

4556

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Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Washington</u>
11-5613
DESCRIPTIVE REPORT.
<u>U. S. Coast and Geodetic Survey</u> Sheet No. <u>4556</u>
LOCALITY:
<u>Puget Sound</u>
<u>Edwards Pt. to Welts Pt.</u>
<u>1926</u>
CHIEF OF PARTY:
<u>H.A. Cotton</u>

W W A
September 17, 1926.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

1 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4556

Locality: PUGET SOUND.

Chief of Party: H. A. Cotton in 1926.

Plane of reference is M L L W
7.5 ft. on tide staff at Seattle.

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.

G. Rude

Chief, Division of Tides and Currents.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC ~~Registered~~ Hyd.

and

TOPOGRAPHIC

SHEET

EDWARDS POINT

to

WELLS POINT

PUGET SOUND, WASHINGTON

July, August - - 1926

Scale : 1 : 10,000

AUTHORITY -

Instructions of Inspector, Seattle Field Station.

The work on this sheet is a revision of hydrography and topography between Edwards Point and Wells Point on the eastern shore of Puget Sound.

The smooth sheet was taken into the field and used as a planstable sheet for the location of wharves and of signals for hydrography. A traverse was run between Triangulation Station Richmond and Triangulation Station Edwards, with a check on the siren tower on the Standard Oil Company's dock. The error of closure was 12 meters.

The three wharves of the Standard Oil Co., Shell Co., and Union Oil Co. were located and shown on the sheet. The Standard Oil Company's dock has been enlarged, and the Shell Company's dock is new. Two small wharves now shown on the chart in the neighborhood of the new Shell Company dock have been removed. The only shoreline located is at Point Wells where the Oil Companies have constructed a sea wall. The remaining shoreline shows no sign of having changed.

A comparison between the chart and the hydrographic sheet shows the shoal between Edwards Point and Wells Point to have made out considerably. The three fathom curve is 50 to 150 meters farther offshore and the low water line about 150 meters farther offshore. In the position of the three fathom sounding shown on the chart, 700 meters south of the Union Oil Company's dock, 3 feet was obtained. The $6\frac{1}{2}$ fathom sounding was verified, but the water shoals very rapidly inside this sounding. No sign of kelp was seen in this area.

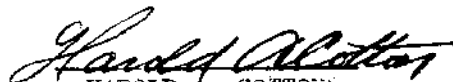
This shoal is very troublesome for ships approaching the Standard or Shell docks from the north, and a number have grounded here.

Ships approaching the Standard Oil Company's dock from the north should keep the siren tower on the dock on a bearing of not greater than 160° (True) until within $\frac{1}{4}$ mile of the dock.

A tracing showing an enlargement of the chart is enclosed with the sheet for purpose of comparison.

Examined, approved and forwarded,

Respectfully submitted,



HAROLD A. COTTON,
Hyd. & Geo. Engineer,
C. & G. Survey,
Commanding U. S. NAVY



M. O. WITHERBEE
Hyd. & Geo. Engineer,
C. & G. Survey.

PLANE TABLE POSITIONS

Object	Latitude & Longitude	Seconds in Meters	Remarks
<u>ED.</u> , siren on Union Oil Co's dock	47 48 122 23	487 1049	On roof of wharf house.
<u>BOX.</u> , fire hose box, Union Oil dock	47 48 122 23	566 763	
<u>PILE.</u>	47 47 122 23	1313 638	Lone pile, 100 meters, east of group of 4 dolphins
<u>STACK.</u> , Shell Co.	47 47 122 23	134 680	
<u>GAB.</u> , North gable of yellow house	47 47 122 23	53 515	
<u>FOAM.</u> , foamite tank, Standard Oil Co.	47 46 122 23	1755 698	North gable.
<u>MILL.</u> , sawmill stack	47 46 122 23	1481 883	

Section of Field Records.

Report on Hyd. Sheet No. 4556.

Surveyed in July and Aug. - 1926.

Chief of Party - Harold A. Cotton.

Surveyed by - M. O. Hetherbee.

Protracted by - T. Renton.

Soundings plotted by - M. O. Hetherbee.

Verified and Inked by - D. R. Rounds.

1. The records conform to the requirements of the general instructions.
2. The plan and character of the development fulfil the requirements of the general instructions. No cross lines were run, however.
3. The usual depth curves can be completely drawn. The irregularity in the curves, to the south of signal "Pile", causes the position "4a" to be questioned.
4. The field plotting was completed to the extent prescribed in the general instructions.
5. The field drafting was complete and legible.

Respectfully submitted,
D. R. Rounds.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON October 30, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4556

Edwards Pt. to Wells Pt., Puget Sound

Surveyed in 1926

Instructions by Inspector at Seattle

Chief of Party, H. A. Cotton.

Surveyed by M. O. Witherbee.

Protracted by T. Renton.

Soundings plotted by M. O. Witherbee.

1. The records as well as the plan and character of development conform to the requirements of the General Instructions.
2. The specific instructions are not available.
3. The sounding line crossings and comparisons of adjacent lines are generally adequate. There are two or three instances of differences in excess of allowable errors, due probably to position angles being in error. In no case does the probable error vitiate the survey, nor introduce cartographic complications.
4. The information is sufficient for drawing the usual depth curves.
5. The usual field plotting was done by the field party.
6. There are no modern surveys adjoining this one.
7. No further surveying is needed in the area covered by this survey.
8. Attention is called to the fact that the topography shown on this sheet was surveyed in connection with this hydrographic survey and should be applied to the charts.
9. The character and scope of the surveying are good and the field drafting is excellent.
10. Reviewed by E. P. Ellis, October, 1926.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC AND
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.

4556

U. S. Coast and Geodetic Survey.

Register No. Hyd. 4556

State Washington

General locality Puget Sound

Locality Edwards Point to Wells Point

Chief of party Harold A. Cotton

Surveyed by M. O. Witherbee

Date of survey July-August, 1926

Scale 1:10000

Soundings in feet

Plane of reference mean lower low water

Protracted by T. Renton. Soundings in pencil by M. O. W.

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, Tide books, * Marigrams, Boat sheets,

Sounding books, Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks: Smooth sheet used as plane table sheet for location of signals and new wharves.

* Tides from marigrams of Seattle Tide Station.