5930

Diag. Cht. No. 5530-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC
Field No. Office No. T-5930
LOCALITY
California State
General locality San Pablo Strait
Locality San Rafael and Vicinity
194 1-143
CHIEF OF PARTY

CHIEF OF PARTY
R.J.Sipe, Chief of Party
G.E.Morris, Jr., Tampa Photo Office

LIBRARY & ARCHIVES

DATE February, 1950

3-1870-1 (1)

Part applied 6/20/47

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1- 5930

Quadrangle (II):

Project No. (II): 262-C

Field Office: San Francisco, Cal. Chief of Party: E. H. Pagenhart

George E. Morris Jr. Compilation Office: Tampa. Florida Chief of Party: Lt. Comdr.

Instructions dated (II III): 8 Feb., 1944

Division of Copy filed in Descriptive

Report No. T. (VI)

Photogrammetry Office
Files

Completed survey received in office: 4.25-46

Reported to Nautical Chart Section: April 46

Reviewed: 8-24-48 Applied to chart No. 5532 Date: 6-20-47

Redrafting Completed: 8-39-49

Registered: 12-19-49

Published:

Compilation Scale: 1:10,000

Published Scale: /./o 000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.S.L.

Reference Station (III): Pow, 1916, 1917

Lat.:37°58'12.620"(389.lm long.: 122°29'41.572"(1014.7m)

State Plane Coordinates (VI): Colifornia 3rd Zone

X =

Y z

Military Grid Zone (VI)

PHOTOGRAPHS (III)

	Number	Date	Time	Scale	Stage of Tide
	6391	9-3-41	1:05	1:10,000	ti 4.9
.	6392	9-3-41	1:05	n	+ 4.9
	6393	9-3-41	1:06	. #	+ 4.8
	6394	9-3-41	1:06	Ħ	+ 4.8
	6447	9-3-41	3:12	tt	+ 2.8
	6lili8	9-3-41	3:1 <u>2</u>	tt v	+ 2.8
	وبلبا6	9-3-41	3:13	11	 ≱22.8
	6450	9-3-41	3:14	# .	4 2.8
	6451	9-3-41	3:15	ij	+ 2.8
_	6491	9-3-41	4:13	17 17	+ 2.3
=	14:87.3	6-2-43	会計	11	† ∦• ≥
-	Tide From	(III): San Fran	01900	•	T 4•フ

Mean Range: 4.1

checked by:

Spring Range: 5.7

Camera: (Kind or source) U.S.C.& G.S. 9 lens 8 1 focal length

Field Inspection by: E. J. Pagenhart

date: 1943

Field Edit by: None

date

date:

Date of Mean Highewater Line Location (III): Date of Photograph

Projection and Grids ruled by (III)	$B_{e}R$ C - S R	date: Dec. 14, 1944
n n checked by:	B R C	date: Dec. 15, 1944
Control plotted by:	M.M.S.	date: March 3, 1945
Control checked by:	B.H. Lyon	date: March 1945
Radial Plot by:	B.H. Lyon	date: March 14, 1945
Detailed by: V.S. Simmons and R.	Dossett	date: Feb. & March, 194
Reviewed in compilation office by:	J.A. Giles	date: April 1946
Manuscript Elevations on Field Edit Sheet	•	data

STATISTICS (III)

Land Area (Sq. Statute Miles): 19.9

Shoreline (More than 200 meters to opposite shore): 9.3

Shoreline (Less than 200 meters to opposite shore): 6.4

Number of Recoverable Topographic Stations established: 7

Number of Temporary Hydrographic Stations located by radial plot: None
Leveling (to control contours) - miles:

Roman numerals 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:

Field Inspection

Field inspection for the area of T-5930 is covered in the Field Inspection Report for T-5926-29-30-32 by E. H. Pagenhart.

This report is filed in the Division of Photogrammetry General Files.

MAIN RADIAL PLOT SHEET No. T-5930 Project C.S. 262-C PARTIAL.

26 and 27.

The projection for this sheet was received in this office on 25 August, 1944. Control was carefully plotted and checked by members of the control section, using the beam compass and meter bar method.

A circle, with a fourteen inch radius, was drawn upon each photograph in order to facilitate the use of the central portion of each photograph in preference to the outer extremities. Pass Points were picked as nearly as possible in a scheme of quadrilaterals five inches on a side in order to strengthen the graphic control scheme. Extreme care was exercised in plotting primary control on the photographs, and this was done without regard for the fourteen inch circle.

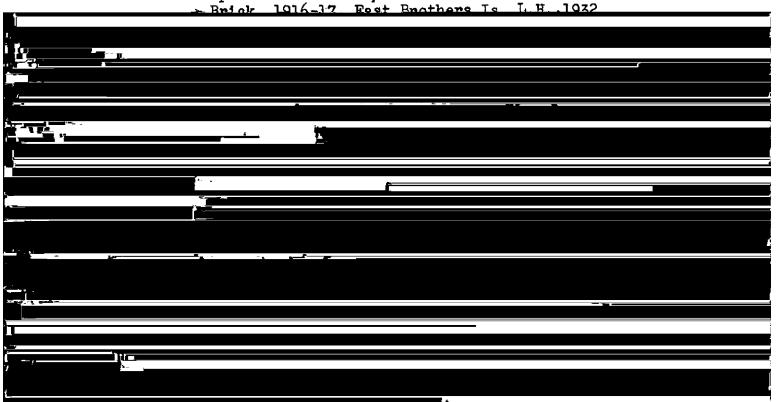
All azimuths between centers were established by means of the stereoscope and radial liner method.

The photographs used for this plot were printed on unmounted, acetate impregnated paper; therefore, it was necessary to treat for the effect of paper distortion. This was accomplished by means of the distortion templet, constructed from non-shrinking vinylite material.

A discussion of the main radial plot follows:

A. CONTROL

The following control stations were used to control this plot:



C. CLOSURE AND ADJUSTMENT

Regular procedure was followed in laying templets, with strongest fixes first, then progressively laying through templets with weaker fixes. Tilt was not sufficient to warrant computation.

All azimuths to adjacent centers were held and excellent intersections were obtained throughout.

D. AREAS OF QUESTIONABLE ACCURACY.

It is believed that all parts of the plot fall well within the limits of prescribed accuracy.

E. GENERAL.

at 4.

Pass Points were picked on the sheet and shown by double blue inked circles of 2.8 millimeters radii. Centers were shown by double blue inked circles and 4.0 m.m. and 2.8 m.m. radii. The sheet was released to the draftsman for the addition of detailing points which are to be shown in blue ink with 2.0 m.m. circles.

Respectfully submitted,

Bennie H. Lyon,

Asst. Photogrammetric Eng.

Approved and forwarded.

Lt. Comdr. George E. Morris, jr. Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T-5930 - Project C.S. 262-C

26 and 27 CONTROL AND RADIAL PLOT

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situated approximately 500 meters and 900 meters respectively south-west of the "The Brothers" islets. These rocks are shown on U.S.C.& G.S. chart 5532, published Dec. 1943.

The approximate positions of these two rocks are shown on this compilation as they could not be identified on the photographs for location by radial line intersection.

33 WHARVES & SHORELINE STRUCTURES.

All docks, wherees and other shore line structures noted by the field inspection have been delineated accordingly.

34 LANDMARKS AND AIDS TO NAVIGATION.

All landmarks and aids to navigation identifiable have been listed on form 567 and made a part of this report. Refer to Charl Little #152 (1946) Div. of Charts files.

On field print 14020 the field inspector has shown several aids to Navigation and labeled them "Pile - aid to navigation". Presumably these are dolphins acting as guides to the entrance to San Rafael Creek. These dolphins were not identifiable on a sufficient number of photographs to permit location by radial line intersection and perforce have been left for investigation by the Hydrographer.

Another on the same print labeled "Range Control Hut, Aid to Navigation" has been treated likewise.

35 HYDROGRAPHIC CONTROL.

Instructions to field party dated Feb. 8, 1944, state that no hydrographic stations need be selected.

36 LANDING FIELDS & AERONAUTICAL AIDS.

One partially completed landing field in the vicinity of Venetia Harbor on Gallinas Creeks appears on the photographs. The field inspector notes that this field has been abandoned.

ЦЦ COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES.

