4526

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: SE Alaska

11—5613

DESCRIPTIVE REPORT.

Hyd. *Sheet No.* 1A 4526

LOCALITY:

Chichagof I. — W. Coast

Upper Part Portlock Hbr, Pinta B

and

Vicinity

1925

CHIEF OF PARTY:

A.M. Sobieralski

4526

DEPARTMENT OF COMMERCE

U.S.Coast & Geodetic Survey.

E.Lester Jones, Director.

****

D E S C R I P T I V E R E P O R T

to accompany

HYDROGRAPHIC SHEET #

S.E.Alaska
Portlock Harbor (North Section)
Chichagof Island.
Scale 1-10000

****
****
****

Season of 1925 Steamer Surveyor

Date of Instructions Feb. 4, 1925

Wm. Sobieralski H.&G.E.
Chief of Party

Descriptive Report to Accompany Hydrographic Sheet 1A. (Field).

GENERAL DESCRIPTION AND LIMITS.

This sheet covers the approach to Portlock Harbor thru Imperial Passage, Imperial Passage, North section of Portlock Harbor, Pinta Bay , Deep Bay, and Didrickson Bay and part of Dry Bay.

The approach to Portlock Harbor thru Imperial Passage is very irregular in depth from 1.5 mi. (naut.) from the entrance to seaward in a westerly direction.

OUTLYING DANGERS.

1. A 33 ft. shoal, rocky, that breaks in very heavy weather was found 1.5 mi. naut. 275° true from Hill Island Light. This shoal was dragged and cleared with a drag set at 25ft. eff. depth. Wire dragging is shown on Sheet 1 (field).

6 4/6 fms. on smooth shoal 3W

5 1/2 fms. on H-4524 ALS

2. A group of rocks awash at h.w. 0.9 mi. naut. 239° true from Hill Island Light.

3. Rocks awash at h.w. 0.6 miles naut. 228° true from Hill Island Light. The channel south of these rocks which seems to be a good channel to seaward is foul and marked by kelp. This area breaks in moderate weather.

4. Rocks awash at l.w. 140 meters 152° true 0 May.

5. 21 ft. rocky, 0.3 mi. naut. 21° true from Hill Island Light. This shoal is marked by kelp in the Spring and extends in a 0° true direction to a small round grassy topped island where ⊙ Peer is located.

120° 3W

6. 27 ft. rocky, 0.6 mi. naut. 86° true from Hill Island light.

7. Fran Reef bares 1 foot at l.w. and runs in a northwesterly direction for 200 yds. It is 1.7 mi. naut. 78° true from Hill Island Light.

INSHORE DANGERS.

The most important dangers in the northern part of Portlock Harbor proper are as follows:

1. Reef that bares 4 ft. at l.w. 0.5 mi. naut. from the entrance to Dry Bay from Portlock Harbor; 150 yards off the eastern shore of Hill Island; 400 yards 234° true from the most southerly point of the large island making off the entrance to ~~Pinta Bay~~ Goldingbay. This reef is rocky and about 70 yards in diameter.

Sheet 1A (Field).

2. There are two rocks in Pinta Bay 100 yards apart that bare at H.W. about 65 yards 44° true of ⊙ Sem.

3. Sunken rock 309 meters 71° true from ⊙ Sem.

4. The extremity of the low water line is 0.35 mi. naut. south of ⊙ Ray.

In Deep Bay

5. There is a reef bare at L.W. between the two small islands 81° true 0.6 mi. naut. from Tip. The 20 fathom curve extends in a southwestern direction from this small island for a distance of about 400 yards.

6. Rock awash at L.W. 513 meters 242° true from ⊙ Kel.

7. Sunken Rock 50 meters 90° true ⊙ Kel.

8. Sunken Rock 529 meters 0° true ⊙ Kel.

9. Rock awash at L.W. 65 meters 180° true ⊙ Ner.

10. Sunken Rock 50 meters 35° true ⊙ Ner.

11. Reef awash at L.W. 145 meters 324° true from ⊙ Ren.

12. Sunken rock 344meters 343° true from ⊙ Gup.

13. Rock awash at L.W. 36 meters 156° true from ⊙ Jug.

14. Rock awash at L.W. 30 meters 90° true ⊙ Oti.

15. The low water line at the head of the bay is about 185 meters south of ⊙ Sug.

16. Sunken Rock 50 meters 342° true from ⊙ Ter.

17. Sunken Rock 50 meters 163° true from ⊙ Ter.

18. Rock awash at L.W. 100 meters 38° true from ⊙ Zen.

19. Rock awash at L.W. 210 meters 56° true from ⊙ Start.

20. Rock awash atLL.W. 212 meters 126° true from ⊙ Frog.

In Didrickson Bay

21. There are two sunken rocks off the entrance as follows:
605 meters 129° true ⊙ Frog.

3 Sheet 1A (Field).
****

22. Sunken Rock 730 meters 149° true ⊙ Freg.

There isea good channel for small craft between the first long narrow wooded island off the N.E. end of Hogan Island and Hogan Island. Dangers in this channel are two.

