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U. S. COAST & GEODETIC SURVEY  
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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

....., Director

State: CALIFORNIA

DESCRIPTIVE 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

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-5039**State **CALIFORNIA** .....General locality **SACRAMENTO-SAN JOAQUIN DELTA** .....Locality **TOM PAINÉ SLOUGH TO BETHANY** .....Date of Photographs, **January 3, 1932**Scale **1:10,000** Date of ~~survey~~ **Compilation, December 22, 1933** .....Vessel **Army Air Corps F1A Airplane** .....Chief of Party **Lieut. L. P. Raynor** .....**Compiled by S.B.Lane**

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 September 2, 1933**

Remarks: **Compiled from photographs Nos. 88 1165 to 1181, inc. and Nos. 1206 to 1219, inc.**

**Reduced to scale and printed by photo lithographic process.**

JOB SHEET

T-5039

DESCRIPTION	DONE BY	DATE COMPLETED
Polyconic Projection	<i>S.B. Lane</i> S.B. Lane	December 6, 1933
Projection Verified	<i>S.S. Whitehead</i> S.S. Whitehead	December 6, 1933
Control Plotted	<i>S.B. Lane</i> S.B. Lane	December 7, 1933
Control Verified	(RESIGNED) N.R. McLeod	December 7, 1933
Compiled in Pencil	<i>S.B. Lane</i> S.B. Lane	December 22, 1933
Inked	<i>W. J. Mignola</i> W. J. Mignola	January 11, 1934
Hachures and Woodland Symbol	<i>S.S. Whitehead</i> S.S. Whitehead	February 6, 1934
Proofreading	<i>T. P. Pendleton</i> T. P. Pendleton	February 9, 1934
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-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. <sup>OK/HIS</sup>

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

ACROSS	LOCATION	TOWERS OR POLES	CLEARANCE ABOVE H.W.
Paradise Cut	At Old River	Steel	110 feet
Sugar Cut	At Old River	Steel	110 feet

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. Bowie 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*  
*B.G.G.*

Note: The following objects, in addition to those listed on the Opposite page, are recoverable, were located ~~on this sheet~~ by the air photo plot and are shown as topographic stations on this sheet:

<u>STATION</u>	<u>APPROX LAT</u>	<u>APPROX LONG</u>	<u>HEIGHT</u>	<u>REMARKS</u>
2 Wood Power line Poles	37° 48.1'	121° 25.7'		Not described
2 Steel Power Line Poles	37° 49.9'	121° 25.1'		Not described
2 Wood Power Line Poles	37° 47.3'	121° 24.8'		" "
2 Steel Power Line Poles	37° 48.3'	121° 24.8'		" "
Black Tank	37 47.6	121-25.9		described on Form 524

Bgg

## TABLE OF CONTROL

DESCRIPTION			
△ TOM, 1931	37 - 48 - 12.826	121 - 25 - 20.028	
△ SUGAR, 1931	37 - 46 - 21.123	121 - 25 - 06.380	
△ Dusina, 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.P.) - 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



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purpose, its use is recommended.

## REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5039

Title (Par. 56)

Chief of Party L.P. Raynor

Compiled by

Project 153 H. &amp; 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 ~~stations and their recoverability~~ <sup>points</sup> 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 H.B.*

**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:

*L.P. Raynor*      *T.P. Penleton*  
Chief of Party      Chief Photo Compiler

21. Remarks after review in office:

Reviewed in office by: *B.G. Jones*

Examined and approved: *K.T. Adams*  
Chief, Section of Field Records

*R.O. Sallut*  
Chief, Division of Charts

*K. Borden*  
Chief, Section of Field Work

*G. Rude*  
Chief, Division of Hydrography and Topography.

GEOGRAPHIC NAMES

Date. Nov. 21, 1934

Chart No. \_\_\_\_\_

Diagram No. \_\_\_\_\_

HMS  
*Names underlined in red approved Nov. 22, 1934.*  
*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>Old River</u>	Local usage and shown on all maps from early to later dates			
	<u>Tom Paine Slough</u>	Local usage and appears on all maps from 1880's on.			
	<u>Sugar Cut</u>	Local usage, formerly Titus Cut, because through Titus tract.			
	<u>Paradise Cut</u>	Local usage and appears on all maps.			
	<del>Pescadero Colony*</del>	<del>Not shown on any maps consulted, nor does it appear in bulletins or DP's. In area of old original land grant Rancho el Pescadero.</del>			
	<u>West Side Irrigation District</u>	Hearings before Committee on Flood Control, House of Rep. 70th Cong., 1st Sess., 1927, part 2, p. 69.			
	<u>Naglee-Burke Tract**</u>	Map of San Joaquin County and Vicinity, 1916, California, Budd & Widdows, Civ. Eng. Stockton, and other authorities			
	<u>Union Island</u>	Maps from early times to date agree			
	<u>Fabian Tract</u>	California Delta of the Sacramento and San Joaquin Rivers, compiled from U.S. Surveys by Capt. E.M. Weathers, and other maps with standing.			
	<u>Oak Island</u>	Not found on maps <i>accepted as a local name.</i>			
	<u>*Pescadero Colony</u>	Appears on map of San Joaquin County, by Barton, 1922, Lodi, Calif.			
	<u>Tracy</u>	<i>Found on all maps</i> U.S. Postal Guide, 1934.			
	<u>** Nagles-Burke Tract</u> <i>OK/H.B.</i>	From 1895 to date, only two of the maps consulted spell the name <u>Burk</u> . Those spelling it <u>burka</u> are: All editions of the Weathers map Map of San Joaquin County, 1896, Compton Believe we should carry the <u>e</u> . <u>HMS</u>			
		<i>For authorities consulted see DP-T-5027 HMS</i>			