A comparison was made with U.S.G.S. Quadrangle, "San Francisco" surveyed in 1892-94. The scale of this Quadrangle is too small for a favorable comparison. The shoreline, however, is generally the same except for the elimination of marsh areas, particularly in the vicinity of San Pedro Point, where the large marsh area is now almost completely gone and replaced with high terrain and fast shore line.

45 COMPARISON WITH NAUTICAL CHARTS.

A comparison was made with U.S.C.& G.S. Nautical

Chart No. 5532.
No outstanding changes other than those described under paragraph his were noted.

Respectfully submitted,

Prin. Photo Aid.

Approved and Forwarded:

Chief of Party

Description of Recoverable Top. Statem

11 - Forms 524

- BM 8 (1937)

- R.V. 216 (N.W.P.R.R)

- B: 35 (U.S.G.S.)

B.M. 11 (1936)

_ .W. 107

- Mª Near

F.108

- 1 108

0 108

13.M. 10 (1936)

- R.V. 218 (N.W.P.R.R.)

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n Pablo Bay	,	•				r(<u></u>					3
San Pablo Strait		· · ·			<u> </u>		1				4 -
San Rafael Bay											5
Point San Pedro					<u> </u>		-	_			6
San Pedro Hill	· •									ļ	7
Chine Camp	٧٠										8
The Sisters		•									9
The Brothers	/.								,		10
Whiting Rook	<u>/.</u>	. (submer	god)				•			11
Invincible Rock	٠ ــ		17					18			12
San Rafael Rook	٧.										13
Marin Islands	/.										14
San Rafael Creek	• •	~	,		· ·						15
San Rafael	/ ·	•									16
California Park											<u>17</u>
Kentfield	/.										18
Dominican College	<u>, </u>	•									19
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Division of Photogrammetry Review Report of Planimetric Map Manuscript T-5930

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

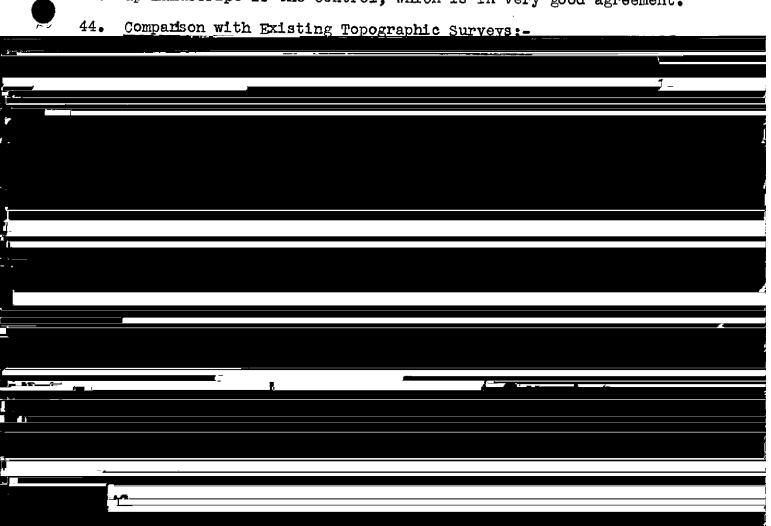
- 26. Control.-The intersection station, Pedro, 1941 (no check) has not been shown on the map manuscript. It is not a permanently marked station and it was not recovered during the field inspection.
- 28. Detailing. The compilation was incomplete and in many instances the planimetry was depicted inaccurately. Several of the photographs used for detailing were not available to the reviewer. However, the reviewer made the necessary additions and corrections from the source material available and since there was sufficient coverage for the entire shoreline it was not deemed necessary to order new prints to obtain complete coverage.
- 43. Comparison with Contemporary Hydrographic Surveys:-

H-6725

1:5.000

1941

The only feature common to this hydrographic survey and the map manuscript is the control, which is in very good agreement.



APPROVED BY:

S. V. Griffith Chief, Review Section
Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

Chief, Div. of Photogrammetry

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>7593</u>0

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/20/47			Before After Verification and Review
			Partially applied
8/14/50	5532	f-4 Mc Jann	Before After Verification and Review
	7 · a=	A	Partially applied.
1953	Riconstr. 5533	Daugherty.	After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
<u> </u>			Before After Verification and Review

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.