

3657

Also see Topographic Dec. report 2746a

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: _____

DESCRIPTIVE REPORT.

Map Sheet No. *3657*

LOCALITY:

Alaska

Etolin Is. Clarence Strait

190

CHIEF OF PARTY:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Washington, April 21, 1917.

Respectfully referred to

Contact print of a section of sheet No. 3656 and 3657 showing elevations and contours of mountain south of McHenry Anchorage were returned to Assistant Quillian with request that he adjust, if possible, the discrepancy in the overlap showing an area common to each sheet.

*R. B. Stewart*Chief, Section of
Field Work.

DESCRIPTIVE REPORTS

and

PLANETABLE POSITIONS

FOR

SHEET NO.

S.W. SECTION of ETOLIM ISLAND

S.E. ALASKA.

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

G.G. Quillian, Commanding

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. 3657 Scale 1:20,000

Limits: This sheet extends from north latitude 55 57 to latitude 56 11; from west longitude 132 20 to longitude 132 36. This sheet takes in the southwest section of Etolin Island and includes Burnett Inlet, McHenry Inlet, McHenry Anchorage, and the east shore of Rocky Bay. It connects with topographic sheet Register No. 3392 (work done by party of C.G.Q. - 1913, and approximately shown in pencil); on the west it joins with sheet No. , surveyed by H.T. Kelsh, Asst., ^{C.G.Q. 1914} of same party; on the south, with sheet No. 3656, surveyed by O.S. Reading, Aid, of same party. C.G.Q. 1914.

General Description of Coast: The shores are thickly wooded and rocky. The outer coast and the shores of Burnett Inlet are steep and high. There are many bare mountain peaks, with elevations ranging up to 3,000 feet rising abruptly from the shores of Burnett and Mosman Inlets. In McHenry Inlet and McHenry Anchorage there are several sand and gravel beaches and low grassy land running a short way back. The islands are all low and wooded and difficult to distinguish from the country immediately back of it.

Landmarks: Navy peak because of its more ⁰isolated position is the most conspicuous landmark, though there are several bare mountain peaks north of it, almost as high and almost as conspicuous. A small, round, wooded, island is in the middle of entrance to McHenry Inlet and is quite distinctive. The entrance to McHenry Anchorage appears open and free of dangers. A low, grassy neck of land with a single bush on it makes out from the northeast point of entrance and is a conspicuous mark.

Dangers: A close hydrographic survey was made this season of McHenry Inlet.

and all dangers can be picked out there. There are several rocks in the small bay at the head of this inlet, which show only at low water. The north shore of McHenry Anchorage appears foul with numerous rocks and ledges showing several hundred meters off shore at low water. There is much kelp in the vicinity of Quartz Rock and this should be given a wide berth. There is no inside passage between McHenry Inlet and McHenry Anchorage as shown on Chart 8100. In the narrows, halfway up Burnett Inlet, a 6 knot current was observed near the last of ebb. A sandspit extends for about 100 meters from the east shore and there is considerable kelp in the vicinity.

Anchorage:

McHenry Inlet: A close hydrographic survey was made of this Inlet and the best entrance and bottom for anchoring can be chosen there. The anchorage is probably good, though in the only instance observed of a strong west wind, the sea piled into the Inlet with considerable force as far in as Δ Gab. Complete shelter for small boats can be had in the bight at the head of the Inlet on the west side. There are several rocks showing only at low water at the entrance to ^{above small bay} ~~this bay~~. McHenry Inlet terminates in a tidal flat with two large streams at its head. Sanborn, Cram & Co., have a salmon trap here. There are two old huts on the west shore in the bay at the head of the Inlet. A new hut belonging to the Burnett Inlet cannery concern is on the east shore at Δ Gab. There is a good anchorage for small boats in the small sandy cove inside of the southernmost island at the entrance to McHenry Inlet ($\odot$ Dep and $\odot$ Tide). This would also be a good place for beaching a small boat. There are entrances on either side of the island but there are rocks in the passageway and one should enter with caution. Jadski Cove is fringed with rocks and islets at its entrance and is considered undesirable.

McHenry Anchorage: The best anchorage is in the bay on the south shore back of the grassy point at the entrance. The bottom is sandy and the bay seems to be clear of rocks. There are several huts at the head of this bay. On the north shore there is a deep lagoon almost connecting with another lagoon on the McHenry Inlet side. There is a stream at the head of this lagoon and several smaller streams in the bay east of the anchorage.

