State: CALIFORNIA

DESCRIPTION REPORT

Topographic

Sheet No. T-5039

HYDROGRAPHIC

LOCALITY

Sacramento-San Joaquin Delta

TOM PAINE SLOUGH

to

BETHANY

1934

CHIEF OF PARTY

L. P. Raynor
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

"AIR PHOTO"

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 Letter

REGISTER NO. T-5039

StateCALIFORNIA

General localitySACRAMENTO-SAN JOAQUIN DELTA

Locality TOM PAINE SLOUGH TO BETHANY

Date of Photographs, January 3, 1932

ScaleL:10.000

Date of Compilation, December 22, 1933

VesselArmy Air Corps PLA Airplane

Chief of Party LIEUT. L. P. Raynor

Compiled by S. B. Lane

Surveyed by

Inked by W. J. Mignola

Heights in feet above ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions datedAugust 12, 1933 and September 2, 1933

Remarks: Compiled from photographs Nos. 831160 to 1181, inc.

and Nos. 1206 to 1219, inc.

Reduced to scale and printed by photo,lithographic process.

U. S. GOVERNMENT PRINTING OFFICE, 1933
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>DONE BY</th>
<th>DATE COMPLETED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyconic Projection</td>
<td>S.B. Lane</td>
<td>December 6, 1933</td>
</tr>
<tr>
<td>Projection Verified</td>
<td>S.S. Whitehead</td>
<td>December 6, 1933</td>
</tr>
<tr>
<td>Control Plotted</td>
<td>S.B. Lane</td>
<td>December 7, 1933</td>
</tr>
<tr>
<td>Control Verified</td>
<td>N.R. McLeod</td>
<td>December 7, 1933</td>
</tr>
<tr>
<td>Compiled in Pencil</td>
<td>S.B. Lane</td>
<td>December 22, 1933</td>
</tr>
<tr>
<td>Inked</td>
<td>W.J. Mignola</td>
<td>January 11, 1934</td>
</tr>
<tr>
<td>Hachures and Woodland Symbol</td>
<td>S.S. Whitehead</td>
<td>February 6, 1934</td>
</tr>
<tr>
<td>Proofreading</td>
<td>T.P. Pendleton</td>
<td>February 9, 1934</td>
</tr>
<tr>
<td>Names Attached Various Members of Party</td>
<td>February 28, 1934</td>
<td></td>
</tr>
<tr>
<td>Descriptive Report</td>
<td>S.B. Lane</td>
<td>February 25, 1934</td>
</tr>
</tbody>
</table>
PROJECT NO. H.T. 153

DESCRIPTIVE REPORT

To Accompany

SHEET NO. T-5039

TOM PAINE SLough TO BETHANY, CALIFORNIA

L. P. Raynor, Lieut., C.& G.S., Chief of Party

See report for Sheet No. T-5027 for information which applies to the entire project.

GENERAL INFORMATION

Area of sheet, 30.5 square miles

Length of rivers and sloughs, 14.9 miles. In addition there are 3.3 miles of slough not connected with the main water bodies.

The north half of this sheet is low and level. The south half slopes upward from the river very gradually. This slope becomes steeper west of the Southern Pacific Tracks in the southwest corner of the sheet.

North of Grant Line Road and east of the Southern Pacific tracks the area of this sheet is part of the old El Pescadero Grant.

The Lincoln Highway, a paved state highway and part of U.S. No. 50, crosses the southwest corner of the sheet. This is the principal highway between this territory and the Bay Cities.

Navigation uses Sugar Cut, also known as Titus Cut,
working its way north to the Grant Line Canal (Sheet No. T-5036) instead of making use of Old River. The name Sugar Cut has been used to designate this canal instead of the name Titus Cut, which appears on maps of the U.S. Engineers, as Sugar Cut is the more descriptive title and the name by which the canal is known to the local residents.

