL RIVER ISLAND

Field Office (II): Gulfport, Miss.

Chief of Party: P. L. Bernstein

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: Ira R. Rubottom

Instructions dated (II) (III): 14 August 1951

Copy filed in Division of
Photogrammetry (IV)

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):

JUL -6 1955

Date reported to Nautical Chart Branch (IV):

JUL 22 1955

Applied to Chart No.

Date:

Date registered (IV):

2/24/59

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): PEARL, 1931

Lat.: 30⁰14' 53.941" (1661.0m.)

Long.: 89⁰36' 56.798" (1518.5m.)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

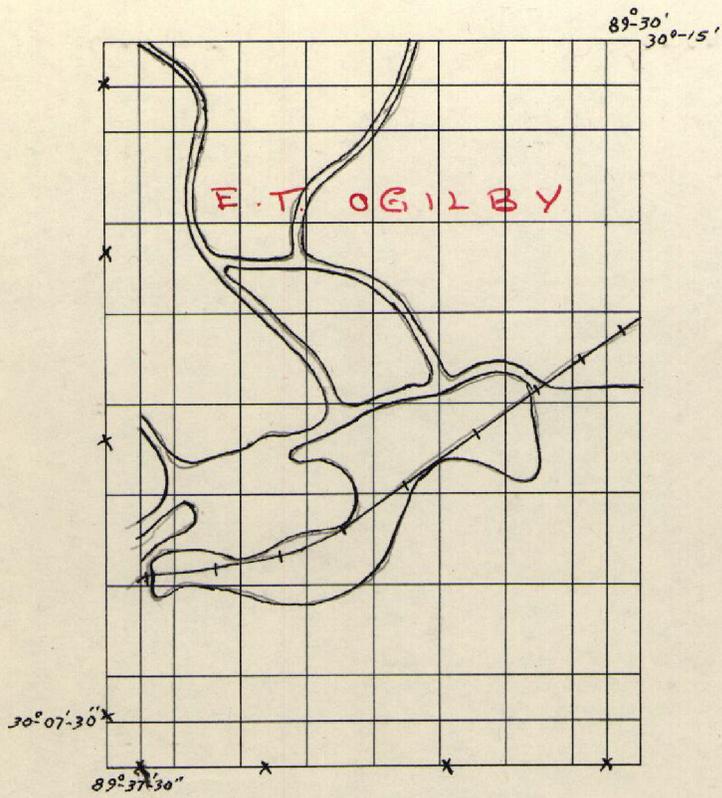
Zone:

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.



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **E. T. Ogilby**
S. L. Hollis, Jr.
B. F. Lampton, Jr. Date: **Feb. Mar. 1952**
Jan. 1952
Jan. 1952

Planetable contouring by (II): **E. T. Ogilby** Date: **13 Mar. 1952**

Completion Surveys by (II): **G.E. VARNADOZ** Date: **OCT, 1956**

Mean High Water Location (III) (State date and method of location): **March 1952**
Air Photo Compilation

Projection and Grids ruled by (IV): **J. A. (W.O.)** Date: **11 April 1952**

Projection and Grids checked by (IV): **H. D. W. (W.O.)** Date: **11 April 1952**

Control plotted by (III): **I. I. Saperstein** Date: **24 Nov. 1952**

Control checked by (III): **R. J. Pate** Date: **24 Nov. 1952**

Radial Plot ~~or Stereoscopic~~
~~Control-extension~~ by (III): **M. M. Slavney** Date: **9 Dec. 1952**

Planimetry
Stereoscopic Instrument compilation (III): **Inapplicable** Date:
Contours Date:

Manuscript delineated by (III): **R. B. Smith** Date: **May 1955**

Photogrammetric Office Review by (III): **J. A. Giles** Date: **June 1955**

Elevations on Manuscript
checked by **J. A. Giles** (III): Date: **June 1955**

Camera (kind or source) (III): **USCGS Nine-lens camera**

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
33471	24 Apr. 1951	0809	1:20,000	0.8
33472	"	0810	"	"
33473	"	0811	"	"
33482	"	0824	"	"
33483	"	0825	"	"
33484	"	0826	"	"
33485	"	0827	"	"
33486	"	0828	"	"
33507	"	0903	"	"
33508	"	0904	"	"

Tide (III)

From Predicted Tides

Reference Station: **Pensacola, Fla.**
 Subordinate Station: **Long Point, Lake Borgne**
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	-	1.3
0.8	-	1.0

