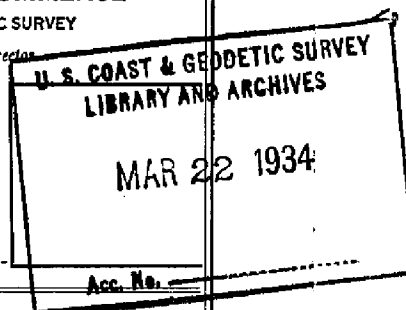


4812

Form 504 Ed. June, 1923	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
R.S. Patton, Director	
State: <u>California.</u>	
DESRIPTIVE REPORT	
Topographic <del>Geographic</del>	Sheet No. <u>F 4812</u>
LOCALITY	
<u>Pacific Coast.</u>	
<u>El Jarro Point to Big Gulch.</u>	
19 <u>32</u>	
CHIEF OF PARTY	
<u>Fred L. Peacock.</u>	



DESCRIPTIVE REPORT  
to accompany  
TOPOGRAPHIC SHEET FIELD NO. F  
Project No. 101  
Coast of California  
U.S.C. & G.S.S. GUIDE  
1932

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

ORGANIZATION OF PARTY: The topographic party consisted of one officer and three men. The party based at the town of Pescadero for a part of the time and at the City of Santa Cruz for the remainder. A truck was used for transportation.

LIMITS: This sheet consists of a resurvey of the area adjacent to the shoreline between Latitude  $37^{\circ} 01.5$  and Latitude  $37^{\circ} 06.7$ .

GENERAL DESCRIPTION OF COAST: The shoreline on this sheet consists of bluffs of varying heights and slopes. From the south end of the sheet to the mouth of Scotts Creek the bluffs rise nearly vertically and the foot of the bluff coincides with the High Water Line. Scotts Creek forms a wide break in the bluff. During the greater part of the year there is little water in the creek and its mouth is blocked by a sand bar. Northward from Scotts Creek to Latitude  $37^{\circ} 04.4$  the bluffs are steep and the foot of the bluff coincides with the High Water Line. From Latitude  $37^{\circ} 04.4$  north to the mouth of Waddel Creek in Big Gulch, there is a strip of sand beach below the bluffs. Big Gulch forms a wide break in the bluffs. Waddel Creek in Big Gulch is a small stream with a sand bar blocking its mouth during the greater part of the year. The north side of Big Gulch is very steep and the bluffs to the north are very prominent. They are whitish in color and rise to a height of nearly 400 feet. These bluffs are composed of soft material and are rapidly breaking down.

From the south end of the sheet to Scotts Creek there is a bench sloping back to the hills. This bench is all under cultivation. From Scotts Creek north to Big Gulch the hills come directly to the edge of the bluffs. These hills are not very steep except just south of Big Gulch and the greater part is under cultivation or used as pasture land. North of Big Gulch the hills are very steep and partially wooded, as is the area directly south of Big Gulch.

LANDMARKS: The bluffs just north of Big Gulch are very prominent and should be mentioned in the Coast Pilot. There are no other landmarks on this sheet.

CHARACTER OF CONTROL: Control for this survey was furnished by second order triangulation executed in 1931 by Lieutenant C. D. Meaney. The stations are plotted on the North American 1927 Datum. The adjusted positions of the stations were used.

SURVEY METHODS: Only standard survey methods were used. Setup positions were all determined by traverse, using three point fixes as checks whenever possible. All features which were not rodded in were located by three or more cuts. Separate traverses were run in locating the road excepting that portion of the road north of Big Gulch which was located at the same time as the shoreline. Sunken rocks were located by cuts to the breakers or boiling caused by them. Notes are placed on the sheet indicating that the positions are approximate. In estimating the elevations of offlying rocks and of rocks awash a curve drawn from the predicted tides was used to determine the stage of the tide.

T4860

On Sheet Field Letter E, directly to the north of this sheet, no control was available east of  $\Delta$  Evo and it was found necessary to run a traverse on two sheets. A traverse was run from  $\Delta$  Evo, orienting on  $\Delta$  Oil Derrick, eastward to Topographic Station Nel on Sheet E. On this sheet, a traverse was run northward from  $\Delta$  Grey, orienting on  $\Delta$  Evo and closing on Topographic Station Nel. The closing error was then distributed proportionately over the two traverses. Both traverses were run and the adjustment made before any detail was rodded in.

That portion of the road between Big Gulch and  $\Delta$  Grey was located by a traverse from  $\Delta$  Grey northward and closed on Topographic Station Shed.

CLOSING ERRORS OF TRAVERSES AND METHOD OF ADJUSTMENT: All traverses closed within the allowable limit of four meters per mile of traverse and they were adjusted by distributing the error proportionately over the traverse.

Traverse	Error in Meters		Length of Traverse Statute Miles.
	Distance	Azimuth	
* $\Delta$ Evo to $\Delta$ Grey. . . . .	-8	3	5.4
$\Delta$ Grey to $\Delta$ Ocean. . . . .	-6	5	4.1
$\Delta$ Ocean to $\Delta$ Jaro. . . . .	-3	2	1.3
o Shed to $\Delta$ Grey, Road Traverse . . . . .	-2	2	0.9
$\Delta$ Grey to $\Delta$ Jaro, Road Traverse	-5	23	7.0

\* See second paragraph under SURVEY METHODS.

Maddell (U.S. Bank, ... )  
+ Top 4412



#5366

4

T4800

MISCELLANEOUS: Several red circles indicating topographic stations are shown on the sheet having no names. These stations were temporary stations located but not used by the hydrographer. The circles had been inked before it was learned that the hydrographer had not used them, so they were left on the sheet.

A list of recoverable topographic stations located accompanies this report. Form No. 524, Description of Hydrographic or Topographic Station was filled out for each of these stations and are forwarded with the sheet.

Respectfully submitted,

*H. C. Applequist*  
H. C. Applequist,  
Aid,  
U.S.C. & G. Survey.

Respectfully forwarded,  
approved:

*F. H. Hardy*  
F. H. Hardy,  
H. & G. Engineer, C. & G. S.,  
Commanding Ship GUIDE.

STATISTICS  
to accompany  
TOPOGRAPHIC SHEET FIELD LETTER F  
Project No. 101  
Coast of California  
U.S.C. & G.S.S. GUIDE  
1932

DATE FIELD WORK BEGAN	August 18, 1932
DATE FIELD WORK WAS COMPLETED	September 19, 1932
NUMBER OF DAYS OF FIELD WORK	13
STATUTE MILES OF SHORELINE	9.2
STATUTE MILES OF ROAD	12.5
AREA IN SQUARE STATUTE MILES	8.4
NUMBER OF RECOVERABLE HYDROGRAPHIC STATIONS LOCATED	5

LIST OF TOPOGRAPHIC STATIONS  
to accompany  
TOPOGRAPHIC SHEET FIELD LETTER F  
Project No. 101  
Coast of California  
U.S.C. & G.S.S. GULDE  
1932

Hydrographic Name	Object and Description	Remarks
Bil	West gable of white house	Center
Tall	Tallest tank at General Petroleum Co. plant	Center
Gab	West Gable of white barn	Center
Tank	Southeast of two whitewashed water tanks, Big Gulch	Center
Tuf	Standard Hydrographic Station Disc.	

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 Letter ..... "E" .....

REGISTER NO.

State..... California .....

General locality..... Pacific Coast .....

Locality..... El Jarro Point to Big Gulch .....

Scale..... 1 : 10 000 ..... Date of survey..... September ....., 19 32

Vessel..... U. S. C. &amp; 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 ~~to tops of trees~~~~Contours~~ Approximate contour ~~form lines~~ interval 20 ..... feet

Instructions dated..... April 4 ....., 19 32

Remarks:.....



## REVIEW OF TOPOGRAPHIC SURVEY No. 4812

Title (Par. 56) *O.R.*Chief of Party *F.L. Pearce* Surveyed by *H.C. Applegquist* Inked by *H.C. Applegquist*Ship *Guide* Instructions dated *April 4, 1932* Surveyed in *Sept. 1932*1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) *Yes*2. The character and scope of the survey satisfy the instructions. *Yes*3. The control and closures of traverses were adequate. (Par. 12, 29.) *Yes*4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.) *Yes*5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *Yes*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.) *No maps submitted*7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) *No marsh or mangrove. High water line adequate.*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.) *Yes*9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) *Yes*10. The span, draw and clearance of bridges are shown. (Par. 16c.) *No bridges within this area.*11. Locations and elevations of summits are given. (Par. 19, 51.) *Yes*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.

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.) *Yes*
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. *Yes*
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.) *Yes*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *No prominent landmarks with exception of bluffs north of Big Gulch. Form 567 not filled out.*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *Yes*
18. The geographic datum of the sheet is *North American 1927* and the reference station is correctly noted. (Par. 34.) *Yes*
19. Junctions with contemporary surveys are adequate. *The junction on the north with T 4800 is adequate. The sheet which joins on the south has not yet been received.*
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) *Yes*
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.) *Quality good*
22. No additional surveying is recommended. *None recommended*
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by *H. C. Applegquist*
24. Remarks: *Survey considered very good. The contours shown in pencil were transferred from the survey of 1853 T. 445. The contours inked in red are*  
 Reviewed in office by *R. L. Johnston* *also the old contours which have been modified in some places, with occasional check elevations*  
 Examined and approved:
- E. H. Green*  
 Chief, Section of Field Records
- J. S. Borden*  
 Chief, Division of Charts
- L. C. Dolbert*  
 Chief, Section of Field Work
- G. W. Rude*  
 Chief, Division of Hyd. and Top.