# 5937

Diag'd. on Diag. Ch. No. 5502

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Air Photo. Compilation

Field No. CS-262-A Office No. T-5937

LOCALITY

State California

General locality San Pablo Bay

Locality Middle Section Napa River

194 1-142

CHIEF OF PARTY

L.D.Graham

LIBRARY & ARCHIVES

DATE Sept 28-1949

8-1870-1 (1)

50037

## DATA RECORD

5937

Quadrangle (II):

Project No. (II): CS 262 -A

Field Office: San Francisco, Calif. Chief of Party: L. D. Graham

Compilation Office: Tampa, Florida Chief of Party: K.G.Crosby

Instructions dated (II III): 9/4/41

Copy filed in Descriptive Photogrammetry Office Files

Completed survey received in office: 10/12/43

Reported to Nautical Chart Section: 10/19/43

Reviewed: 10/21/48 Applied to chart No. 5533 Date: 1/7/47

Redrafting Completed: 4/16/49

Registered: 9/14/49

Published:

9/13/49

Compilation Scale: 1:10,000

Published Scale: ///0,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.H.W.

Reference Station (III): Good Luck Point 2 - 1921

Lat.:38°11'02"099(64.7 m) Long.:122°18'09"801(238.5) Adjusted m. Unadjusted

State Plane Coordinates (VI):

Y æ

Military Grid Zone (VI)

# PHOTOGRAPHS (III)

Number	<u>Date</u>	<u>Time</u>	Scale	Stage of Tide
6437, 6471 6477, 6478, 5579, 5580, 6449, 6431	9/3/41  10 10 10 10 10 10 5/18/41	3:02 3:41 3:51 3:55 1:24	1:10,000 th  tt	4.1' 4.1' 3.3' 3.1' 0.5

Tide from (III): Mean between NAVY YARD, MARE ISLAND STRAIT and NAPA RIVER

Mean Range: 5.0 Spring Range: 6.6 (Diurnal)

Camera: (Kind or source) USC&GS 9 lens (84 focal length)

Field Inspection by: Ensign L.F. Joodcock date: 6/2/42
Lieut.Comdr.S.B.Grenell

Field Edit by: None date:

Date of Mean High-Water Line Location (III): Date of photographs

Projection and Grids ruled by (III) Mash.Office date: 4/8/43

" " checked by: " date: 4/17/43

Control plotted by: J.L.White, Prin.Photo.Aid date: 4/17/43

Control checked by: C.L.Pariseau, Photo.Aid date: 4/19/43

Radial Plot by: Tampa Office Personnel date: May 1943

Detailed by R. J. Pate, Photo. Aid date: July, Aug. Sept. 1943

Reviewed in compilation office by: J.A.Giles, Asst. date: Sept.27-Oct. 1943
Photo.Engr.

Blovations on Field Edit Shoot chocked by:

date:

# STATISTICS (III)

Land Area (Sq. Statute Miles): 17.8

Shoreline (More than 200 meters to opposite shore): 8.9

Shoreline (Less than 200 meters to opposite shore): 77.5

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: 11

Leveling (to control contours) - miles:

Roman numberals indicate whether the item is to be entered by.

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

STATION	SOURCE OF	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FROM GRID OR PROJECTION LINE
Bow of Mr.	(MOLA)		860111'0175"	FORWARD (BACK)		FORWARD (BACK)	FORWARD (BACK)
1945	9.0	1927	122017' 11.85"	1			
NAPA RIVER			38°10' 13.59"	419.0			
BEACON 3, 1922-42	,		122.17 ' 39.52"	962.0			
·			38.10' 06.97"	214.9			
LOW WINDMILL, 1942	,	,	122018'17.24"	419.7			
BARN			38.10' 13.16"	405.8			
NORTH GABLE, 1942	*	*	122018' 10.84"	263.9			
THIWONIM			38010'08.323"	256.6			
STEEL TOWER, 1922	,	*	122019'06.334"	154.2			
NAPA RIVER	-		38°10' 59.48"	6.8881			
BEACON 2, 1922-42	,	;	122018' 26.52"	645.4			
GOOD LUCK POINT 2		,	38.11'02.099"	64.7			
1921	•		122018' 09.801"	238.5			
MAPA BRANCH			360 11 13.002"	6:00+			Rebuilt since
Husan + 1, 1922	,	*	122019' 34.375°	836.6			1922.
GREEN HILLO	, · = 1.		38.12' 06.589"		·		
(92)	*	ų.	122017'17.301"	421.0		,	
GOTTSCHALK	, <del>-</del>		38.12' 12.276"	378.5			
LONE TREE, 1922	*	,	122018' 08.653'	210.5			
CENTER OF			38012' 32.97"	9.9101			
ווע		b I	122018' 21.06"	512.4			
			38012' 47.252"	1456.9	Į.		
DKAZOS, 1921			122018' 25.708"	625.4			

FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS SCACE FACTOR FORWARD review (BACK) N.A. 1927 - DATUM DATE. FORWARD C arin SCALE OF MAP DATUM DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS N 35 (BACK) CHECKED BY .... 100 175.3 1595.0 882.5 4.88.7 FORWARD 1. underlined MAP T. PROJECT NO. 07.205" 1220 18' 36.277" 16.173" LONGITUDE OR x-COORDINATE 38012'51.729 LATITUDE OR y-COORDINATE Station 122.20 38013 DATE. 1927 DATUM ÷ SOURCE OF INFORMATION (INDEX) 6.6 \* YELLOW HOUSE, 1922 FLY HILL 2, 1921 1 FT - 3048006 METER WINDMILL BY STATION COMPUTED BY1...

(BACK)

M-2388-12

# Field Inspections T-5937

The field inspection for the area of T-5937 is covered in the Field Inspection Report, San Pablo Bay Area, California, by L.F. Woodcock and is filed in the Division of Photogrammetry general files.

# COMPILATION REPORT TO ACCOMPANY SHEET NO. T-5937

# CONTROL

Thirteen triangulation stations are plotted within the limits of this sheet, two of which have field inspection points established since the station itself could not be identified on the photographs. They are Green Hill 2-1921 and Fly Hill 2-1921.

Station Napa Branch Windmill 1922 could not be held to on any photograph. It is believed the original windmill has been destroyed and a new one erected in the vicinity of the former location. This is indicated by the information on the picking card. Astalian deleted. Windmill is a known as a

All other stations were easily identified with the exception of Brazos, 1921 which could not be identified definitely on photos 6470 and 6477.

Station LOW WINDITEL, 1942, was not identified on the field print but a triangle was penciled around the area where the windmill is located. Identification of the point could not be certain, as no card was furnished by the field party and the station was not used in the main radial plot. The draftsman later identified it on photographs 5580, 6431, 6432, 6437, and 6478, and it was held to in cutting in additional radial points.

There is insufficient control in the extreme northern corners of this sheet, however, points in these areas established by the main radial plot were held to as additional control with very good results.

Triangulation stations "BOW OF OLD DESTROYER 1942" and "NAPA RIVER BEACON 3-1922-42" could not be held to on photo. 6469. Chamber No. 6 of this photo is very badly matched and double images appear along the junction between chambers 1 and 5. Chambers 5 and 6 were not used in cutting in additional radial points.

Triangulation stations "NAVY YARD STOUGH TRANSITSSION TOWERS" East and West could not be held to on photo 6431. This apparently is due to a bad chamber.

Photograph No. 6437 appears to be very bad in that all triangulation could not be held directly "on". Some stations were touching the line while "NAPA RIVER BEACON 2" and "GOOD LUCK POINT 2" were close but not touching.

On photo. 6478 "NAPA RIVER BEACON 2" could not be held. The station was too hazy on this photo for accurate picking. "GOCD LUCK POINT 2" was shaded on this photo.

# MAIN RADIAL PLOT

A discussion of the radial plot has been made a part of the descriptive report of sheet T-5934. Several radial points were picked in each chamber of the photographs used in the main radial plot, these points being used to advantage in cutting in additional points as they could be held to for secondary control by the draftsman.

Due to apparent distortion in so many photographs, a template was made for each photo from a "paper distortion corrector" template. These templates were adjusted to the photograph chamber lines and cuts through the control taken off. The templates were then adjusted to the control on the survey sheet and chamber lines transferred to the sheet. Ey placing each photograph under the sheet and holding the centers, chamber lines were matched or adjusted where necessary and radial cuts taken through each radial point.

Through this method satisfactory intersections were obtained.

# DETAILING

All photographs used for detailing were exceptionally clear and no difficulty was encountered in delineating vegetation, shore line and marshes.

Two series of photos were used in this compilation. The 5500 series were taken on May 18, 1941 while the 6400 series were taken on September 3, 1941. Streams at Latitude 38° 11', Longitude 122° 17' were detailed from photo 5580 as they appear much wider than in the 6400 series photos.

Field inspection in general was fair, but not thorough.

A number of roads leading to the water front and supplying ranch settlements were classified as 3rd class by the field man, but according to instructions should be 2nd class. There the error was evident without doubt, the classification was changed by the compiler.

In reclaimed areas, now under cultivation, the shapes of numerous streams, now dry, appear on the photographs. Those shapes that appear to no longer serve as drainage, due to construction of levees, have been omitted from the survey sheet. It is noted that roads, in many cases, traverse these old stream beds, without bridges, and it is assumed they are no longer active.

# SUPPLEMENTAL DATA

The War Department, Corps of Engineers, U. S. Army, 1942 Hare Island quadrangle, The U. S. Geological Survey 1927, Hare Island quadrangle, and the U.S.C. and G.S. San Pablo Bay nautical Chart No. 5533 were consulted to supplement field inspection.

# LANDLARKS AND AIDS TO NAVIGATION

There are no uncharted landmarks in this area. Aids to navigation which are on this sheet are listed on Form 567, which is made a part of this report.

# HYDROGRAPHIC CONTROL

There are eleven unmarked stations located by the radial plot that fall in the limits of this sheet. These stations are listed at the bottom of the survey sheet. Also they are listed in Ensign Lorin F. Woodcock's Field Inspection report of the San Pablo Bay area. Filed in Div of Photogram

# GEOGRAPHIC NAMES

Only those geographic names considered so well established as to be correct beyond question are shown on this sheet. This was done in accordance with a letter from the Acting Director dated December 2, 1942, Reference 28-P.F.A. 1990.

Comparison with Existing Topographic Quadrangles

A comparison was made with the following quadrangles: War Department Corps of Engineers, U. S. Army, 1942, Mare Island Guadrangle and the U. S. Geological Survey Auadrangle 1927. Numerous changes were noted in ditches and levees but the features in general are about the same.

The most noted change has occurred in Fly Bay, Latitude 38° 12', Longitude 122° 19' in which a marsh island of considerable size has formed off the northern tip of Coon Island.

Other notable changes are in the main land where formerly shown as marsh are now converted to cultivation.

# COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U. S. Coast and Geodetic Survey West Coast, Calif. nautical chart #5533. A bridge is now shown across Devils Slough, Latitude 38° 10', Longitude 122° 201. The bridge is approached by a second class road on a levee on the west side of the slough.

Cultivation is now shown in the area west of Devils Slough and NE of the station Brazos. These areas are shown as marsh on nautical chart No. 5533.

Bull Island Latitude 38° 13', Longitude 122° 18' is shown as solid ground on the chart but is shown in this compilation as marsh.

A large marsh island is shown on the sheet at the northern tip of Coon Island that does not appear on the nautical chart.

This compilation should supersede the charted information.

Respectfully submitted,

Russell J. Pate.

Russell J. Pate, Photogrammetric Aid

Forwarded by:

Kenneth G. Crobby,

Chief of Party

Form 567 (Rev. April 1942)

Non-floating Aids to or COMMERCE Navigation DEPARTME

U. S. COAST AND GEODETIC SURVEY Sheet No. 1-5937



# LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED FOR SELECTION

Tampa Photogrammetric Office 9/27'

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (HERECHAREM) the charts indicated. The positions given have been checked after listing.

				<b>14</b>	Renneta G.	i I	Crosby		Chie	Chief of Party.
GENERAL Napa River, Calif.			POSITION		1				ТЯАН	
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if redetermined, shall be reported on the form. The data should be considered for the survey sheets. Information under each condum heading should be given. This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted charts of the area and not by individual field landmarks and nonfloating aids to navigati

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# DIVISION OF PHOTOGRAMMETRY Review Report of . Planimetric Map Manuscript T-5937

Subject numbers not used in this review report have been adequately covered in other parts of the Descriptive Report.

# 26 Control

All triangulation stations falling within the limits of the map manuscript are listed on Form M-2388-12, now attached to the Descriptive Report. (The station underlined in red was added during review.)

# 28 Detailing

Only minor changes and additions were necessary to complete the map manuscript. A narrow margin of detailing was added on the west limit of T-5937 from adjoining map manuscript T-5939 to complete all detailing to 122° 21' longitude, which represents a better common junction.

# 44 Comparison with Existing Topographic Surveys

T-777	1:10,000	1858
т-4018	1:10,000	1922
T-4019	1:10,000	1922
T-4020	1:10,000	1922

The more permanent of prominent features common to these surveys and T-5937 are in good agreement. These surveys are superseded by T-5937 in all common areas, except for contours.

# 45 Comparison with Nautical Charts

5533 1:40,000 1940 (48- 3/8)

# 51 Application to Nautical Charts

This map manuscript has been only partially applied to Nautical Chart 5533 as of the date of this review report.

Reviewed by:

J. J. Streiflør 10/21/48

T-5937 Page 2

Approved by:

Whief, Nautical Chart Branch, Division of Charts

K. T. Adams, Chief, Division of Photogrammetry

# NAUTICAL CHARTS BRANCH

# SURVEY NO. 75937

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/7/47	5533	M Gann	Before After Verification and Review Cartially
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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.