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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: California

DESCRIPTIVE REPORT

Francerentia Hydrographic

Sheet No. B

LOCALITY

San Joaquin River Delta

Taylor Slough to Old River

1933-1934

U. S, COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET W. S. COAST & GEODETIC SURVEY

APR 24 1934

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

Field No. B (75014)

REGISTER NO.

State California
General locality San Joaquin River Delta
Locality Taylor Slough to Old River
Scale 1:10,000 Date of survey Oct. 6, 1933-Mar.7,1934
Vessel Launch Helen F.
Chief of Party Lieut. L. P. Raynor
Surveyed by Frank Davis
Protracted by K. L. DeBlois K. L. DeBlois
Soundings penciled by K. L. DeBlois K. L. DeBloi
Soundings in MANAGEMENT feet
Plane of reference MLLW
Subdivision of wire dragged areas by
Verified by R.B.K. + W.H.B. 22LE 1990, 3-17-33; 26RS 1990, 11-9-33; Instructions dated 22AHH 1990, 8-12-33; 22AHH 1990, 11-16333; 22RS 1990, 9-2-33; 22MEN 1990, 12-2-33.
Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1928

DESCRIPTIVE REPORT

of

HYDROGRAPHIC SHEET B (5014)

AUTHORITY, LIMITS, DATES:

The INSTRUCTIONS for this work are contained in the following:

- 1. 22LE 1990 March 17, 1933
- 2. 22AHH 1990 August 12, 1933
- 3. SUPPLEMENTAL INSTRUCTIONS PROJECT 98HT Sept. 2, 1933
- 4. 26RS 1990 November 9, 1933
- 5. 22AHH 1990 November 16, 1933
- 6. 22MEN 1990 December 2, 1933

The sheet covers Sand Mound, Piper, and Taylor Sloughs and parts of Dutch Slough and Old River in the San Joaquin Delta, and includes the dredger cuts made in the reclamation of the various islands and tracts in this area. Most of the work was accomplished in November 1933, but some additional work was done in March and April, 1934.

GENERAL NOTES:

As has been previously noted in the report on the photo field inspection, much of the cultivated land was originally tule marsh. The levees are built up from dredged material taken from the adjacent waterway, and due to the settlement of the levees, dredging has to be done periodically to keep the top at height and grade. As the material is needed for levee work the dredger pays more attention to the needs of the levee than to the depth of the channel for navigation purposes. This leaves an uneven bottom though a general attempt is made not to dredge so deep that the levee will tend to fall back into the waterway.

The bottom is mud, peat, sand, and clay. The original river bottom also shows considerable uneveness due, apparently, to the presence or absence of sand or clay.

SURVEY PARTY

This work was done by Frank Davis, Surveyor, usual duties in charge of the launch; Joseph LeConte, Observer, left angle and bearings with pelorus; Chas. M. Anstead, right angle and reading range finder; S. H. Van Gelder, Plotting; C. Kester, Recorder; M. D. Dibble and Myron Bear, alternating as Leadsman and Coxwain. Kester had had considerable experience in the Coast and Geodetic Survey in his position as Recorder, although with no experience as recorder with range finder and bearings. Anstead had had much previous experience with the sextant and proved to be efficient and reliable in the use of the range finder. The rest of the party were entirely new to our work and as this sheet was one of the first on which work was done, several discrepancies occured as will be noted later, some of which may be attributed to lack of experience. The Chief of Party supervised the field work of the hydrographic party until it seemed certain that the men in charge had a full understanding of the work.

SURVEY METHODS

The signals for control of the work were located by several methods:

River, east of the Frank Tract and also near the large shed on the levee on Mandeville Island were located by standard topographic methods using Whatmans paper which had been well seasoned in this locality and on which the projection had been drawn and triangulation control plotted. This sheet has been submitted as a revision sheet for topography on T 5014, (short 6 to Photo plane).

- 2. Other signals were located by using the photolithographic print of T 5014 as a planetable sheet and rodding in the signals from some well identified object on the sheet. These points are shown on the print, which was later used as a boat sheet, thus (P) and in red ink.
- 3. Spotting directly on the smooth sheet from the topographic detail, i.e. tule points, intersection of ditch lines with the high water lines, gables of buildings, corners of sheds, and other prominent landmarks. These are listed in Vol. 1, p. 2, 62, 63, 64,6 and 66; Vol. 5, p. 11; and the signal vol. p. 2.
- 4. Sextant cuts and three point fixes. These are shown in blue circles on the boat sheet and smooth sheet and are listed in Vol. 1, p. 2, 62, 63, 64, and 65; Vol. 2, p. 2; and Vol. 3, p. 2.
- B. The positions were obtained either with the usual sextant three point fix or by the use of range finder No. 7277 and bearings by compass No. 24874 using pelorus No. 24874. The deviations of the compass were determined by using range No. 3, San Joaquin River and taking bearings on every 150 rhumb. The magnetic bearing used for determining the deviation was 3120. The "Observation of Compass Deviation" and "Deviation Table" are attached to this report. The range finder was calibrated on Nov. 1, 1933 and used for "A" to "P" days, inclusive, It was also calibrated on Nov. 18, 1933 and used for "Q" day only. The calibration on April 3, 1934 was used for "S" day. The conversion curves which reduce the range finder readings to meters are shown on sheets attached. The distances when the range finder reads above 50 are not considered as reliable as readings less than that, and when a signal was used that was further away than a 50 reading, and at the same time there is a distance measured to the nearest shore line, the latter will govern in case of a discrepancy.
- C. The depths were obtained by the standard method using

either the leadline or sounding pole. Soundings were read
to the nearest one-half foot. On the smooth sheets the
soundings were plotted to the nearest one-half foot up to
10 feet and to the nearest foot for depths over 10 feet as authorized by the instructions of December 2, 1933.

authorized by the instructions of December 2, 1933.

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It is free from the distortion that is troublesome with the Whatman sheets. The positions and signals are easily marked by a needle indentation. The surface takes ink quite satisfactorily. However, in plotting the soundings in pencil, the surface acts similar to a very fine sandpaper even with 9H pencils. If the figures are examined under a reading glass it will be seen that they do not form a continuous line but rather a series of black and white dots. Erasures are easy but it removes the surface coat leaving a shiny mark and making pencil or ink work over the erasure unsatisfactory.

ANCHORAGES AND LANDINGS

There are very few wharves on these sloughs. The boats and barges using the channels make fast along side the levee at nearly any place desired. Usually landings are made at the various sheds shown on the levee. There are four ferry slips, one on each of the four islands, Bradford, Jersey, Frank, and Webb, at the junction of Taylor Slough, False River, and Fisherman Cut. These are used by the ferry operated by the Contra Costa County and furnishes hourly service during daytime.

SHOALS, WRECKS, AND SNAGS

- 1. There is an $8\frac{1}{2}$ foot shoal between SMS1 and SMN1 extending part of the way across the channel from the north tip of a small tule island.

 Also I foot pour line N XE 1 $\frac{DS6}{100}$
- 2. There is a $1\frac{1}{2}$ foot shoal between DS6 and D**W6**.
- 3. There is a long narrow shoal extending south from PM4 Positive C down the center of Piper Slough. The least depth is $7\frac{1}{2}$ ft.

It gradually disappears about 80 meters northeast of PW28.

4. There is an 8foot spot in the center line of the channel in Piper Slough, and 70 meters northwest of PE2, also a 9 foot spot in the center line 40 meters east of PW3.

There is a sunken barge near WQM5 and located by positions 104 and 105J. There is also a sunken barge near SMM10, located by positions 116 and 117J. These are both shown on the smooth sheet.

There are snags between positions 132 and 133J and one snag between positions 1 and 2N. These are shown on the smooth sheet and should be avoided by all small craft to which considerable damage to propellor and hull could be done.