Burnett Inlet: A hydrographic and topographic survey of the entrance to Burnett Inlet up to one half mile north of the cannery was made in 1918. This season's work completes the topography of the inlet. Independent control was used. Burnett Inlet has a north and south (true) direction and an average width of about 350 meters. There are some rocks near the entrance, but for the rest of its length it seems to be clear of rocks. The shores are steep and rocky, and the water is deep up to the narrows. About 3 miles north of the entrance, on the east shore, there is a large water-fall, which is convenient for watering ship. *The ~~it~~ is contracted.*

Rocky Bay: Only the east shore and the passage between Rocky Bay and Mosman Inlet are shown on this sheet. The shores are rocky, with gravel beaches and ledges showing at low water. There are numerous rocks and islets fringing the east shore of Rocky Bay. A hydrographic survey was made this season of this bay and the best entering channel and anchorage can be chosen from this survey. Small boats can go between Rocky Bay and Mosman Inlet by the passage north of "Mosman Island". The west entrance is very narrow and foul. Small boats can find complete shelter inside this passage. There are some deep lagoons inside this passage but no streams of any account.

Mosman Inlet: The topography of Mosman Inlet, which is within the limits

of this sheet, was not done, due to the closing of the season's work.

△ Big was located by two triangulation cuts, but its orientation on

△ signals Hard, Isle, and Point, fails to check exactly.

Survey Methods: The survey of McHenry Inlet had sufficient triangulation control to make any subsequent adjustment unnecessary. McHenry Anchorage from △ Quartz to ○ Kelp was surveyed by means of plane table triangulation and traverse. The position of ○ Kelp failed to agree with the plane table location as obtained on the southern sheet by 60 meters in distance- the orientation was correct. This discrepancy was distributed between △ Quartz and ○ Kelp. Burnett Inlet was traversed, the signals being put up in advance. Independent triangulation control was used in doing the topography of Burnett Inlet. ○ Brad at the head of the Inlet is marked with a hydrographic disk mark cemented into a drilled hole on horizontal face of large boulder, 6 feet high, on H.W.L. ○ ^{Edith}~~May~~ and ^{Xyle}~~Rock~~ are also marked.

△ Point, △ May, and Isle, were first established by party of C.G.Q. in 1913, being topographic signals shown on Sheet Register No. 3392. They were ^{re-marked,} re-marked, and located by triangulation. The distances between those stations as computed by triangulation fail to agree with the distances as scaled off from a photographic copy of original sheet, by something over a hundred meters (true position is to the eastward). This discrepancy may be lessened by comparison with original sheet. In joining the shore line of 1913 with that of this sheet the above 3 signals may be used for orienting.

Elevations, except in the case of bare mountains, are taken to tops of trees. The heights of trees are pretty uniform and may be considered as 60 feet. Contours are sketched from shore and are only approximate. The contouring on this sheet is incomplete. The general appear-

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ance of the mountains north of McHenry Inlet and on the shores of Burnett and Mosman Inlets are fairly well delineated on Chart 8160, though the elevations are considerably in error.

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

Omission: There is a tiny wooded islet off the east shore of Rocky Bay - several hundred meters west of $\odot$ Once, which through an oversight was not located on this sheet.

Respectfully yours,

Jack Senior,
Dir., P. & I. S.

