

9884

Diag. Cht. No. 1274-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-90 Office No. T-9884

LOCALITY

State Louisiana

General locality Gulf Coast

Locality Belle Pass

19452-53-56

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party

H.C.Applequist, Tmapa Photo. Office

LIBRARY & ARCHIVES

DATE June 24, 1958

9884

DESCRIPTIVE REPORT - DATA RECORD

T - 9884 ✓

Project No. (II): 24200 ✓

Quadrangle Name (IV):

Field Office (II): Houma, La. ✓

Chief of Party: E. H. Kirsch ✓

Photogrammetric Office (III): Tampa Fla. ✓

Officer-in-Charge: H. C. Applegate ✓

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

25 Sept. 1952 (Supplement 1) ✓

30 Sept. 1952 (Supplement 2) ✓

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): Graphic ✓

OCT 19 1956

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): 5-12-58

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): CALIFORNIA CO. TOWER BAY ✓

Lat.:

Long.:

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State: Louisiana Zone: South ✓

Y= 160,276.26 Ft. ✓

X= 2,367,035.00 Ft. ✓

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): C. H. Baldwin

Date: Jan. 1953 ✓

Planetable contouring by (II): C. H. Baldwin

Date: Jan. 1953 ✓

Completion Surveys by (II):

Date:

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

*1956 - See Page 5*  
~~January 1953~~  
Air Photo Compilation ✓

Projection and Grids ruled by (IV): Austin Riley (Washington Office)

Date: 21 Sept. 1953 ✓

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

Date: 22 Sept. 1953 ✓

Control plotted by (III): R. E. Smith

Date: 7 March 1955 ✓

Control checked by (III): R. A. Reece

Date: 7 March 1955 ✓

Radial Plot or ~~Stereoscopic~~

Date: 26 Jan. 1956 ✓

~~Control extension~~ by (III): M.M. SLAVNEY

Stereoscopic Instrument compilation (III):  
Planimetry  
Contours

Inapplicable ✓

Date:

Date:

Manuscript delineated by (III): I.I. Saperstein

Date: Sept. 1956 ✓

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

Date: Sept. 1956 ✓

Elevations on Manuscript

checked by (II) (III): J. A. Giles

Date: Sept. 1956 ✓

## DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Coast and Geodetic Survey 9-lens ✓

## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
39408	28 Sept. 1952	10:40	1:20,000	± 1.0
39409	" " "	10:41	"	± 1.0
39523	29 Sept. 1952	9:51	"	± 1.3

Single-lens photography:

56-L-431 to 434 ind. 10/23 56 1:20000 (infra-red)  
56-O-798 to 801 " " "  
56-W-4354 to 4359 " 10/24 56 1:30000  
56-W-4407 to 4411 " " "

Predicted  
Tide (III) ✓

Reference Station: Pensacola ✓  
Subordinate Station: Timbalier I., Timbalier Pass ✓  
Subordinate Station:

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

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): 16 ✓  
Shoreline (More than 200 meters to opposite shore) (III): 18 ✓  
~~Shoreline (Less than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 6\* ✓

Recovered: 2\* ✓

Identified: 2\* ✓

Number of BMs searched for (II): None ✓

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1 ✓

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

Remarks: \* The two(2) stations that were recovered are "The California Co's " stations, for which no Form 525 or Form 526 were submitted.



SUMMARY  
TO ACCOMPANY TOPOGRAPHIC MAP T-9884

T-9884 is one of 19 Topographic surveys of project PH-90 (6090), which project includes 18 Planimetric maps also. The subject survey covers the southernmost tip of mainland between TIMBALIER BAY and CAMINADA BAY in Louisiana on the Coast of the Gulf of Mexico.

The waters are rather shallow for considerable distance off shore; the land areas low and marshy with a few elevations on spoil or sand dunes above five feet, and subject to frequent and considerable changes. The only cultural features are wells, tanks, pipe lines and canals for the development, storage and transportation of oil.