It is not known, however, how long they will remain in place.

CHANNELS

Practically all of the waterways are used for navigation, either by pleasure craft or by commercial vessels. The pleasure craft draw from $l^{\frac{1}{2}}$ up to 4 feet, while tugs and barges draw from 4 to 9 feet, the greater depth being that of some of the deeper tugs. The channel depths vary and are as indicated by the depth curves as drawn on the boat sheet. Thus far the U. S. Engineers projects in most of sloughs have called for a depth of 9 ft. at MLLW.

DEPTH DISCREPANCIES

The following discrepancies in depths at various places were noted but it was not considered necessary to make a field correction for the reasons given below.

- 1. Depth at position 13B near WQ1 is 17 ft.

 " " " 11C " " 29 ft.

 " " 12C " " 16 ft.

 Old River is quite deep and the bottom drops off so sharply that these depths are quite possible even though the positions plot close to each other.
- Depth at position 420 near ORM27 is 18 ft.
 Depth between positions 58 and 59B is 15 ft.
 The 15 ft. depth is shown on the smooth sheet. Both lines are tied in by three point fixes. Being close to shore it is possible that the bottom may vary 3 ft. in a short distance.
- 3. Depth between positions 69 and 70D near EQ2 is 20 ft.

 " " 61 " 62B " " " 32 ft.

 " " 40 " 41E " " " 23 ft.

 None of these points fall exactly on each other and it is safe to assume that the bottom drops off sharply.
- 4. Depth between positions 31 and 32E near SQ12 is $7\frac{1}{2}$ ft.

 " " 52 " 53B " " " 14 ft.

 Both lines are located by three point fixes. It is possible that the "B" line at the 14 ft. sounding may have been taken further from the shore than indicated. The $7\frac{1}{2}$ is shown.
- Depth between positions 38 and 39E near ORM25 is 26 ft.

 " " 54 " 55B " " " 34 ft.

 The shore line "E" may have been closer in at this point.

 The Old River bottom drops off sharply and two or three meters in distance is likely to account for considerable variation in depth. The 26 ft. is shown.
- 6. Depth between positions 54 and 55C near ORM33 is 10 ft.

 " 62 " 63E " " 5 ft.

 Both lines are located by three point fixes. The "E" line is evidently nearer the shore than the "C" line at this point.
- 7. Depth between positions 76 and 77E near EQ9 is 16 ft.

 " 69 " 70C " " " 22 ft.

 The 22 ft. point is slightly outside of the 16 ft. The 16 ft. is plotted.
- Depth between positions 75, 76, and 77 near EQ9 are 21, 18, & 16 ft.

 "5, 96 E"

 "95 and 96E are 26, 25, and 26 ft.

 The "K" line is located by three point fixes and plotted as straight lines between fixes. This line is evidently on the outside of the "K" line. The shallower depths are plotted.

 * 75-76 77 E Line Corrections by WHEREBERD.
- 9. Depth at position 109E is $8\frac{1}{2}$ ft.

 Depth between positions 131 and 132C near ORM30 is 14 ft.

 The 14 ft. depth is plotted as being more consistent with the channel construction depth. The $8\frac{1}{2}$ ft. depth may be due to the stopping of the boat causing the lead line to be further inshore.

- 10. Depth between positions 45 and 46G near ORW55 is $5\frac{1}{2}$ ft.

 " " 118 " 119C " " " 11 ft.

 The share line "G" must be inside of the 11 ft. depth.
- 11. Depth between positions 90 and 91H near SMS1 is 24 ft.

 " " 76 " 770 " " " 9 ft.

 The 24 ft. point is north of the 9 ft. depth. The soundings indicate a shoal extending in a northeastwardly direction from the north end of the small tule island.
- 12. Depth between positions 29 and 30Q near DS3 is 16 and 18 ft.

 " " 7 " 8H " " " 13 ft.

 The 13 ft. depth is shown. There is evidently a hole on the "Q" line.
- Note: Some of these discrepancies may be due to the sounding chair being located 1 meter off the center of the boat on the starboard side.

TIDAL DATA

The tide reducers were obtained from the records of standard automatic gage, located on Sand Mound Slough, near pumphouse on Frank Tract, and from the portable automatic gage placed on False River near the Ferry Slip on Webb Tract. The areas and times, for which each gage are to be used are indicated on the boat sheet by appropriate notes. The tide tabulations, records, comparisons, marigrams, data sheets, and level records were received by you on April 5, 1934, with the exception of what is attached to this report.

The plane of reference for reduction of soundings is MLLW, and is 4.4 on the tide staff at the Webb Tract. The highest tide observed at this gage was 9.0 on the staff and occurred on October 30, 1933; the lowest tide was 4.0 on the staff and occurred on November 18 and 19, 1933. MLLW on the staff at the Frank Tract is 2.4 on the staff, while the highest tide was 6.6 on this staff and the lowest 1.8.

Tables used for reduction of soundings using these gages follow:

TABLES FOR TIDE REDUCERS

Webb Gage		Frank Gage
MLLW is 4.4 on sta	aff.	MLLW is 2.3 on staff.
Staff reads		Staff Reads
2.6 to 3.1 add	la ft.	0.5 to 1.0 add $l_{2}^{\frac{1}{2}}$ ft.
3.1 to 3.6	1 ft.	1.0 to 1.5 " 1 ft.
3.6 to 4.1	½ ft.	1.5 to 2.0 " $\frac{1}{2}$ ft.
4.1 to 4.6 subtract	0 ft.	2.0 to 2.5 0 ft.
4.6 to 5.1	½ ft.	2.5 to 3.0 subtract $\frac{1}{2}$ ft.
5.1 to 5.6 "	1 ft.	3.0 to 3.5 " 1 ft.
5.6 to 6.1 "	l½ ft.	3.5 to 4.0 " laft.
6.1 to 6.6	2 ft.	4.0 to 4.5 " 2 ft.
6.6 to 7.1 "	2½ ft.	4.5 to 5.0 " 2½ft.
7.1 to 7.6	3 ft.	5.0 to 5.5 " 3 ft.
7.6 to 8.1 "	3½ ft.	5.5 to 6.0 " 3½ft.
8.1 to 8.6	4 ft.	6.0 to 6.5 " 4 ft.

CLEARANCES; OVERHEAD POWER LINES, AND BRIDGES

- 1. Farrar Park Bridge is a timber highway bridge on pile bents. All the spans are fixed. Horizontal opening is 11 ft. Vertical clearance at MHHW is 8 ft.
- 2. Jersey Island Bridge is a timber highway bridge on pile
 bents. All spans are fixed. Horizontal opening is

 13 ft. Vertical clearance at MHHW is 8½ ft. at the ends
 of the bridge. Vertical clearance at MHHW is 10 ft. at the ?

 center of the bridge.
- Mound Slough is a new line the south support of which
 was erected since the pictures were taken. The clearance as determined by the range finder in November 1933

 Plotted
 was 105 ft. but permit of the U. S. Engineers calls for
 a height of 110 ft. and is, I believe, No. 99 on the
 list of clearances as furnished by the U. S. Engineers
 and sent to you some time ago.
- 4. For the overhead cable, Holland to Quimby, the vertical clearance, 110 ft. at HW as printed on the smooth sheet, was taken from data furnished by the U. S. Engineers and gives the minimum clearance allowed by the permit for this crossing. The clearance as determined by the range finder in November, 1933, was 120 ft. but 110 ft. is the official height and is correctly shown on the sheet.

LANDMARKS.

Copy of List of Landmarks on form 567 is attached to this report, and a further copy has been mailed under separate The objects with (3) are useful in local navigation only, he: for a help in determining, the camp near which one is passing or the exact location in the adjacent slough. The objects with (2) (3) are for the most part power line poles, wooden or steel, and can be seen for a They should prove of much help in considerable distance. the general navigation of the Delta. As most of them are located by means of third order trianguation, their positins are well determined. They could therefore, be used as ranges for the determination of compass deviatins, if so desired. It is suggested that both classes of landmarks be placed on the chart (new) of the Delta if space permits. At any rate all of those in class (2) (3) should appear on the chart.