23. Rock bare at L.W. 30 meters 230° true from ⊙ Sub.

24. Low water line extends out in the channel to 210 meters 317° true ⊙ Kan.

After passing the rock off ⊙ Sub the vessel should favor the southwest shore of the small wooded island.

Across the channel from ⊙ sub there is a small dock which has a depth of 3 ft. at L.L.W. at the face.

Remarks.

The plane of reference for reducers is M.L.L.W. Kimshan Cove tides were used except when gauge there was not in operation at which time Sitka Tides were used. Plane of reference for Kimshan Cove is 12.3; for Sitka, 9.8.

Beginnings and endings of lines are entered in sounding records in degrees true and statute miles.

All bearings to rocks and breakers in sounding record are magnetic unless otherwise noted.

Respectfully submitted,

Augustus P. Ratti

Jr. H.and G.E.

Statistics Sheet # 1 A

Date 1925		Letter	Volume	Positions	Sound-ings	Mi. Statute Sounding lines.	Mi. Statute to Working Grounds	Mi. Statute from Working Grounds	Launch
May	9	a	1	29	29	1.9	6.1	6.1	62
	11	b	1	74	97	10.7	6.1	12.0	
	12	c	1	66	120	8.3	6.1	8.0	
	13	d	1	61	138	7.8	6.3	7.0	
	14	e	2	42	132	9.5	7.0	7.0	
	16	f	2	25	73	3.6	6.3	6.1	
	18	g	2	49	164	10.3	6.2	8.1	
	20	h	2	50	145	7.5	7.0	7.1	
	21	j	2	31	84	4.9	7.0		
	21	j	3	22	73	4.5		6.0	
	22	k	3	81	194	9.0	7.1	7.2	
	26	l	3	71	202	9.8	7.5	7.4	
	28	m	3	72	108	4.5	7.0	7.4	
	29	n	4	28	44	1.7	7.4	9.1	
June	6	o	4	56	134	6.7	6.0	6.1	
	10	p	4	79	180	13.5	4.5	7.0	
July	14	q	4	9	28	2.2	7.0	7.0	
	23	r	4	88	158	10.2	6.0	6.0	
August	7	s	4	30	66	4.0	11.0	11.0	
	31	t	4	11	21	1.6	2.3		
	31	t	5	74	123	10.9		1.0	
Sept.	1	u	5	76	115	9.2	2.0	2.0	
	2	v	5	113	171	11.7	3.0	5.0	
	3	w	5	4	4				
	23	x	5	112	203	19.8	0.7	3.0	
	26	y	6	84	148	12.8	3.0	5.3	
	28.	z	6	96	158	12.4	3.6	3.6	
Oct.	2	aa	6	22	42	2.0	6.0	7.0	
	5	bb	6	20	34	3.0	3.5	3.5	
	13	cc	6	28	53	2.0	0.0	0.0	
				1603	3241	215.9	145.7	166.0	

Total Area - 11.1 Sq. Mi.

WWD

MAY 12 1926

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4526

Locality: S. E. Alaska.

Chief of Party: A. M. Sobieralski in 1925

Plane of reference is MLLW
12.3 ft. on tide staff at Kimshan Cove

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 Thude

Chief, Division of Tides and Currents.

Report on Verifying and Taking H. 4526.

The protracting and plotting of soundings were in general good. A common mistake was the protracting of a position with one of the angles 1° or 5° out. In some places the recorded time intervals were disregarded in spacing soundings.

Although the area is well covered, the irregular bottom requires a survey with the wire drag. There are many indications of shoals where the least depth probably is not shown.

The legends of rocks have been taken from the list in the descriptive report and supplemented from the boat sheet, topographic sheets and records and also from pencil notes on the smooth sheet.

Position 29 p (V.4, p.27) seems incorrect but there is no reasonable way of changing it. This places two shoal soundings near other deep soundings. (Near Lydonia Ids)

At position 176 (V.2, p.33) note of rock 20 meters distant. No rock is shown this close to position and perhaps the distance was underestimated.

June 14, 1926

F. M. Albert, Cartographer
Section of Field Records.

Form 537
11—5812

4526

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. 4526
1A

State S.E.Alaska

General locality ~~West Coast~~ Chichagof ~~Island~~ I. ~ West Coast

Locality Upper Part Portlock Harbor, Pinta Bay, and Vicinity ~~(Northern Part)~~

Chief of party A.M.Soberialski, Com'd'g. Str. Surveyor.

Surveyed by Augustus P.Ratti, Jr. H.and G.E.

Date of survey May 9, to Oct. 13, 1925

Scale 1-10000

Soundings in Fathoms

Plane of reference MLLW

Protracted by ~~A.P.R.~~ EHK ? Soundings in pencil by ~~A.P.R.~~ EHK ?

Inked by F.M.A. Verified by F.M.A.

Records accompanying sheet (check those forwarded):

Des. report, ... Tide books, ... Marigrams, 1 Boat sheets,

6 Sounding books, ... Wire-drag books, ... Photographs.

Data from other sources affecting sheet

Remarks: