

6516

U. S. COAST & GEODETIC SURVEY
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Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic

Sheet No.

~~Topographic~~

Field No. H

State CALIFORNIA

LOCALITY
Northern California Coast

~~NORTH COAST~~

~~BIG FLAT TO Hadley Cr.~~
~~Shipman Creek to Frasers Creek~~

Big Flat Creek to Hadley Creek

1935

CHIEF OF PARTY

F. H. HARDY

U. S. GOVERNMENT PRINTING OFFICE: 1934

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

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 H

REGISTER NO.

T6516

State CALIFORNIA
General locality Northern California Coast
NORTH COAST
Locality Shipman Creek to Frasco
Big Flat to Hadley
Big Flat Creek to Hadley Creek
Scale 1:10,000 Date of survey October, 19 35
Vessel U.S.C. & G.S.S. GUIDE
Chief of Party F. H. Hardy
Surveyed by Max G. Ricketts
Inked by Max G. Ricketts
Heights in feet above high water to ground #####
Contour Approximate ##### Form line interval 100 feet
Instructions dated May 2nd, 19 35
Remarks: A photo-lithographic copy of this
survey has been prepared and is filed with the original.

1

DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC SHEET H-1935
Project No. HT-206
Season of 1935
U.S.C. & G.S.S. GUIDE
F. H. Hardy, Commanding.

INSTRUCTIONS: Director's instructions dated May 2, 1935. ✓

LIMITS: This sheet covers the shoreline of the North Coast of California from 1/2 mile northwest of SHIPMAN CREEK to FRASER. ✓
Junction at the south end is with Sheet G-1935 and the 1935 season's work ends at Fraser on the north end of this sheet.

DESCRIPTION: This section of the coast line in general is backed by steep mountains which rise abruptly from the beach to heights of 2400 to 2700 feet. Slopes are covered with scattered timber and dark brush. Big Flat in the southern section of this sheet is a low grass covered flat with some brush and timber about the mouth of Big Creek. This flat is low and about two miles long, bordered by sand and gravel beaches with a few scattered rocks close inshore. This flat shows several old beach lines and is apparently building out to the westward. ✓
It is the scene of numerous wrecks of small craft and coastal steamers. The barn and house of the Hadley Ranch are quite prominent close under the hill just north of Big Creek. Another small flat begins near the north end of this sheet and is marked by two abandoned ranch buildings. The hills are scarred deeply by the valleys of Big and Hadley's Creek, as well as a few other small creeks. Small scattered rocks are found close inshore along this entire section of coast.

CONTROL: The control for this sheet was furnished by the 1930 ✓
scheme of coastal second order triangulation.

SURVEY METHODS: Usual plane table methods of topography were used on this sheet. A traverse from topographic signal DON as located on Sheet G-1935 and transferred to this sheet, was closed at BIG FLAT 2, error 3 meters no adjustment. Cuts for additional control were taken at triangulation stations BIG FLAT 2 and FRASER. A traverse from BIG FLAT 2 to FRASER closed error 5.5 meters not adjusted. ✓
Offshore detail was located by the intersection of at least three cuts. Seven elevations were determined as checks to form lines during traverse. Additional elevations are needed which could not be obtained during field work in this area due to low clouds.

COMPARISON WITH PREVIOUS SURVEYS: This sheet covers the area previously surveyed in 1871 on Sheet T-1238. In the southern half-mile covered ✓
by this sheet the shoreline agreement is good. The remainder of the sheet shows discrepancies up to 80 meters. In the Big Flat section

2

as well as the section north of Hadley's Creek several progressive shoreline ridges show on the flats back of the present high water line and clearly show that a number of changes have been evident over the period of sixty odd years. It is also noted that Sheet T-1238 shows that this was also noted in 1871 as old beach lines are shown on the southern section of Big Flat. In the section between the two flats where the bluffs line the beach it appears that the 1871 sheet shows the base of the bluff as high water line. This was not correct in 1935 as is clearly shown on this 1935 sheet. As was found true in all the 1871 sheets resurveyed in 1935, discrepancies in definition of rocks as to high water and MLLW were found. This necessitated a general revision of all rocks. Due to the extreme change in shoreline numerous additional rocks have been located. The section covered by this sheet should be charted as shown without further reference to Sheet T-1238.

Discrepancies warranting special attention:-

(1) Latitude $40^{\circ} 07.2'$ - The rocks shown about this point were carefully inspected during field work. The outer two high water rocks were not sighted and no indication of sunken rocks in this position was noted. These rocks should be removed from the chart and the remainder of the rocks charted as shown on this 1935 sheet without further reference to Sheet T-1238. *Outermost rock carries forward as rock mark. Its location so marked on H-1581 (1886).*

(2) Latitude $40^{\circ} 07.3'$ - Several sunken rocks were previously shown. These are shown revised as MLLW rocks and their positions corrected on this 1935 sheet and should be so charted.

(3) Latitude $40^{\circ} 07.3'$ - The high water rock previously shown as Shubrick Rock has been revised to show as a MLLW rock and additional rocks are shown inshore.

(4) Latitude $40^{\circ} 09.6'$ - The group of high water rocks previously shown have been revised to show as MLLW rocks.

(5) Latitude $40^{\circ} 09.7'$ - The high water rock shown was not sighted by the topographic party, but was found and located on Sheet 2, 1936 of launch hydrography.

(6) Latitude $40^{\circ} 08'$ to $09'$ - The rocks in this area have been revised and should be charted as shown on this 1935 sheet.

From the check elevations taken during traverse it appears that a general revision of form lines is necessary. Additional elevations are required for such revision.

LANDMARKS FOR CHARTS: The following landmarks for charts are submitted on Form No. 567; BARN, HADLEY'S RANCH, BARN inshore of FRASER and 18 ft. BLACK ROCK at BIG FLAT.

RECOVERABLE TOPOGRAPHIC STATIONS: Descriptions of stations are submitted on Form No. 524 for the following topographic stations:

BARN, HILL, BIG and SAM. A description for DON is included with those for Sheet G-1935.

LIST OF NAMES: Well established names: Hadley's Creek (locally known as Big Creek), Big Flat, and Big Creek (locally known as Big Flat Creek). *app'd*

MISCELLANEOUS: The tracing used in transferring Sheet T-1238 to this sheet is forwarded with this report. Discrepancies as previously taken up have been indicated on this tracing.

STATISTICS:

Statute Miles of Shoreline..... 4.3
Magnetic Meridians..... 1
Elevations..... 7

CONDITION OF SHEET: This sheet molded while in camp at Big Flat.

Respectfully submitted,

Max G. Ricketts
Max G. Ricketts,
Lieutenant (j.g.),
C. & G. Survey.

Forwarded, approved:

F. H. Hardy
F. H. Hardy, Chief of Party,
U. S. Coast and Geodetic Survey,
Commanding Ship GUIDE.

This work done from camp at Big Flat, transportation of camp gear & signal bldg material by team owned by Donald Etter, Shelter Cove.

MR

Remarks

Decisions

1		
2	Not on sheet.	see T-6511
3	Also called "Big Creek" see D.R.	see H-6169
4		" "
5	Also called "Big Flat Creek" see D.R.	
6	Not on sheet	see T-6515
7		
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10	"Shubrick Rk" shown on H-6162	see H-6162
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GEOGRAPHIC NAMES

Survey No. T-6516

GEOGRAPHIC NAMES		Survey No. T-6516									
Name on Survey	<div>On Chart No. 5602</div> <div>On previous survey No. T-1238</div> <div>On U.S. Quadrangle Maps No. 1 Forest</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>										
	A	B	C	D	E	F	G	H	K		
State of <u>California</u>										1	
<u>Fraser's</u> Creek	✓ appd									2	
<u>Hadley's</u> Creek	✓ appd			D. R.						3	
<u>Big Flat</u>	✓ appd	✓		D. R.						4	
<u>Big ^{Flat} Creek</u> <u>Creek</u>	✓	✓		D. R.						5	
<u>Shipman Creek</u>	✓ appd									6	
<u>Pacific Ocean</u>										7	
<u>Miller's</u> <u>Ridge</u>	✓	✓								8	
<u>Shubrick Peak</u>	✓	✓	✓							9	
<u>Shubrick Rock</u>	✓ appd									10	
<u>Hadley's</u> <u>Peak</u>	✓	✓ Hadley's	Hadley PK							11	
<u>Miller's</u> Ridge <u>Peak</u>		✓	Miller PK							12	
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Names underlined in red approved

by WHE on 3/25/37

M 234

Names underlined in red approved

by WHE on 3/25/37

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOGRAPH OF~~

~~NO. 11~~

No. T -6516

received Mar. 16, 1937
registered Mar. 24, 1937
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	C. K. Green
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✓

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6516 (1935) FIELD NO. H

Big Flat Creek to Hadley Creek, Northern California Coast,
California.

Surveyed in October 1935, Scale 1:10,000

Instructions dated May 2, 1935 (GUIDE)

Plane Table Survey

Aluminum Mounted.

Chief of Party - F. H. Hardy.

Surveyed and inked by - M. G. Ricketts.

1. Condition of Records.

The survey conforms to the requirements of the Topographic Manual except that it arrived in the office in such a badly mildewed condition that it was barely legible in places. A copy was made on a standard aluminum sheet in the manner described below and filed with the original as T-6516 bis.

- a. The original sheet was photographed and the usual procedure followed for producing a photo-lithographic copy. Certain details were omitted on the negative and the printed copy showed only the following:
 - (1) Projection
 - (2) High and low water line
 - (3) Rock, reef and kelp symbols
 - (4) Outlines of bluffs
 - (5) Station symbols and points.
 - (6) Magnetic meridian
 - (7) Elevations
- b. The print was then turned over to Draftsman R. M. Lupo for the addition of the following detail:
 - (1) All lettering
 - (2) Sanding between high and low water lines
 - (3) Bluff symbols
 - (4) Elevations omitted by lithographer
 - (5) Change of station symbols from black to red.
- c. The completed copy was checked in detail by J. A. McCormick by means of an overlay tracing of the original.

The Descriptive Report does not state whether or not the declinatoire was checked at a station of known declination during the season's work, but satisfactorily covers all other items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project except that the number of elevations determined on the present survey is not sufficient to make a satisfactory adjustment of the form lines on the old surveys. (see par. 8, instructions and par. 4, this review).

3. Junctions with Contemporary Surveys.

The junctions with T-6511 (1936) on the north and T-6515 (1935) on the south are satisfactory.

4. Comparison with Prior Surveys.

T-1238 (1871), 1:10,000.

The present work falls entirely within the limits of the above survey. The descriptive report of the present survey contains an excellent comparison of the two surveys and among other things recommends that the two bare rocks in lat. $40^{\circ} 07.2'$, long. $124^{\circ} 09.6'$ on T-1238, be considered non-existent. The outermost rock was verified, however on H-1681 (1886) so it has been brought forward to the present survey as a rock awash. Elevations determined on the present survey are in poor agreement with form lines on the old work. Additional elevations are necessary in order to revise the form lines and until such elevations are obtained the form lines should be charted from T-1238. The present survey adequately covers other features in the common area and should supersede in their charting.

5. Comparison with Chart 5602.

a. Topography.

Within the area of the present survey the chart is based on the survey discussed in the preceding paragraph.

b. Aids to Navigation.

There are no navigational aids in this area.

c. Magnetic Declination.

The declination determined on the survey with the declinatoire differed from the charted value by $0^{\circ} 33'$. (See paragraph 1, this review.)

6. Field Drafting.

The field drafting is satisfactory.

7. Additional Field Work Recommended.

If feasible, additional elevations should be obtained for the purpose of revising the form lines (see par. 4, this review).

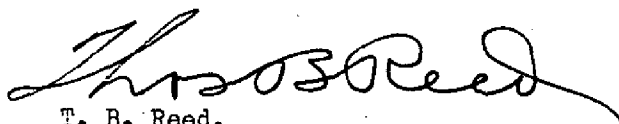
8. Superseded Old Surveys.


In so far as the topography actually included on the present survey is concerned, it supersedes T-1238 (1871) in part for charting purposes.


9. Reviewed by - J. A. McCormick, Aug. 3, 1938.


Inspected by - E. P. Ellis.

Examined and approved:


T. B. Reed,
Chief, Section of Field Records.


K. T. Adams
Chief, Division of Charts.


Fred. L. Peacock
Chief, Section of Field Work.


G. H. Hude
Chief, Division of H. & T.