The manuscript was compiled graphically at the Tampa District Office from 1952 nine-lens photography and 1953 field inspection. Recent and extensive changes were applied to the original compilation in 1957; this information having been made available by 1956 single-lens photography\* without benefit of field inspection or field edit. The final manuscript is a scribed medium on plastic, accomplished by the same field office and very suitable for direct reproduction of the registration copy.

The map will be published by the U. S. Geological Survey (with the addition of hydrographic information) as a standard 7½ minute quadrangle at a scale of 1:24,000 and replace a previous publication by that agency of 1935 at a scale of 1:31680.

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

A "CRONAR" film positive at manuscript scale (1:20,000).

The Descriptive Report

A cloth-backed lithographic print in colors after final printing by G. S.

*\* The changes between 1952 and 1956  
can be seen by comparing this map  
with the 1952 photographs or  
the ~~19~~ copy of the 1952 compiled sheet  
is filed as a field edit sheet.*

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## 2. AREAL FIELD INSPECTION

The area is all marsh except for the sand and shell beach along the Gulf of Mexico and a spoil area on which a tank battery has been built.

Bayou Lafourche ends at a fork in the bayou in the north-central part of this quadrangle. The west fork is Belle Pass and the east fork is Pass Fourchon. The mouth of Pass Fourchon is now shoaled over and is no longer used.

The California Company has an oil field in this area with several rigs on platforms about a mile offshore in the Gulf.

Field inspection was performed on nine-lens field photographs 39408 and 39524.

As photography was of fairly recent date, little difficulty was encountered in interpretation. Field inspection is believed to be complete as of 21 April 1953. However, there is extensive work being done to enlarge the tank battery on Pass Fourchon that will have to be added by the field editor. There is to be another pipe line parallel to the one entering this quadrangle from the west in the near future which should be complete by the time of field edit. The field editor should also be especially alert for new wells and new canals dredged as a means of access to drilling sites.

One new canal, since photography date, has been located on photograph 39408 by planetable methods.

## 3. HORIZONTAL CONTROL

All horizontal control was searched for but none could be found.

The following Coast and Geodetic Survey triangulation stations were reported lost: BELL 1928; PASS 1928; PASS 2 1934; and LEON 1887.

Two triangulation stations of the California Company were recovered and identified for possible use in the radial plot. They are CALIFORNIA CO'S M. BAKER ECC, plane coordinate position  $x = 2,359,739.06$  -  $y = 164,089.94$  and CALIFORNIA CO'S TOWER BAY plane coordinate position  $x = 2,367,035.00$  -  $y = 160,276.26$  on the Louisiana State Plane Coordinate System, South Zone, (Lambert).

## 4. VERTICAL CONTROL

There is no vertical control in this quadrangle and none was established.

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## 5. CONTOURS AND DRAINAGE

The only elevations above the contour interval are along spoil banks and on sand dunes along the beach. These elevations and spot elevations in the marsh were determined by erecting a portable tide gage at the tank battery on Pass Fourchon. All elevations were determined by hand level from water level. The time of hand level readings were recorded and then reduced in reference to the tide gage readings at that time.

Drainage of the area is by bayous and canals and is adequately covered by the photographs and field inspection notes, where necessary.

## 6. WOODLAND COVER

There is no woodland in the quadrangle.

## 7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along the bayous and canals is easily interpreted but has been indicated by symbol at intervals to aid the compiler. The mean high water line along the Gulf beach was located by occasional measurement from identifiable points on the photographs. The remainder of the shoreline is edge of marsh or apparent shoreline.

The mean low water line is synonymous with the mean high water line except along the beach where there is an occasional strip of old marsh outside of the mean high water line which has been shown on the photographs as the mean low water line.

All alongshore features are adequately covered by the photographs and shoreline inspection notes.

## 8. OFFSHORE FEATURES

Maps of the California Company are being submitted which give positions of their offshore drilling locations. The platforms at these locations have also been identified on the photographs.

## 9. LANDMARKS AND AIDS

There are no landmarks in this area.

All aids are adequately covered on photographs and Forms 524 and 567.

## 10. BOUNDARIES, MONUMENTS AND LINES

There are no political boundaries within the quadrangle.

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



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#### 11. OTHER CONTROL

One recoverable topographic station was established at an aid to navigation. One photo point was established to aid in the location of aids to navigation outside the limits of the quadrangle.

#### 12. OTHER INTERIOR FEATURES

There are no roads or bridges in this quadrangle.

All buildings and structures have been shown in accordance with Part II, Topographic Manual.

There is an oil pipe line entering the quadrangle from the west and terminating at Belle Pass. At this point the oil is pumped into barges.

There is an overhead cable near the mouth of Pass Fourchon with a vertical clearance of 90 ft. above the high water mark.

#### 13. GEOGRAPHIC NAMES

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

#### 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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 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. 90-11, Data, Quadrangle T-9884( ), forwarded to Washington Office 4/29/53.

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Three California Company maps; Master Sheet in duplicate, Well Locations in triplicate, and Survey Map of Wells and Shoreline in triplicate.

One sheet of well positions.

Submitted  
27 April 1953

*Charles H. Baldwin*  
Charles H. Baldwin  
Cartographic Survey Aid

Approved & Forwarded  
4/29/53

*E. H. Kirsch*

E. H. Kirsch  
Chief of Party

SCALE FACTOR

[illegible]

DATE 10/14/53

COMPILATION REPORT T-9884PHOTOGRAMMETRIC PLOT REPORT

Submitted with quadrangle T-9865."

31. DELINEATION

Delineation was done by the graphic method. Field inspection was adequate and no difficulty was encountered in the interpretation of the photographs.

The photographs were of fair scale."

32. CONTROL

Reference Photogrammetric Plot Report."

33. SUPPLEMENTAL DATA

Map of the California Co. dated 6 Jan. 1949, showing oil wells in the vicinity of Bay Champagne.

34. CONTOURS AND DRAINAGE

Contours were shown on the spoil banks as indicated by the field inspector.

The drainage has been delineated as photographed.

35. SHORELINE AND ALONGSHORE DETAILS

The mean-high-water line delineated according to the field inspector's notes. All piers and buildings adjacent to the shore have been shown, up until the time of field inspection. The low-water line was shown according to the field inspection.

36. OFFSHORE DETAILS

No unusual problem was encountered in compiling offshore details.

37. LANDMARKS AND AIDS

One fixed aid to navigation has been shown.

38. CONTROL FOR FUTURE SURVEYS

One Form 524 has been submitted and listed under Item 49. It could not be determined in the Tampa Office if station "HUT 1934" still exists even though the 1934 position falls very near a house. (See Form 524)

39. JUNCTIONS

A junction has been made with T-9876 to the north; T-9883 to the west; no contemporary survey to the east or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. PUBLIC LAND LINES

Land lines were reconstructed using G.L.O. plats and holding detail common to both the plats and manuscript.

In T23S, R23E only section 30 has been shown, although sections 5 and 6 may fall on the sheet. Sections 5 and 6 have been omitted temporarily until further investigation by the field editor and the Washington Office. A very large discrepancy exists between Sections 6 and 30 of T 23S, R23E as shown on the plat, and between sections 6 and 30 as it actually appears on the ground.

For further discussion of these land lines see report for Survey T-9876.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with quadrangle "BELLE PASS", 1:31,680 scale edition of 1935.

