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Acc. No. _____

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. "D" 4/56				
LOCALITY				
California Coast				
Pigeon Point to Pescadero Creek				
U.S.C. & G.S.S. GUIDE				
19 32.				
CHIEF OF PARTY				
Fred. L. Peacock, H. & G. Eng.				

U. S. GÖVERNMENT PRINTING OFFICE: LUM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET FIELD LETTER "D"

CALIFORNIA COAST

NORTH OF PIGEON POINT.

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

PROJECT NO. 101

1932

FRED. L. PEACOCK, H. & G. ENGINEER, CHIEF OF PARTY.

DESCRIPTIVE REPORT to accompany TOPOGRAPHIC SHEET FIELD No. D Coast of California U.S.C. & G.S.S. GUIDE 1932

INSTRUCTIONS: Instructions for the topography on this sheet are dated April 4, 1932.

LHHTS: This sheet consists of a resurvey of the area adjacent to the shareline between Latitude 37° 11'and Latitude 37° 17'.

GENERAL DESCRIPTION OF COAST: From Pigeon Point to the mouth of Pescadero Creek the shoreline consists of low bluffs broken in places by small creeks, usually dry. This section is very foul along the shore. There are numerous small rocks, rocks awash, sunken rocks and rocky ledges and reefs. Back of the shoreline the country consists of hills of fairly gentle slopes. Practically all of it is under cultivation. At Latitude 37° 13.4 and Longitude 122°24.0 there is a lake used for storing water for irrigation purposes. There is a dam at the west end over which the Coest Road passes.

Immediately north of Latitude 37° 16 there is a valley about 800 meters in width. This valley is very flat and marshy for about a mile back from the shoreline. Pescadero Creek meanders along this valley and for the greater part of the year loses itself in the marsh. It is only during the rainy part of the year that it empties directly into the ocean. In the northwest part of the valley there is a small lake or pond fed by Pescadero Creek.

Northward from this valley the shoreline consists of high bluffs with a strip of sand beach below. There are no offlying rocks in this section. The hills come directly to the edge of the bluffs. All of this area which is not too steep in under cultivation, the remainder being used for pasture.

LANDIMARKS: The only landmarks on this sheet are Pigeon Point Lighthouse and the Pescadero Hotel, both of which are already shown on the charts. The tank which is triangulation station TANK NEAR HOTEL is on the north end of the Pescadero Hotel.

CHARACTER OF CONTROL: Control for this survey was furnished by second order triangulation executed in 1931 by Lieutenant C. D. Meany and by third order triangulation executed in 1932 by this party in order to

give more rigid control. The stations are plotted using the North American (1927) Datum, but the final adjusted positions were not available at the time of this survey.

SURVEY METHODS: Only standard survey methods were used. Setup positions were all determined by traverses. Three point fixes were used as checks only. All features which were knowned in were located by three or more cuts. Separate traverses were run in surveying the road. Sunken rocks were located by cuts to the breakers or boiling caused by them. Notes are placed adjacent to these rocks indicating that the positions are approximate. However, the positions of these rocks are probably accurate to about 10 meters. It was practically impossible to locate all of the small rocks by cuts and some of them are sketched in. All of the rocks which have the heights shown were located by cuts as were the majority of the others.

Traverse	Error in Distance	Assert Assert	Length of Traverse Stat. Miles.
A Cat to A Daro	-2	1	1,3
ADaro to A Los	-4	0	1.9
Δ Los to, Δ Tank near Hotel	-1	0	0.6
A Tank near Hotel to A Pin APin to A Pigeon Point Light-		2	1.8
house	- 3	3	2.3
ARoad (Road troverse)	- 6	2	4.1
traverse)	-12	5	llo2 (Total)
-	[-7]	(3)	(6.5)(This Sheet)

This traverse was run from \triangle Gregorio on Sheet C to the bottom of that sheet and the last so tup marked. A traverse was then run on this sheet from \triangle Road and closed on the above setup transferred to this sheet. The closing error was then adjusted between the two traverses.

COMPARISON WITH OLD WORK: The contours, shoreline and rocks were transferred from the bromides of the old sheets covering this area. The contours were carefully checked and no changes were found necessary. A new survey was made of the shoreline and the rocks. The shoreline checked fairly well over most of the sheet. However, in many places the High Water Line is on sloping rocky ledges and in several places the two surveys do not agree as to the position of this line. In some places the High Water Line on the old sheet is farther offshore and in other places it is farther inshore than on this sheet.

However, it is probable that this does not indicate a change in the shoreline but rather a difference of opinion as to where the High Water Line is.

The rocks aresh several hundred meters off shore and the larger rocks closer in checked very well with the old work. Close inshore there are so many small rocks that the rocks transferred from the old sheets were erased as they caused a great deal of confusion. An attempt was made to check them from a tracing but they had apparently been mostly sketched in on the old sheets and the individual rocks could not be identified. However, the outer limits of the groups of rocks checked fairly well.

Satisfactory junctions were made with Sheet Field Letter JUNCTIONS: C on the north and Sheet Field Letter E on the south.

GEOGRAPHIC NAMES: No new geographic names are used on this sheat.

CHANGES IN COAST LINE: No change in the shoreline could be determined by comparison with the old work. No shoreline references were available and the amount of change due to breaking down of the bluff was probably small.

