

3654

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

State: CALIFORNIA

11-5813

DESCRIPTIVE REPORT.

Top. Sheet No. 3654.

LOCALITY:

San Francisco Bay, Northern

Part — Pt. Richmond 15

Pt. San Pedro

1917

CHIEF OF PARTY:

L. O. Colbert

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
E. Lester Jones, Superintendent.

DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC SHEET ~~3654~~ 3654.

REVISION OF TOPOGRAPHY
of
SAN FRANCISCO BAY

Surveyed under the direction
of

L.O. Colbert, Assistant.
Chief of Party

by

H. T. Kelsh, Assistant,

Jan. 1917.

Scale. 1 : 10,000.

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

E. Lester Jones, Superintendent.

Descriptive Report to accompany Topographic Revision Sheet N. _____
of
San Francisco Bay.

Limits of Sheet:-

This sheet embraces the shoreline of the west side of San Francisco Bay from north of Point San Quentin to Point San Pedro and the Sisters Island; and the eastern shore from Point San Pablo to Point Richmond.

Methods of Survey:-

The work was controlled by a number of triangulation signals, chiefly the following; Southampton Shoal Lighthouse, Red Rock, East Brothers Light, San Raphael Rock (not marked), and East Sisters Rock (not marked.)

The survey was started by occupying Southampton Shoal Lighthouse and Red Rock and cutting in all the objects visible from these places, and then running short traverses between the stations so determined. Due to the scale used (1 : 10,000) only a few three point fixes could be used, as the signals fell off the table top. and while quite a few objects were determined by the triangulation revision party that would have been of use and would have expedited the work of the topographic party, as well as increasing the checks and consequent accuracy of the work, these points were not determined until after the topography had been done.

The points determined by the topographic party were transferred to the hydrographic sheets, and were used as the base for that work.

No important objects were sketched, and all buildings were well located, those on the beach front by direct readings and the others by cuts. Those parts of the roads which were sketched have been noted on the sheet. Shoreline which was inspected but not rerun, has been shown in dashed lines. Notes describing all features not perfectly clear will be found on the sheet.

Methods of Survey:- Continued.

There is some unavoidable repetition of old work, in as much as the only data furnished was the old chart in a 1:40,000 scale, on which small changes were not noticeable.

The survey was made by a party of three; the observer and two rodmen, with an additional man to run the launch that was necessary to go from place to place. There is no other convenient means of travel to most of the shoreline on this sheet, particularly on the west side.

Scale of Sheet:- 1 : 10,000.

Detailed Description of Shoreline:- West Side:

On the north side of Point San Quentin there were no changes, and the shoreline west of San Raphael Rock is from inspection the same. There is a high voltage power line running along the shoreline with very prominent steel towers; this is shown on the sheet. A small drainage ditch runs along in back of the towers, and the dirt banks have been beaten into a footpath for travel along the line. The steel tower just south of San Raphael Creek is the highest and stands out very prominently.

The entrance to San Raphael Creek was rerun. Just around the point to the east of this there is a small bulkhead, and the ground behind has been drained.

The small pond on the point north from the west end of Marin Islands still remains. It is marshy and overgrown. There are a few houses on the south side of this point.

There is a wooden bulkhead running most of the way around the next bight. A large brick-yard stands on the east side of the bight with three tall prominent chimneys,

There is no wharf projecting from the tip of the point south of Point San Pedro as shown on the chart, but the quarry wharf to the east is still there. A small fill has been made on the east side of Point San Pedro.

The quarry around the point was rerun.

A small portion of the shore of East Marin Island was rerun, as there are a number of small houses there.

Detailed Description of Shoreline, East side of Bay:-

On the east shore of the Bay the houses around the light on Brothers Island were put in.

The Richmond Belt R.R. wharf has apparently been changed, and is to be changed again. The south end is to be extended out to the line of the Standard Oil Dock to the southward.

The Standard Oil dock is now different, and there is one more small tank on the side of the hill. This place is called Point Orient. The wharf at Winehaven is apparently the same, but was rerun; also the group of buildings.

The pier shown on the chart about 200 meters to the south of the main pier is gone.

The shape of Molate Point has been changed, due to the fill from the quarry. The south side of the point and the shoreline to Castro Point is the same except that the group of buildings and small piers in the bight are gone. These were only temporary structures.

The quarry on the south side of Castro Point was rerun; also the oil dock.

The shoreline in front of the town of Point Richmond was examined but not rerun. The town is now building over the hill and approaching the water. There are numerous houses visible on the ridge and hillside, but as all are of the small wooden bungalow type no attempt was made to locate them other than to give a general idea of their number and location.

A road now follows the shore in back of the railway fill to Point Richmond, and parallels the tunnel through the hill.


Back in the next bight is an old brick-yard apparently abandoned. Just south of the point is the new Richmond Municipal pier with a large concrete house on it; this is quite prominent from the Bay. South of the point is the Los Angeles Pressed Brick Co. There is only one small pier here now, shaped as shown on the topographic sheet. There is a small quarry about 300 meters south of the brick-yard. From here to Shoal Point there is no apparent change.

Contours:-

No contours were run as the chart is very thoro in this respect.

Prominent Objects Tabulated:-

A few prominent objects have been tabulated in the list of plane table positions attached, but the more prominent ones have been located by the triangulation party and are listed in the triangulation data.

There are many points along the shore such as pier ends, small tanks etc., which are visible for only a short distance, which while well located have not been listed, as the number of prominent and permanent objects and  stations in this vicinity is ample for any survey.

Statistics of Field Work:-

Area surveyed in square miles	
Length of general coast line in statute miles.	12
Length of shoreline of Rivers		—
Length of shoreline of Creeks		—
Length of shoreline of Ponds		—
Length of Roads in statute miles.	9
Topographic sheets finished, number of,	1
" " " , scale of ,	1:10,000.

Respectfully submitted,

Approved,

L.O. Polkett.

Harry T. Kelly Jr.

Assistant, C. & G. Survey.
Compiler

Assistant, C. & G. Survey.
Chief of Party.

List of Plane Table Positions:-

Object & Description	Latitude	D.M.	Longitude	D.P.	Remarks
Flag Pole	37 - 58	1370	122-28	1223	
Chimney (lowest of three at Brick Works	37 - 59	22	122 - 27	1042	
Chy. at Brick Works	37 - 59	00	122 - 27	1002	
High black Pipe Fertilizer Works	37 - 58	1643	122 - 27	860	
Black Chy. 40' high. At Quarry	37 - 59	140	122 - 27	238	
Outer Gable of Shed on Wharf at Mc Nears	37 - 59	910	122 - 27 ⁶	1373	
(Tak.) Black Iron stack power house.	37 - 57 ⁷	1106	122 - 25	697	
(Lak) Small white tank	37 - 57	840	122 - 25	564	
Crusher at quarry. middle of face	37 - 56	1534	122 - 25	463	
Outer end of Conveyer	37 - 55	1726	122 - 24	782	
End of Ferry slip & lt.	37 - 55	1689	122 - 24	738	
Square Brick Chimney	37 - 55	1482	122 - 23	1425	
White Pole, corner of oil wharf.	37 - 55	670	122 - 24	850	
Outer gable house on corner of wharf.	37 - 55	687	122 - 24	796	
Gable of house in bight on shoreline	37 - 55	1138	122 - 23	720	

DEPARTMENT OF COMMERCE

Topographic Sheet C

Revision of Topography
of

San Francisco Bay

surveyed under the direction
of

L. O. Colbert, Assistant
chief of Party

by

H. T. Welsh Assistant

Jan 1917

Scale $1/10,000$

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. 3654

State California.

General locality . . . San Francisco Bay. - Northern Part.

