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U. S. COAST & GEODETIC SURVEY
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Form 504
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Director Acc. No.

State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5038
~~Hydrographic~~

LOCALITY

Sacramento-San Joaquin Delta

BETHANY

193 4

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-5038

State CALIFORNIAGeneral locality SACRAMENTO-SAN JOAQUIN DELTALocality BETHANY

Date of photographs, January 3, 1932
Scale 1:10,000 Date of ~~survey~~ compilation, December 29, 1933

Vessel Army Air Corps F1A AirplaneChief of Party Lieut. L. P. RaynorCompiled 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, 1933Remarks: Compiled from photographs Nos. SS 1161 to 1164, inc.Reduced to scale and printed by photo-lithographic process.

JOB SHEET

T-5038

DESCRIPTION OF WORK	DONE BY	DATE COMPLETED
Polyconic Projection	<i>S.B. Lane</i> S.B. Lane	December 28, 1933
Projection Verified	<i>S.S. Whitehead</i> S.S. Whitehead	December 28, 1933
Control Plotted	<i>S.B. Lane</i> S.B. Lane	December 28, 1933
Control Verified	<i>S.S. Whitehead</i> S.S. Whitehead	December 28, 1933
Compiled in Pencil	<i>S.B. Lane</i> S.B. Lane	December 29, 1933
Inked	<i>W.J. Mignola</i> W.J. Mignola	January 13, 1934
Hachures and Woodland Symbol	<i>S.S. Whitehead</i> S.S. Whitehead	February 14, 1934
Proofreading	<i>T.P. Pendleton</i> T.P. Pendleton	February 2, 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-5038

BETHANY, CALIFORNIA

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

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

GENERAL INFORMATION

The area of this sheet is 5.6 square miles.

The length of rivers and sloughs is 2.0 miles.

At and north of Old River the land is very low, varying in elevation from a few feet above to a few feet below mean sea level. South and west of Old River it slopes gradually upward, becoming much steeper beyond the irrigation canal which forms the south boundary of the sheet.

There are no bridges or transmission line crossings over navigable waters on this sheet, and no submarine cable crossings. Bethany Ferry across Old River was formerly operated at a point near White House Landing, but the operation of this ferry has been discontinued.

PHOTOGRAPHS

Photographs Nos. 1161 to 1164, inc. fall on this sheet.

These pictures were taken January 3, 1932 between 1:30 and 2:30 p.m.

CONTROL

Bethany is a U.S.G.S. station. 1155A is a theodolite three point fix by T.P.Pendleton, and is not marked and not recoverable. All other points were triangulated by L.P.Raynor in 1933. All theodolite three point fixes are shown on the sheet by small circles. The control has been adjusted to 1927 N.A. Datum.

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

TABLE OF CONTROL

DESCRIPTION	LATITUDE	LONGITUDE
△ RAY, 1933	37 - 48 - 10.21	121 - 32 - 52.05
HIWAY, 1933	37 - 45 - 25.99	121 - 32 - 26.02
* BETHANY, U.S.G.S.	37 - 47 - 18.31	121 - 32 - 15.00
○ 1162 B 3Pt Fix, not marked	37 - 46 - 58.02	121 - 32 - 15.23
○ 1155 A (T.P.P.) 3Pt. Fix. not marked	37 - 47 - 57.69	121 - 33 - 22.25
○ 1159 A 3 Pt. Fix not marked	37 - 46 - 59.28	121 - 35 - 07.42
○ 1159 B 3pt Fix not marked	37 - 48 - 25.79	121 - 35 - 38.47

Positions shown above are from Field Computations on 1927 N.A. Datum and differ slightly from the final office adjusted positions.

Bgg

COMPILATION

The radial line method was used in the compilation of this sheet. The map was completed in pencil before being inked.

The boundary line between Alameda and San Joaquin Counties is not marked in the field. Old acts of the State legislature

* This station was not connected to by W.P.C. and G.S. triangulation and no data for it are on file except the position as given here.

B.G. Jones

designating county boundaries were investigated and county markers on the railroad and highways investigated. It was possible to recover monuments on the west line of the Pescadero Grant, and the county boundary was located from these monuments, using data secured from the office of the County Surveyor of Alameda County. The County Surveyor of San Joaquin County was unable to furnish any definite information on the subject.

The information secured checked reasonably close to the location of the county boundary markers on both the railroad and highways, and was used in locating the line on the map. It appears that the boundary line has not been run out for many years, and the notes of the old compass survey were looked over, but found to be very vague and of little value today. It is believed that the line as shown is well within a probable error of five meters.

LANDMARKS AND RECOVERABLE OBJECTS.

For reference to landmarks and recoverable objects see general section of descriptive report for Sheet No. T-5027.
copy of List of Landmarks is attached to desc. report 5-27.

RECOMMENDATIONS

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

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5038

Title (Par. 56)

Chief of Party L.P. Raynor

Compiled by

See page A descriptive report

Project 153 H. & T.

Instructions dated

Aug. 12, 1933
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.)
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 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 stations and reference stations were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.)

No.

points - topographic stations

No recoverable topographic stations are shown on this sheet.

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 U.S. 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.)

Yes

Geog names approved J.B.

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 Chief of Party
T.P. Peniston 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

B. Ordun

Chief, Section of Field Work

L.O. Pollock
Chief, Division of Charts

G. Stude
Chief, Division of Hydrography and Topography.

GEOGRAPHIC NAMES

Survey No. T-5038

H-6024

Chart No. _____

Date. Nov. 22, 1934

HMS

Names underlined in red approved Nov 23, 1934

Diagram No. _____

N. 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>Union Island</u>	Established usage shown on all maps early and recent			
	<u>Old River</u>	"			
	<u>Bethany</u>	U.S. Postal Guide, 1934			
	<u>Byron-Bethany Irrigation District</u>	Official name: see Hearings before the Committee on flood control, House of Representatives, 70th Cong. 1st Sess., 1927, part 2, p. 68, contained in a collection of bulletins published as "Sacramento-San Joaquin Flood Control 1916-1930, Washington, G.P.O.			
	<u>Mournian Tract</u>	The name, Thomas Mournian, appears as a large land owner in the same location as Mournian Tract on the Map of San Joaquin County and vicinity, 1916, compiled Budd & Widdows; R. Mournian is a land owner in the same area on the Map of San Joaquin County, by Compton, 1895. The spelling of <u>mournian</u> on the Weathers map evidently is an error.			
	<u>mountain House Creek</u>	This spelling appears on: Topographical Map of Central California, State Geological Survey of California, 1873, 1" to 6 miles San Joaquin valley Tulare Lake to Suisun Bay, sheet 2 by Corps of Engrs. in cooperation with Dept. of Engineering, State of Calif. Field Reports U.S.G. & G.S. Mountainhouse appears on U.S.G.S. Bethany Quadrangle, and other maps which evidently follow it, conforming to the principle of the U.S.G.B. favoring one word. Since Field Reports of the U.S.G. & G.S. use Mountain H _o use, would use this spelling as the probable local usage. no U.S.G.B. decision.			
	<u>Alameda County</u>	Local usage and reliable maps			
	<u>San Joaquin County</u>	Local usage			
	<u>Naglee-Burke Tract</u>	Local usage and reliable maps			
		<i>For authorities consulted see DR # 7-5027</i>			
		<i>77418</i>			