

4009

G. & G. SURVEY  
L. & A.  
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Dist. No.

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| Form 504<br>DEPARTMENT OF COMMERCE<br>U. S. COAST AND GEODETIC SURVEY |
| State: <u>California</u>  |
| 11-5613   |
| DESCRIPTIVE REPORT.   |
| Topog. Sheet No. <u>4009</u>  |
| LOCALITY:   |
| <u>Vicinity of San Diego</u>  |
| <u>False Bay to La Jolla</u>  |
| <u>1922</u>   |
| CHIEF OF PARTY:   |
| <u>R. R. Lockens</u>  |

DESCRIPTIVE REPORT

to accompany

Topographic Sheet No *Field No 2.*

Ocean Beach San Diego to Del Mar.

Str. PIONEER      R.R. Lukens  
Chief of Party

1922 - 1923.

PURPOSE OF SURVEY      This sheet was laid out for the purpose of locating the more important new landmarks for the chart. All isolated buildings and natural objects were located carefully for possible use as hydrographic signals for inshore work. The high water line was also rodded in as far as possible without materially delaying the party.

DESCRIPTION OF THE COAST      In the vicinity of the Casino at Ocean Beach the shore line is sandy and much subject to change by wave action and currents thru the mouth of Mission or False Bay. The Casino is a wooden amusement park structure with a sheet piling retaining wall. A ballroom is built on piles out over the water. A prominent wooden tower Signal "Cas", in fair condition will probably last several years and may be shown on the chart. A substantial concrete bridge has been built across the mouth of False or Mission Bay. A trolley from San Diego runs across this bridge and up the beach as far as the resort "Mission Beach". A board walk has been built along the high water line of the beach from the bend of the road across the bridge to just north of the resort. The houses at Mission Beach have been generalized except for the large bath house near the center of the settlement.

The isolated houses have been carefully located and may be used for hydrographic signals. About one half mile north of Mission Beach the coast line changes from flat sand to a gradually rising bluff of conglomerate with gravel and rock ledges at its foot, and deeply indented barrancas where small surface watercourses run after heavy rains.

A small outlying rock about twenty feet high called Bird Rock has given its name to a small group of houses on the highway inshore from it.

La Jolla is a small residence city with a park at the point of the same name. It has asphalt paved streets and many beautiful homes. There are some wave caves under the rocky points to the northward of the town and a little protected beach between the points which makes a good boat landing at high water. At low water sunken rocks make it dangerous for anything except small skiffs.

To the northward of La Jolla the cliffs give way to a mile stretch of low sand beach with a salt pond in back of it.

THE SCRIPPS INSTITUTE At the north end of the low coast about  $1\frac{1}{2}$  miles north of La Jolla, The Scripps Institution for Biological Research, has two large buildings and a concrete tank which make a good landmark for the chart. There is also a substantial pier three hundred meters long from which oceanographic observations are made. The Institute is affiliated with the University of California. Every courtesy is extended to those interested in scientific work.

DEL MAR At Del Mar a short traverse from some recovered triangulation stations was made to locate a prominent black tank (Signal "Mar") and the south gable of the Stafford Inn, (Signal "Gab") both prominent objects which had been used for hydrography by the ship. A brick chimney and the wharf were also cut in.

NAMES AND CORRECTIONS FOR CHART 5102 The bay called False Bay on the chart is commonly called Mission Bay. That portion named Mission Bay on the chart in latitude  $32^{\circ} 52'$  longitude  $117^{\circ} 16'$  is called La Jolla Cove. It is recommended that the name "Mission Bay" at this place be removed from the chart.

The L A and S D B Ry. shown on the chart no longer exists. It is recommended that it be expunged.

It is recommended that the Scripps Institution and pier be shown on the chart.

CONTROL A theodolite three point fix from "Soledad " "Dome" and "Balboa Park Tower" was computed for the position of signal "Cas".

Signal Point was computed from a concluded triangle Soledad-Dome-Point. The traverse between them did not require adjustment. The traverse north from signal "Point" to signal "Con" was adjusted fifteen meters in azimuth to check a theodolite cut from Soledad to "Con". The distance was roughly checked by sextant cuts from the ship.

*Later ~~even~~ comparison of the shoreline of this sheet with that of Sheet No 2013 shows a discrepancy of the rocky shore to the eastward of Pt La Jolla. As this part of the shoreline depended on a weak resection, and tangents it is recommended that the carefully added shoreline of No 2013 be accepted instead. The relative positions of the reefs and low waterline is believed correct & O'Reading however and may be retained meaning it. the same distance as the high water line*  
Respectfully Submitted  
O'Reading 12/1/28  
Approved *R.R. Lukens*

Lieut. C. & G. Survey

Comm'dg. U.S.S. PIONEER

To the Director

U.S. Coast & Geodetic Survey

Washington, D.C.



# LIST OF SIGNALS DETERMINED BY PLANE TABLE

|                         | to                      |        | accompany |        |   |  |
|-------------------------|-------------------------|--------|-----------|--------|---|--|
|                         | Topographic Sheet No. 2 |        |           |        |   |  |
| OBJECT                  | Lat.                    | D.M.   | Long.     | D.P.   | REMARKS   |  |
| "Oil"                   | 32 45'                  | 629 ✓  | 117 13'   | 1067 ✓ | Oil Derrick   |  |
| "Dark"                  | 46                      | 617 ✓  | 15        | 204 ✓  | Two story dark house on beach.                      |  |
| "Derrick"               | 47                      | 679 ✓  | 11        | 659 ✓  | Oil derrick on horizon                              |  |
| "Yel"                   | 50                      | 05 ✓   | 16        | 491 ✓  | A rch of yellow bldg.                               |  |
| Belfry, Bishop School   | 50                      | 931 ✓  | 16        | 1081 ✓ |   |  |
| Hotel Elevator          | 50                      | 1680 ✓ | 16        | 648 ✓  |   |  |
| Cupola "Ho"             |                         |        |           |        |   |  |
| Concrete Tank           | 51                      | 1700 ✓ | 15        | 348 ✓  | Elevated concrete tank                              |  |
| "Con"                   |                         |        |           |        |   |  |
| S. Gable, Del Mar Hotel | 57                      | 1148 ✓ | 15        | 1468 ✓ | Stafford Inn  |  |
| "Gab"                   |                         |        |           |        |   |  |
| "Mar"                   | 57                      | 1362 ✓ | 15        | 788 ✓  | Large covered <sup>black</sup> <del>dark</del> tank |  |

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. (2) 4609

State . . . California

General locality . . . Vicinity of San Diego  
Southern Coast

Locality . . . False Bay to La Jolla  
Ocean Beach, San Diego Del Mar

Chief of party . . . R.R. Lukens

Surveyed by . . . R.R. Lukens & O.S. Reading

Date of survey . . . December 1922.

Scale . . . 1 : 20,000

Heights in feet above . . . MHW

Contour interval . . . \*\*\*\* feet.

Inked by O.S. Reading . . . Lettered by O.S. Reading

Records accompanying sheet (check those forwarded): Photographs,

\*Descriptive report,\*Horizontal angle books,\*Field computations,

Data from other sources affecting sheet

Remarks: A traverse for the location of shore objects for use in hydrography.

The high water line was also run in when this could be done without unduly delaying the party.