PLANETABLE POSITIONS

<u>NAME</u>	<u>LATITUDE</u>	<u>D.M.</u>	<u>LONGITUDE</u>	<u>D.P.</u>	<u>MARKED</u>	<u>REMARKS</u>
<u>Kelp</u>	55 57	563 1393	132 26	1020 21	triangu- lation mark	w.w. cliff
<u>Mil</u>	55 57	1663 793	132 27	142 899	hyd.	w.w. cliff
<u>Tum</u>	55 57	1239 617	132 27	108 998	hyd.	w.w. cliff
<u>Dat</u>	55 57	1602 254	132 26	907 134	hyd.	w.w. boulder
<u>Mean</u>	55 57	1178 678	132 26	739 302	hyd.	w.w. log
<u>Sign</u>	55 57	1059 797	132 26	464 577	hyd.	w.w. & cairn
<u>Mul</u>	55 57	835 1021	132 26	362 679	hyd.	boulder on beach
<u>Moon</u>	55 57	1402 454	132 26	121 920	hyd.	pole & cairn
<u>Glve</u>	55 57	1161 695	132 25	855 186	hyd.	w.w. log
<u>Rice</u>	55 57	1086 770	132 25	448 593	hyd.	w.w. cliff
<u>Com</u>	55 57	1507 349	132 25	828 213	hyd.	w.w. cliff
<u>Was</u>	55 57	1774 82	132 26	72 969	hyd.	pole & cairn.
<u>Min</u>	55 58	97 1759	132 25	996 45	hyd.	w.w. cliff
<u>Bur</u>	55 58	590 1266	132 26	640 401	hyd.	signal cloth on tree
<u>Sit</u>	55 58	599 1257	132 27	300 741	hyd.	w.w. & cairn
<u>Up</u>	55 58	802 1054	132 27	810 231	hyd.	w.w. bluff
<u>Vera</u>	55 58	1184 672	132 27	507 534	hyd.	w.w. cliff
<u>Bil</u>	55 58	1353 503	132 27	799 242	hyd.	w.w. cliff
<u>Rin</u>	55 58	1484 372	132 27	60 981	C.S.M.	w.w. cliff
<u>Tide</u>	55 58	1417 439	132 26	831 210	Hyd.	w.w. & cairn
<u>Dep</u>	55 58	1455 401	132 26	681 360	hyd.	white boul- der
<u>For</u>	55 58	1192 664	132 26	448 593	hyd.	w.w. boulder
<u>Amo</u>	55 58	1476 380	132 26	80 861	hyd.	w.w. cliff

NAME	LATITUDE		D.M.	LONGITUDE		D.P.	MARKED	REMARKS
<u>Dim</u>	55	59	35	132	26	570	C.&N.	w.w.cliff
			1821			470		
<u>Imp</u>	55	59	326	132	26	253	C.&N.	w.w.& tripod
			1530			787		
<u>Pac</u>	55	59	458	132	26	245	C.&N.	w.w.cliff
			1398			795		
<u>Uae</u>	55	59	758	132	26	634	C.&N.	w.w. cliff
			1098			406		
<u>Dal</u>	55	59	959	132	26	121	C.&N.	w.w. tripod
			897			919		
<u>Med</u>	55	59	1229	132	26	252	C.&N.	w.w.& tripod
			627			788		
<u>Pil</u>	55	59	1360	132	26	632	C.&N.	tripod
			496			408		
<u>Ler</u>	55	59	1508	132	26	871	hyd.	w.w.
			348			169		
<u>Na</u>	55	59	1458	132	27	88	hyd.	w.w.cliff
			398			952		
<u>To</u>	55	59	968	132	27	375	hyd.	w.w.boulder
			888			665		
<u>Kogo</u>	55	59	965	132	27	572	hyd.	w.w.boulder
			891			468		
<u>Maru</u>	55	59	1278	132	27	793	hyd.	w.w.cliff
			578			247		
<u>Sup</u>	56	00	62	132	27	897	hyd.	bare rock
			1794			143		
<u>Sor</u>	56	00	218	132	25	890	hyd.	w.w.cliff
			1638			150		
<u>Can</u>	56	00	1826	132	22	931	C.&N.	w.w.boulder
			30			109		
<u>Gun</u>	56	01	570	132	22	752	C.&N.	w.w.
			1286			288		
<u>Ner</u>	56	01	860	132	22	666	C.&N.	w.w.
			996			374		
<u>Deer</u>	56	01	1190	132	22	666	C.&N.	w.w.
			666			374		
<u>Goose</u>	56	01	1506	132	22	648	C.&N.	tripod
			350			392		
<u>Grass</u>	56	01	1846	132	22	769	hyd.	w.w.boulder
			10			271		
<u>Lamp</u>	56	01	1554	132	23	51	C.&N.	w.w.cliff
			302			989		
<u>Last</u>	56	01	1278	132	23	518	C.&N.	w.w.boulder
			578			522		
<u>Bell</u>	56	01	540	132	23	442	C.&N.	w.w.cliff
			1316			598		
<u>Bub</u>	56	01	134	132	23	637	C.&N.	w.w.
			1722			403		
<u>Zeh</u>	56	01	108	132	23	794	hyd.	w.w.
			1748			246		

