

5012

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

JUN 9 1933

Acc. No. \_\_\_\_\_

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: California.

DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. 5012

LOCALITY

San Joaquin River Delta.

Bishop Cut to Harte.

1933

CHIEF OF PARTY

M. H. Reese.

applied to drawing of Chart 5527

Jan 7, 1935 - JFW

Descriptive Report to Accompany  
Air-Photo Topo. Sheet No. 10. 5012

*See Descriptive Report T-4685 for general report of Field Inspection*

Authority: The Director's Instructions of November 15, 1932.

Methods:-

Sheet No. 10 was compiled from five lens photographs taken by the U. S. Army Air Corps. In general the photographs are very good. A number of the pictures were taken during the day when the shadows were of considerable length and this has caused the draftsman some confusion. There is less than 50 percent of overlap in the direction of flight in about 30 or 40 percent of the pictures. With this minimum overlap it is more difficult to obtain the required accuracy than with the proper amount of overlap. The flight lines on the sheet are excellent, and this compensates somewhat for the minimum overlap. The tilt in the pictures is probably at a minimum.

The Radial line Method as described by W. J. Chovan was used in the Compilations with amendments to fit the five lens photographs.

The Control on this sheet is one triangulation station, three three-point fixes, and a traverse along the Western Pacific Railroad. There were several stations outside the limits of the sheet which were utilized in the compilation.

The drafting on the sheet is very good and as far as can be ascertained is accurate with the plottable error on 1:10,000 scale. Very good junction was obtained with detail of adjoining sheets. The showing of culture with topographic symbols was kept to a minimum.

Statistics:

Area of sheet = 23.66 (Nautical) sq. mi. = 27.2 sq. mi.  
(Statute).

*f. Green*

*M. H. Reese*

M. H. Reese,  
Chief of Party, C. & G. Survey.

*Edmund in office by: Frank G. Estline (see A sheet right)*

*Approved: C. K. Green*

## Chart No.

**FMS**

Diagram No..

Q Information requested.

(M 100)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5012

AIR PHOTO TOPOGRAPHIC TITLE SHEET

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

Field No. 10

REGISTER NO. 5012

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

State California

General locality San Joaquin River Delta

Locality Bishop Cut to Harte

Scale 1:10,000 Date of survey December 12, 1931

Vessel Photographs by U. S. Army Air Corps

Chief of party M. H. Reese

~~Surveying~~ Field Inspection by L. P. Raynor

Inked by R. A. Kempton

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated November 15, 1932

Remarks: The scale factor of sheet No. 10 is 0.978 on 1:10,000

scale. The negatives are to be enlarged to 1:10,000 scale.

One minute of latitude on celluloid equals 1809.2 meters.

One minute of latitude on 1:10,000 equals 1849.9 meters.

Projection by R. A. Kempton Dec. 27, 1932  
Projection verified by M. H. Reese  
Control plotted by E. L. F. Dec. 29, 1932  
Control verified by M. H. R.  
Photographs plotted by R. A. K. Jan 14, 1933  
Sheet inked by R. A. K. Feb. 15, 1933

5012a

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

DEC 22 1934

Acc. No. \_\_\_\_\_

Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

## DESCRIPTIVE REPORT

Topographic Sheet No. 5012a  
~~Hydrographic~~

State California

### LOCALITY

San Joaquin Delta

Bishop Cut to Harte

193 4

CHIEF OF PARTY

L.P. Raynor

U. S. GOVERNMENT PRINTING OFFICE: 1934

5012a

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 50122

TOPOGRAPHIC TITLE SHEET

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

-Field No. ....

REGISTER NO. 5012 A 50122

State.....California.....

General locality.....San Joaquin Delta.....

Locality.....Bishop Cut to Harte.....

Scale..... Date of survey....., 19.....

Vessel.....

Chief of Party.....

Surveyed by.....

Inked by.....

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated....., 19.....

Remarks:.....Corrections and additions to the original survey.

.....For additional data see Descriptive Report.....

DESCRIPTIVE REPORT TO ACCOMPANY  
AIR PHOTO TOPOGRAPHIC SHEET NO. 5012 A  
(to be included in report for T-5012)

DEC 17 1934

Bishop Cut to Harte, San Joaquin Delta, California. Acc. No. \_\_\_\_\_

This sheet contains corrections (shown in red) to the original survey of this area.

Sources of Information: Hydrographic Survey No. 6004.

Compilations: The bridge over Bishop Cut ( $38^{\circ}-03\frac{1}{2}'$ ,  $121^{\circ}-25'$ ) was moved north slightly. The two wooden poles at this bridge were located by ~~third-order triangulation~~ <sup>theodolite 3 point fix</sup> and are now shown in their correct location. The clearance of the bridge but not the overhead cable was given in H-6004.

The point of the tule island at lat.  $38-02$ , long.  $121-24\frac{1}{2}$  was cut off and several sheds were deleted according to H-6004.

The descriptive report for H-6004 refers to a copy of T-5012 with geographic names in red being submitted. There is no record of this sheet being received by the Air Photo Section. The Boat Sheet for H-6004 contains numerous camp numbers and also the name "Atlas Point". These names are shown on the A Sheet.

The hydrographic report mentions a poor junction with T-4690 in the slough at  $38^{\circ}-00'$ ,  $121^{\circ}-22'$ . The A sheet was corrected. The error here is very slight and it is believed that it will have no effect on the hydrography.

Respectfully submitted,

*Frank G. Erskine*

Frank G. Erskine.

October 19, 1934.

*Approved: C H Green*



NOTE: There are no charts covering the area of this project except chart 5534 at the junction of the Sacramento and San Joaquin Rivers. The following maps filed as Blueprints were furnished by the field party with corrections made from field examination to show the names in local use and have been used in making the corrections to compilations on this project.

Capt. Seathers Map (1931)--BP.- 25708

U.S.G.S. quadrangles BPs. --25702 to 25707

(See also chart letter No. 698 (1932))

Name lists are now being prepared under Mr. Bacon's Direction and will be attached at the back of the descriptive reports when completed. Any changes in names indicated by the name lists will be applied to the compilations at the next printing.

November 26, 1934

*Frank G. Enkine*

*applied to drawing of chart 5527*

*Jan 7, 1935 - J.W.*

*all 4 A's ✓*

Examined and Approved:

*C. K. Green.*

Chief, Section of Field Records

*H. B. Brady*

Chief, Section of Field Work

*L. O. Lobnitz.*

Chief, Division of Charts

*G. H. Hude*

Chief, Division of H. & T.