COMPARISONS WITH THE U. S. ENGINEER SURVEYS.

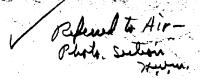
Hydrography accomplished by the U.S. Engineers in False accompanies River and Washington Slough was transferred to sheet T futuridad) 100 5014 and mailed to you some time ago. A tracing of this transfer was retained here, and compared with our work in this vicinity and found to check well. In accordance with your letter of November 16, 1933, no work was done by this party in either False River or Washington Slough.

TABLE OF STATISTICS

SHEET B (T5014)

Dat	е	Day	Miles	Soundings	Positions
Oct.	6	A	0.75	40	7
Nov.	1	В	3.90	253	62
11	3	C	12.00	668	137
tt	4	D	10.70	592	88
Ħ	6	E	10.70	692	111
11	7	F	12.00	758	105
11	8	G	14.00	880	111
11	9	H	14.50	993	119
Ħ	10	J	16.90	1378	138
11	13	ĸ	19.00	1715	146
11	14	L	7.00	569	5 4
11	15	M	6.90	627	71
11	16	N	1.30	165	14
Ħ	17	P	1.20	113	16
11	20	Q	3.40	345	4 6
Mar.	7	R		23	
TOTA	LS		134.25	9811	1246
April	' 6 9	5 T	2.2 1.0	158 187	23
			137.45	10156	1299

CHANGES AND ADDITIONS TO T 5014



The following changes or additions resulting from the field inspection of sheet T 5014 during the progress of the hydrographic work are shown on the smooth sheet.

- 1. Between ORW55 and ORW57, the shore line is shown in red and planetable survey executed by this party and submitted on Whatman' paper.
- 2. Two additional tule islands are shown in red between ORW51 and ORW52. They were located by three point fixes. See page 65 days, that, of Vol. 1 of the sounding records. Another tule island between positions 22T and 25T is located according to the time spacing are according to the sounding line. See page 54, Vol. 6. They have the first of the sounding line. See page 54, Vol. 6. They have the first of the sounding line. See page 54, Vol. 6. They have the first of the sounding line. See page 54, Vol. 6. They have the sounding line of the sounding line. See page 54, Vol. 6. They have the sounding line of the sounding line. See page 54, Vol. 6. They have the sounding line of the sounding line. See page 54, Vol. 6. They have the sounding line of the sounding line of the sounding line of the sounding line. See page 54, Vol. 6. They have the sounding line of the
- 3. Barn on levee near ORM33 was relocated by planetable survey v */ mentioned in paragraph 1.
- 4. The wooden power line pole at Farrar Park opposite DSS was
- 5. Change in tule islands at ORMSO, ORMS1, ORMS2 are redrawn in # / red to agree with the planetable survey.
- 6. The wooden power line pole north of SMM7 was relocated by third order triangulation and has been repletted as Sand Mound Slough, Frank Tract Wooden Power Pole, 1933.
- 7. The new steel power line pole erected south of SMME, some time after the pictures were taken has been plotted on the map as the triangulation station, Sand Mound Slough, Holland Tract, Steel Transmission Pale, 1933.
- 8. The wooden pole shown on T 5014 in the tule berm near the center of the slough, has been deleted as only the stub remains.

 The steel pole mentioned in paragraph 7 takes the place of this pole.

The following corrections have been noted on the boat sheet, but not on the smooth sheet.

- 1. The barn near ORW55 is in the wrong position; see revision sheet of the planetable survey.
- 2. Barn on levee near M4 is gone and should be deleted.
- 3. Barn near ORES is gone. * **

9.

- 4. Ditch near OREl is gone.
- 5. The numbers of the camps near EHM1 have been added $v^{\#_{\mathcal{V}}}$
 - 6. Windmill near EHM5 is changed. 4/
 - 7. Barn on levee near EHM4 is gone.

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CHANGES AND ADDITIONS TO T 5014 (continued)

- 8. Ditch near TW10 is gone.
- 9. Beet loader near TW6 is gone. $V^{\#}V$
- 10. Ditches near TW1 and PW26 are gone.
- 11. Ditch near FE2 is gone.

GEOGRAPHICAL NAMES

On a separate T 5014 sheet, the camp numbers or names which should be added to this sheet are shown in red. The names were obtained locally and were chacked by Capt. Lent who is one of the relief pilots for the Port of Stockton and has had many years of tugboating on the Sacramento- San Joaquin Dalta.

Box 1132, Stockton, Calif., April 13, 1934.

Respectfully submitted by

Approved by Lifeur L. F. Raynor

Chief of Party

The sounding records were inspected by the Chief of Party when opportunity arose, and the dates of inspection are noted in the sounding records.

Supervision of the hydrographic and signal building parties was made until it seemed certain that methods of doing the work were understood.

Plotting of the smooth sheet was inspected for gross errors and all discrepancies in depths due to line crossings were inspected and notes for correction made.

Depth curves were drawn in ink on the boat sheet. They were not drawn in pencil on the smooth sheet because of the confusion that would result. They can better be drawn after the soundings have been inked.

L. P. Raynor

H. & G. Engineer Chief of Party

LIST OF DATA FOR USE WITH HYDROGRAPHIC SHEET B (T5014)

- 1 Descriptive report containing:
 - 13 sheets of descriptive report.
 - 1 sheet "Landmarks for Charts", form 567.
 - 1 sheet "Hydrographic Title Sheet", form 537.
 - 2 sheets "Observation of Compass Deviations", form 355.
 - 1 sheet 'Deviation Table", form 261.
 - 4 sheets of plane table positions.
 - 6 sheets of range finder curves (3 curves).
- 1 Smooth sheet on aluminum.
- 1 Boat sheet-photolithoghaph T 5014(white).
- 1 Sheet with geographic names; photo-lithograph of T 5014(white).
- 6 Volumes of "Soundings", form 275.

Tidal data, Webb and Frank Tracts(1 book, "Tides", form 277 submitted herewith. Other tidal data received in Washington April 5, 1934.

Form 567

DIVISION OF CHARTS, FILE No. DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

	 Stockton, Calif.,	
•	, 1	934

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

				Positi	ON.				
Description.		Latitude,			Longitude.		Datum.	Method of deter- mination.	Charts affected.
	•	,	D. M. meters.	•	,	D. P. meters.	Datum.		
Silo (3)	38	00	(1548) 302	121	37	(200) 1264	NA 1927	Planetable	New San Joaquin
'ank (3)	.38	0 0	(1568) 282	.121.	37.	(246) 1218	11 ·	tt	11
Farrar Park Wooden Cower Pole (3)	38	-00-	(391) 1459	121	- 30	(919) 545			<u> </u>
ank (3)	38	01	(929) 921	121	39	(733) 730	t†	Photo plot	
Jersey Island Vindmill (3)	38	02	(1333) 517	121	4 0	(-) 794	tt	ti	n .
rank Tract Wooden ower Pole (2)(3)	38	01	(1325) 525	121	36	(1368) 95	, H	Triangu- lation	n
Colland Tract Steel Cower Pole (2) (3)	38	01	(1611) 1239	121	36	(1366) 97	11	1t	ti
olland Tract indmill (3)	3 8	01	(1483) 367	121	34	(114) 1 349	H	Planetable	18
rank Tract Steel ower Pole (2)(3)	38	01	(155) 1695	121	34	(190) 1273	. H	Triangu- lation	11
uimby Island Steel ower Pole (2)(3)	38	01	(253) 1597	121	34	(451) 1013	11	11	n
. W. corner of uilding on levee (3)	38	02	(1831) 19	121	34	(1305) 158	11	Plane- table	Ħ
rank Tract Tank (3)	38	02	(291) 1559	121	35	(1437)	11	11	'n
orth of 3 Wood Power2) oles-Webb to Frank (3)	38	03	(479) 1371	121	36	(1352) 111	11	Triangu- lation	tt .
iddle of 3 Wood Power oles-Webb to Frank (3)	.38	_Q3	(567) 1283	121	.36.	(1405) 58	11	11	H
outh of 3 Wood Power(2 .s-Webb to Frank (3)		٠,	(666) 1184	121	.35.	(2) 1460	11	n	11
ank at Ferry Slip (3)	3 8	03	(1054) 796	121	3 8	(372) 1091	NA 192	Photo 7 plot	11
ank near Instrument etup 6490 (3)	38	03	(610) 1240	121	40	(-) 744	tt	11	H.

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

11—5048

July 2, 1934

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in 6 volumes of sounding records for

HYDROGPAPHIC SHEET 6000

Locality Taylor Slough to Old River, San Joaquin Delta, Calif.

Chief of Party: L. P. Raynor in 1933-34
Plane of reference is mean lower low water, reading
4.4 ft. on tide staff at Webb Tract

9.6 ft. below B. M. 1

2.3 ft. on tide staff at Frank Tract Pump -0.1 ft. below B.M. 1

Height of mean higher high water above plane of reference is approximately 3.5 ft.

Condition of records satisfactory except as noted below:

Acting Chief, Division of Tides and Currents

Carry Carry

	Nov.	30	1034
_	MOA.	وبات	1934

GEOGRAPHIC NAMES

Survey No. 5-60	00
T-50	14
Chart No.	

Diagram No.

THE	

Names approved Dec. 3, 1934

•	N	12	ac	on	ı
	· .	, -	-		

- *, 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
	Dutch Slough	Local usage and reli	able maps		
	Taylor Slough	•			
	Piper Slough	*			
	Sand Mound Slough				
	Old River	**			
	False River	"			
	Jersey Island	**			
	Bradford Island	*			•
	Mandeville Island	"			
	Quimby Island	*			
	Rhode Island	11			
	Holland Tract	Earliest maps and U.S. land. All recent and c	G.S. Quads cal	l it Roosevel	t Is-
	Bethadl Tract	Local usage and relia			PRINCES OF LAW OF THE PRINCES OF THE
-	Franks Tract				
	San Joaquin River	- "			
	Webb Tract	n ·			
	Fletchers Landing	1		-	
	Shima-Shima Landing	Onlineathers maps is S	hime.		
	Jersey Landing	On all maps this is or to False River, inste	n San Joaquin	River, near en	itrance
	Fishermans Cut	"	## AT # ### TO	CO COL OH DIMOUL	~
	Washington Slough	11		1	Location
	Approve spelling, b	ut not location of Jerse	y Landing. H	MS	
	For list of authori	ties consulted for names	see DR for T-	4685. HMS	

1		ی	-014					
		Plane To	ble Shee	+				
	5	wed from	who	mens 5	heet		en e	
.		by 7	opo. Porty.	R.E.M.GOL	wn.	4		
Signal	1 at	211	Long.	DP	Adju.	D.P.		
Signal ORM 55		(1807.5)		(325.0)	(1808.2)	(324.2)		
•		1	į			1		
		(1589.0) 263.4	• • • •	(341.5)	(1587.0)	(340.7)		
			1	,		t I		
•		(1142.3)	0.1.	(287.5)	(1140.9)	(286.7)		
OR1956	38-03	- 710.0	121-34					
· •		(676.2)	<u> </u>	(224.2)	(675.4)	(223.6)		
	i	ł		1 ,	ļ.	1238.8		
		(357.8)		(152.2)	(357.4)	1310.76		
ORM 58	38 -03	1494.6	121-34	1	i			_
		(291.0)	_	(1.436.6)	(240.8)	(1437.2)		
	i contraction	1560.0		1 .				
!	İ	(1499.01		(54.0)	(1497.0)	1403.4	-	
	i			1 !	1			
- ;		(7584)	+	(1393.6)	(758.5)	(1393.9)		
E.Goble	38-03"	1091.3 -	121-35	60.3	1091.3	60.3	•	
:		(203.8)	<u> </u>	(1461.0)	(703.0)	(1460.4)		
ORW57	38-03	1148.30	121-35	2.0	1147.0 -	2.0 -		
		(138.8)		(323.5)	(138.8)	(323.7)	+	-
S. Goble	38-01	17/2.0	/21-33					
		(1829.7)	121-34	(1305.3)	(830.8)	- (1304.9)-		
N.W. Cor	38-02	- 19.2 -	121-34	158.3	19.2	158.3		
		(733.2)) 4	(2515)	(733.0)	(749.8)		
ORM37	38-02	///2.3.	121-34	1		712.81		
		996.6)-	(896.8)	(853.8)	(895.5) 567.3) -	
. E99	38-02	996.6	121-34				,	
·		(10257,	2-	(1067.2	10248	1 1066.4	<u> </u>	
E98	38-02	825.9	121-34	396.8	8 25.2	396.5	1	
? · · · · · · · · · · · · · · · · · · ·	_	(1096.7.)	(200.0)	14 (1096.3	1/99.8	<i>)</i>	
OR135	38-02	254.0	121-34	263.8	/ /35./	165.7		
		1/392.3)+	1 (1/36.8	1 (1372.	3 / (2 - 3 - 2 - 3	Я	1
EGT	38-02	V 457.7	121-34		l l	326.)		-
		(5350	升	(1281.0))- (1535.6	1280.7	1	
OR1939	1 38-02	3/4.3	/ /21-34	182.5	3144	184.4		$\overline{}$
i 2	}					7		

	Sugar	1 at	2 1	1000	DP	Prof	25/2d	
	Signar	-601	(1600.0)	Long	(1355.6)	(1599.0) -	(13.55.3)	
	173	28-02.	251.2	121-34'	D.P (13556)- 107.8-	251.0 -	107.8 4	`*
	M4	30 02 -	(1334.2)-	12130	(1341,2)-	(13344)-	(1339.8)	
	174							
	175	38-0Z -	107.5	121-34	(1294.0)	(1142.7) v	169.9 -	-
	M/	25	(905.0)	171-24	(1217.8)· 245.4/	(904.7)	(12/7.5)	
	176	38-02	1					-
	177	38-02-	1113.1	121-34,	(1037.0)-	11/2.0 -	(1035.9) 426.8 r	
-	118	38-02~	(651.6) - 1200.0 -	121-34 0	(860.5)- 603.1 -	(651.0) -	(860.0)- 602.7_	<u>-</u>
	0RM36	**		!	(964.4) 419.8		ı	
			i		(236.0)			*
	EGZ		(014.9)-	- , ,	(289.1)	(10140)	288.8 -	
					(255.7)			· '
					(13340) ⁴ 130.1 ⁴	į	_	
			1		i .	ł		
					10522			
]		1 1	I	1038.0	J	1	
	OR1136	38-01-	(263.2)	121-33	(293.3)-	(263:3)- 1586.7-	(293.2) 4	
	ORM3)	38-012	(403.2) 1445.7	121-33-	(105.3) 1356.3-	(403.4)- 1446.6	(105.4) 1357.9	
	ORW56	38-03-	(1216.4) 634.3	121-34-	(52.4) 14/2.6	(1215.9) 634.1	(52.3)~ 1410.2 ~	-
	DRW55	38-03-	(1605.0)- 245.82	121-344	1386.3	245.7	1384.4	-
	E96	38-01	(12.2) 1838.5	121-34-	(1093.3)	(12.2)	370.6	
		· · · · · · · · · · · · · · · · · · ·						
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	. I	1	1			1	. I	ſ

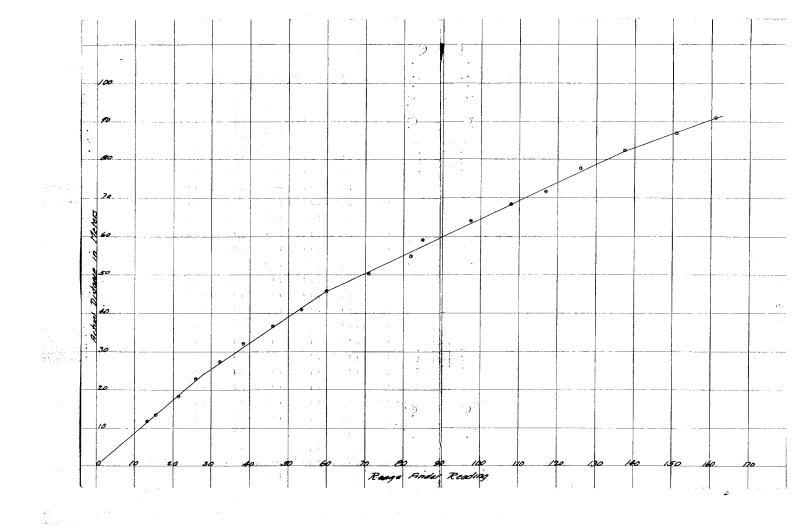
						The second second second second		: 1	rom - on j
						Adja	stad		
		lat.	217	Long.	D.P. (1096.5)	1212934	(1096.1)-		
	signal	L. U.	7. M. (343.4) 1507.8		21.71	1506.8	367.2	-	
	EQ5	380012	1507.80	121-54 ~	361.4		/ - ~ = 1-		
· u				•	1122021	(11143)	(1379.3)		and the state of
	172	38-014	1707.90	121-34-	84.00	1703.1			
	116				1 /	1/11/22 2/2	111437		
,			(1483.5)	121-34	1350.9-	367.3	1349.34		
	Winamill	38-01	361.5	, p. 1 - 2 T		(22-2)	10000		
	In a Dala		(391.5)		919.1)	11501	545.0		
	Wood Pole	38-00	1461.5	121-38-	545.00	1437.1	(918.9)		
•	4770. 70		(,)		(97.01-	(1548.0)	(200.0)		
-			(550.0)	121-37"	1264.84	302.00	12640		
•	51/0	38-00				1 (1-12	(246.0).		
	Center of		(1567.8)	-	(244.0)	1568.0	(246.0)		
		38-00	1 28361	とノユノー3つ~	1217.50	202.0	1218.00		
	7077 170000		ے سر رور ر		(996.5)	(465.4)	4 (997.1)		
	5/133	00-01	1385.6	121-35	466.2	13846	(997.1) 466.5 x	T	
	Vradyar Ball	3 -01/	4		11	1/2253) (1365.4)	-	
	Wood		(132.5.2))	(1368.4	524.8	95.1	+	
		38-01	524.8	121-36	75./			1	
			(1611.0)	+	(1366.2	1611.0) (1366-2)		1
	Power Tolo	38-01	239.0	121-36	47.3	259.0) - (1366-2) - 97.3		
	Yower roll								
				,					
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	77/		5.	peal 501	4	- + 5 be	et.	
	Pla	ne Table	Location	or scale	d from	Day Ad	usted	
	Signal	Lat.	D.17.	Long.	DP.	D.17.	DP	
		- 1	(480)		(28)	(479.5)	- (28)	
ļ	SQ4	38-00	1372 -	121-33 -	-	1370.5		
• ;	.1		(100)-		(1113)-	1111251	(110= 7)4	1
	596	260.0	1305	171-71-	357	(147.8)	3579-	
	246	38-00	//03	121-14	037	7702.2	227.7-	
!			(46)-	. , .	(1006)	1460	(1008.6)	-
• -	597	38:00	1806-	121-34-	454	180400	(1008.6) 455.0	
1		i		Į.	1			
		38-01	(1552)-		(1329)	(1555.4)4	(13340)"	
77	599	38-01	294-	121-346	129 -	294.6-	129.5-	
		1		I	1	1		
		38-01	(1628)		(135)	(1632.4)	(35)	
	5910	38-01	2/7	121-33	- -	217.6	_	
		1	112221-	 	17751 -	//222 -1	(3,51-	
1	5011	38-01-	122	121-22 -	0/0/	1223 6	(318)-	
	i	i		1	ļ	/		
			136)~		(822)-	136016	(822)	_
	5912	38-00-	1816	121-33-	- 6	1814.0		
		38-00-	(30) 4	1	(671)4	(30.0)	(67/)-	
	Tree	38-000	1821 -	121-3 3,4	-	1820.0	f . — · —	
		!						
		38-01	(1/30)	\	(20)	(131.8)	(20.0)	
	5 MN5	38-01	7/7/1	121-35	1439	118.2-	1442.2	
			(1)		(212	(1220 -1	1265-1-	
	CMAIS	38-01-	(1738)	121-26-	165	(134.4)	103.3	
	3////0	30.01	110	7-1-50	676	110.7	676.5	
			(34) ~		(611)	(34.0)	(611.0)	
	517149	38-00	1817	121-36	851-	1816.00	851.0 -	
	•				İ			
	_	38-00r	(258)	1	(374)	(258.0)	1 (374.3)4	† !
	SMNIO	38-000	1592-	121-36	1087-	1592.0	1087.7 -	
	:		(= -= \		1			
	CM AIII	38-00 -	(457)	101-314	(163)	(256.9)	(163.2)	
	3/7/1//	30-00	1374	121-36	127/10	7075.7	1-78.8	
	•		126 -l		(1240)-	(364 L)	(1248 1)	-
<u> </u>	SMINIT	38-00,0	1487	121-33	2100	1485.4	2145	
	1		1		1		1	!
•		38-00-	(3/4)	+	(174)	(3/3.2)	(174.4)	+
	SMMICH	38-00-	1537	121-36	1286	1536.8	1288.6	+
		İ			1	1	1	
	.	38-00-	(526)	t.	(89).	(525.4)	(89.2)	
	3/1/1/13H	38-00-	1326	1721-36 4	-1370-	1324.6-	15/3.8	1
*		i .	1	, -	1	!	1	,
	. MP 1119	38-00	3/1	121-34	10101-	(1487.4)	7 2083.5 1	1
		1	!			i	i	1
			(1300)		(577) ~	(13920)	151831	
	ORWA	38-00-	459	121-34	9431	458.0	945.5 4	1
	. - - / .							
	·	1			<u> </u>			
	1			- 1.	1.	I	1	

				1				
	Samuel	lat	D 11	Long	D.P	pro	usted pp.	
	OPMA	380-00'	(414)-	Long 121-342	(1316)	(1413.2)-	(1320.4) 143.4	
								•
					(909)		1 1	-
			l .	121-34 -			(596.9)	
	0819/2	38-00 V	(605)	121-34-	(844)v	1245.70	(846.7)	<u></u>
i !	1		1		1		(1080.8)-	
	0RM13	38-00 -			1		1	
			1	121-34	Į.	ļ	(1341.Z) 122.5	
	CRM15	38-00-	(532)- 1320-	121-33 -	(101)-	1318.6	(101)-	garage and applications of the second of the
	OR1916	38-00-			(64)-			
	OKM17	38-00-	1791-	121-34	2071	1790.0	207.7	
	!	1			1	li .	371.2	
	081719	38-01-	(1645)	121-34	(1342)	202.3	(1346.1)	
	ORMZO	38-01	(809)	121-33 -	(221)-	(18/3.9)	(221)-	
	ORM21	38-00	(149)-	121-33°	(522)-	148.8.	(522).	
	073 44 = 2		(68)	+	()26)-	(167.8)	(726/-	
	ORMZZ	38-00			(889)	(103.8)~	(889) -	. •
İ	ORM23	38,00	1748	121-33		1746.2 -		
	OR1124	38-01	(1708)	121-33		(17/2.6) v 137.4 v		-
	ORM25	38-01-	239	121-33	(901)	239.74		-
	OR1438	38-02-	(810)×	121-34~	(474) 984 v	(811.3)	(475,6) 987,2	. •

