4901

Form 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Sheet No. J 4901

State California

LOCALITY

California Coast

Point Esteros to Santa Rosa Creek

1934

CHIEF OF PARTY

U. S. GOVERNMENT PRINTING OFFICE: 1934

applied to drawing of Charl 5302- Febr. 29, 1936 - J. T.W.

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Form 537a Ed. Nov., 1929

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURV	Æ¥
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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. J

•	REGISTER NO.	4901	
State CALIFORN	IA		÷
General locality	CALIFORNIA COAS	ST	
P.T. Esteros	To Santa	Kosa	Creek
Scale 1:10,000 Dat			
Vessel U.S.	c. & g.s.s. gu	EDE	
Chief of party F. H	. HARDY - SUI	B-PARTY JO	HN C. BLISS
Surveyed by JOHN	C. BLISS	·	
Inked by JOHN	C. BLISS		
Heights in feet above M	.H.W. to gr	ound to-	tops-of-trees
Contour , Approximate con	itour, Form-lin	e-intervai	1 <u>5</u> 0feet
Instructions dated	May 31, 1934	·	19
Remarks: CONTINUAT	FION OF PROJECT	H.T. 184	

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET FIELD No. "J"

Str. GUIDE

F.H. HARDY, COMMANDING

INSTRUCTIONS DATED APRIL 4,1932; MAY 31,1934

GENERAL DESCRIPTION

The country surveyed on this sheet is mountainous with a rugged, rocky coastline. The bluffs along the shoreline are generally low and rocky. A coastal ridge rises abruptly from the shoreline cutting off all view of the back country. There are a few wagon roads leading to separated spots along the coast but the coastline is generally inaccessible to vehicles.

The entire shoreline is fringed with boulders with no sand beaches. The inshore area is covered with numerous detached rocks, causing the sea to break generally over the entire inshore area, even in calm weather.

SURVEY METHODS

The topography on this sheet was executed from shore. The party consisted of J.C. Bliss, Surveyor, and three assistants. U.S.C.&G.S. truck #212 was used in the work and the party was based at Cambria, California.

Control for the topography consisted of triangulation stations on the 1932 scheme, which was executed by Lieutenant Charles Pierce, and plotted on the North American 1927 Datum.

The triangulation scheme covering the area of this sheet includes a series of mountain stations, namely, Scott, Dawson, Gence and Sullivan. These stations are visible from certain parts of the beach but were not of much value in the survey of the coast. The triangulation

station along the beach were, Creek, Large Rock Northwest of Thompson, and Thompson.

Distortion in this sheet was measured in the field daily and adjustments for distortion were applied during the course of the traverses. The maximum and minimum distortion measured was, 4 and 2 meters, respectively, per mile in latitude and 3 and 1 meters, respectively, in longitude.

Field work was commenced by occupying triangulation station "Dawson". Station "Creek" and orienting on triangulation station "Dawson". From "Creek" a traverse was executed southward to triangulation station "Large Rock Northwest of Thompson". A check was obtained by getting the planetable on a line between triangulation stations "Dawson" and "Large Rock Northwest of Thompson" and resecting to a barn gable previously located by cuts from triangulation stations "Dawson" and "Creek". This is the hydrographic station "Gab". "Gab" was also verified by cuts and a rod shot during the course of the traverse. The traverse was found to be in error about four meters and was adjusted.

From this traverse position abeam of "large Rock North-west of Thompson", a traverse was executed southward to triangulation station "Thompson", a distance of approximately one and one half miles. Here a closing error of five meters was obtained. This traverse was adjusted.

From "Thompson" a traverse was executed southward to hydrographic station "Extra" where a closing error of two meters was obtained. This traverse was about two miles long so no adjustment was considered necessary. Hydrographic station "Extra" was located by planetable cuts from triangulation stations "Gence" and "Dawson" and checked by planetable cuts from triangulation stations by Ensign Beyma on the next sheet south so its position is considered correct.

Hydrographic station "Extra" is the southerly limit of this sheet. COMPARISON WITH PREVIOUS SURVEYS

All comparisons are with sheet # T-1753 executed by Stehman Forney in 1886. Much distortion in the bromide of T-1753 made comparisons difficult.

Comparison of shorelines.

From triangulation station "Creek" to triangulation station "Large Rock Northwest of Thompson" shoreline of this survey is five to ten meters inland of that on T-1753.

From triangulation station" Large Rock Northwest of Thompson" to hydrographic station "Nun" shoreline of this survey extends five to twenty five meters inland of shoreline shown on T-1753.

From hydrographic station "Nun" south to limits of this survey there is a generally fair agreement in shorelines except in minor details.

Comparison of water features

A fair agreement was obtained with the offlying rock detail of T-1753. The bromide of T*1753 was badly blotched and it was difficult to determine which of the spots in the vicinity of the shoreline were rocks and which were not. A great deal of additional detail is shown on this sheet that is not shown on T-1753. Most of this detail was obtained at or near minus tides.

The sumken rock symbols on T-1753 about 180 meters west of hydrographic station "Sine" were changed to rocks awash on this survey because these rocks are awash at M.L.L.W.

The fairly large rock about 70 meters offshore from hydrographic station "Extra" this survey is shown as a smaller rock on T-1753.

TOPOGRAPHY

There has been no change in the topography of the inland area since the old survey. Therefore a closer watch was kept on the formlines, drainage lines, etc; rather than the elevations. A few elevations checked in the vicinity of the shoreline agreed closely with T-1753.

The topography of the old survey was traced off a bromide of T-1753 and transferred to this sheet. The penciled topography shown on this sheet is that transfer.

MAGNETIC MERIDIAN:

Three magnetic meridian observations were taken on this sheet, namely at triangulation stations "Creek," "Dawson" and "Sullivan". The observations at "Creek" and "Sullivan" checked perfectly with a protracted declination of 16 degrees and 49 minutes. However the observation at "Sullivan" showed a protracted declination of 17 degrees and 17 minutes. No reason can be advanced for this difference because all observations were taken under practically identical conditions with the same declinatoire.

REMARKS

Tracings used in transferring the bromide of T-1753 to this sheet are attached so that discrepancies may be noted.

Before field work was commenced on this sheet the transfer of T-1753 was made. All discrepancies noted with the old survey on this sheet were checked in the field and this sheet represents existing conditions in the area.

STATISTICS

There are no recoverable hydrographic stations or new landmarks on this sheet.

Respectfully submitted

John C. Bliss, Surveyor U.S.C.& G.Survey

Approved and forwarded

F.H. Hardy, H. & G. E. Chief of Party, C.&G. Survey Commanding Ship Guide.

GEOGRAPHIC POSITIONS OF CONTROL STATIONS

TOPOGRAPHIC SHEET "J"

HOTE: HO	£	- F	7. T. T. T.	ē		£		Ę	
STATION	DATE	I.A.1	LATITUDE	æ		LOM	LONGETUDE	囶	
	٠	0	•	=	LETERS	•	•	=	METERS
CREEK	1885-1932	35	33	51,076	1574.1./	121	90	26,162	658.8
DAUSON	1932	35	21	45.782	1411.0	121	40	09,393	236.6
SCOTIT	1695-1932	35	34	35, 709	1100.5	121	40	23,419	599.7
GENCE	1984-1932	35	30	27,755	854.8	121	08	26,397	917.2
SULLIVAN	1952	35	83	34.934	1076.6	121	020	01.037	26,1
HOTESON	1932	35	30	39.164	1207.0	121	93	35,217	887.5
LARGE ROCK N. V. OF TRIANGULATION STATION THOLIPSON		35	12	58,560	1804.R	121	90	14,557	366.7

APPROVAL NOTE OF CHIEF OF PARTY

The completed topographic sheet, field letter "J" has been inspected and is approved.

F.H. Hardy, H. & G. E.

Chief of Party, C.& G. Survey Commanding Ship Guide

GEOGRAPHIC NAMES 20, 1935

Date March 20. 1935

California

Survey No. <u>T-4901</u>	
Chart No. <u>5302</u>	
Diagram No. 5302-2	

Approved by the Division of Geographic Names, Department of Interior. X

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q - Names. underlined in red approved Mar. 27, 1935
Harlow Bacon

		JI WOOW VOULK				
Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Locatio	
	Santa Rosa Creek	Same				
	Perry Creek	Ħ		<u> </u>		
	WhiteRock	11				
	Point Esterox				-	
. ,	• • • •					
<u>.</u>		nt Esteros is beyon	ì			
	Survey but there	is no other means	of identiff	cation whi	ch	
	would satisfy	the requirements of	the sheet	available_		
	therefore an ar	row indicating the	direction of	f Esteros	(Boint	
	is sufficient.					
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- 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 centains 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 IMs and DPs, 68.) None submitted
 - 16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) None submitted
 - The magnetic meridian was shown and declination was checked. (Par. 17, 52.) Three meridians shown and discussed in Descriptive Report. No note made of having checked declina toire
 - The geographic datum of the sheet is N.A.1927 (Adjusted) and the 18. reference station is correctly noted. (Par. 34.)
 - Junctions with contemporary surveys are adequate. -Joins T 4900 (1934) on the North my T 4912 (1934) on the South
 - Geographic names are shown on the sheet and are covered by the Des-20. criptive report. (Par. 64, 66k.)
 - The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ~ Rocks, both submerged and awash are very carelessly drawn. Very ter elevations of dry rocks shown 22. No additional surveying is recommended.
 - 23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks:

Reviewed in office by Chas. O. Bush fr. May 25,1936.

Exemined and approved:

Chief, Section of Field Records

Chief. Section of Field Records

Chief, Division of Charts

Chief, Division of Hyd. and Top.

R-317

REVIEW OF TOPOGRAPHIC SURVEY No. 490/

Title (Par. 56) Pt. Estero to Sonta Rasa Creek, Colifornia

Chief of Party F.H. Hardy Surveyed by J.C. Bliss Inked by J.C. Bliss

Ship Guide Instructions dated May 31/1934 Surveyed in October 1934

- 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 -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

 No revision necessary
- 5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) No confours necessary
- 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.)
 - 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.)

 Former elevations considered adequate
- 12. The tree line was shown on mountains. (Par. 16g.)

 Tree line not shown as no new confours were drawn.

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

T1753 (1886)

The discrepancies between the present survey and T1253 are well discussed in the Descriptive Report of T4901. The details on T4901 are much more clearly defined.

Chart 5302

Only inshore rocks are shown on this chart which are well shown in detail on T4901.