DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: CALIFORNIA

DESCRIPTIVE REPORT
Topographic Sheet No. T-5040
Hydrographic

LOCALITY
Sacramento-San Joaquin Delta
ROSSDALE

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 for-
warded to the Office.

Field Letter

REGISTER NO. T-5040

State CALIFORNIA

General locality SACRAMENTO-SAN JOAQUIN DELTA

Locality MOSDALE

Scale 1:10,000 Date of Photographs Jan.3, 1932

Date of Compilation 19 Oct. 20, 1933

Vessel Army Air Corps FLA airplane

Chief of Party Lieut. L. P. Raymer

Photographs compiled by S.E. Lane October 20, 1933

Surveyed by

Inked by W.J. Mignola

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated August 12, 1933 and Sept. 2, 1933

Remarks: Compilation of aerial photographs Nos. 1182-1205 inc.

Reduced to scale and printed by photo-lithographic process.
<table>
<thead>
<tr>
<th>DESCRIPTION OF WORK</th>
<th>DONE BY</th>
<th>DATE COMPLETED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyconic Projection</td>
<td>S. S. Whitehead</td>
<td>September 22, 1933</td>
</tr>
<tr>
<td>Projection Verified</td>
<td>K. B. Walker</td>
<td>September 25, 1933</td>
</tr>
<tr>
<td>Control Plotted</td>
<td>S. B. Lane</td>
<td>September 25, 1933</td>
</tr>
<tr>
<td>Control Verified</td>
<td>K. B. Walker</td>
<td>September 26, 1933</td>
</tr>
<tr>
<td>Compiled in Pencil</td>
<td>S. B. Lane</td>
<td>October 20, 1933</td>
</tr>
<tr>
<td>Inked</td>
<td>W. J. Michola</td>
<td>December 14, 1933</td>
</tr>
<tr>
<td>Hachures and Woodland Symbol</td>
<td>S. S. Whitehead</td>
<td>December 16, 1933</td>
</tr>
<tr>
<td>Proofreading</td>
<td>T. F. Pendleton</td>
<td>December 22, 1933</td>
</tr>
<tr>
<td>Names Attached Various Members of Party</td>
<td></td>
<td>February 28, 1934</td>
</tr>
<tr>
<td>Descriptive Report</td>
<td>S. B. Lane</td>
<td>February 26, 1934</td>
</tr>
</tbody>
</table>
PROJECT NO. H.T. 153

DESCRIPTIVE REPORT

To Accompany

SHEET NO. T-5040

MOSSDALE, CALIFORNIA

L. F. 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 this sheet, 23.9 square miles

Length of rivers and sloughs, 8.6 miles. In addition there are 16.4 miles of slough not connected to the main water bodies.

West of the San Joaquin River and south of Tom Paine Slough the land slopes gradually upward. The remainder of the sheet is low and level, varying from a few feet above to a few feet below mean sea level.

There are several water-holes on this sheet which have no apparent inlet or outlet. As a rule these water-holes have almost vertical banks of considerable height above the level of the water, and are permanent features of the landscape. Information secured from men who have been engaged in building levees in this area indicates the existence of an underlying layer of quicksand, which may account for the formation of these holes.
The Lincoln Highway is the main traffic artery of this area. It is concrete paved and part of the highway system of the State of California.

There are three bridges across the San Joaquin River near Mossdale,

1. Southern Pacific bridge, which is a single track railroad bridge with a swing span. Both east and west channels have a width of 75 feet. Clearance above high water, 5 feet.

2. Western Pacific bridge, which is a single track railroad bridge with a swing span. The west channel has a width of 56.5 feet, the east channel a width of 67 feet. The clearance above high water is 0.6 feet.

3. A highway bridge where the Lincoln Highway crosses the San Joaquin River. This is a bascule span with a channel width of 100 feet. The clearance above high water will be supplied by the hydrographic party.

**TRANSMISSION LINE CROSSINGS OVER NAVIGABLE WATERS**

<table>
<thead>
<tr>
<th>ACROSS</th>
<th>LOCATION</th>
<th>TOWERS OR POLES</th>
<th>CLEARANCE HW</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Joaquin River</td>
<td>South of Mossdale</td>
<td>steel</td>
<td>90 feet</td>
</tr>
<tr>
<td>*San Joaquin River</td>
<td>At Mossdale</td>
<td>wood</td>
<td>125 feet</td>
</tr>
</tbody>
</table>

**SUBMARINE CABLE CROSSINGS.**

All under water cable crossings noted by the field inspection party of the photo compilation party have been shown.
Note: In addition to the objects listed on the opposite page the following recoverable objects were located by the air photo plot and are shown as topographic stations on this sheet:

<table>
<thead>
<tr>
<th>STATION AND DESCRIPTION</th>
<th>APPROX LAT</th>
<th>APPROX LONG</th>
<th>HEIGHT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Power Line pole</td>
<td>37° 472'</td>
<td>121° 16.4'</td>
<td></td>
<td>Not described</td>
</tr>
<tr>
<td>Power Line Towers</td>
<td>37° 46.8'</td>
<td>121° 18.1'</td>
<td></td>
<td>Not described</td>
</tr>
</tbody>
</table>
PHOTOGRAPHS

The following photographs fall on this sheet, Nos. 1182 to 1205, inc. These photographs were taken January 3, 1932 between 1.30 and 2.30 p.m.

CONTROL

Para was triangulated by J. Bowie in 1931. Southeast Tower and Red Barn are U.S.G.S. stations. Other stations were triangulated by L. P. Raynor in 1932 and 1933 except those marked "T.P.P." The latter are all theodolite three point fixes, not marked and not recoverable, by T.P. Pendleton in 1933. They are shown by small circles. All control has been adjusted to 1927 N.A. Datum. The locations in the following table are the values used in the compilation of this sheet

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARA, 1931</td>
<td>37 - 47 - 24.366</td>
<td>121 - 21 - 07.862</td>
</tr>
<tr>
<td>East Wood Pole Near Moss (Traverse) 1933</td>
<td>37 - 47 - 11.189</td>
<td>121 - 18 - 18.377</td>
</tr>
<tr>
<td>Pettig, 1933</td>
<td>37 - 46 - 32.55</td>
<td>121 - 22 - 25.87</td>
</tr>
<tr>
<td>Trough, 1933</td>
<td>37 - 47 - 03.67</td>
<td>121 - 16 - 06.04</td>
</tr>
<tr>
<td>Southeast Tower, U.S.G.S.</td>
<td>37 - 46 - 51.7</td>
<td>121 - 17 - 58.9</td>
</tr>
<tr>
<td>Red Barn, U.S.G.S.</td>
<td>37 - 44 - 36.4</td>
<td>121 - 20 - 17.3</td>
</tr>
<tr>
<td>1133 B (T.P.P.) Not Marked</td>
<td>37 - 48 - 16.48</td>
<td>121 - 23 - 17.55</td>
</tr>
<tr>
<td>1202 B (T.P.P.) Recoverable described on Form 546</td>
<td>37 - 45 - 01.81</td>
<td>121 - 21 - 35.68</td>
</tr>
<tr>
<td>1205 B (T.P.P.) Not Marked</td>
<td>37 - 45 - 15.46</td>
<td>121 - 23 - 18.21</td>
</tr>
<tr>
<td>-1199-C</td>
<td>37 - 45 - 14.22</td>
<td>121 - 15 - 36.68</td>
</tr>
<tr>
<td>Danta, U.S.G.S.</td>
<td>37 - 45 - 06.8</td>
<td>121 - 27 - 25.3</td>
</tr>
</tbody>
</table>

* These stations are not connected to by U.S. Coast & Geodetic Survey triangulation and make no data concerning them is on file except its positions as given here. B. G. Jones.
COMPILATION

Compilation was by the radial line method. The map was completed in pencil before being inked.

The county road which crosses Paradise Cut near the northwest corner of this sheet has been built since the photographs were taken. It was plotted from notes taken in the field.

LANDMARKS AND RECOVERABLE OBJECTS

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

RECOMMENDATIONS

That portion of this sheet which lies east and south of the Western Pacific was plotted as carefully as possible from the available photographs, but is without the strength of the rest of the sheet due to large tilts at the end of the flight.

Except for the area mentioned above, the sheet is believed to have a probable error of less than five meters in all places.
REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5040

Title (Par. 56)

Chief of Party: L. F. Raynor

Compiled by Dr. Irwin A. Kellen

Project 153 H. & T.

Instructions dated Sept. 12, 1953

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.) See sheet. Inset page 1.

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 high 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 have been made.

8. The span, draw and clearance of bridges are shown. (Par. 16c.) These details appear in 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.
The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)

Yes

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

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

Yes

A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 15d, e, 60.) This is a duplicate of list supplied by L.P. Raynor with omitted positions scaled and a few additional marks.

Yes

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

Junctions with contemporary surveys are adequate.

Yes

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

Yes

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.

No additional surveying is recommended.

Remarks: The extension of the power line

Examined and approved:

[Signatures]

Chief of Party

Chief Photo Compiler

Remarks after review in office:

Reviewed in office by:

[Signature]

Chief, Section of Field Records

Chief, Division of Charts
Nov. 20, 1934

GEOGRAPHIC NAMES

Survey No. T-5040
H-6022

Chart No.

Names underlined in red approved Nov. 17, 1934

Diagram No.

* Approved by the Division of Geographic Names, Department of Interior.

Ø Not Approved by the Division of Geographic Names, Department of Interior.

R Referred to the Division of Geographic Names, Department of Interior.

<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>Banta</td>
<td>U.S. Postal Guide</td>
<td>San Joaquin County, by Barton, 1922, Lodi, Calif.</td>
<td>1922, Lodi, Calif.</td>
<td>see ditto above.</td>
<td></td>
</tr>
<tr>
<td>Pescadero * should be Pescadero Colony See Map of San Joaquin County, by Barton, 1922, Lodi, Calif.</td>
<td>1922, Lodi, Calif.</td>
<td>see ditto above.</td>
<td>1922, Lodi, Calif.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pescadero Colony*</td>
<td>Walthall Slough Map of County of San Joaquin, 1925, Compton</td>
<td>San Joaquin County, Calif.</td>
<td>1922, Lodi, Calif.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>El Joaquin River</td>
<td>San Joaquin County, Calif.</td>
<td>1922, Lodi, Calif.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>San Joaquin River</td>
<td>U.S.G.S. 5th Rept.</td>
<td>San Joaquin County, Calif.</td>
<td>1922, Lodi, Calif.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mossdale</td>
<td>Same as on H-5022 on San Joaquin County and vicinity, 1916, Sudell &amp; Widdowson. Barton, San Joaquin Co. 1922.</td>
<td>Half of the South San Joaquin Irrigation District, E.H.</td>
<td>Mossdale is a School District &amp; shown in Map of the West Jeffries, 1921, 1^st to 1200 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Have found no Pescadero on any map. It is not mentioned in the DR's for T-5040 or H-6022. Should be Pescadero Colony. See Map of San Joaquin County, 1922, by Barton, Lodi, Calif.

** No Pescadero Colony mentioned on maps or in bulletins or reports. If Pescadero Colony is correct, should not Pescadero be Pescadero Colony? This is part of the area of one of the old original land grants, Rancho el Pescadero. 1435

Paradise cut. General usage and on maps and in bulletins.

changes indicated on this sheet will be made when the next sheet is ready.

5-040 A is filed

For authorities consulted see DR for T-5027.