Diurnal

Washington Office Review by (IV):

A.K. Heywood

Date:

FEB. 1959

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

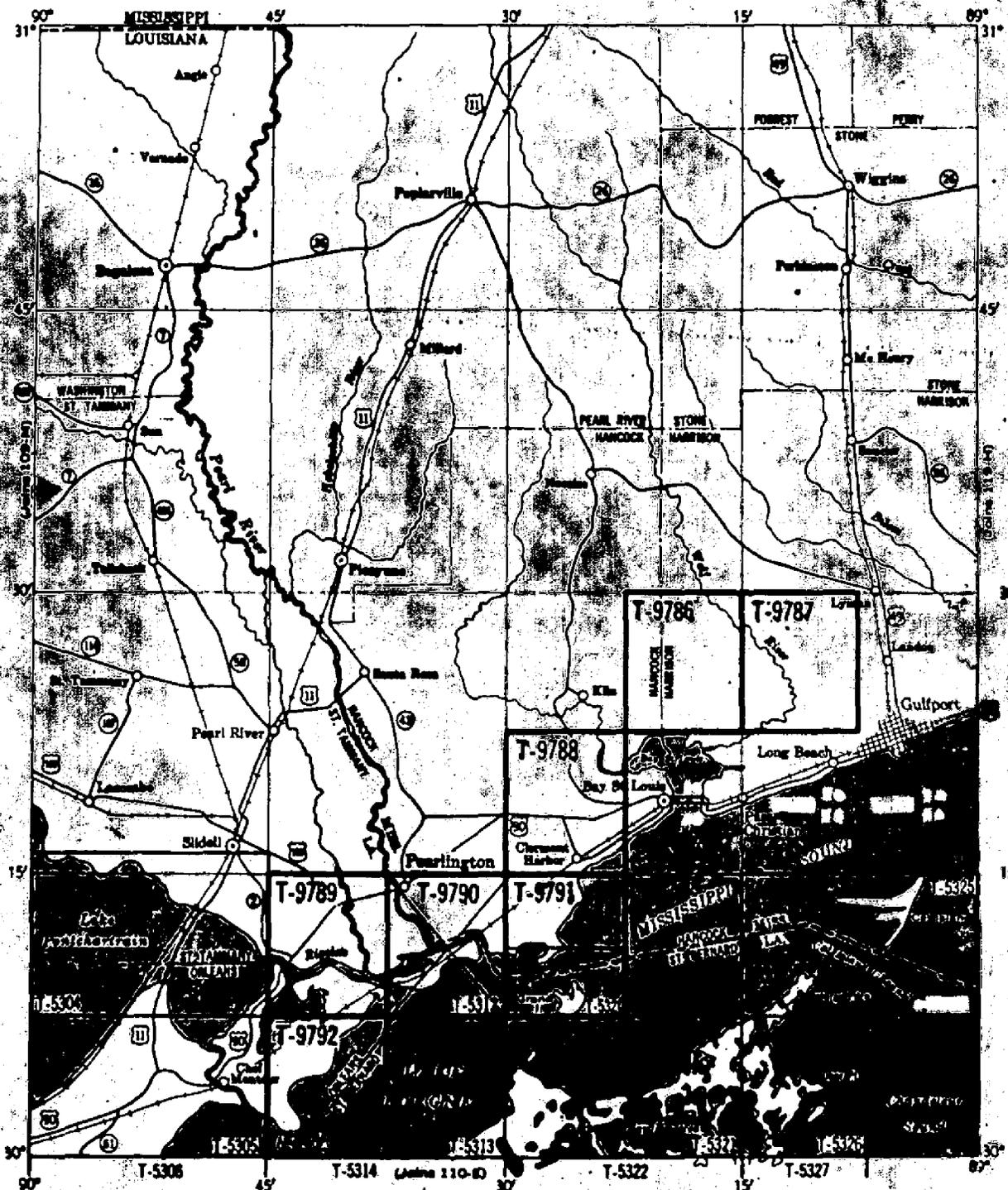
Date:

Land Area (Sq. Statute Miles) (III): **40.5**
 Shoreline (More than 200 meters to opposite shore) (III): **20**
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
 Control Leveling - Miles (II):
 Number of Triangulation Stations searched for (II): **16***** Recovered: **13** Identified: **10*****
 Number of BMs searched for (II): **15** Recovered: **13*** Identified: **1***
 Number of Recoverable Photo Stations established (III): **17****
 Number of Temporary Photo Hydro Stations established (III):

Remarks:

- * Only one BM falls within limits of sheet
- ** Three (3) of these are inland section corners two of which fall north of sheet
- *** Seven (7) of these fall north of sheet.
- Six (6) of the ten (10) identified fall north of the sheet.

TOPOGRAPHIC MAPPING PROJECT PH-68 (50)
 Mississippi Sound St. Louis Bay, Miss. to Lake Pontchartrain, La.



Compiled at scale 1:20,000, from aerial photographs of April, 1951.

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. St. Miles	Lin. Miles Shoreline
T-9786	64	0
T-9787	64	0
T-9788	61.5	4.3
T-9789	55.5	30.0
T-9790	40.5	20.0
T-9791	20.5	25.5
T-9792	22.5	13.0
TOTALS	328.5	92.8

Field Party: Photo Party #2
 Compilation at: Photo Office

Summary to Accompany Topographic Map

This topographic map is one of seven maps of Project PH 68. It covers the north shore of LAKE BORGNE and continues into MISSISSIPPI SOUND. Project PH-89 joins the four most southern manuscripts and Project PH-60 joins the other three.

It is a graphic compilation project. Field work in advance of compilation included the recovery of control field inspection, the delineation of 5 foot contours on 1952 nine-lens photographs by planetable methods and the investigation of geographic names and boundaries.

The two most northern sheets T-9786 and T-9787 were contoured by the Reading Plotter with a 10' interval.

A nine-lens plot was run by the Tampa Office on the five most southern sheets and a separate nine-lens plot on sheets T-9786-87 was run by the Washington Office. The plots junctioned well.

All sheets were compiled and scribed by the Tampa District Office. New photography taken in 1955 with the "W" camera was used to revise delineation where necessary.

The manuscripts were field edited.

With the addition of hydrographic data these maps will be forwarded to the Geological Survey for publication.

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

Station: Ken

State: Maryland

Chief of party: C. V. H.

Date: 1917

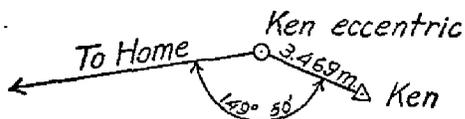
Computed by: O. P. S.

Observer: C. V. H.

Instrument: No. 168

Checked by: W. F. R.

OBSERVED STATION	Observed direction			Eccentric reduction	Sea level reduction	Corrected direction with zero initial			Adjusted direction	
	°	'	"			°	'	"	'	"
Chevy	0	00	00.00	-	7.31	0	00	00.00		
Tank west of Δ Dulce	29	03	37.0	-1	09.8	29	02	34.5		
Ken (center), 3.469 meters	176	42								
Forest Glen standpipe	313	24	53.0	+3	01.2	313	28	01.5		
Home	326	31	30.21	+	31.33	326	32	09.45		
Bureau of Standards, wireless pole	352	17	20.8	+	5.7	352	17	33.8		
Reno	357	28	48.63	-	1.16	357	28	54.78		
Reference mark, 16.32 m	358	31	20							



This form, with the first three and fifth columns properly filled out and checked, must be furnished by field parties. To be acceptable it must contain every direction observed at the station.

It should be used for observations with both repeating and direction theodolites.

The directions at only one station should be placed on a page.

If a repeating theodolite is used, do not abstract the angles in tertiary triangulation. The local adjustment corrections (to close horizon only) are to be written in the Horizontal Angle Record, and the List of Directions is to be made from that record directly.

Choose as an initial for Form 24A some station involved in the local adjustment, and preferably one which has been used as an initial for a round of directions on objects not in the main scheme. Use but one initial at a station. Call the direction of the initial 0° 00' 00." 00, and by applying the corrected angles to this, fill in opposite each station its direction reckoned clockwise around the whole circumference regardless of the direction of graduation of the instrument. The clockwise reckoning is necessary for uniformity and to make the directions comparable with azimuths.

If a station has been occupied eccentrically, reduce to the center and enter in this form, in ink, the resulting corrections to the observed directions in the column provided for them. If an eccentric reduction is necessary, but not made in the field, leave the column blank. If the station was occupied centrally, and no eccentric reduction is required, put dashes in the column to show that no corrections are necessary.

Directions in the main scheme should be entered to hundredths of seconds in first-order triangulation; otherwise to tenths only. Points observed upon but once, direct and reverse, should be carried to tenths in first-order and second-order triangulation, and to even seconds only in third-order triangulation. In general, but two uncertain figures should be given.

