4891

FORM 504
Rev. Dec. 1933

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

DESCRIPTIVE REPORT

Topographic |

Sheet No. G 4891

State California

LOCALITY

California Coast

Point Piedras Blancas to Ragged Point

1934

CHIEF OF PARTY

F.H. Hardy

U.S. GOVERNMENT PRINTING OFFICE: 1834

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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TOPOGRAPHIC TITLE SHEET Acc. No.

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

State	California
General local	ity California Coast Point Piedras Blancas to Ragged Point.
Locality	Ragged Point to Point Piedras Blancas
Scale 1:10	0,000 Date of survey Oct. 15 - 30 , 19 34
Vessel U. S	S. C. & G. S. S. Guide
	y F. H. Hardy
Surveyed by	Chester J. Beyma
	Chester J. Beyma
Heights in fe	et above M.H.W. to ground to tops of trees
	oximate contour Form-line interval 20 feet
Instructions	dated April 4, 1932; May 31, 1934., 19
Remarks:	
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DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC FIELD SHEET NUMBER "G"

STR. GUIDE

F. H. HARDY COMMANDING

INSTRUCTIONS DATED APRIL 4, 1932; MAY 31, 1934.

GENERAL DESCRIPTION

The country surveyed on this sheet is low with small bluffs and rolling treeless hills. Inland, the hills rise to high elevations. The coast highway, a hard surfaced road, parallels the coast.

The entire beach, except for the portion of sandy beaches as shown, is fringed with large boulders and outlying reefs. The inshore area is covered with numerous detached rocks causing the sea to be generally breaking over the entire inshore area even in the calmest of weather.

A large rock named La Cruz Rock Lat. 35° - 42.4' Long. 121° - 18.7' is 48 feet high, lies about $\frac{1}{2}$ mile south of Point Sierra Nevada and about 350 meters from the mouth of Arroyo La Cruz.

About 1½ miles northwest from Piedras Blancas Lighthouse and nearly $\frac{3}{4}$ mile offshore Lat. 35° - 41.2' Long. 121° - 18.0' there is a rock awash which bares 1 foot at M.L.L.W. It is known as Harlech Castle Rock. The Coast Pilot, Fifth (1934) Edition specifies that this rock is covered by 1 foot of water. Check elevations were taken on this rock at low stages of the tide and found to bare 1 foot at. M.L.L.W.

SURVEY METHODS

The topography on this sheet was excuted from shore. The party consisted of one officer and three men, using U.S.C. & G.S. Truck No. 213. Cambria, California was used as a base by the field party.

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 Adjusted Datum.

The triangulation scheme covering the area of this sheet is as follows: Bald Top, Pine Slope, Cinnabar, Ragged Point, Sharp Rock Off Ragged Point, Sharp Double Rock is mile South of Ragged Point, Large Rock is mile south of Ragged Ragged Point, Sharp Book Off la Cruz Rock, Silo 1 mile North of La Cruz, La Cruz, Evans Water Tank, Large Rock Inshore is Mile of Hiway, Hiway, Large Rock Off Lighthouse, Blancas, Piedras Blancas Lighthouse and Large Rock South Off Lighthouse.

Distortion in this sheet was measured in the field daily, and

SURVEY METHODS (Cont.)

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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 1 to 0 meters respectively per mile in Longitude.

Before field work was started, the shoreline, rocks, and contours were transferred to this sheet from photostats T-1395a and T-1395b. Every discrepancy in shoreline, off-lying rocks and contours between this survey and the old survey have been checked and this sheet represents existing conditions of the area.

In order to establish a plane table position on the northern end of this sheet, triangulation station Ragged Point Latitude 35° - 45.5' was occupied and a traverse carried southward to triangulation station China Latitude 35° - 43.6', joining topography on field sheet No. F. at topographic signal Point Latitude 35° - 45.4'. At Breaker Point the traverse was checked by a three point fix using triangulation stations Ragged Point, Sharp Rock Off Breaker Point, and China for control, and also resection cuts were taken on Bald Top and Yellow Hill. The traverse checked in azimuth and distance. From here the traverse was carried to triangulation station China Latitude 35° - 43.6'. The traverse error was negligible being 2 meters.

Occupying triangulation station China the traverse was carried southward to triangulation station Hiway. Abeam of La Cruz Rock Latitude 35° - 42.5' a three point fix was taken to check the traverse using triangulation stations China, La Cruz, and Hiway for control and also resection cuts were taken on Yellow Hill, Cinnabar, and Silo. The traverse checked in azimuth and distance. From here the traverse was continued southward to triangulation station Hiway Latitude 35° - 40.8'. The traverse error was 3 meters over a distance of 2 miles. No adjustment was required.

Occupying triangulation station Blancas Latitude 35° - 40.0° a traverse was carried northward to triangulation station Hiway. The traverse closed within 1 meter.

The junction on the southern end of this sheet around Point Piedras Blancas checked very satisfactorly with the survey shown on Sheet T-4850.

All off lying features such as bare rocks and rocks awash were located by three or more cuts. Mean high water line, bluff line, and road were located by stadia. Elevations to tops of hils and along the road and bluff line were taken at various intervals as shown on the sheet. All elevations checked very closely with the previous surveys.

