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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

Stat. *S. E. Alaska*

DESCRIPTIVE REPORT.

Top. Sheet No. *3281*

LOCALITY:

Prince of Wales Island - Coast Coast -
South Pt. to Stone Rock.

1912

CHIEF OF PARTY:

Hestdahl & Smith

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(1)
Descriptive report to accompany Topographic Sheet No. 1
Prince of Wales Island, Alaska.

Method of Work

3281

After triangulation stations were plotted on the sheet, beginning at A Orca a plane table traverse was carried to the southern limit of the sheet, position and orientation being checked by A Stone Rock. A number of points were whitewashed in McLean Arm before running the shore line so that a meridian was carried from A Orca to Olet at the head of the Arm in three right-eliminating a probable accumulation of error in azimuth. From A Orca a cut was made on CGor, a whitewashed mark placed at the north side of the entrance to Gardner Bay checking azimuth to this point. A traverse was carried from A Orca to Kendrick Bay, a sub-traverse being run into Gardner Bay. In Kendrick Bay cuts were made from A Head and A Brick to all signals in sight. After locating by cuts as many signals as could be seen, work in the Bay proceeded by traverse. From A Brick a traverse was carried north along the outer shore of the islands in the entrance to the bay and up along the shore of Prince of Wales Island to A Scott, sub-traverses being run into Hidden Bay and the small bay found a mile further south.

Shoreline

The shore is generally bold. Where the dotted low water line are shown there are ledges. Sand beaches are shown in their proper legend. In bays and arms the branches of trees extend over the water line, but on the outer coasts there is twenty or thirty feet of bare rock between the trees and the water line where wind and spray prevent the growth of vegetation. The shore is generally of granite but some marble is found about Sequah. But and Una on either side of the main channel into Kendrick Bay.

Contours

Cuts were made on hill tops and shoulders and elevations determined. Contours were sketched at interval of 100 feet. The ridge on the South and West sides of Gardner Bay is bare of trees as is the hill (elevation 2175) situated between South Arm and the main part of Kendrick Bay. In the north face of the latter hill is a large depression, the bottom of which is marshy ground draining into a small lake. The inner sides of this depression are thickly wooded.

The higher points South and Southwest of Short Arm are bare of trees and so is the northern shore.

of the twin peaks at the west edge of the sheet (Lat $54^{\circ}55'$), the southern one is thickly wooded. The rather flat top of the hill on which Aken is found is covered with a few scattered, scrubby trees and several small ponds. a small lake is reported where dotted contours are shown about a mile west of Gardner Bay between the rounded knoll (1175 ft. ele.) and the summit of the higher ridge.

General In

In the northern part of Kendrick Bay and West Arm are many submerged rocks. The shore north from Kendrick Bay is very foul.

The shores of Hidden Bay are rather lower than is found elsewhere on the sheet. There are several fresh water streams, perhaps the largest on the sheet, flowing into the head of the bay, but these are only large brooks. North of this bay most of the contours are dotted owing to fogs which generally obscured everything back of the first trees, revealing only an occasional glimpse of the hills further back. The outer part of this bay offers the best shelter for small boats found in this vicinity, but it would not be practicable for vessels of over a hundred tons on account of the rock which partly obstructs the narrow entrance.

(4)

In general the country is thickly covered with spruces, cedars, fir, and hemlocks, very little deciduous growth being found.

The sheet was photographed in two parts on 8"x10" plates, the negatives being retained on the sheet.

Respectfully submitted,

E. E. Smith,

Asst.

Plane table positions.

Topographic Sheet No. 1. (1)

Signal	Lat	D M	Long	DP	
					3281
Sot	54° 47'	36	131 57	874	White washed rock. Not recoverable.
Fert	54 47	841	131 57	362	" " " " "
low	54 47	1066	131 57	870	" " " " "
Mag	54 47	1138	131 58	741	" " " " "
Wash	54 47	1148	131 59	643	" " " " "
White	54 47	1120	132 00	862	" " " " "
Flag 1	54 47	1355	132 02	246	Flag on small tree. limbs cut away.
Point	54 48	543	132 03	453	Whitewashed rock. Not recoverable.
Nat 1	54 48	835	132 04	77	" " " " "
West	54 48	1257	132 04	690	" " N. side ledge. Recoverable.
Peg	54 48	1226	132 04	315	" " Not "
Camp	54 48	989	132 03	930	" " " "
Tent	54 48	1653	132 03	614	Top of tent " "
East	54 48	1232	132 03	122	White washed rock. " "
Nel 1	54 48	995	132 03	35	" " " "
Jag	54 48	852	132 02	1020	" " " "
Rag	54 48	532	132 02	681	" " " "
Hc	54 48	1142	132 02	547	" " " "
Bum 1	54 48	132	132 02	55	" " " "
Rect	54 47	1811	132 01	807	" " " "
Jim	54 47	1733	132 01	558	" " " "
Tur w	54 47	1591	132 01	212	Showing from East and West. Recoverable. White wash on tan. to N. side of arm.
Square	54 47	1621	132 01	92	White washed mark. Not recoverable.
Ben	54 47	1648	132 00	508	" " " "
Nid	54 47	1750	132 00	00	" " " "

