

368 A

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5013

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3681^a*

LOCALITY:

Seldovia, Alaska.

Sept. 16-18, 1918.

1918

CHIEF OF PARTY:

Eoline R. Hand.

3681^a

W.
m

DESCRIPTIVE REPORT

3681^a

To accompany combined topographic and hydrographic sheet (A 1) at Seldovia, Alaska.
Surveyed September 16 - 18, 1918.
Eoline R. Hund, U.S. G.S. Chief of Party.

This combined sheet is in response to a wire from the Inspector at Seattle, dated August 8, requesting examination (authorized by the Superintendent) for a rock off the Anderson wharf at Seldovia.

I had no data for this survey, excepting the predicted tidal curve; and since I had no tidal B.M. for the control of a staff, the soundings are reduced by means of that predicted curve. The values for the days concerned, taken off this curve, will be found on a list pinned to page 4 of the sounding record.

I first made a plane-table survey on a scale of 1:5000 by which I located signals for the hydrography, and executed a revision of the waterfront. The survey is tied to the Light on east side of harbor entrance, and to the Greek Church in the town (both being shown on chart), and to a number of old whitewash marks that indicate topographic stations located by former parties. I did not have the positions of these objects but simply incorporated them into my survey. The light and the church, and the stations on my sheet marked "O" or "old" (names unknown) will presumably be found on field sheets of Seldovia now in the Archives.

The wharf where the soundings are taken is the property of R.P. Anderson and a partner. He is U.S. Commissioner there, I believe. He is also the agent for the Pacific Steamship Company, the vessels of which company use his wharf. The survey was primarily for the purpose of locating a submerged rock reported in the vicinity of this wharf. It was said to be off the point which makes out S.E. of the wharf, and so I went carefully over this area by a close system of practically parallel lines kept about 20 or 25 metres apart by means of shore ranges. I found the rock much nearer the wharf than I supposed it was; then I determined the least depth by narrowing my distance (by the shore ranges) to ten or fifteen feet, carefully feeling along the lines with the lead. I had a small drag prepared for this work but could not use it on account of the kelp, however the sounding was so closely and systematically done over the rock that it is certain the least depth was ascertained.

Nine (9) feet was the least depth found over this danger: this value after reduction for tide by the predicted values. It lies south of the dock, distant 55 metres (180ft.) from the S.E. corner, and is just a trifle east of a line determined by the prolongation south of the east edge of the wharf. It is well marked by kelp.

On page 3 and 4 will be seen (sounding record) a scheme showing the soundings off this wharf, located relative to it.

No List of Positions accompanies this sheet as there is no control furnished.



Hyd. & Geod. Eng'r.

DESCRIPTIVE REPORT

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Surveyed September 16 - 18, 1918.

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Hyd. & Geod. Eng'r.

ADDRESS THE SUPERINTENDENT
U. S. COAST AND GEODETIC SURVEY

CHARTS (H) ✓

AND REFER TO NO. 5-EMK

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

Place with descriptive report
Hydrographic sheet No. 3681^a

March 25, 1919.

Drawing Section. ✓

Division of Hydrography and Topography: ✓ HCG


Division of Charts:

Tidal reductions are approved in
1 volume of sounding record for

HYDROGRAPHIC SHEET 3681a

Seldovia Harbor, Kachemak Bay, Alaska.
Eoline R. Hand in 1918.

Plane of reference is mean lower low water.
Predicted tides used for reduction.


Chief, Section of Tides
and Currents.

Hydrographic Sheet No. 3681^a

Seldovia: Hachemak Bay; Cook Inlet; Alaska.

As this work was authorized and carried into effect to locate a rock off "Anderson's Wharf" it is in this particular satisfactory; The rock is located and has the least depth of 9 ft over.

The balance of the work may be good and satisfactory for that portion not covered by previous Survey Sheet 3681 but in comparing the overlap of these two sheets discrepancies are shown which it does not appear possible to reconcile. This may be due to the fact that neither of these sheets have a projection and no data can be found to reconcile the signals on the two sheets therefore the question of accurate orientation is doubtful. It is believed however that Signal "Church" on Sheet 3681^a is the "Fish Church" on 3681 and that signals "Fin" and "Fir" on 3681 are the two designated (old) on the a. sheet yet in orienting on these 3 signals does not give satisfactory ~~satisfactory~~ results. as in one case 34 ft. and 32 ft. come together, in another 34 ft + 46 ft. are close together and in another 35 ft + 32 ft. conflict also many others.

The work of the field party in protracting and plotting is not good and many errors were found. The protracting has been carefully verified and much had to be reprotracted.

Hydrograph Sheet 3681^A

(2)

The position numbers are too large and not well placed nor
are the positions well defined. The sounding figures were not
plotted on North and South but on lines of soundings.

J. D. Torrey.

July 22, 1919.

Review of hyd. sheet No. 3681^a

Seldovia Harbor, Alaska

E.R.Hand, Chief of Party

Surveyed by E.R.Hand in 1918

The purpose of this survey was the location of the rock off Anderson's wharf. This was satisfactorily done and the sheet is recommended for approval.

The other details of the work, however, are subject to the following criticisms:

Although a small survey, numerous errors were found in both the protracting and plotting.

The position numbers and figures were too large.

The sounding records were not kept ⁱⁿ accordance with the usual practice and the General Instructions. They resemble private memoranda more than official records. The figures were so carelessly written as to be almost illegible in some cases. See paragraphs 558 and 559 of General Instructions.

August 6, 1919.

E. R. H.