COMPARISONS WITH PREVIOUS SURVEYS:

All comparisons are based on surveys shown on Sheets T-1395a and T-1395b.

COMPARISONS WITH PREVIOUS SURVEYS: (Cont.)

Changes in Shoreline:

In general the shoreline and bluff line of this survey checked the previous survey very satisfactorly.

Changes in Water Features:

Sheet T-1395b shows a bare rock in Latitude 350 - 45.01 Longitude 1210 - 19.1'. This rock does not exist.

Sheet T-1395a shows a large cluster of bare rocks northwest of Point Sierra Nevada Latitude 35° - 42.8°. The existing rocks within this locality are shown on this sheet.

Sheet T-1395a in Latitude 350 - 43.0' shows the position of the wrecked ship Sierra Nevada. The remains of the ship have been washed away and do not exist.

From La Cruz Rock Latitude 350 - 42.5' north to the beach. Sheet T-1395a shows a large cluster of bare rocks. The rocks which exist in this locality are shown on this sheet.

REMARKS

Tracings used in transfering photostats T-1395a and T-1395b to this sheet are attached in order that the discrepancies may be noted.

Topographic station Gul Latitude 35° - 44.8' Longitude 121° - 19.1' is the only recoverable signal on this sheet. Form 524 describing it has been forwarded to the office.

STATISTICS

Statute'	miles	οf	shore	line	 <i>.</i>	 	 	 10.0	
Statute	miles	of	road.		 	 	 	 7.5	
Area in	square	91	tatute	miles	 	 	 	 3.0	

Respectfully submitted,

Chester J Beyma, Kid U.S.C. & G. Survey

Approved and forwarded.

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

Downs

Chief of Party, C. & G. Survey

Commanding Ship Guide.

APPROVAL NOTE OF CHIEF OF PARTY

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

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

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

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	-						₩. A. 1927			
la Cruz Rock	35 -	- 42	799.9	121	-1 8	1078.0	Adjust.	Tria.	5302	
Outer Islet	35 -	39	1654.9	121	-17	384.2	††	79		
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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.

Date Mar. 14, 1935 GEOGRAPHIC NAMES CALIFORNIA

Survey No	T 4891	
Chart No	5302	
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, 26, 1935 Hurlow Bacon **New Names** Names assigned Location Name on Chart Name on Survey Status by Field in local use Ragged Point Breaker Foint Same PointtSierra Nevada Lacruz Rock La Cruz Rk. <u>Arroyo 1</u> Arroyo Lacruz Same Harlech Castle Rock Outer Islet Point Piedras Blancas Arroyo del Corral <u>Arroyo del Oso</u> Arroyo de los Chinos Arroyo Hondo <u>Arroyo San Carpoforo</u> Pacific Ocean

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 4891 (1934) FIELD LETTER "G"

Point Piedras Blancas to Ragged Point, California Surveyed October 1934 Instructions dated April 4, 1932, May 31, 1934 (GUIDE)

Plane Table Survey.

Cloth Mounted.

Chief of Party - F. H. Hardy. Surveyed and Inked by - C. J. Beyma.

1. Condition of Records.

The Descriptive Report is clear and comprehensive and satisfactorily covers all matters of importance.

The records conform to the requirements of the Topographic Manual with the following exceptions:

- a. Scaled one-half meter distances were not laid off for distortion measurement. Distortion was frequently checked by the field party, however, by means of the projection lines (see D. R. page 1, par. 8).
- 2. Compliance with Instructions for the Project.

The survey complies with the instructions.

Junctions with Contemporary Surveys.

Satisfactory junction was made with T-4850 (1934) on the south and with T-4890 (1934) on the north.

4. Comparison with Prior Surveys.

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a. T-1395b (1874), T-1829 (1887).

The high water line as shown on these surveys is in good agreement with the present survey. Contours checked well except in a few places which were corrected by the field party. In general there is good agreement in the offlying rocks and reefs. A few errors in the older work are discussed in the Descriptive Report and the present survey is considered correct as sent in from the field except that a sunken rock group in latitude 34° 44.7', longitude 121° 19.4' and a few rocks in the vicinity of latitude 35° 43.7', longitude 121° 19.2', are carried forward in red to the present survey.

T-1395a (1872-73). ъ.

A comparison of this survey with the present survey shows good agreement in shoreline, contours and in the offlying rocks. All rocks shown on the prior survey were verified.

5. Field Drafting.

The inking by the field party is good.

Additional Field Work Recommended. 6.

No additional field work is required.

7. Superseding Old Surveys.

> Insofar as the area actually covered on the present survey is concerned, it supersedes the following surveys for charting purposes:

> > T=1395a (1872 - 73)Т-1395b (1874) T-1829 (1887)

Reviewed by - A. F. Jankowski, August 22, 1934. 8.

Examined and approved:

C. K. Green, J. H. Sheen K.T. Adams Chief, Section of Field Records. Acting Chief, Division of Charts.

Chief, Section of Field Work.

Chief, Division of H. & T.

applied to drawing that 5302 - Febr 20,1936 - J. W.