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Creasury Department.

U. S. COAST AND GEODETIC SURVEY.

O. H Tithmann

State: Alaska

DESCRIPTIVE REPORT.

Hyd C Sheet No. 2664

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DESCRIPTIVE REPORT.

HYDROGRAPHY

of

ENTRANCE to DAVIDSON INLET,

PRINCE of WALES ISLAND,

SOUTH EASTERN ALASKA.

Scale 20,000.

Steamer "Gedney",
E.F.Dickins, Assistant C.& G.Survey
Commanding.

September 24th to 30th 1903.

Descriptive Report, Hydrography, (1)

The area covered by this sheet includes Warren Channel, Iphigenia Bay and the Entrance to Davidson Inlet. The survey is not complete but is more in the nature of a reconnaissance, the sounding lines being run far apart so as to give only a general idea of the character of the bottom and the dangers were not thoroughly developed, Our season was so short that we had not time to make a detailed survey and our main object was to locate the position of the Salmon Saltery at Holbrook and obtain what data we could that would enable us to get out blue prints to serve as a guide to vessels desiring to reach that place.

The general character of the bottom is very irregular and rocky, the water is generally deep but shoals abruptly in many places from 100 to 30 or 40 fathoms.

The soundings were generally taken about a quarter of a mile apart in water which did not exceed 30 or 40 fathoms, but in greater greater dpths they were taken with less frequency, a position was generally determined with each sounding, Where the water was noticed to shoal the lines were run closer together and the soundings taken much oftener but we had no time to make a thorough investigation.

The Plane of Reference used in the reduction of soundings is the mean of 18 Lower Low Waters as obtained from actual observations on a tide staff at Port Alice.

The tidal currents seemed very slight and were scarcely noticable except in Warren Channel where it runs from about 2 to 3 knots per hour as a maximum rate.

The main entrance to Davidson Inlet is about 2 miles in width and is apparently free from dangers, except Whale Rock, which bares about half tide and lies about half a mile South, by compass, from

Whale Head and a reef lying about half a mile S.E.1/2 E.magnetic, from Whale Head and on which there is a heavy break even with a moderate swell, the least water we found on this reef was 3-1/2 fathoms but I do not consider it thoroughly developed. By keeping in mid channel all dangers will be avoided.

Port Alice, on the South side of Davidson Inlet, about a mile inside the entrance, is an arm or bay about 2 miles long, by about a mile wide at its mouth and about a quarter of a mile in width at its head. About a half mile inside the entrance, near the center of the arm, there are two reefs or ledges which bare at low water and along the Northeast shore the ground seem rocky and foul and should be avoided. In entering this arm give Surf Point a berth of about half a mile and when within the arm favor the South shore to within about half a mile of its head where a good anchorage will be found in from 10 to 15 fathoms, soft bottom, This anchorage is safe in any weather, the reefs at the entrance prevent any swell from entering, the holding ground is good and the surrounding hills give protection from all winds. Several small streams enter near the head of this arm enabling vessels to obtain fresh water without much difficulty.

Cone Bay, on the South side of Iphigenia Bay, has not been carefully examined but appears to be rocky. It is open to the Westward and on account of the heavy swell which is generally rolling in would make a very poor anchorage in any weather.

Gull Island, also on the South side of Iphigenia Bay and about four miles South of Cone Bay, is a bare rocky islet and shows white on account of the bird lime which covers it, About 1-1/4 miles to the North and Northwest of Gull Island there is quite an extensive reef which has not been developed as yet.

The Northern side of the Entrance to Davidson Inlet is formed by a chain of small islands through which there are two passes, available for small boats only, these passages have not been examined as yet, but appear rocky and foul and the sea seems to break all accross their entrance with a heavy swell. The largest and most Southerly of these islands is about 490 feet in elevation and on its South side is very precipitious, with cliffs rising from the waters edge to a height of from 50 to 300 feet, these cliffs make this point very easily distinguished and a good land-mark for entering the Inlet.

Off the islands on the North and East side of Iphigenia Bay there are numerous outlying sunken rocks and reefs which have not been investigated as yet.

The shore line is very rough and rocky with ledges running out some distance beyond the high water mark and in most places there is considerable kelp growing close in along shore.

Halibut Harbor, on the South side of Koscuisco Island, is a very good anchorage for small vessels and is well protected in Northerly weather, It is frequently used by the halibut fishing schooners, but owing to the numerous rocks and reefs outside its entrance I do not recommend it until it can be thoroughly examined.

Warren Cove, on the East side of Warren Island, is a semicircular cove about three fourths of a mile in extent and is an excellent summer anchorage, in about 6 fathoms of water with good holding ground, the entrance is free of all dangers, by keeping in mid-channel but the cove is open to the Southward and Eastward and quite a heavy swell rolls in during Southerly weather, We were obliged to clear out in a hurry during a South-Easter and seek shelter in Port Alice.

The country round the Inlet is heavily timbered with cedar, fir and spruce with a dense under-brush. Some fine marble has been discovered on the shores and islands of the Inlet but none of the quarries have been developed as yet.

There are no inhabitants in the vicinity except at Holbrook, which is situated at the head of the North-west arm of the Inlet about 14 miles from the entrance and where there is a salmon saltery, a small saw-mill and a few houses for the employees.

Steamers enter the Inlet occasionally during the summer months to bring supplies to and take away the salted salmon from Holbrook, other-wise there is no commerce at present.

To enter Davidson Inlet from Sumner Strait keep a mid-channel course through Warren Channel, into Iphigenia Bay, until Black Rock is abeam, about a mile distant on the port hand, then steer for Cone Peak, or E. by S. 1/2 S, magnetic, until the S.E. tangent of Whale Head bears N.1/2 W. magnetic, then change course and keep in mid-channel through the Entrance and if bound for Holbrook head for Nipple Peak or N.1/2 E. magnetic, up the Inlet passing the Bear Islands, ll miles from the Entrance then favoring the Eastern shore of Holbrook arm until abreast of the Saltery where a good anchorage will be found.

E. F. Dickins afeitant 6. + G. Survey blief of Pauliz. Department of Commerce and Labor Hyd Sheet Ms. 2664.

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Several corrections were made in

The records over kept in

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May 28 1906

PRINCE OF WALES ISLAND
ENTRANCE TO DAVIDSON INLET

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COAST AND GEODETIC SURVEY

O. H. Jittmann, Superintendent.

State, Alaska Locality, Davidson inlet

OBJECT, Hydrographic sheet no. 2664

CHIEF OF PARTY, E. J. Dickins YEAR, 1904

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