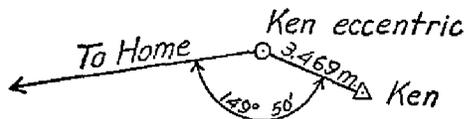
It is recommended that the following simple plan of observing be used with a repeating instrument: Measure each single angle in the scheme at each station and the outside angle necessary to close the horizon. Measure no sum angles. Follow each measurement of every angle immediately by a measurement of its supplement. Six repetitions are to constitute a measurement. The local adjustment will consist simply of the distribution of the error of closure of the horizon.

Station: Ken
 Chief of party: C. V. H.
 Observer: C. V. H.

State: Maryland
 Date: 1917
 Instrument: No. 168

Computed by: O. P. S.
 Checked by: W. F. R.

OBSERVED STATION	Observed direction			Eccentric reduction	Sea level reduction	Corrected direction with zero initial			Adjusted direction	
	°	'	"			°	'	"	'	"
Chey	0	00	00.00	-	7.31	0	00	00.00		
Tank west of Δ Dulce	29	03	37.0	-1	09.8	29	02	34.5		
Ken (center), 3,469 meters	176	42								
Forest Glen standpipe	313	24	53.0	+3	01.2	313	28	01.5		
Home	326	31	30.21	+	31.93	326	32	09.45		
Bureau of Standards, wireless pole	352	17	20.8	+	5.7	352	17	33.8		
Reno	357	28	48.63	-	1.16	357	28	54.78		
Reference mark, 16.32 m	358	31	20							



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It should be used for observations with both repeating and direction theodolites.

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If a repeating theodolite is used, do not abstract the angles in tertiary triangulation. The local adjustment corrections (to close horizon only) are to be written in the Horizontal Angle Record, and the List of Directions is to be made from that record directly.

Choose as an initial for Form 24a some station involved in the local adjustment, and preferably one which has been used as an initial for a round of directions on objects not in the main scheme. Use but one initial at a station. Call the direction of the initial $0^{\circ} 00' 00."$ 00, and by applying the corrected angles to this, fill in opposite each station its direction reckoned clockwise around the whole circumference regardless of the direction of graduation of the instrument. The clockwise reckoning is necessary for uniformity and to make the directions comparable with azimuths.

If a station has been occupied eccentrically, reduce to the center and enter in this form, in ink, the resulting corrections to the observed directions in the column provided for them. If an eccentric reduction is necessary, but not made in the field, leave the column blank. If the station was occupied centrally, and no eccentric reduction is required, put dashes in the column to show that no corrections are necessary.

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FIELD INSPECTION REPORT WAS

SUBMITTED WITH T-9791

COMPILATION REPORT T-9790

Photogrammetric Plot Report was submitted with T-9791.

31. DELINEATION.

The graphic method was used.

Field inspection was adequate.

The photographs were of fair scale.

32. CONTROL.

Reference photogrammetric plot report.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

No difficulties were encountered in delineating the drainage nor in transferring the contours to the manuscript.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate.

No low-water or shoal lines have been shown.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

No statement.

38. CONTROL FOR FUTURE SURVEYS.

Seventeen (17) Forms 524 for recoverable topographic stations are being submitted with this report. A list of these stations, which will be of value to the hydrographer, is included under Item 49.

There are no photo-hydro stations.

39. JUNCTIONS.

A satisfactory junction has been made with T-9789 on the west, T-9791 on the east and T-9656 on the south. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

41. SECTION LINES.

* No attempt was made to show section lines on Pearl River Island because no corners or points on line were recovered by the field inspector. * COMPLETED DURING REVIEW USING AVAILABLE LAND PLATS. AKA

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Planimetric Map T-5312, scale 1:20,000, issued in November 1932. The two are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 878, scale 1:40,000, published in October 1951, bearing a print date of 9 August 1952. Comparison was also made with USC&GS Nautical Chart No. 1268, scale 1:80,000, published Sept. 1940 and having a print date of 13 April 1953. The agreement was fair.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rexford E. Smith, Jr.
Rexford E. Smith, Jr.
Carto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom
Ira R. Rubottom, Chief of Party