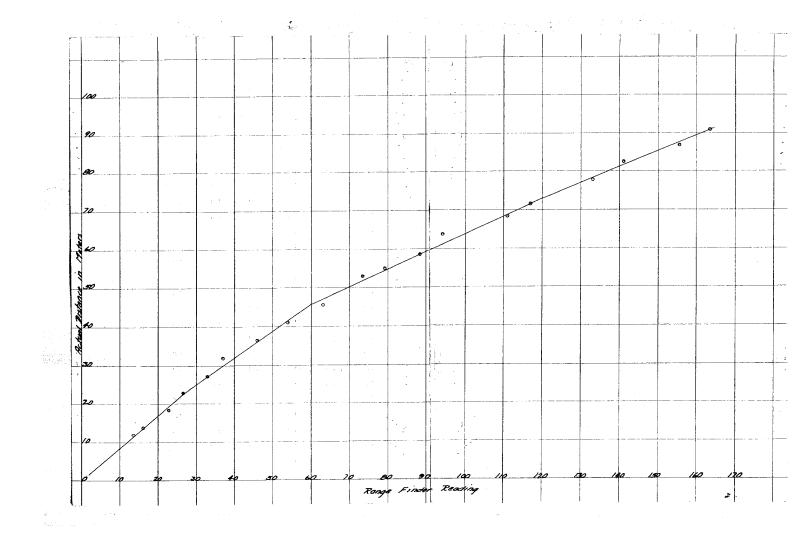
	Signal	1	20 1/2	1	20 20		usted	
	Signal	La1.	(466)-	Long	(1365)-	(465.5)	(1369.6)	,
	Signal SM1114A	38-00-	1386 -	121-37-	93	1384.5 1	93.3	
4			(= > 6)-		(1230)-	(5360)	(12350)	
-	SMM15A	38-00-	1314	121-37-	(1230)-	1314.6-	227.9 4	
•								
•	SMMISR	28-00-	1107)2	121-37	(1115)-	11438	344.7	
•								1
	5/1/1/50		(593)-		(079)	(592.4)	(1082.6)	
	5/7/9/50	38-00.	12592	121-37	319-	1251.6	380.3	4
			1787		1375 _	1790.9	- 1379.6-	-
	TWIT	38-01-	59-	121-39-	1375 _	59.1.	842	
	1			ł	i	·		
	TEIO	38-010	428-	121-39-	(1018) - 443 -	428.7-	443.8	
					ļ			
	TEII	38-01-	165	121-39 -	(1226).	165.4	234.6	-
					1			
	0724071	3000	(369)	121-734	(7/6)	(1372) "	(7/6)	
	UK19 26	38010	4//	121-37		770		
			(365)		179"	(365.0)		
	DN6	35-00 -	1485	121-40	179"	1485.0 "	179	
			(399)		_	(398.8)		•
	DN7	38-00	1452	121-40-	375	1451.2	375	
			(7/7)~			(717.0)		
	259	38-00-	1133	121-40-	217	1133.0		
				,			(242 2×	
	SM173A	78-00-	1929	121-36	748	1828.0	749.5	
		1						
		205.01	(419.7)	121-20	142.1	(1419.8)	(1020.99)	
	1					/		
·			(1685.2)"		232.8	(1685.4)	(1230.6)	
	TEII			1	1			
			(1555.3)	-	(1031.5)	(1555.6)	(1032.2)	
	TW16	38-011	294.3 r	121-39-	431.0	294.4	431.3	
	TWIT	38-01	60.8 V	121-39	(1378.84)	60.8	84.24	
•								
•	DNG	38-00V	(365.6)	171-200	179.6	1484 3	1791	-
	V / Y 6	10 001	(TOJ.0	TU	1.6	•		
•		2.0	393.7		374.5	398.8		
	DN7	38-00-	1450.8~	121-40.	574.5	1451.2	314.5	
		, ·	498-			(500.0)		
	056	38-00-	1345-	121-40-	36	1350.0 -	36 -	

						i			1
	4	į				1			
e :						PEIN	CIPIL		1
	:	RAI	NGE F	RF. No. 7		KSIUN	CURVE		-
- 1			lada bu		Nov 1. 1	933			:
- 1		· ·	3: PM	Tempera	ture 60°F				:
				B to P Day	5014				1
		- - -	B	And the second second	ndar Red	denia-			
	Yards	Meters	Right	Kange Fi	Down	Up			
•.	13	11.9	13.3	13.35	13.40	13.4			:
	15	13.7	15.5	15.5	15.6	15.5		•	1
	20	18.3	20.5	21.0	20.7	20.9			İ
	25	22.9	25.9	26.2	26.2	26.5			
	30	27.4	32.5	32.5	33.0	33.0			
	35	32.0	39.50	39.0	38.5	39.5		*	:
	40	36.6	46.0	16.0	47.5	44.5			
	45	41.1	53.0	54.0	53.0	53.0			
	50	45.7	60.0	60.0	63.0	62.0	i !		
	55	50.3	70.0	72.0	70.0	70.0			-
	60	54.9	8.4	80	80	80		ì	
	45	59.4	8 5	75.	85	88			
	70	64.0	18	97	97	102			
.	75	68.6	105	111	108	108			i
	80	71.6	11.5	119	118	/35			-
	. 85	27.7	125	127	/35	138			
	90	82.3	140	135	142	143			
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		86.9	150	152	150	150			
	95		ļ	160	170	170			1
	100	91.1	162				plotting	curve.	:
	Note:-	Keedings	Kight	(over)	uning all	WIEW III	in accord		



RANGE	FINDER	CON	VERSIO	N	CUR	VE
	R.F. No.					

			R.F.	No. 7277					
				hito - No		7.9			-
		7:4	Usad in	Voluma	6-0 Day	on/y			
				et 50				6	
_	Yards	Meters	Right	Left	Down	Up		 	-
	13	11.9	13.7	13.7	13.5	13.65			
	15	/3.7	15.8	16.4	15.6	15.6			
	20	18.3	21.4	21.7	21.8	21.8			
	25	22.9	26.4	26.5	26.7	26.6			
_	30	27.4	32.9	32.9	33.0	33.0			_
	35	32.0	37./	37./	38.1	38.0			
	40	36.6	45.8	45.9	45.8	45.6		ŧ	
	45	41.1	54	54	55	56			
	50	45.7	63	63	62	63			
	. 55	50.3	74	73	23	74			
	60	54.9	79	79	77	77			
	65	59.4	89	88	86	88			-
	70	64.0	74	94	96	102			
	75	68.6	111	111	106	107			
	80	71.6	117	117	113	114			
	75	77.7	134	132	135	134			
	90	82.3	142	140	140	144			
	95	86.9	155	156	158	158			
	100	91.1	163	164	170	17/			
			i .	,	,	,	1	1	t t