COMPARISON WITH AERIAL PHOTOGRAPHS: Aerial photographs for this area were available and were very closely examined. A large number of the features located on the topographic sheet are easily recognized on the photographs and if these photographs are to be reduced there are a sufficient number of points easily recognizable on both. The photographs were also closely compared with the topographic sheet in order to pick up any errors or omissions.

COMPARISON WITH HYDROGRAPHIC SHEET FIELD FO. 4: Hydrographic Sheet Field No. 4 was mailed in to Washington Office before the inking of the topographic sheet was completed. However, all the rocks and the shoreline had been inked in and were transferred to the hydrographic sheet. The officer in charge of the smooth plotting of the hydrographic sheet examined the two sheets but neglected to mention it in his report. It should be noted that the breakers and rocks avash shown on this sheat were used on the smooth hydrographic sheet in preference to the locations obtained by the hydrographic party as the cuts taken by the hydrographic party were not taken simultaneously with the position. The hydrographer agrees that locations obtained by the topographer should be used except in those cases where a three point fix was taken over or close to a rock.

The position of the rocks wash half a mile north of Pigeon Point agreed very well with that obtained by the hydrographer and also with the positions shown on the bromides of the old topographic sheet.

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The positions of the rocks stash in Latitude 37°14.8, Longitude 122°25.3 and the sunken rocks in Latitude 37°15.1, Longitude 122°25.3 did not check very well with the cuts taken by the hydrographer. The rocks stash checked very well with those on the bromides of the old topographic sheets. The sunken rocks were not shown on the bromides.

Ho cut was taken by the hydrographer to the sunken rock, Latitude 37 15.3, Longitude 122 25.2 or to the breakers shown off the mouth of Pescadero Creek. These were located by good cuts by the topographer.

Respectfully submitted,

W. C. Applequist,

Aid,

U.S.C. & G.Durrey.

Respectfully forwarded, approved:

Fred. L. Peacock,

Chief of Party, C. & G. Survey,

Commanding Ship GUIDE.

STATISTICS to eccompany TOPOGRUPHIC SHEET FIELD LETTER D

Date Field Vork Began:	July 18, 1932
Date Field Work Was Completed:	August 3, 1932
Number of Days of Field Work:	11
Statute Miles of Shoreline:	9.8
Statute Miles of Road:	13.4
Area in Square Statute Wiles:	7.0
Number of Recoverable Hydrographic	
Stations Located:	8

LIST OF TOPOGRAPHIC SIGNALS to accompany TOPOGRAPHIC SHEET FIELD LETTER D

H ydro g. Na <u>r</u> o	Object and Description:	Remarks:
Ros	9 ft. rock & mile north of Pigeon	
	Paint	Top
Neu	Vest Gable Unpainted Barn	Center
Gab	Vest Gable Grey Barn	Center
Uhi.	Vest Cable Uhite Barn	Center
Grey	Vest Gable of Grey Barn	Center
Bar	West Gable White Barn	Center
Nor	North Gable Gray House	Center
Big	Vest Face small House on	
	Sand Bunker	Center

These stations are all recoverable and Form 524, Description of Hydrographic or Topographic Station, was filled out for each of them.

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REVIEW OF TOPOGRAPHIC SURVEY No. 4796

Title (Par. 56) ligeon Point to Resenteso brush, Pacific Coast, California

Chief of Party T. Pascock Surveyed by H.C. applying Inked by H. G. Q.

Ship Suide Instructions dated April 4,1932 Surveyed in July 1932

- 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.)
- 5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) blecked contouring on T682 and was found good.

 Resurvey of shoreline and off shore details only accomplished.
- *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.) More 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.) Details outside I high water line pastly sketched.

 The Descriptive Report.
- 9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
- 10. The span, draw and clearance of bridges are shown. (Par. 160.)
- 11. Locations and elevations of summits are given. (Par. 19, 51.)
- 12. The tree line was shown on mountains. (Par. 10g.)
- 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.

- 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.)
- The descriptive report also contains additional information required in aero-topography relative to type of photographs, mathod of compit lation 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.) and plotting churched
- A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) Existing landmarks covered by Deac. Rep.
- The magnetic meridian was shown and declination was checked. V (Par. 17, 52.)
- The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.) beauth are shown in meters only
- 19. Junctions with contemporary surveys are adequate.
- 20. Geographic names are shown on the sheet and are covered by the Descriptive 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.)
- 22. No additional surveying is recommended.
- The Chief of Party inspected and approved the sheet and the descriptive 23. report, after review by

24. Remarks: Contours in pencil were transferred from T653 and T682 survey of 1854.

Reviewed in office by P.J. Christman, Jan. 29,1934

Examined and approved:

thier, Section of Field Records

Chief, Division of Charts

Field Work

Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

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. "D"

REGISTER NO. 4/50

State California
General locality California Coast
Locality Pigeon Point to Pescadero Creek
Scale 1:10,000 Date of survey July 1932 , 1992
Vessel U.S.C.& G.S.S. GUIDE
Chief of Party Fred L. Peacock
Surveyed by H. C. Applequist
Inked by H, C. Applequist
Heights in feet above M. H. W. to ground ************************************
Contrairs, Approximate contour, Formatshipes interval 20 feet
Instructions dated April 4, 1932 , April 4
Remarks: