U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

JAN 18 1934

Aoc.-No.

Form 504 Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton , Director

State: California

DESCRIPTIVE REPORT

Topographic Hydrograpitic

Photo.

Sheet No. T-4689 4683

<u>4689</u>8

LOCALITY

San Joaquin Delta

Eldorado Pump....

Middle River

1933...

CHIEF OF PARTY

O. S. Reading

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	Jan 10, 1935	7 Chart 5527
	Jan 10, 1935	- grw.
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Descriptive Report to accompany Air Topographic Sheet T - 4689

(1) General Information:-

- (a) This sheet is a compilation of air photographs taken by the U. S. Army Air Corps using five lens camera, type T 3 A No. 28-30-1, carrying six inch F 6.8 lenses. Flight photographs #812 to 833 and photographs #871 to 890 were taken between 9:35 A. M. on December 12, 1931. A type F-1 A plane was used, and an altitude of approximately 5000 feet was maintained.
- (b) The area of this sheet is covered by the two strips of photographs mentioned above. extending from longitude 121°23.6' to 121°31.6'.
- (c) Thirty-two square miles of topography comprise the area of this compilation. There are approximately $14\frac{1}{2}$ miles of rivers and sloughs less than 200 meters wide; and 6- miles of rivers and sloughs in excess of 200 meters wide.
- (d) For the most part the area covered by this sheet is under cultivation.

(2) Control:-

1st order tringlation by I Borne 3rd order 1931 (a) All Three point fixes, intersection points, and triangulation stations used in the compilation of this map were the work of L. P. Raynor, and all computations were based on the 1927 N. A. Datum.

(3) Compilation:-

- (a) The radial line plot as applied to five-lens photographs was used throughout the sheet.
- (b) All information shown on the sheet is from notes made on the photographs by the field inspection party. Notes were complete in detail.
- (c) Information from other sources -- No information from other sources was used.
- (4) Comparison with other Surveys:-
- (a) No difficulty was encountered in effecting a satisfactory junction with all adjoining sheets.
- (b) There were no previous surveys by the U. S. Coast Survey in this area.

(5) Landmarks:-

(a) A list of landmarks was furnished by L. P. Raynor on form 567

and is filed as a Chart Letter.

Respectfully submitted

A. Wullern

By W. Esskine

J. H. Wulbern

by F. G. Erskine,

Jr. Cartographic Engineer. January 15, 1934.

Title (Par. 56) Leu fraguin Polta, Eldorado Rump. to Midale River, California.

Chief of Party O. S. Reading Compiled by J. N. Woulden.

Project Science San graguin 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.)
- 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".
- 3. The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
- There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)
- 5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 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.)
- 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. The no previous Constitution chart.
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 9. The data furnished by the Field Inspection is adequate.

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.

21. This okeet, as well as the regation has been corrected to include field revision by tent L.P. Raynor. The descriptions report of this revision is uncluded in This report.

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- 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".
- 12. The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) his week he done by the Raymor during the My evographic survey of this area.
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) Listo of landmarks were furnished by the file inspection and and on five as Chart Letters.
- 14. The geographic datum of the sheet is N.A. 1927 and the reference station is correctly noted. (Par. 34.)
- 15. Junctions with contemporary surveys are adequate.
- 16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) from field inspection rates and the field revision.
- 17. The guality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- 18. No additional surveying is recommended.
- 19. Remarks: The compiler of this sheet resigned before a report was written from notes he lift:
- Examined and approved: 20.

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Chief of Party /
Remarks after review in office: (See page A

Reviewed in office by: Kauk G. Eiskine

Examined and approved:

K-T. Adams Section of Field Records

Chief, Division of Charts

Chief. Section of Field Work

Chief. Division of

Hydrography and Topography.

DESCRIPTIVE REPORT OF

PIELD REVISION ON ALUMINUM PLATES

This revision was applied to sheet before being registered and also has been applied to negatives.

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FIELD REVISION TOPOGRAPHIC SHEET 4689

AUTHORITY, LIMITS, CONTROL, DATES, METHODS.

This work consists of the field revision of topographic sheet No. 4689, and air photo compilation of the San Joaquin Delta from Eldorado Pump to Middle River. The authority for the work is contained in Director's letter of 2/6/33, Subject: Field Revision, Sheet 4690 and Director's letter of 3/17/33, Subject: Air Photo Control for the location of topographic details Field Inspection. was furnished by two aluminum sheets coated with gum arabic, on which the compilations had in part been printed. navigation were located either by triangulation or from a traverse The usual plane table methods were used, as will be later noted. traverses being started from triangulation points or three point fixes were obtained using triangulation stations or well determined topographic objects located by the photo plot, with the exception of the location of the tule patches in Whiskey Slough. Here since the topographic detail had not been printed on the aluminum plates, it was carefully transferred from the paper print to the plate in the localities where work was to be done. The table was set up at some point easily identified from the print and oriented on one of the tall wooden power poles and the detail run in. In two places shown in red on the paper print the work was done directly on that print. Work on this sheet was completed May 26, 1933

GENERAL DESCRIPTION OF TOPOGRAPHY, CULTURE, SHORE LINE.

The cultivated lands shown on this wheet were originally tule swamps, built up by deposits of silt and much decayed vegetation, except for the area in the southeastern part of the sheet, the approximate limits of which are shown by red line on the paper print. This area is higher than the other land and less level, It contains The land, with the exception noted a greater proportion of sand. is below mean lower low water and irrigated by means of syphons which take water from the nearby sloughs. The pumps shown are used to take out the surplus irrigation water or if needed, are used as syphonst to bring water to the crops. All of the land except the higher land noted, burns readily when dry and a fire once started continues to burn until the ground water table is The levees built to reclaim reached unless the area is flooded. lands and protect from floods, are from six to twelve feet high. They have to be rebuilt periodically due to the settling of the peat formation on which they are built. Due to the fairly steep

slope of the levees and the small range of tide, the high and low water lines are almost coincident. In fromt of some of the levees a tule growth one to five meters wide is seen and the outside edge should be shown as high water line for navigation purposes. Except for a few scatter patches of thin tule, where the depth of water is three feet or so, the tule marshes on this sheet have a definite edge, which should be shown as the high water line. The marshes are evidently of varying level, but the tule growth is from four to seven feet above high water at all seasons of the year.

ACCURACY OF FIELD INSPECTION, COMPARISON WITH PHOTO PLOT.

Along the San Joaquin river where it was known that changes had taken place since the pictures were taken, the shore line was carefully located with plane table from traverse, until the Several shots were also new shore line joined with the 'old. that was known to have been the same taken on the shore line as at present. In most all cases the check was remarkably good. Just east of light 28 and east of Black Slough Landing, there seemed to be some error in the photo plot, as indicated on the aluminum The shore line of the rest of the area plate of this area. was carefully inspected from a boat, and the following was noted. Several small patches of tule, most of them probably difficult to identify in the photographs, have been located in black ink on the aluminum plates or in red ink on the paper print of the sheet. Some changes were made in the tule island shore line, near Harris Landing in Whiskey Slough. A small tule patch, in Latham Slough northwest of Camp 22, McDonald Island has been located, as well as a small bushy tip and tule patch in Turner Cut south of Acker The bush should have shown on the phot-ographs and is of considerable use to pilots using Turner Cut in foggy weather, there being considerable traffic through this and Empire Cut. It should have been much more accurate to indicate bushes, marsh and levees of Acker Island, Walters Island, and Morrison Island than the quite accurate sketching that has been done by this The limits of marsh and locations of levees at Ship-Yard Island were located with a few stadia shots and are more However, this island is to be used for accurately located. future spoil area, I believe. The three point fix shown on the paper print in the Lower Jones Tract is as noted in a previous in the wrong field. The gable shown near three point fix letter. west of triangulation station Black is a tree. Several hydrographic targets which should have shown on the phogographs in atham A three point plane table Slough were apparently not identified. fix, using the pole near Medford puring and located by photo plot, and the two wood poles south of Christensens Landing located by triangulation, was used to plot the houses at Camp 8 of the Lower None of the houses appear to have been moved but Jones Tract. except for the large barn, the new locations do not check the photo As they are behind the levee, the buildings are of no great

In the matter of locating and mapping importance to navigation. buildings, the following idea is offered. Certainly all buildings on the levees except corn cribs about which notes were sent with the photographs, should not be left out if other buildings behind the levees are shown. At Ryans landing, Turner Cut house on levee has been added to the plate, while at Bates landing a large prominent house as well as the small dock and the tank house have been located by a traverse from photo control point near Christensen's landing. These should all have shown on the photographs together with the only house near Christensens landing that was omitted and the outer gable of which had been located from photot control point and its geographic position computed. Data for plotting the new shed near three point fix at 23B McDonald 'sland was submitted with the photographs and has been added to the plate. The private road shown south of the Sahta Fe Railroad between Quito (now Lacto) and Holt does not now exist and should be deleted. Holt, U. S. G. S., a red tank located by the Geological Survey as a triangulation station was spotted on some photographs and direction and stadia distance was taken from our triangulation station Holt. possibly this point as well as the freight station at the town of Holt will be plotted on the sheet below this one.

CHANGES.

The dredging of the twentysix foot channel in the San Joaquin river has been completed and the changes in the shore line that have occured since the pictures were taken, are indicated by the black lines on the aluminum plate. As indicted on the paper print, the pipe line shown on the tule berm north of U.S.E. Pt. 18 has been removed and should be deleted from the chart. A low dam has been placed on east side of Morrison Island as shown. A new shed near camp 22 McDonald Island has been located.

POWER POLES AND OVERHEAD POWER LINES.

The wooden power line pole on the Lower Jones Tract across from the pole near McDonal pump has been located and the overhead power lines indicated. The overhead power lines from Mildred Island to Lower Jones tract are also indicated.

ROADS, FERRY.

Except for the county roads that have already been noted on the prints, all roads on the levees are private dirt roads, and those elsewhere are usually farm or crop trails. The McDonald Island landing of the county ferry has been located and the ferry crossing indicated. The ferry is operated by means of a wire cable fastened to both shores. Boats should no pass in from of the ferry when it is under way, and preferably should wait until the ferry is made fast at one of the slips, to be sure that the cable is slack

AIDS TO NAVIGATION, HOW LOCATED.

Lights 25, 26, 28, and 30 were located by triangulation cuts from U.S. E. Pt. 18, and Black without a check. Lights 23 and 24 were located from Pt. 18 with plane table. Lights 27 and 29 were located From a plane table traverse starting at Pt. 18 and closing at Steel pole at Black Slough landing with an error of 1 meter in Lights 31, 32, 33, 34 were located azimuth and none in distance. from a plane table traverse starting from the Steel pole at Slough landing. This traverse was not closed but the distances between set ups was measured both forward and backwards and it is believed that the lights have been located with the required As a check on their location, the plane table was set up at Elmwood 1931, with orientation on the Steel pole at Black Slough landing, and sights on the lights went through their location on the plate.

NAMES.

The name "Roberts Island" originally applied to the area bounded by the San Joaquin River, Old River, Middle River, Trapper Slough, and Whiskey Slough, the latter slough running between the two parts of the McDonald tract, and Trapper Slough and Whiskey Slough were continous not being dammed off at Holt. When this dam was built Billiand the Opperland Lower Jones tracts were some times included though perhaps erroneously, in the Roberts Island, as is shown on the geological Survey quadrangles. This name is now given exclusively to the land bounded by San Joaquin deries agree River, Old River Middle River, Trapper Slough, Whiskey Slough, and Turner Cut; at least locally. Empire Cut rather than Empire Slough is the correct name of this water way, as it is entirely the work Names of all camps of of dredging and not a natural channel. Lower Jones tract have been indicated on the paper print. A blue print showing these numbers as well as the numbers of the camps on the Rindge tract has been sent toyyour office. Christensen Landing not Christenson Landing seems to be the correct spelling according to the Geological Survey quadrangle of this area. Ryans Landing and Turner Landing near Turner Cut seem to be the accepted names among the pilots operating in this locality. Morrison and Walters Islands, are names taken from the U.S. Engineer Shipyard Island has also been called Vulcan Island on some of their work, but I believe the former is preferable.

MAGNETIC MERIDIAN.

The magnetic meridian was determined at U.S.E. Pt 18 on May 18, 1933, at 9:20 am, with declinatoire No. 184. Five degrees right and left as well as zero were observed, with results as follows: 130 20', 18° 35', 23° 36'. The line drawn on the plate is the actual observed meridian with needle at zero.

Stockton, Calif. June 15, 1933

Respectfully submitted, Spland L. P. Raynor H. & G. Eng'r Chief of Party.

These boun.

LIST OF PROMINENT OBJECTS.

West gable, house Christensen Landing

U. S. E. D. Marks

Wooden power line pole

Tank house, Bates Landing

Tank, Christenden Landing

Lights, 23, 24, 25, 26, 27, 28, 29, 30 31, 32, 33, 34

The name Christensen Landing is painted on the gable which was located by theodolite 3 pt fix.

The seven U. S. E. D. stations located by plane table are standard marks of this Corps,

This pole south of the one on McDonald Island near pump and was located by plane table.

This is wooden tank house, now painted red.

A low open tank on levee at this place.

Odd numbers green, even numbers red. Lanters, located.

Form 537a

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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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 4689
State California
General locality San Joaquin Delta
Locality Eldorado Pump to Middle River
Scale 1:10,000 Date of survey May 19 33
Vessel Air Photo Field Inspection.
Chief of Party L. P. Raynor
Surveyed by L. P. Raynor
Inked byL. P. Raynor
Heights in feet aboveto ground to tops of trees
Contour Approximate contour Form line intervalfeet
Instructions dated 2/6/33 and 2/17/33 , 19
Remarks: Field revision of photo compilation to show changes
and locate aids to navigation,

Form 537a Ed. Nov., 1929

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

U. S. COAST (S GEOR	DETIC SE	JRVEY
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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 No.

	REGISTER NO. 4-689
	StateCalifornia
	General locality San Joaquin Delta
	Locality El Dorado Pump to Middle River Date of photographs - Dec. 12, 1931 Date of compilation - Mar. 1933
	Scale 1:10,000 Date of compilation - Mar. 1933
	Vessel Army-Air-Corps-FjA-airplane
Ý	Chief of party_Lieutenant_O.S.Reading
Photographs	plotted by
4	Inked by J. H. W.
	Heights in feet aboveto ground to tops of trees
	Contour, Approximate contour, Form line intervalfeet
	Instructions dated, 19
	Remarks: Compilation of aerial photographs #812 to 833 and 871 to 890
	Reduced to scale and printed by photo-lithographic process
	Polyconic projection by - J. H. W. Hov. 1, 1932 Projection verified by - F. G. Erskine Nov. 2, 1932 Control plotted by - J. H. W. Nov. 3. 1932 Control verified by - F. G. Erskine Nov. 4, 1932 Photographs plotted by - J. H. W. Nov., Dec., 1932 Sheet inked by - J. H. W. Jan., March 1933

Form 537a Ed. Nov., 1929

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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TOPOGRAPHIC TITLE SHEET

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The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

- Field No--

REGISTER NO.4689 A

State California
General locality San Joaquin Delta
Locality Eldoredo Pump to Middle River
Scale
Vessel
Chief of Party
Surveyed by
Inked by
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated, 19
Remarks: Showing corrections and additions to the original
survey. For additional data see the Descriptive Report

46897

Descriptive Report to Accompany Air Photo Topographic Sheet No. 4689-A. (to be included in report of T-4689) Eldorado Pump to Middle River, San Joanuin Delta, California.

This sheet contains changes, additions, and corrections, (shown in red) to the original survey of this area.

Sources of Information.

(July 1934) (May 1934)

Sheets No. 19, No. 23A, and No. 54A, Air Photo Section files; letters No. 7, No. 9, and No. 20 Air Photo Section files; blue prints No. 25706 and No. 25708; plat of McDonald Tract; original celluloid sheets for T_{-4689} , T_{-4690} , and T_{-5028} ; photos as 860 to as 890 and as 930 to as 950, hydrographic survey #6002.

Compilation.

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In the southeast corner of the sheet the azimuth of the A.T. & S.F. R. R. was in error. With additional control (falling on T-4690) and the correct azimuth of the railroad, a replot was made from the photographs changing the detail in this area. These changes gave a good junction with T-5028.

Air Photo files sheet No. 19, McDonald Tract plat and B.P. No. 25706 supplied additional names.

H-6002 furnished several additional tule islands and a few other. corrections of minor importance.

Air Photo files sheet No. 23A and letter No. 7 consisted of a plane table revision of Latham Slough. The shoreline of McDonald Tract in one place and that of Mildred Island in three places was found in error. These errors were all less than ten meters. The tule islands at the south end of Latham Slough were shifted south by a slight amount. The north shoreline of the large island opposite Camp $21\frac{1}{2}$ was some 30 meters too far north. The plane table revision states that the H.W.L. on the original compilation was the outer edge of numerous weeds, the weeds appearing the same as tule on the photographs. A few additional islands were picked up by this revision. Recoverable stations used in this re-, vision are shown on the sheet.

Air Photo files sheet #54 and letter #20 consisted of a plane table revision of the San Joaquin River due to changes made by dredger operations. These corrections were applied by & H. Wausher

Several signals for H-6002 at the upper end of Latham Slough were located by plane table on this aluminum sheet (23-A). See page 2, paragraph A2. descriptive report H-6002.

Blue print No. 25708 (Captain Weathers Map) gives the name "McDonald Tract" instead of "McDonald Island".

Respectfully submitted, frank f. Erskine.

October 1, 1934

NAMES; There are no charts covering the area of this project except chart 5534 at the junction of the Sacremento and San Joaquin Rivers. The following maps filed as Blueprints were furnished by the field party with corrections made from field examination to show the names in local use and have been used in making the corrections to compilations on this project:

Capt. Weathers Map (1931)--EP.- 25708

U.S.G.S. Quadrangles EPs. --25702 to 25707

(See also chart letter No. 698 (1932)

Name lists are now being prepared under Mr. Bacon's Direction and will be attached at the back of the descriptive reports when completed. Any changes in names indicated by the name lists will be applied to the compilations at the next printing.

November 26, 1934

Trank & Eskill

GEOGRAPHIC NAMES

Survey No	T-4689	
	H-6002	_
Chart No.		

Date.	Dec.	6,	1934	

HMS

Names approved Dec. 6, 1934. A.Bacon

Diagram No.

*, - 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
	Roberts Island	Maps agree			·
	Mildred Island	11			
	McDonald Tract should henning Tract Show as ind	Maps consulted agree and is east and north of the lettered there.	e on this poi Whiskey Slo	nt. McDonald ugh, and sho	Tract uld be
	Lower Jones Tract	Maps agree	·		
	Upper Jones Tract	- 11			
-	Middle River	18			
1	Empire Cut	" Note statem	ent in DR.Not	Slough	
•	Whiskey Slough	"		<u> </u>	
	Turner Cut	- 11			
	San Joaquin River	11			
,	Midway Slough	11			
	Fourteenmile Slough	- 11			
	Letham Slough	11 .			
-	Acker Island	11	,		
<u> </u>	Walters Island	11			
	Morrison Island	11			
~	Vulcan Island should	be Shipyard Island see	DR for T-468	HMS	
	Walters Point	Maps agree			
	Turner Landing	11			
	Wellington Lending	н	,		
ىيى '	Blackslough Landing	11			
	Hart's Lending shou	d be Harts Landing "			
		See page 2 for sam	e sheet		· (M I

CEO	CDA	PHIC	NIA	AFC
ULU	UNKA	PHIL	IVAI	VIES

Survey No.	T-4689	
	H-6002	7 207
Chart No	,	-

Date.	Dec.	6,	1934
		-	

hms

Names approved dec. 6, 1934. A Bacon Diagram No.

- *, 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
	Ryan's anding should	e Ryans Landing Maps a	gree	22 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	
150	Ricco Landing				
	Hilman's Island should	be Hilmans Heland "			
	Bates Landing -				
, , ,	Christenson Landing sho	uld be Christensen Landi	ng see DR f	or T-4689	
Ì	Harris Landing	Maps agree		-	
	Empire Landing	- 11			
	Midway Slough -	"			
	Asparagus Landing				
	Black Slough not on a channel	heet, but appears on man and should be added.	y maps as a	clearly defin	ied
	French Landing OA				
			War and War		
		The state of the s			
	For sources consult	ed see DR for T-4689. HM	3		
an -			# A	*	4
6.2					-
	P. Landau and C. Company				
1					
-					~ den (m

November 27, 1984.

To: Capt. K. T. Adams, Chief, Section of Field Records.

From: Helen M. Strong.

Subject: Spelling on Survey Sheets for San Joaquin Delta.

The following authorities are being used to verify spelling on above:

MAPS

From Coast and Geodetic Survey Mbrary:

U.S.G.S. Quadrangles.
Topographical and Irrigation Map of the San Joaquin Valley,
California State Engineering Department, 1886.

Topographical Map of Central California together with a part of Nevada, State Geological Survey of California, 1875. Topographical and Irrigation Map of the Great Central Valley

of California, State Engineering Department, 1887.

Delta of the Sacramento and San Joaquin Rivers, California,
Weathers, 1928, Corrected to Oct. 1, 1981, C. & G. S.

Blue Print No. 25708.

From Library of Congress:

San Joaquin Delta, 1914, Henderson & Billwiller. San Joaquin Valley, 1917, U. S. Engineering Dept., 11 Sheets and Index.

Sacramento Valley, 1935, Standard Oil Company of California.
Central Sacramento Valley, 1928, E. A. Abell.
Sacramento Valley, 1914, Punnett Bros.
Sacramento and San Joaquin Valleys, 1921, Weathers.
Sacramento and San Joaquin Rivers Delta, 1928, Weathers.
Sacramento and San Joaquin Rivers, 1921, Punnett & Peres.
Sacramento and San Joaquin Rivers, 1898, Punnett Bros.
South San Joaquin Irrigation District (West Half), 1921, Jeffries.
Delta Farms, 1918, Brown & Co.

Irrigation Map of Central California, 1922, Dept. of Agriculture, Bureau of Public Roads, Irrigation Investigations. Contra Costa County, 1914, Arnold and Glass. Alameda County, 1915, Fraters.

San Joaquin County, 1931, California State A.A.A.

San Joaquin County, 1922, A. M. Barton, C.E.

San Joaquin County, 1916, Budd & Widdows.

San Joaquin County, 1895, Compton.

Complete Map of California, 1 inch to 1 mile, Rand, McNally & Co.

Bulletins

San Joaquin River to Herndon, 1917, U. S. Engineers, H. D. Ho-832, 65th Congress, let Session (maps).

California Public Works Bulletin 25, State Water Plan, 1930. Sacramento-San Joaquin Flood Control, 1916-1930.

(A collection of House and other documents, Washington.) California State-Wide Flam, 1980-1982.

California Public Works Bulletin No. 29, San Joaquin River Basin, 1931.

California Public Works Bulletin No. 26, Sacramento River Basin, 1981.

California Public Works Bulletin No. 27, Variation and Control of Salinity in the Sacramento-San Joaquin Delta and Upper San Francisco Bay, 1951.

Aclen M. Strong.

References also consulted for names on sheets for the San Joaquin-Sacramento Delta. These are all in the files of the Coast and Geodetic Survey:

Blueprints nos. 25702, 25703, 25704, 25705, 25706, 25707 which are U.S.G.S. quadrangles on which new names have been inked by the C.& G.S. field party; these quads are Collinsville, Jersey, Bouldin, Headreach, Holt, Stockton.

Blueprint no. 25708, the Weathers Map of the San Joaquin Sacramento Delata, ed. of 1928, rev, 1931.

C.& G.S.Letter 698-1932, listing names on various quadrangles above noted.

Helen M. Strong.