#: Dr COAST de recoveriro LIBRARY AND ARCHIVES 5 1934 Form **504** Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY ACC. No. . State: CALIFORNIA DESCRIPTIVE REPORT Topographic | Sheet No. T-5036 LOCALITY Sacramento-San Joaquin Delta UNION ISLAND 19 33. CHIEF OF PARTY L. P. Raynor

5036

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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.

F	ield Letter
R	EGISTER NO. T-5036
State CALIFORNIA	
General localityS	acramento-san joaquin delta
Locality UNION IS	16/A (60)
and the second of the second of	Date of photographs, January 3, 1932 Date of differ Compilation, November 28, 1933
Vessel Army Air C	orpa FlA Airplana
Compiled by	ieut. L. P. Raynor Whitehead
Inked by W.J.Mi	gno18
Heights in feet above	eto ground to tops of trees
Contour Approximate	contour Form line interval feet
Instructions dated	ugust 12, 1933 and September 2 1933
ind 1133 to 1153,	rom photographs Nos. SS 1081 to 1098, inc. inc. inc. ind printed by photo lithographic process

JOB SHEET

T-5036

DESCRIPTION OF WORK	DONE BY	DATE COMPLETED
Polyconic Projection	W. J. Mignola W. V. Mignola	October 28, 1933
Projection verified	S. Whitehead S. S. Whitehead W. J. Mignetta	October 28, 1933
Control Plotted	K. B. Walker W. J. Mignola	October 31, 1933
Control Verified	K.B. Walker K,B, Walker	October 31, 1933
Compiled in Pencil	S.S. Whitehead	November 28, 1933
Inked	W.J. Mignola	December 28, 1933
Hachures and Woodland Sy	mbol & Whitehead S.S. Whitehead	December 29, 1933
Proofreading	T.P.Pendleton	February 1, 1934
Attaching Names Various	Members of Party	February 27, 1934
Descriptive Report	Mane S.B.Lane	February 26, 1934

PROJECT NO. H.T. 153

DESCRIPTIVE REPORT

To Accompany

SHEET NO. T-5036

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

See roport for Sheet No. T-5027 for information (Field Report) applying to the entire project.

GENERAL INFORMATION

Area of sheet, 31.1 square miles

Length of rivers and sloughs, 16.7 miles

The entire area of this sheet is low, varying from a few feet above to a few feet below mean sea level.

The Grant Line and Fabian and Bell Canals are important arteries for navigation and carry large quantities of water.

Tracy Island Road crosses Grant Line and Fabian and Bell Canals on a county bridge. This is a through steel truss, fixed over the Fabian and Bell Canal and with a hand operated swing span over the Grant Line Canal. The only channel is north of the swing pier and is 94 feet wide. The clearance above mean high water will be secured by the hydrographic party.

TRANSMISSION LINE CROSSINGS OVER NAVIGABLE WATERS

ACROSS LOCATION CLEARACE ABOVE HW

Grant Line Canal Grant Line Pole . 166 feet

Old River At Paradise Cut . 110 feet (2 lines)

SUBMARINE CABLE CROSSINGS

All underwater crossings noted by the field inspection party or photo compilation party are shown

PHOTOGRAPHS

The photographs falling on this sheet are: Nos. 1081 to 1098 inc. and 1133 to 1153, inc.

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

CONTROL

Grant and Bell were triangulated by J. Bowie in 1931.

Others were triangulated by L. P. Raynor in 1932 and 1933,

except those marked "T.P.P.". These last are theodolite three

point fixes, are not marked and are not recoverable, except

Grant Line Pole. They are shown on the sheet by small circles.

All values have been adjusted to 1927 N.A. Datum.

The locations shown in the following table are the values used in compiling the sheet.

NOTE: The following recoverable objects were located by the tair photo. plot and are shown as topographic stations on this sheet. These are in addition to Note the objects listed on the opposite page.

Station	Approx. Lat	Approx. Long.	Height	Notes
Towers .	37° 48.5'	121° 24.5	ř	Not described
Water Tank	37° 50•5'	121° 30.7'	. 7	Described on Form 524

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TABLE OF CONTROL

DESCRIPTION	LATITUDE		LONGITUEE							
△ GRANT, 1931	37	-	49	-	13.327	121	-	26	•••	53.147
△ Bell, 1931	37	-	49	_	13.628	121	-	29	-	53.179
△ Fabian, 1933	37	-	48	-	29.94	121	-	30	-	47.32
Δ Estate, 1933	37	-	51	-	55.47	121	-	28	-	09.94
∆ Union, 1933	37	-	52	-	06.37	121	-	25	-	05.67
△ Undine, 1933	37	_	50	-	07.20	121	_	24	-	56.47
0 1083 B 3Pt Fix - Not recoverable	37	_	50	_	31.89	121	-	30	-	37.66
O No. Grant Line Pole (T.P.P.) Not Described on Form 524- Recoverable	37	-	49	_	14.69	121	-	25	-	49.71
0 1089 B (T.P.P.) 3pt Fix Not recoverable						121	-	27	-	55,69
0 1048 B (T.P.P.) · " " "	37	-	52	-	07.76	121	_	24	•••	00.69
Oll41 B (T.P.P.) " " " " Note: The above positions are f Datum and will differ slightly f	row	· -t	te	Fi	eld compu	tation	5	0 PQ	192	17 N.A.
CDMPILATION			,		/ 3431	— ,	- 01	03.	gð	- .

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

Some difficulty was experienced in placing a projection on this sheet due to lack of flatness of the celluloid sheet. While a satisfactory projection was obtained at the time, the sheet has since changed shape and no longer joins the south sheet, T-5039, or on the north with Sheet No. T-5028.

The change is irregular, and the joining of map details was accomplished by fitting a single minute of longitude at a time. To check future changes in overall dimensions, the distance between neat lines at latitude 37 - 48 - 20 was

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measured January 29, 1934 and found to be 113.68 centimeters, while the true value is 113.75 centimeters.

NAMES

The name Old River is applied without dispute to that section of the river west of longitude 121 - 26, and should properly be applied also to that part of the river east of this meridian. The correctness of this designation is verified by local usage and by use on maps entitled "The San Joaquin River Survey of 1931" oprepared by the U.S. Engineers in collaboration with the Department of Engineering, State of California, and the California Debris Commission.

The U.S.Geological Survey, Union Island California Quadrangle, uses the name "Salmon Slough," for this section of the river, but no confirmation of any kind could be obtained for the application of this name to the particular section of Old River on which it appears.

The name "Salmon Slough" cannot be definitely attached to any stream, but probably is most correctly applied to the maze of channels connecting Grant Line Canal with Old River near meridian 121 - 25. Although the existence of the name is generally admitted, its indefinite location has led to its omission from the sheet.

LANDMARKS AND RECOVERABLE OBJECTS.

For list of landmarks and recoverable objects, see general section of descriptive report for sheet T-5027 - (duplicate list of land marks for this area is attached at back of desc. report T5027).

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Bacon Strong

Names UK with exception of salmon Slough to be added to braided waterways at eastern end of Mabian Bell Canal as indicated in our memo anddiscussion.

await further invisitionation of the was named Old River, Middle River & Salmon Slough. The placing of Salmon Slough will deput when The decision in regard to These names.

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1			5	Survey No. T	5036
Data Ø	st 31, 1934	GEOGRAPHIC NAMES		Survey No. H	,020)
The same of the sa	lames underlined in	red approved Oct 31	, <i>1934</i> Di	agram No	
	Approved by the Division of Geo	♥ f. /	of Interior.	turther in	quiry to
<u>"</u> ⊈¢, No	ot Approved by the Division of	Geographic Names, Departmer	nt of Interior. $\frac{d}{dt}$	be made . rames not a	concerning phroved
R, Re	eferred to the Division of Geogr	aphic Names, Department of I	nterior. Comfi V,5.0	arison mad	le with thony Quads,
Status	Name on Survey	Name on Chart or other Maps or Reports	New Names in local use	Names assigned by Field	' Location
	Old River (usqs)	Desc Report T5036	Conflicting Salmon Ste	evidence, US	95 calls this extra ated
				-	74.B.
	Grant Line Canal	USGS Same			
		·			
	Fabian and Bell Canal	U.S.GS, Same			
· · · · · · · · · · · · · · · · · · ·	Union: Island	U.S.G.S. Same		:	
	Tracy Island Road	Desc, Report T50367			
	Clifton Court Road, . 1	Desc Réport 7,5036;			
.a. 🚡					<u>.</u>
1	Undine Road, O.K.	Probably OK. See Undine &	school on U.S.	GS. Umon S.	Russ,
	241	B,		:	
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(M 100)

RECOMMENDATIONS

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

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

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

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

Yes

- A. 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.
- Migh water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 76. 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 occur on this sheet. For general statement regarding water lines see descriptive report Sheet 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.
- 6. 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.

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ю.	The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
и.	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".
12.	The descriptions of recoverable ####################################
X3.	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. List is on file as a chart letter
X4.	The geographic datum of the sheet is N.A. 1927 and the reference station is correctly noted. (Par. 34.) Yes
<i>1</i> 5.	Junctions with contemporary surveys are adequate.
18.	Yes Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) Yes
<i>1</i> 7.	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. (Calluloid ink is used on all air photo. compilations. Drafting is good on this sheet)
18.	
19.	Remarks:
20.	Examined and approved: LARayer T. Peul ton Chief of Party Chief Photo Compiler
21.	Remarks after review in office: Refer to the report on this project attached to dosc report for T 5017 for description
Rev	iewed in office by: B.g. Jones of the country.
Exa	mined and approved: K.T. Adams & Dardun
	Chief Section of Field Records Chief Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography and Topography.

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