

4603

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| Form 504<br>Ed. June, 1928      |   |
| DEPARTMENT OF COMMERCE          |   |
| U. S. COAST AND GEODETIC SURVEY |   |
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| JUN 24 1931                     |   |
| State: California               |   |
| Acc. No.                        |   |
| DESCRIPTIVE REPORT              |   |
| Topographic<br>Hydrographic     | Sheet No. 4603<br>Field letter A                      |
| LOCALITY                        |   |
| San Francisco Bay               |   |
| Pt. San Bruno to Pt. San Mateo  |   |
| 1930                            |   |
| CHIEF OF PARTY                  |   |
| G. C. Jones                     |   |

## DESCRIPTIVE REPORT

### TO ACCOMPANY SHEET

INSTRUCTIONS DATED SEPT. 8, 1930.

This area was not included in the above instructions, but the topography was run to give hydrographic control for inshore soundings. No attempt was made to show minute detail except for the state highway, known as the Bayshore Road, and the shoreline and where detailed information could be rodded without undue loss of time while running traverse.

The details for this sheet can be obtained from topographic sheet T4439, June, 1929, except for the shoreline north of latitude  $37^{\circ} 38'$ . Sheets 2206 (1895) and 3796 (1919) show detailed information north of latitude  $37^{\circ} 38'$ .

#### DISCREPANCIES BETWEEN SHEETS:

The Bayshore Highway agrees with the new survey. The new survey shows only the concrete width of highway, which is now complete, whereas the old sheet shows the fill on which the new road was laid. This road has a nine foot shoulder of tar on either side and is staked with white guard posts at the extreme edges.

The shoreline was found to agree with old surveys only between  $\odot$  Lit and  $\Delta$  Pt. San Mateo 1925. Especial attention was paid to checking the shoreline by comparing the inshore ends of sounding lines with the topography while sounding.

#### DESCRIPTION OF AREA:

The shore in general is low, flat and marshy. The topography around  $\Delta$  San Bruno and north of latitude  $37^{\circ} 39'$  forms a gentle rounded knoll of approximately 300 feet elevation. The wooded area at Pt. San Mateo forms a small knoll reaching an elevation of approximately 50 feet elevation and evenly-tapered.

#### LANDMARKS:

#### CHARACTERS OF CONTROL USED:

The Bay at Oyster Point was controlled from  $\Delta$  Oyster Point 1894. only one table point was necessary, all distances being checked.

The remainder of the sheet was run by plane table traverse.

Plane table positions, Black Water Tank, Oil Derrick Millbrae, Tall Silver Water Tank Millbrae, Twin Shell Oil Company Tank and Brown Stone Archway were plotted from furnished list taken from T4439. These were checked by cuts from  $\Delta$  San Bruno and  $\odot$  Low and found to agree. This work was done the first day, before the sheet had expanded.  $\odot$  Low was used in place of  $\Delta$  Pt. San Mateo since all view to west and north-west was obscured and  $\odot$  Low was very carefully rodded in and checked.

Traverse was started at  $\Delta$  Pt. San Mateo and run west and north. This sheet was found to have expanded about 5 meters per mile. The traverse was tied into  $\odot$  Brown Stone Archway and found to be short in distance about 6 meters. This was checked by a 4-point fix and adjusted. The same procedure was followed at  $\odot$  Twin Shell Oil Company Tank, the error here being about 12 meters short in distance. The remaining distance to  $\Delta$  Vane was traversed and tied in. Here 18 meters error in distance was found, this traverse being also short. About every 1000 meters a strong 4-point fix was taken to aid in adjustment. ~~The distance between  $\Delta$  Vane and  $\Delta$  Pt San Mateo was short about 12 meters and adjusted.~~

*Edwin C. Baum*

Edwin C. Baum,  
Jr. H. & G. E.

APPROVED:

*G. C. Jones*  
G. C. Jones, H. & G. E.  
Chief of Party.

Supplemental note:

Since the topography on this sheet was run a third tank was built at "Twin Shell Oil Co Tank (transferred from sheet T4439 ). The new tank is north of the other two, in line with them, and the same distance from the center tank as the southern tank.

G. C. Jones,  
Chief of Party.

List of Plane Table Positions to accompany Topographic Sheet #A Field

| Name                              | Lat.    | D. M.         |                   | Long.    | D. P.         |                   | Height | Remarks          |
|-----------------------------------|---------|---------------|-------------------|----------|---------------|-------------------|--------|------------------|
|                                   |         | Bot<br>Top    | Corrected         |          | East<br>West  | Correct           |        |                  |
| <u>Gab.</u> gable of white house. | 37° 40' |               | 397               | 122° 23' |               | 741               | 30'    | So. gable-top.   |
| <u>Con</u> concrete post          | 37 40   |               | 22                | 122 23   |               | 743               | 14     | Center           |
| <u>Pil</u> fender piles           | 37 39   | 1795<br>(58)  | 1795<br>(58)      | 122 23   | 656<br>(817)  | 655.0<br>(815.8)  | 12     | Center           |
| <u>Wod</u> wooden water tank      | 37 39   | 1552<br>(301) | 1549.3<br>(300.5) | 122 23   | 190<br>(1282) | 189.8<br>(1281.0) | 20     | Center           |
| <u>Rok</u> gray rock              | 37 39   | 1848<br>(3)   | 1846.8<br>(3)     | 122 23   | 83<br>---     | 83<br>---         | 40     | Highest point    |
| <u>Tot</u> black tank on (gr.)    | 37 39   | 1046<br>(807) | 1044.6<br>(805.2) | 122 23   | 827<br>(646)  | 825.8<br>(645)    | ---    | Center           |
| * <u>NW.</u> Radio tower          | 37 39   | 660<br>(1189) | 660.3<br>(1189.5) | 122 23   | 73<br>(1398)  | 73<br>(1397.8)    | ---    | Top              |
| * <u>Tad</u> (SW. radio tower)    | 37 39   | 502<br>(1347) | 502<br>(1347.8)   | 122 23   | 127<br>(1346) | 126.8<br>(1344.0) | ---    | Top              |
| * <u>Wet</u> (white water tank)   | 37 39   | 458<br>(1388) | 459.0<br>(1390.8) | 122 23   | 86<br>(1386)  | 85.9<br>(1384.9)  | ---    | Top              |
| * <u>Mad</u> (white water tank)   | 37 39   | 254<br>(1596) | 254<br>(1595.8)   | 122 22   | 1235<br>(238) | 1233.2<br>(237.6) | ---    | Top              |
| * <u>High</u> (tall black stack)  | 37 39   | 232<br>(1620) | 231.7<br>(1618.1) | 122 22   | 1062<br>(412) | 1059.7<br>(411.1) | ---    | Top              |
| * <u>Red</u> (tall red stack)     | 37 39   | 123<br>(1727) | 123.0<br>(1726.8) | 122 22   | 1224<br>(248) | 1223.0<br>(247.8) | ---    | Top              |
| <u>Dock</u> , pump house          | 37 39   | 128<br>(1722) | 128.0<br>(1721.8) | 122 22   | 950<br>(524)  | 947.9<br>(522.9)  | 25     | Top so. gable    |
| <u>Bow</u> , single pile          | 37 39   | 00<br>(00)    | 00<br>(00)        | 122 23   | 99<br>(1377)  | 98.6<br>(1372.2)  | 12     | Top              |
| <u>Black</u> , black stack        | 37 39   | 176<br>(1285) | 175.8<br>(1674.0) | 122 23   | 387<br>(1091) | 385.1<br>(1085.7) | ---    | Top              |
| <u>Pipe</u> , pipe in shack       | 37 39   | 90<br>(1762)  | 89.9<br>(1759.9)  | 122 23   | 782<br>(692)  | 780.3<br>(690.5)  | 16     | Top              |
| <u>Hat</u> , small shack          | 37 38   | 1810<br>(34)  | 1815.7<br>(34.1)  | 122 23   | 877<br>(597)  | 875.3<br>(595.6)  | 12     | Center           |
| <u>Mar</u> , shack                | 37 38   | 1472<br>(374) | 1475.0<br>(374.8) | 122 23   | 880<br>(593)  | 878.9<br>(592.3)  | 20     | So. gable center |
| <u>Tree</u> , lone tree.          | 37 38   | 987<br>(858)  | 989.6<br>(860.2)  | 122 23   | 1065<br>(406) | 1065.2<br>(406.0) | 30     | Center of trunk  |
| <u>Pad</u> , duck blind           | 37 38   | 564<br>(1281) | 565.5<br>(1284.3) | 122 23   | 683<br>(790)  | 682.0<br>(789.2)  | 9      | Center           |
| <u>Sad</u> , white tripod         | 37 37   | 1472<br>(380) | 1470.3<br>(379.5) | 122 23   | 445<br>(1027) | 444.8<br>(1026.7) | 3      | ----             |
| <u>Cap</u> , yellow search light  | 37 37   | 945<br>(905)  | 944.9<br>(904.9)  | 122 23   | 268<br>(1203) | 268.1<br>(1203.4) | 6      | ----             |
| <u>Rot</u> , green house          | 37 37   | 316<br>(1535) | 315.8<br>(1534.0) | 122 23   | 512<br>(957)  | 512.9<br>(958.6)  | 25     | Center           |
| <u>Yel</u> , Shell gas sign       | 37 35   | 1500<br>(350) | 1499.8<br>(350.0) | 122 21   | 1341<br>(128) | 1343.9<br>(128.3) | 12     | Center           |
| <u>Boat</u> , main black stack    | 37 35   | 1532<br>(316) | 1533.5<br>(316.3) | 122 21   | 1205<br>(266) | 1206.0<br>(266.2) | 60     | Center           |

\* Locations do not agree with positions given on T4439.

(List continued)

## List of Plane Table Positions to accompany Topographic Sheet

| Name                                 | Lat.    | D. M.         |                   | Long.    | D. P.         |                   | Height | Remarks            |
|--------------------------------------|---------|---------------|-------------------|----------|---------------|-------------------|--------|--------------------|
|                                      |         | Bot<br>Top    | Corrected         |          | East<br>West  | Correct           |        |                    |
| <u>Cad.</u> ,<br>Cadillac sign       | 37° 35' | 1105<br>(744) | 1107.8<br>(745.9) | 122° 21' | 1118<br>(354) | 1118.2<br>(354.0) | 12'    | Center             |
| <u>Cat.</u> ,<br>sewer drain         | 37 35   | 548<br>(1301) | 548.2<br>(1301.6) | 122 21   | 388<br>(1079) | 389.4<br>(1082.8) | --     | Center             |
| <u>Mid.</u> ,<br>sewer drain         | 37 35   | 546<br>(1303) | 546.2<br>(1303.6) | 122 21   | 271<br>(1198) | 271.6<br>(1200.6) | --     | Center             |
| <u>Sat.</u> ,<br>sewer drain         | 37 35   | 555<br>(1294) | 555.2<br>(1294.6) | 122 21   | 163<br>(1307) | 163.3<br>(1308.9) | --     | Center             |
| <u>Tod.</u> , easterly<br>of 2 trees | 37 35   | 501<br>(1346) | 501.8<br>(1348.0) | 122 20   | 1251<br>(224) | 1248.6<br>(223.6) | --     | Center<br>of trunk |
| <u>Fat.</u> ,<br>sewer drain         | 37 35   | 506<br>(1345) | 505.7<br>(1344.1) | 122 20   | 1217<br>(256) | 1216.3<br>(255.9) | --     | Center<br>of pipe  |
| <u>Sew</u>                           | 37 35   | 448<br>(1402) | 447.9<br>(1401.9) | 122 20   | 477<br>(1000) | 475.4<br>(996.8)  | --     | Center<br>of pipe  |
| <u>Lit.</u> , light<br>on dock       | 37 35   | 807<br>(1045) | 806.0<br>(1043.8) | 122 19   | 1035<br>(432) | 1038.7<br>(433.5) | --     | Center             |
| <u>Roof</u> , north<br>gable         | 37 35   | 641<br>(1213) | 639.5<br>(1210.3) | 122 19   | 993<br>(471)  | 998.6<br>(473.6)  | --     | Center             |
| <u>Low</u> , tripod                  | 37 35   | 1001<br>(852) | 999.3<br>(850.5)  | 122 19   | 322<br>(1141) | 324.0<br>(1148.2) | --     | -----              |
| <u>Pole</u> , pile                   | 37 35   | 422<br>(1428) | 422.0<br>(1427.8) | 122 22   | 530<br>(941)  | 530.3<br>(941.5)  | --     | Top                |

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JUN 22 1931

Acc. No. ....

REG. NO. 4603

## 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 .....A.....

REGISTER NO. 4603

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

General locality.....San Francisco Bay.....

Locality.....Pt. San Bruno to Pt. San Mateo.....

Scale 1-10,000..... Date of survey.....October....., 1930

Vessel.....Project #70.....

Chief of Party.....G. C. Jones.....

Surveyed by.....Edwin C. Baum.....

Inked by.....Edwin C. Baum.....

Heights in feet above.....to ground to tops of trees

Contour Approximate contour Form line interval.....feet

Instructions dated.....Sept. 8, 1930....., 19

Remarks: ~~Hydrographic control sheet, not included in instructions for topography and not overlapped with adjacent sheet this project.~~