Planetable positions. Topographic Sheet No. 1 (2)					
Signal	lat	DM	long	DP	
Bluff	5447	1728	13159	255	Whitewashed rock. Not recoverable
Broke	5447	1643	58	848	" " " "
Top 1	47	1749	58	542	" " " "
Tip	47	1822	57	1004	" " " "
Rock	47	1563	57	312	" highest pt. large rock in entrance Recoverable
Gor	49	1190	57	630	" rock. Not recoverable
Rat	50	1793	58	502	" " " "
Hay	51	553	59	179	" " " "
Out	51	1206	13159	1005	" " " "
ket	52	120	13200	950	" " " "
Pun	52	561	01	833	" " " "
Bay	51	1790	02	242	Skinned Sapling
So	51	652	02	635	Whitewashed rock. Not recoverable
Did	51	20	02	1014	" " " "
Up 1	50	1262	03	100	" " " "
No	50	792	03	304	" " " "
Rub	50	1310	03	456	" " " "
Cum	51	50	03	234	" " " "
Yel	51	561	03	08	" " " "
But	51	1447	02	756	" " " "
End	52	395	02	508	" " " "
Extra	52	127	03	125	" " " "
Bum	51	1408	03	612	" " " "
Tree	51	1119	04	136	large tree " "
Odd	52	33	03	749	Whitewashed rock " "

Plane table positions. Topographic Sheet No. 1. (3)					
Signal	Lat	DN	Long	DT	
New	54 52	441	132 03	420	White washed rock. Not recoverable.
Gas	52	632	02	915	" " " "
Reef	52	1054	01	227	Highest point on ledge. Recoverable.
Set	52	1304	02	583	Whitewashed rock. Not
Old	52	1705	702	764	" " " "
Egg	52	1479	03	454	" " " "
Kan	52	1675	03	637	" " " "
Bit	52	1275	04	44	" " " "
Cut	52	1613	04	197	" " " "
Ham	53	68	03	396	" " " "
Pot	53	407	03	538	" " " "
Gin	53	630	03	1010	" " " "
Cap	53	1170	04	544	" " " "
Wet	53	1232	05	206	" " " "
Go	53	1179	05	874	" " " "
Top R	53	1540	06	220	" " " "
Soy	53	1630	06	480	" " " "
Cod	54	116	06	173	" " " "
Bas	54	319	05	212	" " " "
Pic	53	1808	04	712	" " " "
Trot	53	1567	04	234	" " " "
Rox	53	658	03	397	" " " "
Tan	53	916	03	185	" " " "
Sen	53	1428	02	1870	" " " "

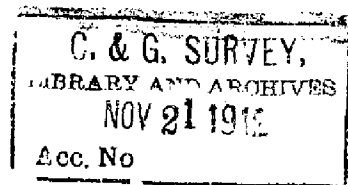
Planetable positions. Topographic Sheet No. 1. (4)

<u>Signal</u>	<u>Lat</u>	<u>Long</u>	<u>DT</u>	<u>DT</u>	
On	54 53	15 35	132 01	8 75	Whitewashed rock. Not Recoverable
Cab	54	46	132 00	10 53	" " " "
Nel 2	53	1330	131 59	10 13	" " " "
Nut	53	1448	59	2 82	" " " "
Nut	53	1835	131 58	5 84	" " " "
Shag	53	1370	132-00	7 35	" " " "
Pol	53	943	00	5 02	" " " "
Hid	53	527	01	1 3	" " " "
Hut	53	250	00	7 03	" " " "
Cat	53	228	132-01	4 91	" " " "
Woe	53	860	131-58	9 15	" " " "
Gun	53	1008	59	5 64	" " " "
Tum	53	607	58	9 35	" " " "
Wat	53	425	59	3 35	" " " "
Any	52	1735	59	4 02	" " " "
Can	52	1435	59	5 6	" " " "
Ked	52	1129	59	5 14	Pole in rock
Jay	53	205	59	10 36	Whitewashed rock. Not recoverable.
Riv	52	1700	59	6 05	" " " "
Una	52	22	131 59	14 1	" " " "
Fin	52	942	132 00	2 35	" " " "
Wog	54	1030	131 58	5 93	" " " "
Hal	55	361	58	4 25	" " " "
Nob	56	481	58	3 15	" " " "
Gall	56	471	58	1 10	" " " "

Planetable Positions. Topographic sheet No. 1. (5)

Signal	Lat	DM	Long	HP	
Flag 2	54° 56'	525	131° 58'	670	Small flag. Not recoverable
"D"	56	951	59	136	Whitewashed rock. " "
Pie	56	1130	59	513	" " " "
Tea	56	1050	131-59	975	" " " "
Up 2	56	1306	132-00	42	" " " "
By	56	486	00	596	" " " "
Nan 2	56	13	00	358	" "Top of ledge "
Pen	55	1624	01	337	" " Not. "
Peru	55	108	01	534	" " " "
117	56	188	132-01	213	" " " "
Nin	56	1135	131-58	102	Top of rock. Recoverable.
Tab	56	1843	58	98	" " " "

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Department of Commerce and Labor
Coast and Geodetic Survey

C. H. Tittmann, Superintendent.

Topographic Sheet No. X 3281.
Prince of Wales Island, Alaska.

Latitude $54^{\circ} 44'$ to latitude $54^{\circ} 58'$
Longitude $131^{\circ} 55'$ to longitude $132^{\circ} 09'$

Scale $\frac{1}{20,000}$

August and September, 1912

Topographers E. E. Smith Assistant

O. J. Bond Jr. Aid

G. C. Mattison "

Inked by E. E. Smith

Steamer Patterson

Ferdinand Westdahl, Assistant.

Chief of Party.