NAME	LATITUDE	D.M.	LONGITUDE	D.P.	MARKED	REMARKS
<u>Sen</u>	56	00	1751	132 23	949	hyd. w.w.cliff
			105		91	
<u>Weid</u>	56	00	1624	132 24	394	C.&N. w.w.cliff
			232		646	
<u>Lick</u>	56	00	1596	132 24	648	C.&N. w.w.cliff
			260		392	
<u>Nob</u>	56	00	1816	132 24	980	C.&N. w.w.cliff
			40		11860	
<u>Ken</u>	56	01	132	132 25	736	hyd. w.w.cliff
			1724		304	
<u>Mack</u>	56	01	990	132 25	475	hyd. w.w.rock
			866		564	
<u>Tot</u>	56	01	710	132 25	692	hyd. w.w.cliff
			1146		347	hyd
<u>Burg</u>	56	01	702	132 25	800	hyd. w.w.cliff
			1154		239	
<u>Den</u>	56	01	1217	132 25	981	hyd. w.w.cliff
			639		58	
<u>Hin</u>	56	01	1260	132 26	288	hyd. w.w.cliff
			596		751	
<u>Fre</u>	56	01	900	132 26	27	hyd. w.w.cliff
			956		1012	
<u>Ske</u>	56	01	939	132 26	743	hyd. w.w.rock
			917		296	
<u>Her</u>	56	01	544	132 26	694	hyd. w.w.cliff
			1312		345	hyd
<u>Nero</u>	56	01	624	132 26	449	hyd. w.w.cliff
			1232		590	
<u>Kil</u>	56	01	368	132 26	190	hyd. w.w.rock
			1488		849	
<u>Ra</u>	56	01	116	132 26	392	hyd. w.w.cliff
			1740		648	
<u>Wa</u>	56	00	1684	132 26	862	hyd. w.w.cliff
			172		173	
<u>Nav.</u>	56	00	1665	132 27	15	hyd. w.w.cliff
			191		1025	
<u>Evan</u>	56	01	10	132 27	297	hyd. w.w.rock
			1846		743	
<u>Buck</u>	56	01	216	132 27	612	hyd. w.w.boulder
			1640		428	
<u>Don</u>	56	01	494	132 27	884	hyd. w.w.cliff
			1362		156	
<u>Now</u>	56	01	454	132 28	257	hyd. w.w.cliff
			1402		783	
<u>Two</u>	56	01	1832	132 27	960	hyd. w.w.boulder
			24		80	
<u>Four</u>	56	01	1578	132 28	73	hyd. w.w.rock
			178		967	
<u>Gur</u>	56	01	282	132 28	514	hyd. w.w.cliff
			1574		526	
<u>One</u>	56	01	370	132 28	432	hyd. w.w.cliff
			1486		608	

NAME	LATITUDE		D.M.	LONGITUDE		D.P.	MARKED	REMARKS
<u>Lu</u>	56	01	418 1438	132	28	496 544	hyd.	w.w.cliff
<u>Li</u>	56	01	730 1126	132	28	342 697	hyd.	w.w.cliff
<u>Pad</u>	56	01	1035 821	132	28	656 383	hyd.	w.w.cliff
<u>Man</u>	56	01	826 1030	132	28	873 166	hyd.	w.w.cliff
<u>Ado</u>	56	01	715 1141	132	28	994 45	hyd.	w.w.cliff
<u>Deem</u>	56	05	1360 496	132	28	194 843	hyd.	flag on islet
<u>Wire</u>	56	05	1574 282	132	27	673 564	hyd.	w.w.cliff
<u>Set</u>	56	05	180 1676	132	27	897 140	hyd.	w.w.cliff
<u>Eagle</u>	56	05	132 1724	132	28	243 794	hyd.	flag on islet
<u>Range</u>	56	05	400 1456	132	28	371 666	hyd.	w.w.cliff
<u>Bowl</u>	56	05	696 1160	132	27	995 42	hyd.	w.w.cliff
<u>Hive</u>	56	05	708 1148	132	28	302 735	hyd.	w.w.cliff
<u>Hide</u>	56	05	907 949	132	27	977 60	hyd.	w.w.cliff
<u>Deep</u>	56	05	957 899	132	28	233 804	hyd.	flag
<u>Jerg</u>	56	05	1134 722	132	27	855 182	hyd.	w.w.cliff
<u>Chow</u>	56	05	1511 345	132	28	250 787	hyd.	flag & banner
<u>Gang</u>	56	05	1540 316	132	27	746 291	hyd.	banner
<u>Epic</u>	56	06	86 1770	132	27	912 125	hyd.	w.w.cliff
<u>The</u>	56	06	424 1432	132	28	526 511	hyd.	w.w. & flag
<u>You</u>	56	06	513 1343	132	27	934 103	hyd.	banner
<u>Rear</u>	56	06	755 1101	132	27	952 85	hyd.	banner
<u>Wind</u>	56	06	1094 762	132	27	915 122	hyd.	w.w. & banner
<u>Send</u>	56	06	1218 638	132	28	53 984	hyd.	w.w.cliff
<u>Omen</u>	56	06	1354 502	132	28	352 685	hyd.	flag
<u>Fall</u>	56	06	1514 342	132	28	100 937	hyd.	bottom of falls