There is one bridge on this sheet, a county bridge across Old River at Naglee School. This is a fixed bridge of five steel truss spans. Passage underneath is obstructed by old piling which has been cut off at about mean low water. The clearance of the bridge will be supplied by the hydrographic party.

Two small bridges cross that portion of Tom Paine Slough which lies west of Sugar Cut. One is an abandoned suspension foot-bridge which is not in use and which touches the water in the middle when the tide is in. The other is a wood pile trestle wagon bridge.

**TRANSMISSION LINE CROSSINGS OVER NAVIGABLE WATERS**

<table>
<thead>
<tr>
<th>ACROSS</th>
<th>LOCATION</th>
<th>TOWERS OR POLES</th>
<th>CLEARANCE ABOVE H.W.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paradise Cut</td>
<td>At Old River</td>
<td>Steel</td>
<td>110 feet</td>
</tr>
<tr>
<td>Sugar Cut</td>
<td>At Old River</td>
<td>Steel</td>
<td>110 feet</td>
</tr>
</tbody>
</table>

**ALSO THE FOLLOWING CROSSINGS**

- Old River       
  - West of Sugar Cut  
    - Wood  
    - #
- Tom Paine Slough  
  - West of Sugar Cut  
    - Wood  
    - #
- Sugar Cut south of Tom Paine Slough  
  - Wood  
  - #

# Clearance will be supplied by hydrographic party.
SUBMARINE CABLE CROSSINGS

All underwater cable crossings noted by the field inspection party or the photo compilation party have been shown.

PHOTOGRAPHS

The following photographs fall on this sheet:
Nos. 1165 to 1181, inc. and Nos. 1206 to 1219, inc. There were taken January 3, 1932 between 1:30 and 2:30 p.m.

CONTROL

Stations Tom and Sugar were triangulated by J. Bawie in 1931. Other points by L.P. Raynor in 1932 and 1933, except those marked T.P.P. The latter are theodolite three point fixes by T.P. Pendleton in 1933, are not marked and not recoverable, and have been shown on the sheet by small circles. All stations have been adjusted to 1927 N.A. Datum.

The locations shown in the following table are the values used in the compilation of this sheet.

These values are from the field computations and will differ slightly from the finally adjusted positions.

E.G.F.
Note: The following objects, in addition to those listed on the opposite page, are recoverable, were located en-thie-e by the air photo plot and are shown as topographic stations on this sheet:

<table>
<thead>
<tr>
<th>STATION</th>
<th>APPROX LAT</th>
<th>APPROX LONG</th>
<th>HEIGHT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Wood Power</td>
<td>37° 48.1'</td>
<td>121° 25.7'</td>
<td></td>
<td>Not described</td>
</tr>
<tr>
<td>line Poles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Steel Power</td>
<td>37° 49.9'</td>
<td>121° 25.1'</td>
<td></td>
<td>Not described</td>
</tr>
<tr>
<td>Line Poles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Wood Power</td>
<td>37° 47.3'</td>
<td>121° 24.8'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line Poles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Steel Power</td>
<td>37° 48.3'</td>
<td>121° 24.8'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line Poles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Tank</td>
<td>37° 47.6'</td>
<td>121° 25.9'</td>
<td></td>
<td>Described on Form 514</td>
</tr>
</tbody>
</table>

\[\text{B98}\]
TABLE OF CONTROL

DESCRIPTION

△ TOM, 1931

37 - 46 - 12.826

121 - 25 - 20.028

△ SUGAR, 1931

37 - 46 - 21.123

121 - 25 - 06.380

△ Duaina, 1933

37 - 46 - 34.26

121 - 29 - 23.06

△ North of West Pair Ten Steel Towers, 1933

37 - 47 - 53.17

121 - 25 - 10.44

△ South of West Pair Ten Steel Towers, 1933

37 - 47 - 52.42

121 - 25 - 10.01

○ Stack at Sugar Ref'y. (T.P.P.) 3Pt. Fix. - Recoverable - Not described

37 - 46 - 20.59

121 - 25 - 13.73

○ 1173 B (T.P.B.) - 3Pt. Fix. Center road intersection - Not marked and not described but approx. position is recoverable.

37 - 46 - 46.78

121 - 27 - 08.42

○ 1218 B 3Pt. Fix. - Recoverable and described on Form 524.

37 - 45 - 15.90

121 - 29 - 02.53

COMPILATION

This sheet was compiled by the radial line method. The sheet was completed in pencil before being inked.

LANDMARKS AND RECOVERABLE OBJECTS

For list of landmarks and recoverable objects see reference in general section of report for Sheet No. T-5027.

RECOMMENDATIONS

This sheet is believed to have a probable error of less than five meters in all places.

The western edge of this sheet is marred by a yellow stain due to the use of Scotch cellulose tape in affixing a dog-ear. As the paper tape is equally satisfactory for this
purpose, its use is recommended.
Title (Par. 56)

Chief of Party L.P.Raynor

Compiled by

Project 153 H.& T.

Instructions dated

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
   Yes

2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
   Yes

3. The control and adjustment of the radial plot were adequate.
   (Par. 12, 29.)
   Yes

4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.) Maps from other sources were not used.

5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

6. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) These features, except low water line, do not appear on this sheet. A general statement regarding water lines appears in descriptive report Sh. No. T-5027

7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. No previous surveys for navigational use.

8. The span, draw and clearance of bridges are shown. (Par. 16c.) These details appear in the descriptive reports.

9. The data furnished by the Field Inspection is adequate.
   Yes.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)

Yes

11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".

Yes

12. The descriptions of recoverable points were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.)

Yes

13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) Yes. This is a duplicate of list supplied by L.P. Raynor with omitted positions scaled and a few additional marks.

14. The geographic datum of the sheet is N.A. 1927 and the reference station is correctly noted. (Par. 34.)

Yes

15. Junctions with contemporary surveys are adequate.

Yes

16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) Examined and approved. See list.

Yes

17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.) Yes, except that black celluloid ink was used throughout.

18. No additional surveying is recommended.

19. Remarks:

20. Examined and approved:  
   [Signatures: T.P. Gemmell, Chief of Party; Chief Photo Compiler]

21. Remarks after review in office:

Reviewed in office by:  
   [Signature: J.M. Jones]

Examined and approved:  
   [Signatures: K.T. Adams, Chief, Section of Field Records; K. Gordon, Chief, Division of Charts; Chief, Section of Field Work; Chief, Division of Hydrography and Topography]
<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Old River</td>
<td>Local usage and shown on all maps from early to later dates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tom Paine Slough</td>
<td>Local usage and appears on all maps from 1880's on.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sugar Cut</td>
<td>Local usage, formerly Titus Cut, because through</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paradise Cut</td>
<td>Local usage and appears on all maps.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pescadero Colony</td>
<td>Not shown on any maps consulted, nor does it appear in bulletin or G.S. In area of old original land grant Rancho el Pescadero.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>West Side Irrigation District</td>
<td>Hearings before Committee on Flood Control, House of Rep. 70th Cong., 1st Sess., 1927, part 2, p. 69.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Haglee-Burke Tract**</td>
<td>Map of San Joaquin County and Vicinity, 1916, California, Budd &amp; Widdows, Civ. Eng. Stockton, and other authorities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Union Island</td>
<td>Maps from early times to date agree</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fabian Tract</td>
<td>California Delta of the Sacramento and San Joaquin Rivers, compiled from U.S. Surveys by Capt. R.M. Weathers, and other maps with standing.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oak Island **</td>
<td>Not found on maps accepted as a local name.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tracy</td>
<td>From 1895 to date, only two of the maps consulted spell the name Burkh.</td>
<td>Those spelling it Burka are: All editions of the Weathers map Map of San Joaquin County, 1896, Compton believe we should carry the a. H.M.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** Authorities consulted: All OP 7-5027 MS