

4022

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MAY 18 1922

Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: CALIFORNIA.

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. (11) 4022

LOCALITY:

San Pablo Bay. - South Shore

Pt. San Pablo to Pt. Wilson.

1921, 22.

CHIEF OF PARTY:

F.G. Angle, O.W. Swainson.

2204

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4022

*Field No 11*

State . . . . . CALIFORNIA . . . . .

General locality . . . . . SAN PABLO BAY — South Shore . . . . .

Locality . . . . . Pt. San Pablo to Pt. Wilson . . . . .

Chief of party . . . . . P. G. Engle, . . O. W. Swainson . . . . .

Surveyed by . . . . . R. F. A. Studds, . . L. M. Mewer. . . . .

Date of survey . . . . . Oct., Nov. 1921. . . . .

Scale . . . . . 1 to 10,000 . . . . .

Heights in feet above . . . . .

Contour interval . . . . . feet.

Inked by R. F. A. S., L. M. M. Lettered by R. F. A. S., L. M. M. . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet Three accompanying  
prints.

Remarks: *See accompanying chart*

DESCRIPTIVE REPORT

To accompany topographic Sheet No. -

San Pablo Bay.

Pt. San Pablo to Pt. Wilson.

Revision under instructions dated June 1, 1921.

This report is divided into two parts. Part I covers that portion of the sheet surveyed by R. F. A. Studds, Jr. H & G L. Part II is for the remainder of the sheet, surveyed by L. M. Lower, Jr. H & G E.

PART I.

Part I of this sheet extends from pt. Wilson or  $\Delta$  Wilson to  $\odot$  Outer Water Well, or Lat.  $37^{\circ} 59'$ , Long.  $122^{\circ} 22'$ , approximately.

The work was done by a party of 1 officer and three seamen, from Oct. 27 to Nov. 4, 1921. They were quartered ashore during that time, returning on Saturday to the ship at Vallejo by train, and returning to the working grounds on Monday by the ship's launch.

The work consisted of examining the chart of that vicinity, and running in on the topographic sheet any feature which was not shown. The bromide copy furnished of that locality was so old, and there was so much detail on it that it could not well be used. This applies especially to that portion of the sheet covered in Part II of this report.

On account of the large number of  $\Delta$ 's available, no traverses were run, - the topographer checking each setup by two or more points.

A number of plane-table positions were established. These are given in an accompanying list.

Attention is called to the following changes:

On the latest edition of Chart 5533, the two pipe line docks that were formerly on the N.E. corner of Pt. Pinole, are removed. The piling for a portion of these docks, however, is still in, including the pile at the farthest extremity of the two docks. As the piling is a menace to navigation, it is suggested that they be shown by broken lines on the chart.

The town on "Mitro" as shown on the chart is no longer there, - the whole of Pt. Pinole being owned and operated by the Giant Powderworks Co.

A high fence line, enclosing their property, was surveyed and is shown on the topographic sheet. On the S.E. end of their property is a water-pipe line, laid on piling, which extends for about a mile to the south, terminating at three water wells, also owned by the Giant Powderworks Co.

About half a mile inshore from the last point is a new station on the A.T. & S.F. Ry., called "Rheem", which was probably created to accommodate employees of the Pacific Plumbing Fixtures Co., whose plant is shown nearby.

The highway which parallels the railroad at this point is shown by a dashed line on the chart. As this is a county road and well paved, it is suggested that it be shown as a first class road.

There is an excellent landmark at Pt. Pinole, which is not at present on the chart. It is a high water tank, shown on the topographic sheet by the  $\Delta$  tank, Pt. Pinole. This tank can be seen almost anywhere in San Pablo Bay and from a portion of the northern part of San Francisco Bay.

Two prints accompany Part I of this report. Print #1 gives the details of the Giant powderworks Co's plant at Pt. Pinole. Print #2 gives the layout of the Standard Oil Co's tank farm, about a mile inland from Giant. These numerous tanks are on hills and are quite prominent from San Pablo Bay.

O. W. Swainson,  
H. A. C. Eng'r.,  
Chief of Party.



R. F. A. Studds,  
Jr. H. A. C. E.,  
Topographer.

## PART II.

Part II of this sheet begins at @ Outer Water Well and extends to the Standard Oil Plant at Richmond. It consisted almost entirely of work in Castro Slough.

The work was done by one officer and two men from Nov. 6 to Nov. 10. Quarters were secured at Richmond, the party returning to Vallejo Saturday.

The work is merely the finishing up of the sheet started by Mr. Studds, a description of same being appended.

The principal changes are the rapid advance of shore line of the marsh westward, the Standard Oil Slough, and the non-existence of  $\Delta$  3 Gable Warehouse. As I stated in my descriptive report of Pt. Wilson to Lone Tree Pt., the bight seems to be filling in and the shoreline advancing westward. The Standard Oil Slough with a depth of 30 ft.

(cont.)

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was not intended for navigational purposes, but merely to use the excavation for fill purposes. The 3 Gable Warehouse was formerly a characteristic landmark, but it has entirely disappeared.

I enclose one large tracing of the S.O. Co's plant at Richmond and also a part of the chart showing the change made by the Standard Oil Co. This was furnished me by Mr. A.D. Russell, Chief Engineer, S.O. Co., Richmond, Calif. It is respectfully suggested that he be furnished a copy of the new chart when it is issued as an acknowledgement of his many kindnesses.

Respectfully,

O.W. Swainson,  
H & G Eng'rs.,  
Chief of Party.

*L.M. Mower*  
L.M. Mower,  
Jr. H & G E.,  
Topographer.

## LIST OF PLANNED POSITIONS

To accompany Topographic Sheet No. -

*These values  
should be checked  
ours*

## SAN PABLO BAY

Pt. San Pablo to Pt. Wilson.

## Part I

Object & Description	Latitude		D.L.		Longitude		D.P.		Remarks
	o	'	meters		o	'	meters		
Cupola on shack	38	00	211	122	20		97		Top
Windmill	38	00	338	122	20		1439		Center of wheel
S.Gablo, wharf ho.Pinnale Pt.	38	00	1730	122	21		1110		Top
W.Gablo, wharf ho.Pinolo pt.	38	00	1736	122	21		1154		Top
Tall black stack,pdr.wks.	37	59	1783	122	21		907		Center
Flag-pole, Giant pdr.wks.	37	59	1304	122	21		672		
Sq.Wooden Tower #2 S.O.Tank farm	37	58	1806	122	20		1403		Center
Sq.Wooden Tower #3 S.O.Tank Farm	37	59	718	122	20		593		Center
Sq.Wooden Tower #4 S.O.Tank Farm	37	59	493	122	19		1035		Center
Tank,Pac.Plumbing Fixtures	37	58	1023	122	21		244		Top
Outer Water Well,	37	58	1597	122	21		1400		Center
White Sign 1 (in water)	38	00	46	122	22		353		Center
White Sign 2 "	37	59	1507	122	22		680		Center
White Sign 3 "	37	59	1076	122	22		825		Center
White Sign 4 "	37	59	787	122	22		906		Center

## Part II.

Flag-pole, S.O. Club house	37	57	673	122	24		876		Center
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