4761a

Diag. Cht. No. 8152-2

Form 504	
U. S. COAST AND GEODETIC SURVEY L.	-
State: Alaska Ace. N	5 - 1928
DESCRIPTIVE REPORT.	
Hyd : applie Sheet No. 4761 a	
LOCALITY:	
Tlevak Strait	
View Cove and Coco Bay	
	-
1927	
CHIEF OF PARTY:	
H.A. Gotton	

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
MAR 27 1928
Acc. No.

4/61

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. 1

DESCRIPTIVE REPORT

To accompany Hydrographic Sheet No. /

The hydrography on this sheet was executed AUTHORITY: under instructions of the Director of U.S. Coast & Geodetic Survey, dated February 18th 1927.

The entire area inside of a line drawn from LIMITS: HIGH POINT to REFF POINT was covered by this survey and connects with surveys done by the steamer" GEDENEY"

Steamlaunch # 47 was used and was especially METHODS: useful for this work on account of the steam sounding machine carried.

In shallow water up to 10 fathoms an eight 1bs hand lead was used and for greater depths the sounding machine with stranded wire and a 14 lbs. lead.

Lines are run in a northerly and southerly direction and spaced 150 meters apart, except in GREEN INLET? COCO HARBOR and adjacent waters, where the lines are spaced 100 meters and less depending up in the nature of the bottom. On account of the narrow body of water in COCO HARBOR and other inlets the lines are run withthe channel and

therefore vary in direction.

Triangulation and topography furnish the neces-CONTROL: sary control.

Bottom is very irregular, rocky, hard with BOTTOM: occasional mud.

The only kelp noticed in this locality is in a small bight north of A BAY, about 100 meters NW from O NOB. All obstructions located were free of kelp at that time.

This body of water is comparatively free of DANGERS: obstructions, except thos listed below and a rock which bares at half tide and lies about 1000 meters 150° from REEF PT.

- #1. A rock with a least depth found of 1-2/6 fathoms at M.L.L.W. lies 255 meters 355040' from OWO. This rock is of small extent, surrounded by deep water and lies practically in midchannel of COCO Harbor. This is a pinnacle rock and not marked by any kelp.
- #2. A rock with 2 feet over it at M.L.L.W. lies 270 meters 303030' from OGAB. This rock is of small extent, with deep water around it; no kelp.
- #2. A ledge extends in a NEly direction from O MAC & O HOW and about 55 meters further than shown by topography. See position # 17 e. and fix given on page 64, same volume.
- #4. A ledge extends about 110 meters NNE from O ENT and another about 135 meter ENE from O NIN at the entrance to GREEN INLET, almost blocking the passage at the point. The positions given show the extreme edge of the ledges and the fixes were taken while signal building at very low tides.

ANCHORAGES: While working in this locality the steamer Explorer anchored most of the time east of Δ VIEW, in 13 to 14 fathoms sticky and hard bottom, and also in a bight SW from Δ VIEW in 19 fathoms hard bottom. Last named anchorage lies about 450 meters 50 from OTIN with a small stream south of it.

Upon arrival on working grounds the ship picked out the anchorage east of \(\Delta \) VIEW, but being exposed to SE winds and swells an attempt was made to find a better and more protected anchorage at the head of VIEW COVE, only to be disappointed as the winds blew much stronger as at the temporary anchorage.

Strange enough, although a gale was blowing at the entrance of BALDY BAY and at the head of VIEW COVE, there was a comparative zone of calm where the ship anchored and only the long SE swell forced the launches to seek shelter in more protected waters.

GREEN INLET was used a great deal to anchor the launches for the night and also when the ship left for Ketchikan to get coal and supplies. Although this inlet affords a fairly good anchorage for small boats, it can not be entered at low tides, it runs dry at minus tides between O SI and OIS. Signal Is was a banner lashed to a rock, bare about 3 feet at low tides. Although the bottom is very sticky, launches were

driven ashore by heavy williwaws, coming down the steep hills.

COCO HARBOR offers an indifferent anchorage on accout of the heavy williwaws and same may be said of all other inlets and bights.

There is a small bight west of \triangle BON, which might offer a fairly good anchorage for small fishing vessels. The entrance is very narrow and bottom is visible at the narrowest part.

Vessels should anchor in the center of the bight in

about 4 fathoms, sticky bottom.

A rock with 2 feet over it at M.L.L.W. lies about 580 meters north from the entrance. (SEe dangers #2.)

Another inlet lies south of AIN. This inlet is not shown on old charts (#8148). The entrance to this inlet is very narrow and winding. Bottom is visible at the narrowest part all the way across. Current is very strong at the narrows, Power whaleboat had difficulties making this passage. Estimated strenght of current 4-5 knots.

The inlet is very deep, too deep for any boat to anchor

except at the edge of the flats.

WIND & WEATHER:

SE winds accompanied by heavy rain and occasional snow squalls were encountered during April and May. These winds were of considerable force, and made it quite uncomfortable for the smaller launches.

Usually the SE winds increase in force about 10-00 a.m.

and moderate towards evening.

Although stiff SE winds are blowing in the open, conditions were quite different in the bights, inlets and at the head of COCO HARBOR. Here the winds came from all direction and in gusts.

During one SE blow the power whaleboat ventured into the inlet south of \triangle IN to continue signal building, however was forced to turn about on account of fierce williwaws.

Westerly winds accompanied by fine clear, but cold weather were experienced at the head of View Cove for a few days, delaying work during the afternoon, and forcing the launch into a different locality.

Approaches:

View Cove is easely approached but it is quite different with COCO Harbor on account of the numerous rocks and ledges located by topography.

When entering View Cove, the steep shores of REEF Islands should be favored on account of the rock off REEF PT.

which bares at half tides.

This rock is also a triangulation station, and as long as the signal was standing, it was a great aid to navigation.

This rock should be marked by a beacon, especially now as View Cove is visited by large steamer carrying limerock

View Cove is wiredragged and found to be free of obstructions.

WATERSUPPLY:

There are numerous streams in this locality and most of them are at the head of the bights, inlets and coves, only accessible at high tides.

Mr Meidlich.

STATISTIC SHEET # 1.

Date 1927	Letter	Vol.	Pos.	Sdgs.	Miles St.	Launch
May 4th. " 5th. " 6th. " 13th. " 14th. " 16th. " 17th. " 20th. " 21st. " 23rd. " 24th. June 2nd. " 4th.	a. red b. " c. " d. " e. " f. " h. " j. " h. " h. " p. "	1	63 126 138 118 31 105 138 152 147 100 119 149 118	104 205 302 297 65 306 405 196 423 293 323 343 330 193	5.2 17.2 18.2 13.0 4.0 13.7 16.0 17.0 16.2 12.0 16.3 13.4 13.4	######################################
	_	LATOT	1578	3785	187.2	



May 22. 1928.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET

47612

Locality:

TAYAK SPRAIR, S.E.AIASKA.

Chief of Party:
Plane of reference is
ft. on tide staff at
View Cove

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 or "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

Carde

HYDROGRAPHIC SHEET No. 4761-2

The following statistics will be submitted with the cartographer's report on the sheet:

1.5 /8
Number of positions on sheet
508
Number of positions checked 508.
00
Number of positions revised .
2 70.5
Number of soundings recorded 3,785.
147
Number of soundings revised .47
Number of signals erroneously
7
plotted or transferred

Date: - 3 929
Cartographer: - Thomas - - -

(19eport on H. 4761-a Prs. 59-d was plotted 40 Meters inshore of. true position and rocks awash were indicated in second at that position yet these were not shown on the sheet (near sig SHE Top of sheet) In the closely developed area part of A View In the closely developed area part of A View the rocks shown S. W. of Dit were plotted and drawn in the office to (these were not shown on smooth sheet) As this appears to be an area of some importance a tracing was placed over this area and the positions and soundings time replotted The names of land and water features were fruited in The descriptive report for Wire drag reflers the office TOOL CLAM ISLAND ON VIEW ISLAND Par. 2 Page! The pencie notes near Nin (entrance to green Inlet) states that these news connect with slove tout sounding lines show some defith at M. L.L. W. . 200 meters East of A View SEE Wire Draw Soundings $S \cdot E$ " A VIEW N.F · O Ent N - A SNOW SEveral S. E. of Reef Point Respectfully submitted

Descriptive report for W.D. States that the shore Rack of Clam Island has been selected as a tentative dock site by the Pacific Cornect coment to It is considered important shorefore, that the status of the rocks S.E. of Dit be fixed and the shoal or radge formaceled to the shore at this point be carefully noted.

Field Orcords Section Report on S. 4761-a - Surveyed in 1927 Thief of Party H. A. Cotton Surveyed by W. Weidleck Protracted by 14. Weidlies Sounding Plotted by . W. W. Verified and infeed Itsming (1) Kecords Conform to requirement of G. J. 2) Plan and Character of development fulfill requirements of G. J. (3) Sounding line crossings are adoquate. 4) Defth cures can be completely drawn 5) Fireld plotting complete recept as noted below a) 29 rocks had to be transferred from the tops sheet to the Hydro sheet D The name of signals were repeated in Six instances examples Den Is Er Don Sal.

There was however little danger of confusion but the practice is a withation of G.D. There are two rocks show directly above sig Bos in Core Harly The North rock is not shown in the Tops or boat sheet but is shown on the Hydro sheet. Position 15-F is a vivolver and position on boat short did not agree with protest this position was plotted below course and agrees with boot short by 4 fathoms Pos. 19-P and 73-h N.E. of Reef Islands present in unusual condition Cositions and time were corefally checked but no discrepancy discovered. Practically swony position between The and 94-h had to be replotted.

Practically swony position between The and 94-h had to be replotted.

The original sounding line raw too close in shore South of Reef Point.

The original sounding line raws for this consistently erroreous plotting.

The control was exected again and found OK. Some of the position along shore were from 40 to 50 meters out

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON January 25, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4761a

View Cove and Coco Harber, Tlevak Strait, Alaska

Surveyed in 1927

Instructions dated February 18, 1927 (EXPLORER)

Chief of Party, H. A. Cotton.

Surveyed by W. Weidlich

Protracted and soundings plotted by W. W.

Verified and inked by J. Fleming.

- 1. The records conform to the requirements of the General Instructions.
- 2. The plan and character of development fulfill the requirements of the General Instructions.
- 3. The plan and extent of development satisfy the specific instructions.
- 4. There were just a few sounding line crossings and they showed good agreement.
- 5. Depth curves from 10 fathoms, upwards, can be completely drawn.
- 6. The usual field plotting was done by the field party. There were 29 rocks on the topographic sheet that weren't shown on the hydrographic sheet, and these were transferred.
- 7. Practically every position between 72 h and 94 h was replotted by the office draftsman. The eastern end of the sheet was found to be badly distorted and after replotting, with allowance for the distortion, the original positions were found to be practically correct showing that the distortion had taken place after the sheet left the field party.
- 8. There are no contemporary sheets joining this one, but the junction with sheet 3417, executed in 1912, is very good.
- 9. The area within the limits of this sheet was developed in good shape and the scope of the surveying is excellent. A little more developing could have been done at the following places:

- a. Around the 16 fathom sounding at Lat. 55° 03'.7, Long. 133° 00'.6. The locality was dragged later and that may account for the omission.
- b. A split line should have been run in the channel leading to Coco Harbor, on the north side of Entrance Island, and a few more soundings taken between the Signals Ma and Sa just to the northward of this channel.

10. Remarks --

- a. The boat sheet shows some sunken rocks off the point at Sta. Low, Lat. 55° 01'.2, Long. 132° 59'.2. These were not shown on either the topographic sheet or the smooth sheet, and no reference to them was made in the record. They were transferred to the smooth sheet as shown.
- b. At Lat. 55° 03'.5, Long. 132° 58'.2, just south of Reef Point, two rocks awash were added to the smooth sheet, as noted in the record opposite positions 84 and 85 h, Vol. 3. These were not shown on the topographic sheet. There are two rocks shown on the boat sheet but these correspond in position to the rocks above H. W. shown on the topographic sheet. Sheet 3417 shows one rock awash outside of the rocks above H. W. which corresponds very closely to one of those added. The positions of these rocks should be checked up, though, when the adjoining survey is made.
- c. There are two rocks shown at Lat. 55° 02'.2, Long. 133° 04'.2, the northern one of which is neither on the topographic sheet nor the boat sheet, and is not located in the records.
- d. It appears that the names chosen for the signals on the sheet were done rather haphazardly. There are six names that were used twice on the sheet, namely, Den, Is, Er, Don, Sal and Sis, and there are several cases where adjacent signals had names that sounded very much alike and might easily have been mistaken for one or the other amidst the noise that is always present when the soundings are taken; namely Lob, Nob; Kol, Wol; Ben, Wen; Lon, Don; Ma, Sa.
- 11. Reviewed by J. M. Smook, January, 1929.

Approved:

Chief, Section of Field Records (Charts)