

4186

4186

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: California

11-5613

DESCRIPTIVE REPORT.

Topsographic Sheet No. 4186

LOCALITY:

Southern Coast

Newport Bay

1926

CHIEF OF PARTY:

T.J. Maher

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO. 4186

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. 4186

REGISTER NO.

State California

General locality Southern Coast

Locality Newport Bay

Scale 1:10,000 Date of survey March, 1926

Vessel GUIDE

Chief of Party Thos. J. Maher

Surveyed by Thos. B. Reed

Inked by Thos. B. Reed

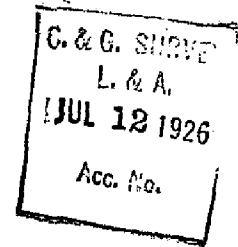
Heights in feet above H.W. to ground ~~to tops of trees~~

Contour, ~~Approximate contour~~ ~~Formative~~ interval 20 feet

Instructions dated January 21, 1926.

Remarks:

T-4186



U.S. COAST AND GEODETIC SURVEY

Col. E. Lester Jones, Director.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC

SHEET, NEWPORT BAY, CALIFORNIA.

Surveyed, March, 1926.

U.S.C. & G.S.S GUIDE
1926.

Thos. J. Maher,
Commanding, Chief of Party.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET _____

NEWPORT BAY , CALIFORNIA, MARCH 1926.

Instructions.

This work was done under instructions dated January 21, 1926.

Extent.

This sheet includes the topography from approximately one mile east of Newport Entrance to four miles west of the entrance, and extends northward to the northern end of the Bay.

Control.

Control for this sheet consisted of sixteen recovered triangulation stations. Several stations established by the U.S. Engineers in 1912 and shown on the blue print accompanying the topographic sheet, were computed on North American datum and used as control points in conjunction with the triangulation stations. The positions of the recoverable U.S. Engineers' stations in this vicinity are shown on page 3 of this report. All U.S. Engineers' stations were checked by plane table before being used as control points.

Survey Methods.

This entire survey was done by the usual plane table method, being done almost entirely by three point fixes. The few traverses run were short, and all closed well within allowable limits.

Description.

From Newport Entrance ^{westward?} eastward the coast line consists of high rocky cliffs and is very rugged. This cliff turns northward at the entrance and

See letter attached

follows along the north shore of the Bay to its northern end. The high cliffs on both sides of Newport Bay are surmounted by a mesa which on the eastern side leads back into low grass-covered hills, and on the western side is quite flat and is largely under cultivation. Dividing the Bay from the ocean on the south is a low sand peninsula on which are built the towns of Newport and Balboa.

The towns of Newport, Newport Heights, Balboa, Balboa Island and Corona Del Mar are all chartered under the name of Newport Beach. Newport Beach has a winter population of about 6,500 and a summer population of about 12,000. Costa Mesa is a small town, the center of a farming and fruit growing community.

All streets, roads, railroads, piers, docks, etc. are shown on the sheet as they actually existed at the time of the survey. More streets will undoubtedly be laid out in the near future, especially around Corona del Mar.

Newport Bay is at present a summer resort and is the headquarters of a large number of pleasure yachts and small boats of all kinds. The bay has at present practically no commercial importance, but if plans which are underway for building another jetty and dredging the entrance to 25 feet, go through, this district will undoubtedly develop into a commercial port.

The low water line around the entrance was carefully rodged in at low water. However, the entrance and bar change considerably with every storm, so that it is quite likely the entrance will be different from that shown by the time the chart is made.

The Santa Anna River has been diked off and an outlet cut through to the ocean about a mile to the westward of the limits of this sheet, so that the Santa Anna River no longer flows into Newport Bay.

LIST OF RECOVERABLE OBJECTS LOCATED BY U.S. ENGINEERS

SURVEY OF 1912.

| No. | Name. | Lat. | D.M. | Long. | D.P. | Description. |
|-----|--------------|-------|--------|--------|--------|--|
| 1 | ORIGIN | 33-36 | 1483.4 | 117 53 | 1308.8 | 4-inch vitrified pipe buried and signaled. |
| 3 | | 33-36 | 1329.6 | 117 54 | 190.7 | 6" x 8" iron-bound redwood property line pole. |
| 4 | BRIDGE | 33-36 | 1245.1 | 117.53 | 538.7 | 4" vitrified pipe buried and signalled. |
| 25 | | 33-35 | 824.3 | 117 52 | 267.2 | 6" x 8" iron-bound redwood property line post. |
| 50 | CANAL | 33-37 | 721.4 | 117 56 | 455.9 | 4" vitrified pipe and signal. |
| 51 | | 33-37 | 725.2 | 117 56 | 253.7 | 6" x 8" iron-bound redwood. property line post |
| 55 | ROCK SPUR | 33-37 | 125.9 | 117 55 | 125.9 | 4" vitrified pipe and signal. |
| 60 | FIRST BEND 2 | 33-37 | 609.5 | 117 53 | 1359.6 | 4" vitrified pipe and signal. |
| 63 | | 33 38 | 290.3 | 117 53 | 767.1 | 6" x 8" iron-bound redwood property line post. |
| 64 | NARROW | 33 38 | 583.5 | 117 53 | 611.7 | 4" vitrified pipe and signal. |
| 68 | SQUARE | 33 39 | 39.2 | 117 53 | 630.5 | 4" vitrified pipe and signal. |
| 73 | HUNT | 33 38 | 1701.0 | 117 52 | 734.4 | S.W. corner pit in dyke. |
| 75 | STAKE | 33 38 | 815.6 | 117 53 | 141.3 | 4" x 4" stake, vitrified pipe and signal. |
| 76 | ROAD | 33 37 | 1460.8 | 117 53 | 143.5 | 4" vitrified pipe and signal. |
| 77 | RANCH | 33 37 | 518.6 | 117 53 | 584.6 | 4" vitrified pipe and signal. |
| 78 | CONEY | 33 37 | 302.9 | 117 53 | 789.2 | 4" vitrified pipe and 1" x 3" pole. |
| 79 | | 33 37 | 289.1 | 117 53 | 1067.5 | 6" x 8" iron-bound redwood property line post. |
| 80 | COX | 33 37 | 79.0 | 117 53 | 1358.0 | 4" vitrified pipe and 1" x 3" pole. |

LIST OF RECOVERABLE PLANE TABLE POSITIONS.

| <u>Name</u> | <u>Lat.</u> | <u>D.M.</u> | <u>Long.</u> | <u>D.P.</u> | <u>Description.</u> |
|-------------|-------------|-------------|--------------|-------------|---|
| HIGH | 33 37 | 1728 | 117 56 | 335 | High water tank on steel tower. Height 125 ft. above surface of ground. |
| LONE ✓ | 33 37 | 284 | 117 56 | 408 | South gable of small lone house on beach. |
| BLACK ✓ | 33 37 | 61 | 117 56 | 235 | South gable of black house with two white windows in front. |
| COT ✓ | 33 37 | 580 | 117 55 | 1155 | High brick chimney on power plant. |
| HOW | 33 37 | 660 | 117 55 | 628 | Center of large white house. |
| STACK | 33 37 | 310 | 117 55 | 00 | Tall black stack. |
| POLE ✓ | 33 36 | 1356 | 117 55 | 1356 | Flagpole on south gable of high green house. |
| SCHOOL ✓ | 33 36 | 680 | 117 55 | 123 | Flagpole on cupola of red brick school. |
| CHIM ✓ | 33 36 | 507 | 117 54 | 1104 | Red brick chimney on south end of brown house. |
| GREEN ✓ | 33 36 | 400 | 117 54 | 587 | South gable of green house. |
| TOWER | 33 36 | 953 | 117 53 | 877 | Tower on top of house shaped like light-house. |
| WAT | 33 36 | 699 | 117 53 | 1269 | Red water tank on Balboa Island. |
| BAL | 33 36 | 516 | 117 53 | 406 | Tower on red house. |
| BLUE | 33 36 | 29 | 117 53 | 1111 | South gable of small blue house. |
| CENT ✓ | 33 35 | 1628 | 117 53 | 696 | Center of south side of large grey stucco house. |
| PINK | 33 35 | 1811 | 117 53 | 537 | Yellow aerial pole on top of pink house. |
| DUTCH | 33 35 | 1570 | 117 53 | 216 | Real estate office shaped like Dutch wind-mill. |
| SAM | 33 37 | 644 | 117 53 | 275 | Wooden water tank on tower near farmhouse. |
| HILL | 33 37 | 80 | 117 53 | 1356 | Large electric light pole on small hill. |
| TALL | 33 36 | 1555 | 117 53 | 491 | Telephone pole. |
| FLAG | 33 38 | 1191 | 117 53 | 742 | White flag. |
| BUSH | 33 39 | 296 | 117 53 | 297 | Small bushy tree on side of hill. |
| BIG | 33 38 | 517 | 117 53 | 83 | Northernmost of two large trees. |
| TREE | 33 38 | 397 | 117 53 | 140 | Southernmost of two large trees. |
| TANK | 33 36 | 691 | 117 52 | 1507 | Red tank on tower, height 50 ft. above surface of ground. |

LIST OF RECOVERABLE PLANE TABLE POSITIONS (cont'd)

| <u>Name</u> | <u>Lat.</u> | <u>D.M.</u> | <u>Long.</u> | <u>D.P.</u> | <u>Description.</u> |
|-------------|-------------|-------------|--------------|-------------|---|
| WEST | 33 36 | 428 | 117 52 | 1496 | West end of small grey concrete building, at side of road. |
| TOW | 33 36 | 222 | 117 52 | 1163 | Steel tower of U.S. Weather Bureau. |
| YEL | 33 36 | 80 | 117 52 | 1092 | Center of tower on yellow house. |
| SLIM ✓ | 33 35 | 1295 | 117 52 | 1031 | South flagpole on pavilion. |
| BRICK ✓ | 33 35 | 1229 | 117 52 | 605 | Brick chimney on prominent white house. |

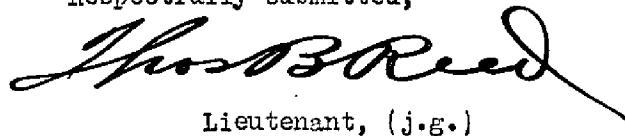
LIST OF PROMINENT OBJECTS TO BE SHOWN ON CHART.

| | <u>Name.</u> | <u>Lat.</u> | <u>D. M.</u> | <u>Long.</u> | <u>D. P.</u> | <u>Description.</u> |
|---|--------------|-------------|--------------|--------------|--------------|---|
| ● | HIGH | 33 37 | 1728 | 117 56 | 335 | High black water tank on steel tower. Height 125 feet above surface of ground. |
| ○ | HOW | 33 37 | 660 | 117 55 | 628 | Center of prominent white house on bluff. |
| ○ | STACK | 33 37 | 310 | 117 55 | 00. | Black stack, height 40 ft. above surface of ground. |
| ○ | WAT | 33 36 | 699 | 117 53 | 1269 | Red water tank on tower, height 50 ft. above surface of ground. |
| ○ | TANK | 33 36 | 691 | 117 52 | 1507 | Red water tank on tower, height 50 ft. above surface of ground. |
| ○ | TOW | 33 36 | 222 | 117 52 | 1163 | Steel tower of U.S. Weather Bureau. |
| ○ | BRICK | 33 35 | 1229 | 117 52 | 605 | Brick chimney on prominent white house. |
| △ | CUP | 33 36 | 322.3 | 117 53 | 1389.1 | Cupola on Balboa pavilion. |

POSITIONS OF LIGHTS AND BEACONS.

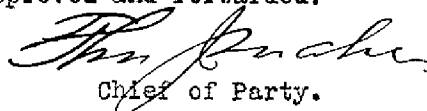
| <u>Name.</u> | <u>Lat.</u> | <u>D. M.</u> | <u>Long.</u> | <u>D. P.</u> | <u>Description.</u> |
|---------------------------------|-------------|--------------|--------------|--------------|--|
| LIGHT ON OUTER END OF JETTY. | 33 35 | 762 | 117 52 | 1205 | Lighted. Fl. W. - 6. |
| INNER LIGHT ON JETTY | 33 35 | 1197 | 117 52 | 1317 | Leaning over and not lighted at present due to undermining of jetty. |
| OUTER RANGE LIGHT | 33 35 | 1525 | 117 52 | 1073 | Fixed white light, with shade showing on black tri- angle. |
| INNER RANGE LIGHT | 33 35 | 1570 | 117 52 | 1039 | Fixed white light with shade showing on white triangle. |
| RED LIGHT | 33 35 | 1568 | 117 52 | 1129 | Fixed red. |
| BEACON NO. 4 | 33 36 | 12 | 117 52 | 1466 | One pile beacon with number. Not lighted. |
| MID BEACON | 33 36 | 90 | 117 53 | 368 | One pile red-and-black beacon. Not lighted. |
| BEACON NO. 6 | 33 36 | 176 | 117 53 | 406 | One pile beacon with number. Not lighted. |
| BEACON NO. 1 | 33 36 | 408 | 117 53 | 1281 | One pile beacon with number. Not lighted. |
| MID BEACON | 33 36 | 934 | 117 54 | 361 | One pile red-and-black beacon. Not lighted. |
| BEACON NO. 1 | 33 36 | 773 | 117 54 | 530 | One pile beacon with number. Not lighted. |
| BEACON NO. 2 | 33 36 | 692 | 117 54 | 707 | One pile beacon with number. Not lighted. |
| RED BEACON | 33 36 | 723 | 117 54 | 890 | One pile with barrel on top, painted red. |
| BEACON NO. 3 | 33 36 | 1292 | 117 54 | 759 | One pile beacon with number. Not lighted. |
| BEACON NO. 5 | 33 36 | 1606 | 117 54 | 1325 | One pile beacon with number. Not lighted. |

Respectfully submitted,



Lieutenant, (j.g.)

Approved and forwarded:



Chief of Party.

POST-OFFICE ADDRESS: U. S. C. & G. S. S. OCEANOGRAPHER,
Norfolk, Virginia.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

1930 MAY - 16 - AM 11:15
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

May 15, 1930.

To: The Director,
U. S. Coast and Geodetic Survey.

From: Thos. B. Reed, Lieut. (j.g.)
U. S. Coast and Geodetic Survey.

Subject: Topographic Sheet No. 4186.

Reference: Director's letter of May 7, 1930, No. 3-VEC.

You are respectfully advised as follows regarding the interpretation of notes and symbols on Topographic Sheet No. 4186 between Arch Rock and the Entrance to Newport Harbor, California:

The shore line consists of rocky cliffs with a large number of detached boulders of various sizes on the beach between the high and low water line, with a few bare at low tide just outside the low water line. The three notes would better show conditions if they were changed to "Rocks bare at various stages of the tide".

See Review
T-5030
was

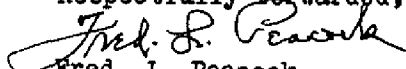
I am unable to state definitely as to conditions around Arch Point, but as I recall it, the large rock or islet off triangulation station Arch Rock is connected to the shore at low water except for small channels five or six feet across between the boulders.

The elevation of the point at triangulation station Arch Rock is shown as 45 feet on the photostat instead of 24 feet as stated in your letter. This, as well as all other elevations on this sheet, was determined by the usual plane table methods.



Lieut. (j.g.) C. & G. Survey.

Respectfully forwarded,


Fred. L. Peacock,
Comndg. Str. OCEANOGRAPHER.

T- 4186

3-V.C

May 7, 1930.

To: Lieut. (J.G.) T. B. Reed,
U. S. Coast and Geodetic Survey,
Norfolk, Virginia.

Through: Commanding Officer,
U. S. Coast and Geodetic Survey,
Ship OCEANOGRAPHER, Portsmouth,
Norfolk, Virginia.

From: The Director, U. S. Coast and Geodetic Survey.

Subject: Topographic Sheet No. 4186.

On the inclosed copy of a section of Topographic Sheet No. 4186 surveyed by you in 1926 there is an inconsistency between symbols and notes applying to the rocks or islets lying between Arch Rock and the entrance to Newport Harbor, California. The symbols indicate islets or rocks not covered at high water while the note states "Awash at low tide."

In connection with some litigation the question has arisen whether the islet off Arch Rock is detached at low water, and the interpretation of these symbols has an important bearing on this question.

Please submit a statement regarding the interpretation which should be put on these symbols and notes. If you have any recollection regarding conditions around Arch Point a statement would be useful.

The elevation of the point on which the station Arch Rock is located is given as 24 feet. It is presumed that this elevation was determined by the usual plane table method, but if any more accurate method was used, please describe the method.

(Signed) R. S. Patton

Inclosure.

Director.



Photographed from Topographic Sheet No. 4186 in the archives of the U.S. Coast and Geodetic Survey. Surveyed in 1926. Scale, 1:10,000. Washington, D. C., May 5, 1930.