NAME	LATITUDE	D.M.	LONGITUDE	D.P.	MARKED	REMARKS
<u>Pun</u>	56 06	1626 230	132 28	400 637	hyd.	w.w.cliff
<u>Meal</u>	56 07	251 1605	132 28	415 621	hyd.	w.w.cliff
<u>Grin</u>	56 07	472 1384	132 28	232 804	hyd.	w.w.cliff
<u>Acid</u>	56 07	544 1312	132 28	455 581	hyd.	w.w.cliff
<u>Cane</u>	56 07	704 1152	132 28	140 896	hyd.	w.w.cliff
<u>Eddy</u>	56 07	1080 776	132 28	578 458	hyd.	w.w.cliff
<u>Next</u>	56 07	1336 520	132 28	220 816	hyd.	w.w.cliff
<u>Past</u>	56 07	1444 412	132 28	620 416	hyd.	w.w.cliff
<u>Rid</u>	56 07	1691 165	132 28	513 523	hyd.	w.w.cliff
<u>Very</u>	56 08	4 1852	132 28	290 746	hyd.	w.w.cliff
<u>Yule</u>	56 08	483 1373	132 28	315 721	disk	flag
<u>Whip</u>	56 08	878 978	132 28	431 605	hyd.	flag
<u>Sand</u>	56 08	1047 809	132 28	226 810	hyd.	w.w.cliff
<u>Only</u>	56 08	1322 584	132 28	522 514	hyd.	w.w.cliff
<u>Mane</u>	56 08	1802 54	132 28	232 804	hyd.	w.w.cliff
<u>Away</u>	56 09	356 1500	132 28	472 564	hyd.	w.w.cliff
<u>Glow</u>	56 09	885 971	132 28	108 928	hyd.	flag
<u>Edit</u>	56 09	1416 440	132 28	418 618	cross	w.w.boulder
<u>Nit</u>	56 09	1464 892	132 27	863 173	hyd.	w.w.boulder & banner
<u>Fame</u>	56 09	1786 70	132 28	200 836	hyd.	w.w.cliff
<u>Hum</u>	56 10	1035 10	132 27	591 444	hyd.	banner
<u>Drw w</u>	56 10	597 1259	132 27	670 365	hyd.	boulder on beach
<u>Brad</u>	56 10	740 1116	132 27	885 150	disk	w.w.boulder
<u>Jag</u>	56 10	452 1404	132 28	232 803	hyd.	w.w.stump

NAME	LATITUDE	D.M.	LONGITUDE	D.P.	MARKED	REMARKS
<u>Soap</u>	56 03	292 1564	132 32	744 294	hyd.	w.w.boulder
<u>Pal</u>	56 03	712 1144	132 33	980 58	hyd.	outer hut
<u>Wash</u>	56 03	1646 210	132 34	112 926	hyd.	w.w.cliff
<u>Ease</u>	56 04	653 1203	132 34	690 348	hyd.	w.w.cliff
<u>Knee</u>	56 04	926 930	132 34	1018 20	hyd.	
<u>Lily</u>	56 04	1130 726	132 35	108 930	hyd.	
<u>Card</u>	56 04	1810 46	132 35	666 372	hyd.	
<u>Que</u>	56 03	1800 56	132 35	30 1008		

Legend

C.&N: marked by nail in cement

disk: marked by regular hydrographic disk mark

Cross: a cross chiseled in rock

hyd.: not marked, located fot hydrography

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic 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. 3657

State Alaska

General locality . . Etolin Island, Clarence Strait

Locality Southwest section of Etolin Island

Chief of party . C.G. Quillian

Surveyed by . . . Jack Senior

Date of survey . . August, September and October, 1916

Scale 1:20,000

Heights in feet above ordinary high water

Contour interval 100 . feet.

Inked by J. Senior Lettered by J. Senior

Records accompanying sheet (check those forwarded): Photographs,

✓ Descriptive report, Horizontal angle books, Field computations,

Planimeter positions.

Data from other sources affecting sheet

Remarks: