

6511

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic } Sheet No. J
Hydrographic }

LOCALITY
California

~~NORTH COAST~~

Northern California Coast

~~FROM~~

Fraser Creek to Reynolds Creek

~~TRIANGULATION STATION FRASER 1930~~

~~TO RANDALL 1930~~

1936

CHIEF OF PARTY

F. H. HARDY

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO. _____
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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. J

REGISTER NO. **T6511**

State CALIFORNIA

Northern California Coast

General locality NORTH COAST

Fraser Creek to Reynolds Creek

Locality TRIANGULATION STATIONS FRASER TO RANDALL

Scale 1-10,000 Date of survey May 21 to 31, 1936

Vessel GUIDE

Chief of party F. H. HARDY

Surveyed by CURTIS LEFEVER

Inked by CURTIS LEFEVER

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated MAY 2, 1935

Remarks: _____

DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC SHEET J-1936
Project No. HT-206

U. S. C. & G. S. S. GUIDE

F. H. HARDY, COMMANDING

Season of 1936

INSTRUCTIONS

Director's instructions dated May 2, 1935. ✓

LIMITS

The coastline surveyed on this sheet extends along the North California Coast from Triangulation Station FRASER 1930, northwest to Triangulation Station RANDALL 1930. It is joined ✓ on the south end by Sheet I-1935 and joins Sheet K-1936 on the north.

DESCRIPTION

This section of the coast is backed by steep mountains which rise abruptly from the edge of the narrow aluvial plain which parallels the beach. These mountains rise to elevations from 1300 to 2000 feet and are grass covered. The ridges run normal to the coast and rise gradually to a main high ridge paralleling the coast. They are separated by canyons the slopes of which are timbered. The timber on the slopes facing the north is much heavier and more prominent from off shore than that on the hill sides facing south. There are no prominent features in this vicinity. A sand and gravel beach extends throughout the entire sheet. It is bordered by numerous rocks and breakers close in shore. These rocks are the high points on a sunken reef which extends unbroken throughout this part of the coast. ✓

CONTROL

The control for this sheet is the 1930 scheme of coastal second order triangulation. ✓

SURVEY METHODS

The usual method of plane table topography was used on this sheet. A traverse was started at Triangulation Station FRASER by orienting on WILD OAT 2. This traverse extended throughout the sheet and was checked at RANDALL, error 13 meters. The error was in distance and was assumed to have accumulated throughout the traverse. The traverse was ✓

adjusted by distributing the error throughout its length. Off shore details were located by three or more cuts in each case. Check elevations were taken at several points near the beach but no revision of form lines was found necessary.

COMPARISON WITH PREVIOUS SURVEYS

This sheet covers part of the area surveyed in 1871 on Sheet T-1239. All features shown on that sheet, in this area, were carefully traced and transferred to this sheet before it was taken into the field. Where a discrepancy was noted in that survey, special care was taken to make an accurate correction. On T-1239 all rocks are shown as breakers or as being above water at all stages of the tide. There are numerous rocks, some of them lying well off which were not located on T-1239. Also there is a discrepancy in the shore line which exists throughout this sheet. It was necessary to locate all uncharted rocks and completely revise the positions and symbols for all rocks and the position of the shoreline. They are shown on this survey as they exist today and should be so charted.

Discrepancies warranting special attention:-

On the tracing of T-1239, in this area, discrepancies discussed are numbered in accordance with the numbers of the following paragraphs.

(1) Latitude $40^{\circ} 10.3'$, Longitude $124^{\circ} 13.9'$:- A large rock is shown in this area, on Sheet T-1239, as above all stages of the tide. This undoubtedly is the rock located on this later survey about 35 meters west of the old position. This shift in position compares closely to that of the shoreline in this area.

(2) Latitude $40^{\circ} 10.4'$, Longitude $124^{\circ} 14.0'$:- On Sheet T-1239 there are shown several rocks about 170 meters off shore. This area was examined carefully and those rocks do not exist in those positions today. However, a number of rocks are located on this survey a few meters in shore from those shown on T-1239 and are probably the same group.

(3) Latitude $40^{\circ} 10.45'$, Longitude $124^{\circ} 14.2'$:- The position of the highwater rock shown on Sheet T-1239 is shifted about 20 meters southwest on this survey.

(4) Latitude $40^{\circ} 11.4'$:- The wreck of the S.S. ACTIVE may exist in that location today. When the topography was done in that area, at an extreme low tide several apparent mussel covered rocks were sighted in the trough of the sea and are shown on this sheet as sunken rocks. However, they may have been parts of the wreck.

(5) Latitude $40^{\circ} 11.3'$:- The wreck of the S.S. INDIANA HARBOR (triangulation 1930) was not sighted at any stage of the tide. The area was examined during an extreme low tide. A number of rocks are located near that vicinity. ✓

(6) Latitude $40^{\circ} 11.4'$, Longitude $124^{\circ} 16.0'$:- The position of the highwater rock in this vicinity is shifted 20 meters to the southwest. ✓

(7) Latitude $40^{\circ} 11.8'$, Longitude $124^{\circ} 16.5'$:- The position of the highwater rock in this vicinity is shifted southwest about 15 meters. The symbol for the large rock about 150 meters farther east is changed. It bares 5 feet M.L.L.W. ✓

(8) The group of rocks south of Triangulation Station RANDALL, exist about the same distance off shore as shown on the old survey but their positions in latitude and longitude have been changed. The same thing is true of the large highwater rock west-southwest of RANDALL. ✓

LANDMARKS FOR CHARTS

NUT Latitude $40^{\circ} 10'$, 1719 meters, Longitude $124^{\circ} 14'$, 1243 meters. ✓ First small building northwest along the coast from Triangulation Station FRASER. The building sets high above the beach near the foot of the steep mountain side. ✓ 25

BOW Latitude $40^{\circ} 11'$, 482 meters, Longitude $124^{\circ} 15'$, 963 meters. ✓ The broken bow of the DAISY PUTNAM. This part of a wreck is made of heavy timbers and is deeply burried in the sand between high and low water. It projects about 30 feet above the sand and shows white from off shore. ✓

COM Latitude $40^{\circ} 11'$, 1115 meters, Longitude $124^{\circ} 16'$, 91 meters. ✓ Small barn setting about 20 feet above highwater. The seaward side is whitewashed. ✓

These objects are made prominent by the absence of any other buildings or like structures in this vicinity. ✓

RECOVERABLE TOPOGRAPHIC STATIONS

Descriptions of stations are submitted on Form No. 524 for the following topographic stations KENZLEY, NUT, BOW, COM, and HANSEN. ✓ Not received.

LIST OF NAMES

Well established names - Fraser's Creek, Kinsey's Creek, Spanish Creek and Reynold's Creek. ✓

MISCELLANEOUS

The tracing used in transferring Sheet T-1239 is being forwarded with this report. ✓

STATISTICS

Statute miles of shoreline - - - - - 4.0
Magnetic meridian - - - - - 1
Elevations of rocks - - - - - 9

Respectfully submitted,

Curtis LeFever
Curtis LeFever,
Jr. H. & G. Engineer,
U.S.C. & G. Survey

Approved and forwarded:

F. H. Hardy
F. H. Hardy,
Chief of Party, C. & G. S.,
Commanding Ship GUIDE.

Remarks

Decisions

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8	<i>A barren grass covered hill (see D.R.)</i>	
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12		<i>see H-6170</i>
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GEOGRAPHIC NAMES

Survey No. T-6511

GEOGRAPHIC NAMES		Survey No. T-6511									
Name on Survey	<div>On Chart No. 5602</div> <div>On previous survey No. T-1239</div> <div>On U.S. quadrangle Maps Nat'l 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>Reynolds Creek</u>	✓	✓			D.R. pg 3					2	
<u>Spanish Creek</u>	✓	✓			D.R. pg. 3					3	
<u>Kinsey's Creek</u>	✓	Kinsey's			D.R. pg. 3					4	
<u>Fraser's Creek</u>	✓	Fraser's			D.R. pg. 3					5	
<u>Pacific Ocean</u>										6	
✓ <u>Spanish Hill</u>	✓	✓								7	
ØdX Hill <u>Oat Hill</u>	✓	Oat Hill								8	
<u>Spanish Flat</u>	✓	✓								9	
✓ <u>Fraser's Ridge</u>		✓								10	
✓ <u>Lake Hill</u>	✓	✓								11	
✓ <u>Reynolds RK</u>	✓ app'd									12	
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Names underlined in red approved

by LHE on 3/23/37

M 234

Names underlined in red approved

by LHE on 2/23/37

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~NOON~~

No. T-6511

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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REVIEW OF TOPOGRAPHIC SURVEY No. 6511

Title (Par. 56) *Fraser Creek to Reynolds Creek, Northern California Coast, California.*

Chief of Party *F.H. Hardy* Surveyed by *C. LeFever* Inked by *C. LeFever*

Ship *Guide* Instructions dated *May 2, 1935* Surveyed in *May, 1936.*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for ~~-con-~~ ~~tours-formlines-~~ was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓
5. The delineation of ~~-contours-~~ ~~formlines-~~ is satisfactory. (Par. 49, 50.) ✓
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted.*
7. High water line ~~on marshy and mangrove coast~~ is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. 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.) ✓ *Low water line should have been shown with a dotted line. (See page 93, Topo. Manual)*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
See reverse side.
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

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.

Paragraph 9.

T-1239 (1871)

A comparison between this survey and the present survey has been made by the field party and is discussed in detail on Page 2, Descriptive Report. A further comparison was made by the reviewer. No major discrepancies were found which were not already mentioned.

T-6511 supersedes T-1239 in part.

Chart No. 5602 (New Print dated Aug. 6, 1936)

The chart is on too small a scale to make a comparison of unshown details of any value.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMS and DPs, 68.) *Not received although D.R. states 5 were submitted.*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓ *Listed on p.3, Descriptive Report.*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *Declination checks charted value.*
18. The geographic datum of the sheet is *N.A. 1927* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
Joins T-6512 (1936) on the north and T-6516 (1935) on the south.
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by *Too many "leader lines and arrows" used in connection with notes on rocks -*

24. Remarks: *Hydrographic signal was shown on this survey on C.K.G. lat. 40° 10.7', long. 124° 14.5' does not agree in position with that shown on H-6163 (1936). The position shown on H-6163 (1936) was accepted in the absence of information to the contrary was obtained.*
Reviewed in office by *J. A. McCormick, June 18, 1937. Inspector: E. O. Ellis*

Examined and approved:

C. H. Green.
Chief, Section of Field Records

L. O. Dolbatt.
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

Glenn
Chief, Division of Hyd. and Top.