48. GEOGRAPHIC NAME LIST.

BALDWIN LODGE ✓
BAYOU COWAN ✓
BROWNS DITCH ✓
BROWNS ISLAND ✓

CAMPBELL INSIDE BAYOU ✓
CAMPBELL ISLAND ✓
CAMPBELL OUTSIDE BAYOU ✓
CAMPBELL LAGOON ✓
CLAIBORNE ✓
CROSS BAYOU ✓

DESERT ISLAND ✓

EAST MIDDLE RIVER ✓
EAST MOUTH ✓
EAST PEARL RIVER ✓
EAST PASS ✓
ENGLISH LOOKOUT ✓

GRAND PLAINS ✓
GRAND PLAINS BAYOU ✓
GRASSY BAYOU ✓

HANCOCK COUNTY ✓
HOG ISLAND ✓

JACKSON LANDING ✓
JACKSON LANDING ROAD ✓
JIM BROWN BAYOU ✓
JOHN CANE BAYOU ✓
JOHNNY THREE BAYOU ✓
JOHNS BAYOU ✓
JOHNSON ISLAND ✓
JOHNSON PASS ✓

KIMMELS BAYOU ✓
KING BEE BAYOU ✓
KOPMAN BAYOU ✓

LAKE BORGNE ✓
LITTLE LAKE ✓
LITTLE LAKE PASS ✓
LONG POINT ✓
LOUISIANA ✓
LOUISVILLE AND NASHVILLE RR ✓

48. GEOGRAPHIC NAME LIST (CON'T)

MIDDLE RIVER ✓
MISSISSIPPI ✓
MULATTO BAYOU ✓

NORTH PASS ✓
NORTH SIDE ✓

OLD PEARL RIVER ✓
ORLEANS PARISH ✓

PATE BAYOU ✓
PEARLINGTON ✓
PEARLINGTON ROAD
PEARL RIVER ✓
PEARL RIVER ISLAND ✓
PLANTATION LANDING ✓
POITEVANTS DITCH ✓
POLECAT BEND ✓

REDFISH BAYOU ✓

SAND BAYOU ✓
ST. BERNARD PARISH ✓
ST. TAMMANY PARISH

U. S. 90 ✓

WEST MIDDLE RIVER ✓
WHITES BAYOU ✓
WOODY BAYOU ✓

YOUSAN BAYOU ✓

LAND GRANTS

ISAAC GROVES

JOHN B. DOBY

L. BOISDORE

NANCY COLLINS

Names approved
 8-11-55
 A. J. W.

49. NOTES FOR THE HYDROGRAPHER.

The following topographic stations will be of use to the hydrographer:

ACRB, 1952
ANTE, 1952

BERM, 1952
BITE, 1952
BOOM, 1952
BRIM, 1952

CAME, 1952

DATE, 1952
DEAF, 1952

*DEAN, 1952
DECK, 1952
DEEP, 1952

EDGE, 1952

PEARL RIVER DAYBEACON, 1952

**To be located by field editor.
Mon. could not be found; therefore, if it is
still in existence, it will not have a
geographic position. u.s.g.*

NOTE: Only those stations of use to the hydrographer have been listed.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9790

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

6a. 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) JG
- 7. Photo hydro stations XX
- 8. Bench marks JG
- 9. Plotting of sextant fixes JG
- 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 JG
- 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 JG
- 30. Other cultural features JG

BOUNDARIES

- 31. Boundary lines JG
- 32. Public land lines JG

MISCELLANEOUS

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

40. Jesse A. Giles
 Reviewer

William A. Rasure
 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.

W. W. Dawsey
 Compiler

Milton M. Slawny
 Supervisor

43. Remarks:

9 January 1957

To: Chief, Engineering Division
Corps of Engineers, U. S. Army
New Orleans District
Post of Drybanks Street
New Orleans, Louisiana

Subject: Political Boundaries - Mississippi and Louisiana

This is in reply to your letter dated 29 December 1956 regarding political boundaries as delineated on Coast and Geodetic Survey topographic maps 1-9556, 1-9790 and 1-9942.

The maps that were furnished to you are advisory in nature and are subject to field and final review operations. The matter was referred to our legal section and their opinion is that the political lines that you stated are in no way to have been indicated. Great political lines will be required during final review.

Portions of the legal descriptions of St. Bernard, Iberville and St. Louis parishes lines are enclosed. These were obtained from the respective parishes by our field engineers and the field surveys were made. The legal descriptions combined with charted channels from vertical chart 375 were used as the source material for compiling the questionable parish lines. These data are our basis for a possible delineation of the parish lines.

Your interest in bringing this matter to our attention is appreciated and I have taken the liberty of forwarding your photostat copies of the maps to the Tampa District Office for the information of the compilers. If you desire the return of your maps, please advise the Tampa District Office, Coast and Geodetic Survey, P. O. Box 190, Tampa, Florida.

Assistant Director

Enclosure

cc: Santa Monica Office

17

Field Edit Report
Quad. T-9790

51. Methods. All roads were ridden out to check their classification and to visually check the planimetry and contours. The shoreline was inspected from a boat.

Two lights - Pearl River Light and Lake Borgne Light 21 - were located by third order geodetic methods.

Standard plane-table methods were used to locate oil wells, tanks, a new road, a section line corner and section line crossings on roads; to obtain spot elevations along the railroad and to check the accuracy of the contours.

Many features were identified on the photographs and cross referenced on the field edit sheets.

Field edit information is shown on the following: Two Field Edit Sheets, the Discrepancy Print, the Section Line Discrepancy Print and one ratio print each of photographs Nos. 55W- 1631, 1633, 1634, 1640 and 1641.

Violet ink was used for all corrections and additions on both the field edit sheets and the photographs except on photograph No. 55W- 1634 where red ink was used. A legend appears on each field edit sheet and on photograph No. 55W-1634.

52. Adequacy of the Compilation. After many new features and other field edit information have been added the compilation will be adequate and complete.

53. Map Accuracy. No horizontal accuracy test was made. Contours appear only in the northern part of the quad. Nine points on the contours were tested in two areas. All points tested were less than one half the contour interval in error.

54. Recommendations. None offered.

55. Examination of Proof Copy. No one contacted is believed to be qualified to examine a proof copy of the map for possible errors.

56. Other Interior Features. Addendum to side heading 12 of the descriptive report.

A temporary, fixed, railroad bridge was constructed across Pearl River just north of the permanent drawbridge while this permanent bridge was being rebuilt (see photo 55W-1641) .

According to the bridge foreman the permanent drawbridge is to be in operation by 1 Nov. 1956 and the temporary structure is to be completely removed within approximately three months from that date. The fender piling for the rebuilt bridge are not yet in place. The actual horizontal clearance without these piling is 106 feet. According to the bridge foremen the horizontal clearance will be 100 feet after the fender piling are driven. The vertical clearance will, of course, remain the same as shown on photograph 55W-1641. According to the construction engineer and the evidence of the old piling this bridge is in the same horizontal position of the old bridge but has been raised about four feet.

Wires across the river are on the bridge and are temporary. Submarine cables are to be laid, just south of the drawbridge, after the fender piling are driven.

Respectfully submitted,
30 Oct. 1956

George E. Varnadoe
George E. Varnadoe
Photo. Engr.

REVIEW REPORT T-9790
Topographic
February 9, 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Map number	Scale	Date
633	20,000	1856
3664	40,000	1917-18
2954-54a	40,000	1909
5312	20,000	1934
7014b	30,000	1946

All of the above surveys are superceded by manuscript T-9790.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

USGS	ENGLISH LOOKOUT	1:31,680	Field edited 1935
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64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

Chart 878 combined edition Oct. 1951, revised June, 1958

The chart was revised prior to field edit and final review. Some differences exist and are listed in detail.

1. Two small lines of pile exist on the north side of PEARL RIVER ISLAND near ENGLISH LOOKOUT.
2. Two rocks and a wreck now exist on the eastern end of PEARL RIVER ISLAND.
3. A line of pile on the south shore of PEARL RIVER ISLAND opposite ENGLISH LOOKOUT.
4. Rock jetties on the south shore of PEARL RIVER ISLAND near POLECAT BEND shown on the chart were not found by the field party.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This manuscript complies with all instructions.

Land lines on Pearl River Island were taken directly from the Land Office plat with the USGS quad "English Lockout" as a guide. The location of section corners in this area could not be found during field edit.

Vertical accuracy tests were run by the field ~~unit~~^{edit} party. All contours tested were well within the standards.

No horizontal accuracy test was run and none was required. The horizontal accuracy is adequate.

The state boundary dividing Lake Borgne has not been shown. Sufficient data could not be obtained by the field party for accurate delineation.

This manuscript complies with the National Standards of Map Accuracy.

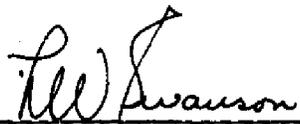
Reviewed by:


A. K. Heywood

APPROVED BY:


Chief, Review & Drafting Section
Photogrammetry Division


Chief, Nautical Chart Branch
Charts Division


Chief, Photogrammetry Division


Chief, Coastal Surveys Division

25 Sept '59