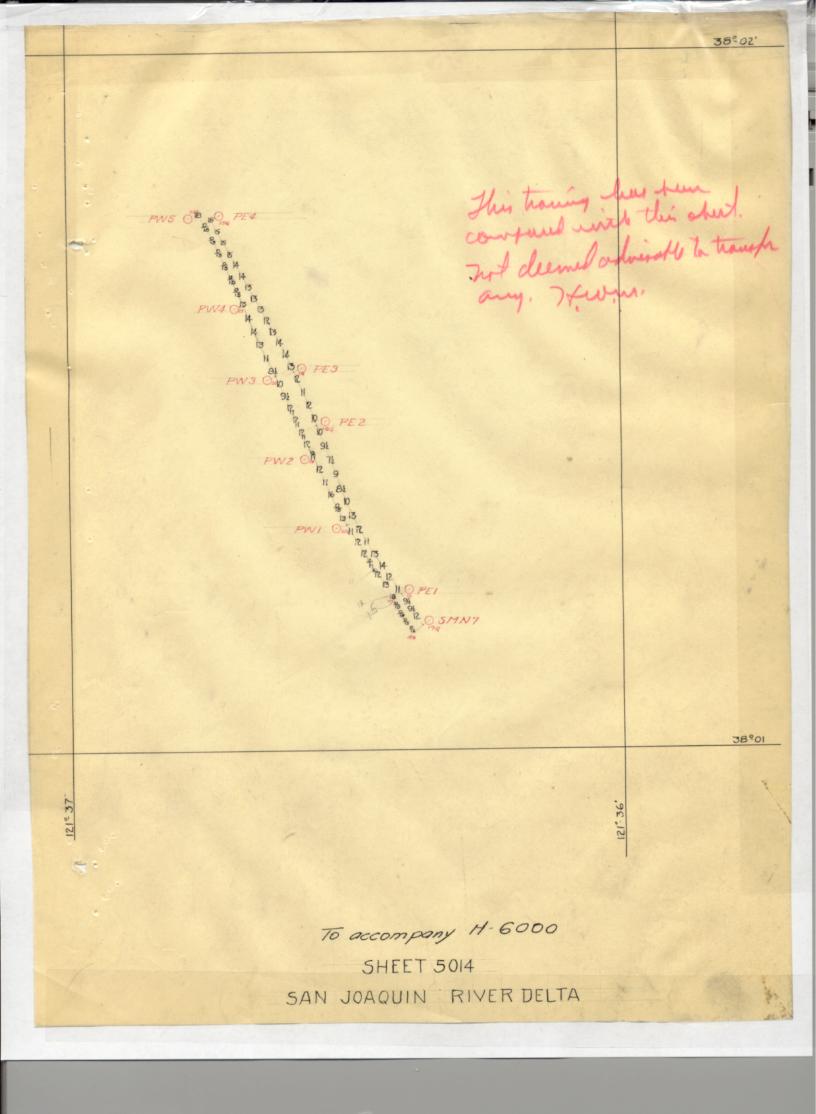
SHEET 5014

RANGE FINDER CONVERSION CURVE

Made by Anstead - April 3, 1934 - 4PM

				·		
-		Used.	in Vol. 6	5 Day	only	
		Maters	Object Moving away from	Object Moring toward		
-			Observer	Observer		
		12	12.5	12.5	,	
		15	15.5	15.5		
		Zo	21.0	20.7		
		2.5	25.5	25.5		
		30	29.5	30.0		
		35	340	34.5		
		40	390	40.0		
		45	45.0	44.0		
		50	50.0	49.0		
	· · · · · · · · · · · · · · · · · · ·	55	55.0	540		
	r .	60	60.0	60.0		
		65	66.0	640		
		70	71.0	69.0	,	
		75	75.0	74.0		
		80	79.0	77.0		
		.as	84.0	81.0		
		90	89.0	88.0		

NOTE: The range finder readings were taken in this manner; a whitewashed lath similar to the signals used in the field was held at 12 meters, the 15, and so on up to 90 meters for the readings in the first column. For the readings in the second column the lath was held at 90 meters, then 85, and so on down to 12 meters.



(1) and (2) are to be reckoned to the right from north from 0° to 360°

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
FORTH 868
Ed. July, 1928

COMPUTATION OF COMPASS DEVIATIONS

Steame	r		Da	te	
	declination		Sh	ip's rudder	······································
Ship's	Local apparent	hally e. bearing by	(2) Sun's azimuth	(3) Error of standard	(5) Deviation

Ship's head	Local apparent time	bearing by	(2) Sun's azimuth from tables	Error of standard compass	(5) Deviation	
0	h. m. s.	0 /	0 /	0 /		
0	1.3		3/3		/	
15						
30	3=7		316		-4 -2	, , ,
45	51		316		-2	reste
60						ns).
75		-				o sig
90	9.7		3/2		0	ind t
105						$(3)=(2)-(1) \qquad (5)=(3)-(4)$ Subtract algebraically (with due regard to signs). and (5) are positive when easterly, negative when westerly
120		-				(5)= due terly
135	137		308		+ 4	with
150						.) llly (wher
165						raice tive
180	/ C /73		315		-3-	= (2) Ligeb posti
195						3)
210				•		ubtr 1 (5)
225	208		3/3-	*	_ '3	S de (
240				***********		(3) (4)
255						3
270	262		310		42	
285			9			
300						
315	319		306		<u> </u>	
330	,		1. 1.			
345						_
040	Means					
	Mesus	I		<u> </u>		1

Declination from shore observations (or chart)(4)	
Mean compass error — declination = A =	

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Staguin River

24 - 1

Date 9/2 2/33
3/2 (20109) Ship's rudder

<u>, </u>	Ship's head	Local apparent time	bearing by	Summer h	(3) Error of standard compass	(5) Deviation
	۰	h. m. s.	0 /	0 ,	0 ,	· ,
	0		3/0	3/2		+02
	15		31.5	3/2		-03
360°	30		3/4	3/7		-02
)°	45		3/5	3/2		-03
om (60		3/4	3/2	-	70 Z
and (2) are to be reckoned to the right from north from 0°	75		3/4	302		-02-
n nor	90		3/1	3/2		+0/
fron	105		3/0	3/2		+02
right	. 120		309	3/2		to3
the	135		309	3/2		ta3 ·
d to	150		308	3/2-	1	104
Kone	165		310	312	1	102
reel	180 -		3/3	3/2		-61
to be	195		3/4	3/2		02
are	210		3/8	3/2		06
d (2)	225		3/2	3/2		0
(1) an	240		3/1	312		-01
	255		309	3/2		-03
i	270		306	3/2	1	106
İ	285		306	312		06
	300		306	3/2		16 /
	315	·	306	3/2	+4	
	330		309	3/2		63
	345		3/3	3/2	ı	1
1		Means				
D	aclination	from 1				

Declination from shore observations (or chart)__(4)__

Mean compass error - declination = A = -

(3)=(2)-(1) (5)=(3)-(4) Subtract algebraically (with due reg to signs). (3) (4) and (5) are positive when easterly, negative when westerly.

DEPARTMENT OF COMMERCE
COAST AND GRODETIC SURVEY
FORM 365
Ed. July, 1928
Ed. July, 1928
Ed. July, 1928
Ed. July, 1928
Form 365

Range is 3 pt. tin to Andrus Steel Pole
Steamer Launch Helen F. Date March 12, 1934.

Commercial Variation Used 180
Ship's rudder

	Ship's head	Local apparent time	Range XHAYX bearing by compass	Range	(3) Error of standard compass	(5) Deviation
to 360°	0	h. m. s.	210 ′	212	20°	+2 ′
	15		211	11	19	+1
	30		211	11	19	+1
	45		211	11	19	+1
00.1	60		212	11	18	0
fron	75		211	11	19	+1
(1) and (2) are to be reckoned to the right from north from 0° to 360°	90		212	f1	18	0
	105		213	11	17	-1
	120		211	Ħ	19	+1
	135		214	11	16	- 2
	150		213	1 1	17	-1
	165		211	71	19	+1
	180		212	tı	18	0
	195		210	11	20	+2
	210		211	ft	19	+1
(2) B	225		211	11	19	+1
Bnd	240		210	71	20	+2
(1)	255		209	11	21	+3
	270		209	ij	21	+3
	285		208	**	22	+4
	300		208	11	22	+4
	315	4,000	209	11	21	+3
	330		2 1 0	11	20	+2
	345		210	11	20	+2
		Means		-		

Declination from shore observations (or chart)_(4)__

Mean compass error — declination = A = _____

 $(3)=(2)-(1) \qquad (5)=(3)-(4)$ Subtract algebraically (with due regard to signs). (3) (4) and (5) are positive when easterly, negative when westerly.

COMPUTATION OF COMPASS DEVIATIONS

Ship's head	Local apparent time		(1) Sun's bearing by compass		(2) Sun's azimuth from tables		sta	(3) ror o ndar npas	d Devis	i i	
ò	h.	m.	8.	•	,	0	,		,	-	,
. 0											
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.135						•••••		ļ 			
150								 			
165											
180					.	·•					3
195											
210											
225											
240											
255							,				
270											
285										,	`
300											
315											
330		 -									
345											
'	Мея	ns									





te	Septemo	ber 22			, 19.33
titude		V	ariation used.		£
ngitude					
hip's head of compass.	Deviation.	Magnetic ford	Ship's head by compass.	Deviation.	Total
0°	0 /	+200	180°		ti7 - '
· 15°		T15	195°		116
~30°		116	210°		+12
45°		+15	225°		+18
60°		116 t	240°.		113
75°		116V	255°		121
90°		+19 ×	270°		114
105°		120	285°	···	124
120°		121	300°		124
135°	:	t31	315°	•••••	134 L
150°		+22	330°		121
165°.		+20	345°	,	*17
		STETAILS OF	COMPENSATION		
•		· **.			
	,	***			

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 6000..

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	1299
Number of positions checked	. 76
Number of positions revised	4
Number of soundings recorded	10156.
Number of soundings revised	101.
Number of signals erroneously	
plotted or transferred	none

Date: July 16, 1934 and Sept. 30, 1934

Cartographer: W. H. Bamford and R. B. Krum

Verification of protracting
Verification & inking of rocks and shoels

Verification of inking by

R. B. Krum

H.W.Murray

Time: 72

PRELIMINARY REPORT ON H. 6000.

- 1. The protracting on this sheet was visually compared with the boat sheet and seventy-six positions were protracted only four were found to be erroneously plotted and were changed.
- 2. The several paragraphs listed under "Shoals, Wrecks and Snags" on page 5 of the descriptive report were checked by protracting the positions and the shoals, wrecks and snags were inked on the smooth sheet.
- 3. Adjacent to and west of the 8 foot shoal between 9 SMS-1 and SMN-1 (ref. Par. 1 pg. 5. Descriptive Report) there is a seven foot sounding taken on pos. 15-S-Vol. 6. Both the 8 and the 7 ft. soundings were plotted on the smooth sheet.
- 4. The "Depth Discrepancies" tabulated on page 6 of the descriptive report were all checked and the positions controlling the soundings were protracted. The field party's recommendations were followed except in Par. 9. In Par. 9 the field party recommends the plotting of the 14 ft. sounding between pos. 131 and 132c instead of the 8½ ft. sounding on pos. 109E. It was deemed advisable to plot both soundings as the fix for pos. 109E is strong and appears to be unquestioned in the records as well as the sounding.
- 5. A correction to the shoreline on the west side of Old River from a point approximately 165 m. south of © ORW55 to some distance beyond © ORW57 in False River was shown on the correction sheet T. 5014-A.

The original black shoreline was removed from the smooth sheet and the corrected shoreline was shown in red ink. No attempt was made to correct the road running parallel with the shoreline as this may be taken from the correction sheet T. 5014-A by the compiler.

The sounding line adjacent to the shoreline was replotted by the verifier.

6. As noted in Par. 5, pg. 12 of the descriptive report, the Tule islands at ORM30, ORM31 and ORM32 was redrawn on the smooth sheet in red ink. The verifier removed the original black shoreline and replotted the sounding lines adjacent thereto.

July 16, 1934.

Respectfully submitted,

Warren H. Remford

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6000 (1935-54).

Taylor Slough to Old River, San Joaquin River Delta, California. Instructions dated Mar. 17 and Sept. 2, 1955 (L. P. Raynor). Surveyed - Oct. 1955 to Mar. 1954.

Hand Lead and Pole Soundings - 5 Point Control on Shore Signals,

Range Finder Distances, Compass
Bearings using Pelorus.

Chief of Party - L. P. Raynor.
Surveyed by - Frank Davis.
Soundings penciled and protracted by - K. L. DeBlois.
Verified and inked by - W. H. Bamford; R. B. Krum.

1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual with the exception that there was no evidence that the plotting of signals was checked since no initials were shown on the sheet pertaining to the checking. This was accomplished in the office.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the Project. The junction with existing Army Engineers' Surveys (required by the instructions) will be separately considered under Paragraph 5, below.

3. Sounding Line Crossings.

Sounding line crossings are satisfactory.

4. Depth Curves.

The usual depth curves may be satisfactorily drawn.

5. Junctions with Surveys.

a. The junctions with H. 6001 (1953-34) and H. 6005 (1933-34) are satisfactory. The junctions with H. 6003 (1933-54) and H. 6014 (1933) will be considered in the reviews of those sheets.

b. The junctions with the U. S. Engineers work in False River (BP 27021) is satisfactory.

6. Comparisons with Prior Surveys.

There are no prior surveys by this Bureau in the area covered by this survey.

7. Comparison with Chart.

There is no published chart covering the area of this survey.

8. Field Plotting.

The field protracting and plotting of soundings were accurate and conform to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

This survey is complete, no additional field work is required.

10. Superseding Previous Surveys.

There are no previous surveys to be superseded.

11. Miscellaneous Matters.

- a. The official clearance under the power line at Lat. 38°1'.2, Long. 121°36'.1 is 110 feet (by permit of U. S. Engineers, see Chart Letter #738, 1933). The field party determined a clearance of 105 feet (range finder) and this height is shown on the sheet.
- b. Page 9 of the descriptive report states that the vertical clearence at MHHW at the center of Jersey bridge in Lat. 3800'.8, Long. 121039'.5 is 10 feet. The smooth sheet when received from the field showed a clearance of 10½ feet in pencil. This was changed to 10 feet to conform to the descriptive report. The correct clearence should be determined by correspondence,

12. Reviewed by: Harold W. Murray - October 8, 1934.

Inspected by: A. L. Shalowitz.

Examined and approved:

K. T. Adams.

Chief, Section of Field Records.

Chief, Division of Charts.

Chief, Section of Field Work.

Chief, Division of H. & T.

Records.

The records are nest and legible and conform to the requirements of the Hydrographic Manual.

Protracting.

The protracting was checked in the office by W. H. Bamford. He also partially inked some of the shoals and made the necessary corrections to the shoreline from the correction sheet, T. 5014-A.

Drafting.

The field drafting was well done.

Crossings.

The crossings are in good agreement. ,

Curves.

The usual depth curves could be drawn, although portions of many curves were omitted where there was not sufficient space to include them without confusing adjacent curves.

Junctions.

This sheet joins H. 6005 on the north, H. 6003 on the east, H. 6001 on the south and H. 6014 on the west.

A tracing of all the junctions accompanied this sheet when it arrived from the field. *These junctions were transferred to this sheet although all the adjoining sheets have not yet been verified. The junctions are in good agreement. * Juntary fri-4003 and 6014 with the sheet although in the summer of the field.

Remarks.

Although this sheet presents a new type of surface no particular difficulties were found in execution of the inking, except that it is uncomfortable and tiring to reach the upper portions of the sheet even when it is placed on a special table with a revolving cylinder. Also, the penciled soundings do not show up very well, and it is difficult to ink bottom characteristics small enough even with the finest pen.

Submitted by - R. B. Krum, Sept. 28, 1934. Applied to drawing of Chart 5527 Dec. 26, 1934 - 97W.

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