

4558

4558

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>California</u>
11-5613
DESCRIPTIVE REPORT. B
Sheet No. <u>4558</u>
LOCALITY: <u>San Clemente I.</u> <u>Pyramid Cove</u>
<u>1926</u>
CHIEF OF PARTY: <u>T. J. Maher</u>

U. S. COAST AND GEODETIC SURVEY

Col. E. Lester Jones, Director

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC LAUNCH SHEET "B"

PYRAMID COVE, SAN CLEMENTE ISLAND, CALIFORNIA

Surveyed, April 14-15, 1926

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

Thos. J. Maher, Commanding
Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC LAUNCH SHEET "B"

PYRAMID COVE, SAN CLEMENTE ISLAND, CALIFORNIA

Limits:

The sheet is on a scale of 1:10,000, and is the hydrography of Pyramid Cove, on the southeastern end of San Clemente Island, off the coast of California, in latitude 32° 49' and longitude 118 23', out to about 25 fathoms.

Description:

The topographic symbolization of the shore is easily interpreted from the topographic sheets.

Dangers:

The main purpose of this launch survey was to determine whether the two isolated rocks, symbolized on charts Nos. 5126 and 5102, in Pyramid Cove, existed.

The first rock, 470 meters ~~E~~^W by S from station "Ten", was easily found, because of sea slightly breaking there. Two soundings were taken at the shoalest spots, and rock found to stick up two feet above M.L.L.W.

The second rock, supposed to be about 600 meters south of station "Sig", was not found after detailed search. There was no indication of water breaking, or even heaving up, in the vicinity; there was no discolored water, and no indication of shoaling was revealed by the soundings. Bottom was visible in about three fathoms.

The Ship "GUIDE" was anchored 1000 meters to the south-east of the supposed spot for two days, but from there no breaking water was seen at any time.

It is believed that there is no rock here.

A sounding of 26 ft. was obtained 660 meters to south of station "Oat".

Areas indicated on the sheet as breaking, do so at all stages of the tide and in calm seas.

Methods:

Standard Coast Survey method of fixed position launch hydrography was used. Sounding is by hand lead, and all soundings are "up and down", the speed of the launch being regulated, and launch brought to stop for the deeper soundings, to make every sounding reliable.

Control:

Discrepancies between some of the points located by plane table in 1925 were discovered. Hence a topographic party was sent ashore to re-run the distance from triangulation station "Seal" to station "Ten". The positions of the points as determined by this second topographic work were used in plotting the smooth sheet.

TABLE OF STATISTICS

HYDROGRAPHIC SHEET "B" - MOTORSAILER

Date 1926	Day	Volume No.	Miles	Soundings	Positions
April 14	a	1	14.0	263	126
April 15	b	1	17.7	326	162
TOTALS:	-	1	31.7	589	288

Respectfully submitted,

E. H. Bernstein
 E. H. Bernstein,
 H. & G. Engineer.

August 21, 1926.

Approved and forwarded:

Thos. J. Maher
 Thos. J. Maher
 H.&.G.E., Chief of Party,
 Commanding Ship "GUIDE".

11

September 20, 1926.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4558

Locality: CALIFORNIA COAST

Chief of Party: E. J. Maher in 1926.

Plane of reference is

4.0 ft. on tide staff at Long Beach.

3.8 " ----- do ----- La Jolla.

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

E. J. Maher

Chief, Division of Tides and Currents.

Section of Field Records.

Report on Hyd. Sheet No. 4558

Surveyed on April 14-15, - 1926.

Chief of Party - Thomas J. Maher.

Surveyed by - E. H. Bernstein.

Protracted by - C. A. Burnister.

Soundings plotted by - C. A. B.

Verified and Inked by - D. R. Rounds.

1. The records conform to the requirements of the General Instructions, except that very few bottom characteristics are given.

2. The plan and character of the development fulfil the requirements of the general instructions. At position 83 b is a note, "80 meters ahead, rock, 4 meters above high water". The position of this rock should have been more definitely located.

3. Depth curves, up to the thirty foot curve cannot be completely drawn; beyond this curve they are complete.

17
4. The field plotting was completed to the extent prescribed in the general instructions.

5. The field drafting was complete, of good quality, neat, and legible.

Respectfully submitted,

D. R. Rounds.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

November 15, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4558

Pyramid Cove, San Clemente Island, Calif.

Surveyed in 1926

Instructions not available

Chief of Party, T. J. Maher.

Surveyed by E. H. Bernstein.

Protracted and soundings plotted by C. A. Burmister.

1. The sounding records fail to conform to the requirements of the General Instructions in that there is only one bottom characteristic noted in the 56 pages of soundings. The launch was frequently stopped for deep soundings, but in no instance is there a record of the time of stopping and starting. There are many stop soundings between the fixes and the lack of data regarding the time of stopping and starting makes the location of the intermediate soundings uncertain.
2. The plan and character of the survey conform in general to the requirements of the General Instructions. There are several shoal soundings -- Notably 33 and 26 south of signal Oat and 13 and 30 west of signal Quis should have been developed.
3. As stated in the descriptive report the primary object of this survey was the investigation of the charted rock 700 meters south of signal Sig and the charted rock 300 meters W S W of signal Ten. In the opinion of the Chiefs of Field Records and Field Work the development on the first rock is not sufficient to disprove its existence and there is no development on the latter rock. See letter 466 of 1924, files of Division of Charts, relative to the rock south of signal Sig.
4. The bottom of the area covered by this survey, the usual test for accuracy by comparing crossi. lines cannot be made.
5. The information is sufficient for drawing the depth curves except close inshore.

6. The usual field plotting was done by the field party.
7. There is no recent hydrography overlapping this survey with which a comparison can be made. The surveys of 1856 (H. 543) and 1879 (H. 1429) agree in showing shoal water off the point on which signal Joe is located, whereas the new survey shows about four times as much water. This area should be resurveyed.
8. In addition to the area noted in the preceding paragraph, additional development (preferably wire dragging) is needed on the two rocks noted in paragraph 3, and also on the 33 and 26 foot soundings south of signal Ost. A more accurate and complete representation of the inshore rocks would have added much to the value of this survey.
9. The excessive leadline correction (amounting to nearly 6 feet) indicates that the old type of leadline was used. As the new type with phosphor bronze core is easily obtainable it should always be used.
10. The character and scope of the surveying are fair and the field drafting is good.
11. Reviewed by E. P. Ellis, November, 1926.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4558

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. B

REGISTER NO. **4558**

State California

General locality San Clemente Island

Locality Pyramid Cove

Scale 1:10,000 Date of survey April 14-15, 1926

Vessel Motorsailer

Chief of Party Thos. J. Maher

Surveyed by E. H. Bernstein

Protracted by C. A. Burmister

Soundings penciled by C. A. Burmister

Soundings in ~~fathoms~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated January 19, 1926

Remarks:

