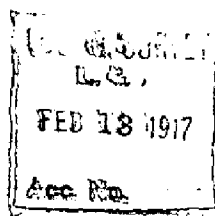


3641



Also see Topographic Dec. Report 2746A

FORM 501
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <i>Alaska</i>
11-5813
DESCRIPTIVE REPORT.
<i>Map</i> Sheet No. <i>3641</i>
LOCALITY:
<i>Prince of Wales Id. U E Coast.</i>
<i>Vicinity Whale Passage</i>
1916
CHIEF OF PARTY:
<i>C. G. Sullivan</i>

3641

DESCRIPTIVE REPORT

and a

LIST OF PLANETABLE POSITIONS FOR SHEET NO

WHALE PASSAGE

S.E. ALASKA

Surveyed by Party of Str. PATTERSON ----- 1916

C.G. Quillian, Commanding.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO.

WHALE PASSAGE S.E. ALASKA Scale 1:20,000

Limits: This sheet extends from north latitude 55 59 to 56 06, and from west longitude 132 55 to 133 08. It covers all but the northern part of Whale Passage; also, Indian Creek, the north shore of Stevenson Island, and the lower half of the east shore of Thorne Island. It joins on the east with Sheet Register No. 2746; on the north with Sheet No. surveyed by H. T. Kelsh, Assistant, of same party.

General Description of Coast: The shore line is thickly wooded throughout and is devoid of any special features. Sand and gravel beaches show along the shores at low water. ^{*alternated with rocky shores.*} Along the mouths of the larger streams and in the deeper indentations of the shore there are low, grassy stretches suitable for camp sights. The country immediately back of the coast is thickly wooded, low and undulating.

Landmarks: There are no conspicuous landmarks. The southern entrance to Whale Passage cannot be picked up till close at hand. The northwest point of Stevenson Island is ^{*about 20 ft. rather*} high and precipitous (Δ Whale), and is at southern entrance to Passage. A little grassy islet with a single low spruce tree on it (⊙ Log), just off the southeast point of Thorne Island, makes a good mark for entering from the south. There is a low wooded island in the middle of southern entrance, but cannot be distinguished from the country immediately back of it.

Dangers, and necessary Precautions: A hydrographic survey has been made this season of Whale Passage. This passage can be used by small boats only. There are numerous rocks and ledges, covered at half tide and unmarked by kelp scattered in mid-channel as well as near shore. One not acquainted

with channel should feel his way through with caution. The east shore of Thorne Island and the north shore of Stevenson Island have rocky ledges , bare at low water, extending for several hundred meters from shore, but these shores are marked by thick kelp throughout. Indian Creek is sometimes ^{used} by small gas boats in going between Lake Bay and Whale Passage. A passage is only possible near high tide, and ^{at N.W.} near slack ~~water~~. There are two dangerous rapids, with rocks in the middle of them, to be crossed. Only those with local knowledge should attempt this passage.

Anchorage: Whale Passage should afford good shelter for small boats in any kind of weather. No very severe weather was encountered while making survey, but on several occasions when a stiff breeze was blowing in Kash-evarof Passage, the waters inside Whale Passage were entirely calm. Anchorage for small boats can be found in any of the bights. The best anchorage is in the sandy bay on west shore of Passage, known locally as "Whale Bay" (outside limit of this sheet). The bight west of small island, where passage changes in direction from east and west to north and south is a well sheltered anchorage. This bay is known locally as "Rocky Bay" because of the numerous rocks in it. On the east shore of Thorne Island, just south of Δ Cam is a small sandy bay with a stream at the head of it, which could serve as a temporary protection for small boats. There are some rocks near the north entrance. The direction of the current in Whale Passage is various. The flood comes in at both entrances; is strongest at the northern entrance; is negligible near the middle. Tide rips were noticed inside southern entrance.

Other useful Information: There are numerous small streams in Whale Passage, but the smaller ones go dry in summer. The best stream is the one on the west shore of "Rocky Bay", inside Fib. This locality also affords

a good camp sight. There are several fishermen's huts in "Whale Bay" and two fish traps belonging to the Lake Bay Cannery. Some clearing has been done in this locality.

Survey Methods: Whale Passage was surveyed by means of plane table triangulation and traverse, the signals being put up in advance. Indian Creek was traversed by C.T. Russell, Aid, of same party. ^{C.B. 9-1916} Triangulation stations Cam and Whale were used as starting points and the survey run west and north to O Odar and O Fall. The rest of the passage was run from the northward with triangulation control from the north. The error of closure on above two signals was 70 meters and was thrown into the shoreline south of above two signals, being distributed in proportion to shore-line run. The outer coasts of Thorne and Stevenson Islands had sufficient triangulation control to make any subsequent adjustment unnecessary. Elevations are taken to tops of trees. Heights of trees are pretty uniform and may be taken as 60 feet. Contours are sketched from shore and are only approximate.

Magnetic Survey: The declinatoire was used frequently in running survey. It was never used as a means of orientation, but did serve as a check against gross errors. The direction of the magnetic needle was found to be fairly uniform throughout.

Local Names:

Whale Bay: sandy bay on west side of Whale Passage in lat. 56 06; long. 133 07.

Rocky Bay: rocky bay on west side of Whale Passage in lat. 56 03; long. 133 07.

Respectfully yours,

Jack Senior
Aid, C. & G. S.

PLANETABLE POSITIONS

NAME	LATITUDE	D.M.	LONGITUDE	D.P.	MARKER	REMARKS
<u>Toy</u>	56	02	1024	132 58	362	hyd. signal on dolphin
			833		712	
<u>Lee</u>	56	02	1350	132 58	624	hyd. w.w. rock
			506		354	
<u>Red</u>	56	02	1758	132 58	240	hyd. signal on tree
			98		798	
<u>Mis</u>	56	02	1834	132 59	212	C.M. w.w. cliff
			22		826	
<u>Luna</u>	56	02	1464	132 59	917	bolt w.w. cairn
			392		131	
<u>Feet</u>	56	02	1830	133 01	1030	disk w.w. cairn
			26		8	
<u>Nail</u>	56	02	1493	133 02	608	C.M. w.w. rock
			363		430	
<u>Node</u>	56	02	1429	133 03	2	C.M. w.w. rock
			417		1036	
<u>Odd</u>	56	02	1040	133 03	538	C.M. w.w. rock
			616		510	
<u>Sex</u>	56	02	1088	133 03	989	hyd. w.w. rock
			773		49	
<u>Net</u>	56	02	849	133 04	87	C.M. w.w. boulder
			1307		951	
<u>Yes</u>	56	02	241	133 04	353	hyd.
			1615		686	
<u>Rage</u>	56	02	872	133 04	489	hyd. flag
			984		549	
<u>Pain</u>	56	02	978	133 04	1038	hyd. w.w. cairn
			378		10	
<u>Lace</u>	56	02	1824	133 05	578	hyd. w.w. rock
			552		460	
<u>Fib</u>	56	02	1686	133 05	702	hyd. w.w. rock
			170		336	
<u>Hell</u>	56	02	1490	133 04	246	C.M. w.w. rock
			366		792	
<u>Tab</u>	56	02	306	133 04	400	disk w.w. rock
			1650		638	
<u>Pin</u>	56	02	1024	132 37	383	C.M. w.w. rock
			632		657	
<u>Pit</u>	56	02	1196	132 58	907	hyd. w.w. cairn
			660		131	
<u>Log</u>	56	02	891	132 59	150	disk pole
			965		898	

NAME	LATITUDE	D.M.	LONGITUDE	D.P.	MARKED	REMARKS
<u>Fun</u>	56	03	424 1432	132 58	877 161	hyd. w.w.cairn
<u>Rib</u>	56	03	432 1424	132 58	297 741	hyd. w.w.cairn
<u>Non</u>	56	03	982 874	132 59	706 332	hyd. w.w.boulder
<u>Ink</u>	56	03	965 891	133 00	274 764	bolt w.w.cairn
<u>Are</u>	56	03	1385 471	133 00	524 514	hyd. w.w.cairn
<u>Bit</u>	56	03	1513 343	133 01	52 986	bolt w.w.cairn
<u>Cub</u>	56	03	1400 456	133 02	80 958	bolt w.w.cairn
<u>Dew</u>	56	03	1489 367	133 02	594 444	C.&N. w.w.rock
<u>Pot</u>	56	03	1513 343	133 03	50 988	hyd. w.w.rock
<u>Elm</u>	56	03	1218 638	133 03	137 901	C.&N. w.w.rock
<u>King</u>	56	03	885 971	133 02	932 106	C.&N. w.w.rock
<u>Fill</u>	56	03	784 1072	133 02	1032 6	hyd. w.w.rock
<u>Dry</u>	56	03	340 1516	133 02	401 637	C.&N. w.w.cairn
<u>Hat</u>	56	03	261 1595	133 03	273 765	C.&N. w.w.cairn
<u>Zo</u>	56	03	693 1163	133 03	455 583	C.&N. w.w.rock
<u>Vim</u>	56	03	855 1001	132 03	893 143	hyd. w.w.rock
<u>Pail</u>	56	03	1514 342	133 04	357 681	hyd. pole
<u>At</u>	56	03	574 1288	133 00	848 190	bolt w.w.cairn
<u>Bow</u>	56	03	457 1399	133 01	260 778	bolt w.w.cairn
<u>Tab</u>	56	03	306 1550	133 04	400 638	disk w.w.rock
<u>Van</u>	56	03	1065 791	133 04	763 275	hyd. w.w.cairn
<u>Pod</u>	56	03	1122 734	133 04	855 183	hyd. pole
<u>Game</u>	56	03	992 864	133 04	996 40	hyd. pole
<u>Dime</u>	56	03	309 1547	133 05	65 1791	hyd. pole

NAME	LATITUDE		D.M.	LONGITUDE		D.P.	MARKED	REMARKS
<u>Hire</u>	56	08	560	133	05	536	hyd.	w.w.rock
			1296			502		
<u>Evil</u>	56	08	1596	133	05	910	hyd.	w.w.rock
			260			128		
<u>Kit</u>	56	04	792	133	06	321	hyd.	pole
			1064			717		
<u>Odar</u>	56	04	1078	133	06	905	hyd.	pole
			778			133		
<u>Darn</u>	56	04	584	133	04	759	hyd.	pole
			1272			279		
<u>Fall</u>	56	04	1070	133	04	204	hyd.	pole
			846			834		
<u>Said</u>	56	04	1474	132	58	815	hyd.	pole
			382			223		
<u>Pig</u>	56	04	35	132	58	803	C.&N.	w.w.cairn
			1821			235		
<u>Mob</u>	56	05	110	133	04	985	hyd.	flag
			1746			53		
<u>Six</u>	56	05	460	133	04	820	hyd.	pole
			1896			218		
<u>Juda</u>	56	05	842	133	05	25	hyd.	w.w.cairn
			1014			1013		
<u>Kiln</u>	56	05	708	133	04	814	hyd.	w.w.rock
			1153			224		
<u>Kink</u>	56	05	1150	133	07	455	hyd.	pole
			706			583		
<u>Kind</u>	56	05	1260	132	59	960	hyd.	pole
			596			78		
<u>Mall</u>	56	05	100	132	59	72	hyd.	w.w.cairn
			1756			966		
<u>Exit</u>	56	06	223	133	00	253	hyd.	pole
			1633			734		

6 Legend

C.&N.: nail in cement

bolt: copper bolt in cement

disk: regular topographic disk mark in crevice

hyd.: not marked, used by hydrographic party.