

4648

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Fatten, Director

State: *California*

DESCRIPTIVE REPORT

Aero-

Topographic

Hydrographic

Sheet No. 4648

LOCALITY

San Francisco Bay -

Dumbarton Point to

Coyote Hill Slough

1932

CHIEF OF PARTY

O. S. Reading

Descriptive Report
Sheet No. T-4648,
San Francisco Bay
Dumbarton Point to Coyote Hill Slough

This sheet is a compilation of five-lens air photographs taken by the Army Air Corps. It is compiled from two separate flights, the "D" and "W" flights.

CONTROL

Triangulation stations used to control this sheet were established by field parties in 1925, 1930, and 1931. No supplementary control traverses were available for this sheet.

COMPILATIONS

The projection was made on celluloid to the scale of the photographs of flight D, which was 0.90 x 10,000. Flight W had a scale factor of 0.98. The plot was made directly from the pictures. In order to trace the detail from flight "W", however, photostats were made of alternate pictures from which the tracing was done.

Some difficulty was experienced in locating points ^{mid} ~~underway~~ between the centers of the two flights, the intersections in a good many cases overlapping rather than coinciding in a direction transverse to the direction of the flight. In these instances a point was taken between the overlapping intersections a proportionate distance from the centers of the two flights. A check with nearby triangulation stations in some cases showed no appreciable error, and it is believed that the plot is well within the limits of accuracy.

A check on the accuracy of the plot was furnished by the triangulation station White Tank, Holly Sugar Co., 1931. The plot showed this station (a no-check station) to be in error, and a field check on the station by Lieutenant Raynor gave a new position of the station which agreed with the one obtained from the plot.

Difficulty was found in identifying buildings in the neighborhood of the Morton Salt Company on the southeastern part of the sheet, and so these buildings were not traced on the sheet, the omission being indicated thereon.

Portions of topographic sheet No. 4626 and 4604 were compared with the plot and tracing. No appreciable discrepancies were found.

SYMBOLS

The standard topographic symbols were used.

Approved
O. P. Reading

Respectfully submitted,
Julian H. Wulbern
Julian H. Wulbern,
Jr. Carto. Engr., C. & G. Survey.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
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REG. NO.

4648

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter _____

REGISTER NO. T-4648

State California

General locality San Francisco Bay

Locality Dumbarton Point to Coyote H. Slough

Scale 1:10,000 Date of survey Nov. 1931-May, 1932

Vessel Army Air Corps Plane

Chief of Party O. S. Reading

Surveyed by J. H. Wulbern

Inked by J. H. Wulbern

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated _____, 19

Remarks: This sheet is a compilation by the radial line method of 5-lens aerial photographs, Nos. W-1 to W-23 and D-23 to D-38, taken May 2, 1931, reduced to 1:10,000 and printed by photo-lithographic process.

APPROVED

K. T. Adams
FIELD RECORDS (C)

F. S. Borden
Chief, Section Field Work

L. O. Collett
Chief, Division of Charts

G. H. Hude
Chief, Div. of Hyd'y and Top'y