

9871

Original

Diag. Cht. Nos. 1274-2 & 1275-2.

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC
Field No. 6090	Office No. T-9871
LOCALITY	
State	LOUISIANA
General locality	GULF COAST
Locality	DOG LAKE
194	
CHIEF OF PARTY	
E. H. Kirsch, Chief of Field Party	
H. C. Appolequist, Tampa Photogrammetric	
Office	
LIBRARY & ARCHIVES	
DATE	JUN 5 1958

B-1870-1 (1)

1286

DESCRIPTIVE REPORT - DATA RECORD

T - 9871

Project No. (II): 6090

Quadrangle Name (IV):

Field Office (II): Houma La.

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Tampa Fla.

Officer-in-Charge: H. C. Applequist

Instructions dated (II) (III): 5 Sept. 1952

Copy filed in Division of
Photogrammetry (IV)

(Supplement 1) 25 Sept. 1952

(Supplement 2) 30 Sept. 1952

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):

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): BAYOU 1928✓

Lat.: 29°10'15.227" (468.8 m)✓ Long.: 90°50'25.828" (697.9m)✓

Adjusted
~~unadjusted~~

Plane Coordinates (IV):

State:

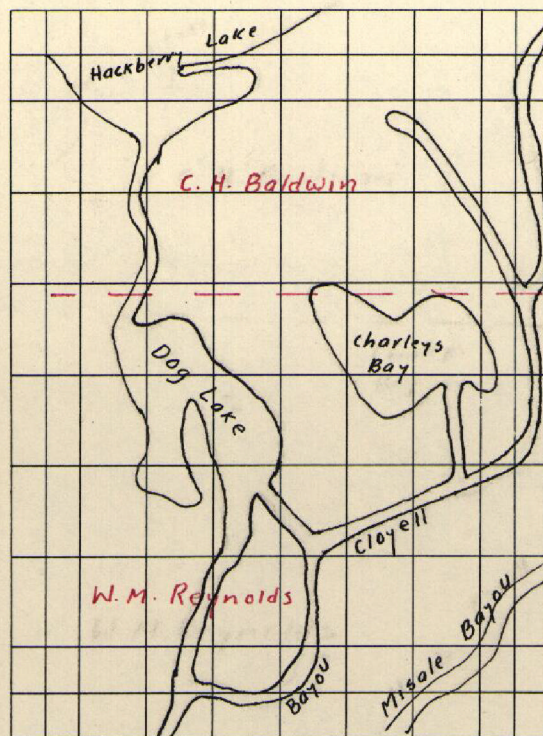
Zone:

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): W. M. Reynolds
C. H. Baldwin

Date: April 1953 ✓

Planetable contouring by (II): W. M. Reynolds
C. H. Baldwin

Date: April 1953 ✓

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): April 1953 ✓
Air Photo Compilation ✓

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

Date: 3 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: 22 Oct. 1954 ✓

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

Date: 22 Oct. 1954 ✓

Radial Plot ~~of SIGHTS~~ ~~of SIGHTS~~ ~~of SIGHTS~~

Date: 23 June 1955 ✓

~~Control Extension~~ by (III): M. M. Slavney

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Inapplicable

Date:

Manuscript delineated by (III): R. Dossett

Date: 16 Jan. 1956 ✓

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

Date: 20 Jan. 1956 ✓

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

Date: 17 Jan. 1956 ✓

DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
39535	29 Sept. 1952	10:14	1:20,000	Little
39536	"	10:16	"	or
39537	"	10:17	"	no periodic
39443	28 Sept. 1952	11:40	"	tide
39444	"	11:40	"	
39445	"	11:41	"	

Tide (III)

Reference Station:
Subordinate Station: Inapplicable
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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): 95

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

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 5

Recovered: 3

Identified: 3

Number of BMs searched for (II): 8

Recovered: 4

Identified: 2

Number of Recoverable Photo Stations established (III): 0

Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

SUMMARY
TO ACCOMPANY TOPOGRAPHIC MAP T-9871

This survey is in the vicinity of Dog Lake, northeast of Lake Pelto on the Louisiana Coast of the Gulf of Mexico.

The land area is a series of marsh islands, whose shoreline is subject to continuous change. There are also many cultural changes in the dredging of new canals in the "Dog Lake Oil Field" and "Four Isle Bay Oil and Gas Field". The only elevations in excess of five feet are found on spoil banks of those newly dredged canals.

T-9871 is a graphic compilation and along with other surveys of this project (PH-90) originates from 1952 nine-lens photography and 1953 field inspection accomplished at the Tampa District Office. Changes were applied to the original manuscript in 1957 from 1956 single-lens photography. All manuscripts of this project were successfully scribed at the same field office.

Hydrographic information will be added to the compilation according to Geological Survey specifications and released to that agency for the publication of a standard 7½ minute quadrangle at a scale of 1:24,000 and to replace an earlier edition of 1935 at the scale of 1:31680.

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 lithographic print in colors after final printing by G. S.

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2. AREAL FIELD INSPECTION

The land area is entirely marsh and is uninhabited except for seasonal occupation by trappers of the numerous cabins during the winter trapping season.

The area is unaccessible and reached only by shallow draft boat through the many bayous and lakes which are prominent throughout the quadrangle.

The principal industries are fishing, trapping, and the exploration and development of oil and natural gas fields. One sizeable field, The Texas Company Dog Lake Field, is in operation along the west side of this quadrangle and extends into quadrangle T-9870(). Many canals have been dredged to drilling sites and numerous wells are now producing. A permanent camp is maintained in the area for the working personnel. The producing wells all have supporting platforms around them and in most cases are visible on the photographs.

Field inspection is complete/as of ^{39443 J.G.} 10 April 1953 and was performed on the following photographs: ~~39530~~, 39535, 39536, 39537, 39444 and 39445. No items were deliberately left for the field editor but several new canals, to drilling sites, were located during field inspection and more will probably have been dredged by the time of field edit. New wells will also probably be producing in the area.

3. HORIZONTAL CONTROL

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

The following stations were reported lost: MISALE 1934 and FOUR ISLANDS OIL DERRICK 1934.

No supplemental control was established.

4. VERTICAL CONTROL

Eight tidal bench marks of this Bureau was searched for and four were recovered. DOG LAKE TIDAL BENCH MARKS 1, 2, and 3, and FOUR ISLAND BAYOU TIDAL BENCH MARK 2.

No bench marks were established and no fly levels were run.

* 4 -

5. CONTOURS AND DRAINAGE

Elevations for contours were determined by setting tide staffs, referenced to the previously mentioned tidal bench marks. The staffs were read at 30 minute intervals and recorded. The elevations along the marsh and spoil banks were taken from water level. The time was noted and the elevations reduced from the tide staff readings.

Elevations along the eastern side of the quadrangle were determined in the same manner as above except that the elevations were referenced to portable tide gage readings. The portable tide gage was installed near the mouth of Bayou Misale in Quadrangle T-9872().

All drainage is through the many bayous and canals. These are self-evident from the photographs.

6. WOODLAND COVER

There is no woodland cover in the area.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line, except for the banks of the canals, in the previously mentioned oil field, is all apparent shoreline, edge of the marsh. The mean high water line along the banks of the canals and around piles of spoil is fast shoreline.

There is little or no periodic tide in the area and the low water line is synonymous with the mean high water line.

All docks, wharves, piers, etc. are adequately covered by the photographs.

All submarine pipelines have been indicated on the photographs.

8. OFFSHORE FEATURES

The only offshore features are the spoil piles and oil wells located in Hackberry Lake. These are covered by the field inspection notes.

9. LANDMARKS AND AIDS

One landmark for nautical charts was identified on photograph 39530 for location by the radial plot. This is The Texas Company Dog Lake Field Radio Tower.

There are no aeronautical aids or fixed aids to navigation.

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10. BOUNDARIES, MONUMENTS AND LINES

There are no political boundaries in the area.

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

11. OTHER CONTROL

None was established.

12. OTHER INTERIOR FEATURES

There are no roads in the area.

Except for the Texas Company camp, the buildings consist of camps occupied seasonally by trappers. These should be mapped as Class 1 buildings for their landmark value. They have been labeled "cabins" on the photographs.

There are no bridges or cables over navigable waters.

There are no airports or landing fields.

13. GEOGRAPHIC NAMES

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

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. 90-7, "Special Report, Public Land Lines, Project Ph-90", submitted to Washington Office 29 April 1953.

Letter of Transmittal, Public Land 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. 90-22, Data, Quadrangle T-9871()
forwarded to Washington Office **MAY 15 1953**

Submitted
5 May 1953

William M. Reynolds
William M. Reynolds
Cartographic Survey Aid

Approved & Forwarded
MAY 15 1953

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

SCALE FACTOR

[illegible]

COMPILATION REPORT T-9871PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9672.

31. DELINEATION

Compiled graphically. The scale of the photographs was reasonably good, 39536 and 39537 having the best. There was a lack of photographic clearness and some difficulty was encountered in defining the apparent shoreline, particularly on photographs 39443 and 39444. These later photographs were badly sun-spotted and were also of poor scale. Field inspection was adequate. ✓

32. CONTROL

Reference photogrammetric plot report. ✓

33. SUPPLEMENTAL DATA

Reference Item 14. ✓

34. CONTOURS AND DRAINAGE

Reference Item 5.

The drainage has been delineated according to field inspection notes. ✓

35. SHORELINE AND ALONGSHORE DETAILS

Delineated according to photographs supplemented by field inspection notes. ✓

36. OFFSHORE DETAILS

Delineated according to field inspection notes. ✓

37. LANDMARKS AND AIDS

Reference Item 9. ✓

38. CONTROL FOR FUTURE SURVEYS
None

39. JUNCTIONS

A satisfactory junction has been secured with T-9861 on the north, T-9879 on the south, T-9870 on the west and T-9872 on the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. SECTION LINES

No section corners were recovered by the field inspection party. The only survey of land lines was by the G.L.O. and occurred along Bayou Grand Caillou. These were applied to the manuscript by holding comparable details. Due to outstanding changes having occurred in the shoreline since the land lines were surveyed (1838), considerable difficulty was encountered in their application. Their accuracy is questionable.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U. S. Geological Survey, Topographic Quadrangle "DOG LAKE, LA." scale 1:31,680, compiled in 1935 and Coast and Geodetic Survey Air Photo Compilation No. T-5290, scale 1:20,000 compiled from photographs dated Nov. 1932.

Except for slight changes in shoreline due to natural erosion and occasional man-made canals, little change was noted.

47. COMPARISON WITH NAUTICAL CHARTS

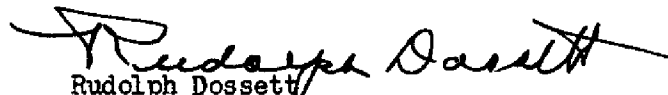
A comparison has been made with C&GS Nautical Chart No. 1274, scale 1:80,000, published July 1938 and corrected to 26 June 1953. It appears that the maps listed in Item 46 are the source of the topography and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY


None

ITEMS TO BE CARRIED FORWARD

None


Rudolph Dossett
Carto Photo Aid

Approved and Forwarded:


H. C. Applequist
Chief of Party

T-9871.

Geographic Names.

Bay Charlie
Bay de Mongles (not Misale Bay)
Bay de l'Ouest
Bayou Colyell (BGN decision: not Big Bayou Colyell)
Bayou de l'Ouest
Bayou des Plattes
Bayou Chine
Bayou Grand Caillon
Bayou John Bop
Bayou Nicholl
Big Misale Bayou (not Misale Bayou)
Bayou Rochelle
China Island
Dog Lake
Dog Lake Bayou
Dog Lake Oil and Gas Field (from 1955 Terrebonne Parish Highway Map)

Four Island Bayou
Four Isle Bay Oil and Gas Field (1955 Terrebonne Parish Highway Map)

Grand Pass des Plattes

Hackberry Lake

Lake Becasse
Little Misale Bayou (BGN decision)
Louisiana

Monclouse Bay (apply name to include the area shown on manuscript
by name Mullet Bayou: this is BGN decision)

Muskrat Bayou

Pass des Iles
Pass des Plattes
Pelican Bayou
Petit Pass des Plattes
Post Bayou

Quitman Bayou

Salt Bay

Terrebonne Parish
Trouble Bayou

Names approved 12-4-56
L. Heck

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Photogrammetric Review Branch

TO BE CHARTED

NOTHING

STRIKE OUT ONE

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

OFFICE OF THE ATTORNEY GENERAL

January, 1955

I recommend that the following objects which have ~~(been)~~^(not been) inspected from seaward to determine their value as landmarks be charted on ~~(attached)~~^(attached to) the charts indicated.

The positions given have been checked after listing by R. Bonsett

N. C. Applequist Chair
Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9871

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

Unclassified

Classification label

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) XX 7. Photo hydro stations XX 8. Bench marks J.G. 9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 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 J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.40. Jesse A. Giles
Jesse A. Giles ReviewerWilliam A. Pasare
William A. Pasare 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

REVIEW REPORT OF
TOPOGRAPHIC MAP T-9871
December 1957

61. GENERAL STATEMENT

T-9871 was originally compiled in 1955 from 1952 photography and 1953 field inspection. The manuscript was revised in 1957 to incorporate many changes made available by 1956 photography - without the benefit of field inspection or field edit.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-2752	1:20,000	1906
T-5290	1:20,000	1934

H-442, a hydrographic survey with extensive planimetry at a scale of 1:200,000 of 1853 was used in the comparison also.

Major differences between subject topographic survey and above-listed surveys are numerous additional canals on T-9871 in the "Dog Lake Oil Field" and "Four Isle Bay Oil and Gas Field" areas. There are other minor shoreline differences throughout. T-9871 will supersede all other topographic surveys for nautical charting purposes for common areas.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

DOG LAKE, LA., 1:31680, 1935, U. S. Geological Survey. Differences listed under item No. 62 were noted here also.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys of this area.

65. COMPARISON WITH NAUTICAL CHARTS

1274	1:80,000	Revised to 57 9/16
1275	1:80,000	Revised to 57 9/16
1050	1:175,000	Revised to 57 2/25

- 2 -

65. COMPARISON WITH NAUTICAL CHARTS CONTINUED

Only partial application of the original manuscript (prior to 1957 revision) was made to nautical chart 1274. There are many changes, some of sufficient magnitude for consideration to be applied to the above-listed nautical charts.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

As stated elsewhere in this report, the usual field inspection of the later photography and the field edit were not accomplished in this survey. However, a thorough examination was made of the photography used in the revision and it is believed to be within the requirements of accuracy and adequacy.

Reviewed by

Josef J. Streifler
Josef J. Streifler

Approved

L. C. Landy
Chief, Review & Drafting Section
Photogrammetry Division

Max B. Kerkitts
Chief, Nautical Charts
Branch, Charts Division

W. J. Bull
Chief, Photogrammetry Division

J. B. Seale
Chief, Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T 9871

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.