Comparison has also been made with Planimetric Map T-5303, 1:20,000 edition of 1934. Erosion of 350 meters along the Gulf shore has taken place since the earlier surveys. It will be noted that the detail along BELLE PASS has shifted west on the compilation indicating an error in the radial plot in the 1934 compilation. New canals have been dug throughout the quadrangle and marsh islands have built up in Timbalier Bay.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with USC&GS Charts 1273 and 1274, 1:80,000 scale, edition of May 1938 corrected to 4 August 1952 for the former and 13 August 1956 for the latter. The same differences noted under Item 46 were noted on the charts.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None

*I. I. Saperstein*  
I. I. Saperstein  
Carto Photo Aid

Approved and Forwarded:

*H. C. Applequist*  
H. C. Applequist  
Chief of Party



T-9884.Geographic Names.Bay Champagne ✓Bay Marchand ✓Bayou Lafourche ✓Bayou Tartellon ✓Belle Pass ✓Evans Canal ✓Gulf of Mexico ✓Lafourche Parish ✓Louisiana ✓Pass Fourchon ✓Timbalier Bay ✓

Names approved 11-28-56

L. Heck L.H.

49. NOTES FOR THE HYDROGRAPHER

The following aid "BELLE PASS LIGHT 1953" will be of use to the hydrographer and Form 524 is submitted.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Photogrammetric Review Branch

## NONFLOATING AIDS OR ~~LANDMARKS~~ FOR CHARTS

**TO BE CHARTED**

**STRIKE OUT ONE**

Tampa District Office, Tampa Fla. 24 Sept. 1954

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the charts)~~ the charts indicated.

The positions given have been checked after listing by I. I. Sapozhnikov

# Dr. C. Applequist

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

## PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 9884

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.  
unclassified(a. Classification label 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) J.G. 7. Photo hydro stations XX 8. Bench marks XX  
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. XX 15. Bridges XX 16. Aids to navigation J.G. 17. Landmarks XX 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. Joseph A. Giles  
Joseph A. Giles ReviewerWilliam A. Rasure  
Supervisor, Review Section or Unit, William A. Rasure

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-9884  
November 1957

61. GENERAL STATEMENT

T-9884 was compiled originally from 1952 photographs and 1953 field inspection. Single-lens 1956 photography (as added to page 4) was used in 1957 to apply extensive changes to the original manuscript, without benefit of field inspection or field edit.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-1765	1:20,000	1887
T-6076	1:20,000	1933
T-5303	1:20,000	1934
T-6061	1:20,000	1934

Differences exist between these surveys. The main shoreline changes continuously and additional canals and other cultural features caused by oil drilling and storage have made previous topographic surveys obsolete. T-9884 is to supersede above-listed registered surveys for nautical charting purposes for common areas.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

BELLE PASS, LA., 1:31680, 1935, U. S. Geological Survey. There is considerable lack of agreement with this topographic quadrangle. Reason for differences are causes listed under item 62.

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

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65. COMPARISON WITH NAUTICAL CHARTS CONTINUED

There is good agreement between subject topographic survey and nautical chart 1273; however less favorable agreement with the other two charts. There is lack of agreement between the two nautical charts 1273 and 1274 in a common one minute overlap. The narrow strip of area common to both should be made to agree as soon as practicable and it is recommended also, that chart 1050 be corrected prior to the next printing.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

A careful examination of the 1956 photography preceded the application of appropriate changes in detailing on the manuscript. The lack of a normally desirable field inspection and subsequent field edit does not necessarily indicate deficiencies in adequacy or accuracy.

Reviewed by

*Joseph J. Streifler*  
Joseph J. Streifler

Approved

*L. C. Lande*  
Chief, Review and Drafting Section  
Photogrammetry Division

*Max Skellett*  
Chief, Nautical Charts  
Branch, Charts Division

*Bob J. Bruce*  
Chief, Photogrammetry Division

*W. H. Howell*  
Chief, Coastal Surveys

*pg 8*



## NAUTICAL CHARTS BRANCH

SURVEY NO. T-9884  
1952-56 Rev dated Nov 1957

### 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.**