# 4186

Diag. Cht. No. 5702-1

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U.	S. COAST AND GEODE	IIC SURVEY
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Off	Trundag	Head
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	CHIEF OF PA	RTY:

E. H. Pagenhast

To Accompany Hydrographic Sheet #3, 1/40,000 of Trinidad Head.

USS LYDONIA, Sept.& Oct., 1921.

Most of the work on this sheet was tube soundings with sufficient up and down casts for charting purposes.

On the boat sheet all up and down casts are shown in black ink while tube soundings are in red.

EHP-C

E.H. Pagenhart, Chief of Party.

#### SECTION AND SECTION

U.S.S. Lydonia ·

SEEL TO. 3

(Boat Steets 3+5)

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Sept 22,1921	А	1	1/.5	/03	2/	42	
. 23	B	1	39.0	360	95	199	•
24, "	C	/	14.5	192 ~	49	110	n.
" 28, "	D	$J_{i}$	41.5	292	66	130	· <u>-</u>
" 30 <sub>1</sub> "	E	2	34.0	269	55	121	•
Sept. Totals		·	150.5	1216	28 6	602	30.0
Oct. 1, 1921	F	2	21.5	142	30	79	
L 10, "	G	2	8.0	93	15	30	
Oct. Totals			29.5	235	45	109	9.0
Total			180	1451	331		139 ag m
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January 11, 1922.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET 4186

Locality: Off Trinidad Head, California

Chief of Party: E. H. Pagenhart in 1921

Plane of reference is mean lower low water, reading

- \*4.0 ft. on tide staff at North Jetty Landing, Humboldt Bay
- \* Allowance made for difference in time at place of soundings.

Condition of records: Satisfactory.

(Signed) G. T. Rude

Chief, Division of Tides and Currents.

### Hyd. Sheet No. 4186

on this sheet, most of the soundings, which were taken at positions are vertical casts with the ship held over the position, while intermediate ones are tube soundings. The records of the work are not carefully kept. The time at which the ship was stopped, for the up and down cast, is generally but not allways recorded while the time for the "head" is only recorded in a very few cases.

R. L. Johnston

AND REFER TO NO.

4-NEM

## DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY WASHINGTON

#### SECTION OF FIELD RECORDS.

REPORT ON HYDROGRAPHIC SHEET No. 4186.

#### Surveyed in 1921.

Chief of Party: E. H. Pagenhart. Protracted & soundings plotted by W. T. Carter.
Surveyed by party of Str. LYDONIA. Inked by R. L. Johnston.

- The records do not conform to the General Instructions in the following respects:
  - a. Instead of noting whether starboard or port sounding machine was used the record should have stated whether the tube used was Tanner-Blish or Bassnet if the latter the number of the tube should also have been given. A comparison of the tube readings with the up and down casts would have afforded a basis for rating the tube soundings. As it is the record is useless for that purpose.
  - b. No entries were made in the column "Wire RJun Out". The information that might have been obtained from this column would have assisted materially in evaluating doubtful tube soundings. Several soundings of 12 to 18 fatnoms less than surrounding depths (in 50 to 65 fatnoms) were rejected in the office although the fact that they were erroneous should have been noted by the field party. Had the information called for in this and the preceding paragraphs been given it would have been possible to reject other soundings which appear to be erroneous.
  - c. The time when the ship stopped for vertical casts was not always stated, and only in a few instances was the time noted when the ship went ahead and was on course. Without this information it was not possible to space the soundings accurately on the line.
  - d. The deviation table given in the sounding volumes is for the standard compass, whereas the steering compass was used. The deviation table therefore is useless.
- 2. The plan and character of development fulfill the requirements of the General Instructions except that no bottom characteristics were obtained.
- The plan and extent of development satisfy the specific instructions.
- 4. The sounding line crossings are, in general, adequate.
- 5. The development is sufficient to permit drawing the usual depth

curves. The 50 fathom curve has some eccentricities caused by poor tube soundings.

- The field plotting was completed to the extent prescribed in General Instructions and the office draftsman did not have to do any of it over.
- 7. The junctions with adjacent hydrography by the same party are excellent. Those with the surveys of 1872 and 1875 are also good. At the lower part of 4186 a comparison with the old work indicates a probable deepening of 2 fathoms. The overlap is not sufficient however, to warrant a definite conclusion on this point.
- 8. No further surveying is required within the limits of this survey.
- 9. The character and scope of the surveying are fair and the field drafting is good.
- 10. Reviewed by E. P. Ellis, April, 1922.

January 11, 1922.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET 4186

Locality: Off Trinidad Head, California

Chief of Party: H. H. Pagenhart in 1921

Plane of reference is mean lower low water, reading

- \* 4.0 ft. on tide staff at North Jetty Landing, Humboldt Bay
- \* Allowance made for difference in time at place of soundings.

  Condition of records: Satisfactory.

Chief, Division of Tides and Currents.

#### COPY TO FIELD RECORDS.

January 11, 1922.

July .

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4186

Locality: Off Trinidad Head, California

Chief of Party: E. H. Pagembart in 1921

Plane of reference is mean lower law water, reading

- 4.0 ft. on tide staff at Worth Jetty Landing, Humboldt Bay
- \* Allowance made for difference in time at place of soundings.

  Condition of records: Satisfactory.

Chief, Division of Tides and Currents.

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

#### HYDROGRAPHIC TITLE SHEET

The finished Hydrographic 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. 4186 State California General locality . Northern Coast, Mumbolat Goun Locality . Off Trinidad Head, around 50 fathom Curve Date of survey . . September 22 - October 10, 1921. . Plane of reference M.L.L.W. Protracted by .W.T.C. . Soundings in pencil by W.T.C. . Inked by , . . . . . . . Verified by . . . . . . . . . . Records accompanying sheet (check those forwarded): Des. report, \_\_\_\_ Boat sheets, 2. Sounding books, ..... Wire-drag books, ..... Photographs. Remarks: Book shur netained on board for continuation of rook to gentle