Locality Pt. Richmond to Pt. San Pedro
~~On eastern shore, from Pt. San Pedro to Pt. Richmond and on~~

~~western shore from Pt. San Quentin to Pt. San Pedro~~
Chief of party . L. O. Colbert.

Surveyed by . H. T. Kelsh.

Date of survey . January, 1917.

Scale 1:10000

Heights in feet above

Contour interval None . feet.

Inked by H. T. Kelsh . Lettered by H. T. Kelsh.

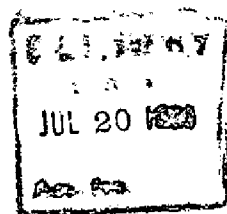
Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks:

3654^a



3654
1503

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <i>California</i> <small>11-5613</small>
DESCRIPTIVE REPORT. <i>Topo</i> Sheet No. <i>3654^a</i>
LOCALITY: <i>San Francisco Bay,</i> <i>Northern Part,</i> <i>Pt. Richmond - and -</i> <i>Pt. San Pedro.</i>
<i>1920</i>
CHIEF OF PARTY: <i>F. G. Engle, H. G. E.</i>

Descriptive Report

To accompany Topographic Sheet #3654.

San Francisco Bay, Northern part, Point Richmond and Point San Pedro.

Revision under instructions dated July 25, 1919.

This sheet is a bromide copy of Colbert's revision of 1917. The work consisted of examining the copy and making the alterations with the aid of the planetable. Mr. R. F. A. Studds, Jr. H. & G. E., and two men from the deck comprised the party which did this work. They were quartered ashore at Point Richmond, leaving the ship on Monday and reporting back Friday night of the same week.

No traverses were run, the topographer locating himself when necessary by the aid of contiguous topography, or such signals as could be used. No planetable positions were established.

There were no important changes on this sheet, with the exception of an extension to the Winehaven Wharf, located a little north of Molate Point.

This sheet was only completed from Point Richmond to Point San Pablo. The west side of the sheet was not revised, due to orders received by the Commanding Officer to lay up for repairs.

No prints accompany this sheet. Changes in the streets of Richmond are shown on a map of that city which accompanies sheet #3653.

*R. F. A. Studds,
Jr. H. & G. E. U.S.C. & G.S.*

Approved:

H. G. Cagle
HYDROGRAPHIC & CHIEF OF PARTY, C. & G.S.
CHIEF OF PARTY, C. & G.S.

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.

REVISION

Register No. 3654^a

State California
General locality San Francisco Bay. - Northern part.
Locality Richmond to Pt. San Pedro. . .
Chief of party F. G. Eagle.
Surveyed by R. F. A. Studds.
Date of survey April, 1920.
Scale 1 to 10,000
Heights in feet above
Contour interval feet.
Inked by . R. F. A. S. . . Lettered by . R. F. A. S.
Records accompanying sheet (check those forwarded): Photographs,
✓ Descriptive report, Horizontal angle books, Field computations,
Data from other sources affecting sheet . . . none

Remarks:

3654 ^b

U. S. COAST AND GEODETIC SURVEY
L. & A.
MAY 18 1923

Acc. No.

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
State: CALIFORNIA	
11-5013	
DESCRIPTIVE REPORT.	
Topog	Sheet No. 12 ^b 3654
LOCALITY:	
Pt. San Pedro to Grovo point	
San Pablo Bay	
1921	
CHIEF OF PARTY:	
F. G. Engle	

Revision Survey from Point San Pedro to Grove Point
San Pablo Bay, Cal.

1. This work was started Oct. 19, 1921 and finished Oct. 21, 1921 under instructions dated June 1, 1921, one officer and two men living ashore at a farmhouse near Galinas and getting around to the work by means of a machine hired at this place.

2. The work was carried out on the accompanying bromide print, scale 1-10,000. Old details no longer existing were crossed out in blue ink and new details put on in red. Positions were determined by plane table from three point fixes.

3. There is no change of shore line to speak of except for the few additional patches of grass as shown and the only other additions of note are the new road following the shore line and the new dock at the fishing camp.

4. There were no recoverable plane table positions determined.

Wm. H. Overshiner

Wm. H. Overshiner,
Jr. H. & G. Engr.

3654^b

A. & O. SURVEY

JUL 26 1921

1921

Form 501

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: California

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. 3654

LOCALITY:

San Francisco Bay

Northern Part - Pt. San

Quentin to Pt. San Pedro

1921

CHIEF OF PARTY:

F. G. Engle

DESCRIPTIVE REPORT.

To accompany Topographic Sheet #3654

San Francisco Bay, Northern Part.
Point San Quentin to Point San Pedro.


Revision under instructions dated Nov. 24, 1920.


This sheet is a portion of a bromide copy of Colbert's revision of 1917. The east side of the sheet was revised in the season of 1919-20 under instructions dated July 25, 1919.

The work, begun and completed on April 8, consisted of examining the copy and making the alterations with the aid of the planetable. One officer and three men comprised the party, making use of the whaleboat.

No traverses were run, the topographer locating himself when necessary by the aid of signals. No planetable positions were established.

A new dock has been built a little north of the ferry slip at Point San Quentin. No other important changes have occurred.


F.G. Engle,
H & G E.,
Chief of Party.


R.F.A. Studds,
Jr. H & G E.,
Topographer.

DESCRIPTIVE REPORT.

To accompany Topographic sheet #3654

San Francisco Bay, Northern Part.
Point San Quentin to Point San Pedro.

Revision under instructions dated Nov. 24, 1920.

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R.F.A. Studas,
Jr. H & G E,
Topographer.



F.G. Eagle,
H & G E,
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

REOPOR ON TOPOGRAPHIC SHEETS 3654 ^a & ^b

Surveyed in 1920 and 1921.

Chief of Party: F. G. Engle. Surveyed by R. F. A. Studds.

Inked by R. F. A. Studds.

1. The plan and character of the work fulfill the requirements of the General Instructions and satisfy the specific instructions. The changes should have been noted in color on 3659^a so that they might be easily distinguished from the old work.
2. The extent of the revision satisfies the specific instructions except that the approaches to Ellis Slough were not resurveyed. This area has not been surveyed since 1898 and the instructions directed that the work be done on a separate sheet. The delineation of the changes in the shoreline particularly is desired.
3. A tracing of a survey by the U. S. Engineers of Ellis Slough was forwarded to the office with hydrographic sheet 3928. The tracing did not show the date of the survey nor the plane of reference.
4. No further surveying is required except at the mouth of Ellis Slough.
5. The character of the surveying and field drafting are good.
6. Reviewed by E. P. Ellis, October, 1921.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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U. S. Coast and Geodetic Survey.

Register No. ⁶3654

State CALIFORNIA

General locality San Francisco Bay

Locality . . Northern Part, Pt. San Quentin to Pt. San Pedro.

Chief of party F.G. Engle

Surveyed by R.F.A. Studds

Date of survey March, 1921.

Scale 1. to 10,000.

Heights in feet above

Contour interval feet.

Inked by . . R.F.A.S. . . Lettered by . . . R.F.A.S.

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . None.

Remarks:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Charts

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. (12) **3654^b**

*Field Sheet
No. 12*

State California

General locality San Pablo Bay

Locality Point San Pedro to Grove Point

Chief of party F.G. Engle

Surveyed by Wm. H. Overshiner

Date of survey Oct. 19-21, 1921

Scale 1-10,000

Heights in feet above

Contour interval feet.

Inked by W.H.O. Lettered by

Records accompanying sheet (check those forwarded): ~~Photographs,~~

Descriptive report, ~~horizontal-angle-books,~~ ~~field computations,~~

Data from other sources affecting sheet *See accompanying chart*

Remarks: