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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Acc. No.

....., Director

State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5040
~~Hydrographic~~ }

LOCALITY

Sacramento-San Joaquin Delta

MOSSDALE

1934

CHIEF OF PARTY

L. P. Raynor

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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-5040

State CALIFORNIAGeneral locality SACRAMENTO-SAN JOAQUIN DELTALocality MOSSDALEScale 1:10,000 Date of Photographs Jan. 3, 1932
Date of compilation Oct. 20, 1933Vessel Army Air Corps F1A airplaneChief of Party Lieut. L. P. RaynerPhotographs compiled by S. B. Lane October 20, 1933
Surveyed byInked 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, 1933Remarks: Compilation of aerial photographs Nos. 1182-1205 inc.Reduced to scale and printed by photo lithographic process.

JOB SHEET

T-5040

DESCRIPTION OF WORK	DONE BY	DATE COMPLETED
Polyconic Projection	<i>S.S. Whitehead</i> S.S. Whitehead	September 22, 1933
Projection Verified	<i>K.B. Walker</i> K.B. Walker	September 25, 1933
Control Plotted	<i>S.B. Lane</i> S.B. Lane	September 25, 1933
Control Verified	<i>K.B. Walker</i> K.B. Walker	September 26, 1933
Compiled in Pencil	<i>S.B. Lane</i> S.B. Lane	October 20, 1933
Inked	<i>W.J. Mignola</i> W.J. Mignola	December 14, 1933
Hachures and Woodland Symbol	<i>S.S. Whitehead</i> S.S. Whitehead	December 16, 1933
Proofreading	<i>T.P. Pendleton</i> T.P. Pendleton	December 22, 1933
Names Attached Various Members of Party		February 28, 1934
Descriptive Report	<i>S.B. Lane</i> S.B. Lane	February 26, 1934

PROJECT NO. H.T. 153

DESCRIPTIVE REPORT

To Accompany

SHEET NO. T-5040

MOSSDALE, 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 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 ~~3.6 ft.~~ will be supplied by the hydrographic party.

TRANSMISSION LINE CROSSINGS OVER NAVIGABLE WATERS

ACROSS	LOCATION	TOWERS OR POLES	CLEARANCE HW
San Joaquin River	South of Mossdale	steel	90 feet
*San Joaquin River	At Mossdale	wood	125 feet

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:

<u>STATION AND DESCRIPTI ON</u>	<u>APPROX LAT</u>	<u>APPROX LONG</u>	<u>HEIGHT</u>	<u>REMARKS</u>
Wood Power Line pole	37° 47.2'	121° 18.4'		Not described
Power Line Towers	37° 46.8'	121° 18.1'		Not described

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 OF CONTROL

DESCRIPTION	LATITUDE	LONGITUDE
△ MOSS, 1932	37 --47 - 18.624	121 - 18 - 27.576
△ PARA, 1931	37 - 47 - 24.366	121 - 21 - 07.862
△ East Wood Pole Near Moss (Traverse) 1933	37 - 47 - 11.189	121 - 18 - 18.377
△ Petrig, 1933	37 - 46 - 32.55	121 - 22 - 25.87
△ Trough, 1933	37 - 47 - 03.67	121 - 16 - 06.04
* Southeast Tower, U.S.G.S.	37 - 46 - 51.7	121 - 17 - 58.9
* Red Barn, U.S.G.S.	37 - 44 - 36.4	121 - 20 - 17.3
○ 1133 B (T.P.P.) Not Marked 3PT Fix	37 - 48 - 16.48	121 - 23 - 17.55
○ 1202 B 3PT Fix - Recoverable described on Form 524.	37 - 45 - 01.81	121 - 21 - 35.68
○ 1205 B (T.P.P.) 3PT Fix Not Marked.	37 - 45 - 15.46	121 - 23 - 18.21
-1199-C-	37 - 45 - 14.22	121 - 15 - 36.68
* BANTA, U.S.G.S.	37 - 45 - 06.8	121 - 22 - 25.3

* These stations were not connected to by U.S. and G.S. triangulation and most no data concerning them is on file except the 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.P. Raynor

Compiled by *See sheet A disc. report.*

Project 153 H. & T.

Instructions dated *letter of Aug. 12, 1933*
supplement cont.
of Sept. 2, 1933

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 disc. report page 4*
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.

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~~ ^{points topographic stations} 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.** ~~attached copy attached to report~~

14. The geographic datum of the sheet is **N.A. 1927** and for T 5027 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.)

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: ~~The extension of the power line~~

20. Examined and approved:

L.P. Raynor T.P. Peniston
Chief of Party Chief Photo Compiler

21. Remarks after review in office:

Reviewed in office by: ^{B.A. Jones} ~~is~~ ^{The extension of the power line crossing the San Joaquin River at Δ East Wood Pole} ~~was not shown by the compilation party and has not been added in the office) as the photographs~~
Examined and approved: ~~are not sufficiently clear.~~

K.T. Adams
Chief, Section of Field Records

B. Gordon
Chief, Section of Field Work

L.O. Lobel
Chief, Division of Charts

G. Rude
Chief, Division of Hydrography and Topography.

GEOGRAPHIC NAMES

Date Nov. 20, 1934

Chart No. _____

HMS

Names underlined in red approved Nov. 22, 1934 Diagram No. _____
H. Bacon

- * Approved by the Division of Geographic Names, Department of Interior.
- ⊘ Not Approved by the Division of Geographic Names, Department of Interior.
- R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Banta</u>	U.S. Postal Guide			
	<u>Pescadero</u> * should be <u>Pescadero Colony</u>	See Map of San Joaquin County, by Barton, 1922, Lodi, Calif.			
	<u>Pescadero Colony</u> *	OK see ditto above.			
	<u>Walthall Slough</u>	Map of County of San Joaquin, 1895, Compton San Joaquin County, Calif. 1922, Barton. Other maps			
	San Joaquin River	U.S.G.S. 6th Rept.			
	<u>Tom Paine Slough</u>	Usage on all maps			
	<u>Mossdale</u>	Same as on H-6022 on San Joaquin County and vicinity, 1916, Budd & Widdows, Barton, San Joaquin Co. 1922.		Mossdale is a School District & shown in Map of the West Half of the South San Joaquin Irrigation District, E.H. Jeffries, 1921, 1" to 1200 ft.	
		Suggest adding to T-5040 added on T5040 in correct place			
	* 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.				
	<u>Paradise cut</u>	General usage and on maps and in bulletins.			
	<p><i>changes indicated on this sheet will be made when the same first correction is made</i></p> <p><i>5040 A is filed</i></p> <p><i>for authorities consulted see DR for T-5027-1111</i></p>				