

4281

Diag. Cht. No. 5530-4

4281

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
State: <u>California</u>	
<small>11-5413</small> DESCRIPTIVE REPORT.	
Hyd. _____	Sheet No. <u>4281</u>
LOCALITY:	
<u>Carquinez Strait</u>	
<u>Crockett to Suisun Pt.</u>	
<hr/> 1922	
<hr/> CHIEF OF PARTY:	
<u>O.W. Swainson.</u>	

Statistics to accompany Hydrographic Sheet L

Date	Letter	Vol.	Pos.	Sndgs.	Miles	Vessel
1922 April 28	A	1	120	164	7.5	Natoma
" 29	B	1	119	218	9.7	"
May 2	C	1	48	51	1.6	"
Sept. 13	D	1	129	302	15.7	"
" 14	E	182	82	304	12.0	"
" 15	F	2	185	703	31.0	"
Totals for Natoma.			683	1742	77.5	
April 28	a	1	73	275	6.5	Motor Sailer
Aug. 19	b	1	65	371	7.2	"
" 23	c	1	73	372	7.2	"
" 24	d	1	56	307	6.5	"
" 25	e	1	48	251	6.0	"
" 28	f	2	50	213	5.3	"
Totals for Motor Sailer			365	1789	38.7	
Total for sheet			1048	3531	116.2	

Soundings in feet at MLLW.

Statistics to accompany Hydrographic Sheet L.

4281

Date 1922	Letter	Vol	Pos	Sound	Miles	Vessel
Apr. 28	a	1	73	275	6.5	L. S.
28	A	1	120	164	7.5	Natoma
29	B	1	119	218	9.7	
May 2	C	1	48	51	1.6	
Sept 13	D	1	129	302	15.7	Natoma
" 14	E	142	82	304	12.0	"
" 15	F	2	185	703	31.0	"

Unit of soundings ft.
 Plane of Reference M L L W
 Tide gauge at
 Plane of Reference on gauge
 Lowest tide " " "
 Highest " " " "

These statistics incomplete
See preceding page

Report on Verifying and Daking N. 4281.

The sounding records were satisfactory except for the omission of the true meridian in either launch or ship work and in addition in the case of the launch work; the lack of boat's courses on "a" day and the paucity of bottom specimens or characteristics deserve criticism.

The protracting and plotting of soundings were well done.

Due to the abruptness of the slope of the bottom it is impractical to show all the ^{depth} curves in some places.

Signal "Rat" occurs twice on the sheet. However, no confusion was caused as the one Northwest (1 mile) of Martinez was ^{not} used or at most but very seldom.

There are several places where crossings are poor. This may be due to green leadmen.

Frank M. Albert,
Draftsman, Section of Hydrography

Sept. 20, 1921.

Due to an error in the tide gauge at Crockett, which was discovered after the sheet had been finished, it was necessary to erase the soundings of "a" and "e" days by the motor sailer and "D" day of ship and replot this portion.

Oct. 11, 1923.

Frank M. Albert

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 11, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4281

Carquinez Strait, California.

Surveyed in 1922

Instructions dated June 1 and Sept. 6, 1921.

Chief of Party, O. W. Swainson.

Surveyed by O. W. Swainson and M. O. Witherbee.

Protracted and soundings plotted by F. G. Outcalt.

Verified and inked by F. M. Albert and J. D. Torrey.

1. The records conform to the requirements of the General Instructions except that the time meridian was not noted and bottom characteristics were omitted in the launch records. The descriptive report and title sheet were not submitted.
2. The plan and character of development fulfilled the requirements of the General Instructions, except that the inshore development generally consisted of lines parallel to the shoreline, instead of being normal to it.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are, in general, adequate. There are a few excessive differences where the ship's work overlaps that of the launch.
5. It was not possible, in many areas, to draw the depth curves accurately, because the inshore lines, being parallel to the shore failed to bring out the profile necessary for drawing curves.
6. The usual field plotting was done in the office by F. G. Outcalt, Deck Officer.
7. The adjoining sheets are unfinished, hence no comparison of the junctions can be made at this time.

8. The soundings of d and e days of the motor sailer and D day of the ship were 2 to 3 feet in error due to the tide gauge at Crockett being that much in error. The error was corrected by substituting the gauge at Suisun for the Crockett gauge.
9. No further surveying is required within the limits of the sheet.
10. The surveying is good and the field drafting is excellent.
11. Reviewed by E. P. Ellis, September, 1923.

COPY TO FIELD RECORDS

June 18, 1925.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 4221

Locality: **Garqinez Strait, San Pablo, Calif.**

Chief of Party: **G. W. Hinman in 1923**

Plane of reference is **mean lower low water, reading**
5.5 ft. on tide staff at Crockett
5.5 " " " " " Suisun

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

G. W. Hinman

Chief, Division of Tides and Currents.