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Department of	Commerce	and	Labor
COAST AND	GEODETIC	surv	EY

OST Southmann Superintendent.

State: Alaska

# DESCRIPTIVE REPORT.

Top. Sheet No. 346

LOCALITY:

Shamaginel

1914

CHIEF OF PARTY:

11-4645 J. B. Miller

#### DEPARTMENT OF COMMERCE

Coast & Geodetic Survey,

O. H. Tittmann, Supt.

#### ALASKA PENINSULA, SHUMAGIN ISLANDS

#### KOROVIN ISLAND

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET I 3467
Surveyed by the Steamer PATTERSON, September & October 1914

# 1. REPORT, LIMITS, SCALE, METHODS, OBSERVER.

2.

I have the honor to report as follows upon topographic sheet I, which shows the topography of Korovin Island, Shumagin Islands, Southwest Alaska; as done by a party from the Steamer PATTERSON. The scale used was 1:20,000, and the planetable used exclusively in the work. The work was done by a party in charge of Leroy P. Raynor, Aid, C.& G. Survey. CONTROL. TRAVERSES. CONTOURS. HEIGHTS.

The traverses were all closed upon points located by triangulation with one exception and a proportional linear adjustment made. The greatest errors of closure were 40 meters in the traverse from A Gab to A Point, 20 meters in the one from \( \Delta \) Gab to \( \Delta \) Gro and 19 meters in the traverse from \( \Delta \) The rest of the traverses had errors of clos-Gab to A War. ure under 10 meters. The traverse from Gab to Has on the south side of Korovin could not be carried further around the point so the traverse was stopped at Has. As considerable care was taken in the handling of the instrument and short sights were taken it is the opinion of the observer that there is very little error in the traverse. In plotting distances in the field allowance was made for expansion or contraction of the sheet. As Many inland stations, as time permitted, were occupied to insure accuracy in the contours. All heights and elevations are above high water level. The greatest discrepancy between independent values of the same mountain was not over 10 feet. The contour interval is 50 ft.

3. GENERAL REMARKS, FORM OF LAND, MOUNTAINS, CHARACTER OF SHORE LINE, VEGETATION, ANIMAL LIFE.

In shape, the island of Korovin is quite irregular, with its greatest length east and west. On the northern side it is indented by two bays, Grosvold Bay and a smaller one to the east; while on the south is Korovin Bay and a smaller one to the east. The east shore line side is fairly regular with only a few slight indentations; while the west and northwest shore line is quite regular. The western half of the island is quite mountainous. The top of the mountains on this part of the island are broad and flat. From the south shore the ascent is steep but fairly even to the top; but the west side is cut up very irregularly by many valleys and ridges. highest peak on the island is at A Korovin which is 1816.5 ft. There is a wide low marsh in the center of the island extending across from north to south. In this marsh are several good sized fresh water lakes and a salt lagoon entering from Grosvold Bay. The large fresh water lake draining into Korovin Bay nearly meets this salt lagoon. The land rises evenly though steeply to the ridge west of the northern part of West of the southern part a large valley extends some distance to the west before rising steeply to the ridge surrounding it: east of the lowland the slopes while more gradual, are more irregular. A ridge running from the northeast corner of the island in a southerly direction slopes very steeply to the east coast at the northern end; and more gradually The west side has a gradual slope. Two at the southern end. peaks at the south end of this ridge stand out sharply from the lugher surrounding country. The southwestern one which is (lower is very sharp and jagged; while the other peak is somewhat flat, and has steep sides, especially on the east where it drops vertically for 400 feet: it may be mistaken for Cape Divine when seen from a distance. Cape Devine is precipitous, its highest point being 883 ft. high, and joined to the main island by a low narrow neck less than 75 ft. high: the east face is almost a sheer cliff, gray in color. The south beach of Korovin except on the western part is generally sandy and subject to much swell especially if the wind is south or east. The east shore has a moderate swell at all times and proves a difficult place to land when there is a strong easterly breeze. On the north and west coasts there is not much surf except with a strong anshore wind. The island is covered with grass except on the mountain tops where it is either too steep and rocky or too high for much vegatation to grow. Alders are scattered all over the island but are thicker on the western part. Nearer the streams they grow more abundantly and to a larger size than anywhere else being from five to eight feet tall. In other places especially at

high altitudes they are only from one to three feet high. A species of moss is found especially on hill tops and rocky Salmon-berries are abundant in season. numerous small birds on the island. Ptarmagin are plentiful. There are numerous saltwater ducks all round the island, while in the lakes, fresh water ducks are to be found. Small field mice are found on the island. There are numerous hawks and ravens, a few eagles, and many sparrows, while in the bays, gulls are plentiful. There are no game animals on the island. A few sea-lions were seen off the west coast. In nearly of the many streams on the island trout can be found in abundance. Silver salmon run into the large lake on the south side and into several of the large streams.

### 4. DETAILED DESCRIPTION OF SHORE: PROMINENT POINTS

Cape Devine forms the southeast point of Korovin Island. It is 883 ft. high, and has cliffs all round, connected to the island by a low neck of land. The shore line on all sides of the cape is foul with many rocks awash at low water, at distances from 10 to 100 meters from shore. South of the cape is a rock awash at low water 360 meters from shore. There is a moderate swell on the south and east shores of the cape at nearly all times. While the west side of it is exposed to a heavy surf when the wind blows strongly from the south or west. The shore is composed of rocks and bowlders on the south and east sides with the exception of a small strip of sand beach on the south; while the west side is pebbles and coarse shingle up to the head of the bay west of the point. The beach at the head of the bay, from the lake shown on the sheet to where it suddenly bends south-Beginning at the western end of this ward is wide and sandy. beach are grey cliffs 200 to 350 ft. high with slightly inclined strata showing plainly. The west shore of this bay is pebbly to within 300 meters of the point. ,Beyond here the cliffs rise nearly vertical from the water's edge and prevent passing along the shore. Off this shore are several pinnacles about 50 ft. high and other outlying rocks from 5 to 14 ft. high to a distance of 100 meters from shore. © Up is located on a broad topped rock 100 ft. high and 400 meters offshore. west side of the point is rocky and pebbly with steep rocky cliffs from 50 to 200 ft. high. These cliffs are highest near the end of the point. At the head of the small bight where O Tut is located, the shore is sandy with low bluffs about 20 ft. high, cut through by two good sized streams. The western stream has a narrow valley sloping gently far back into the interior of the island. West of it is a high rocky point impassible at high water. O Rol is a rock about 14 ft. high near the end of a rocky reef, bare at low water. The head of Korovin Bay extends west from here and the shore is wide and sandy. There are several rocky reefs with breakers at low water, extending out 200 to 400 meters from this shore. low bluffs backing the eastern half of this beach are rocky while those to the west are of fine black sand, and are from 20 to 60 ft. high.

Near the large lake shown at the head of this bay, a small two story wooden house owned by the Indians, shows plainly above the bluffs. The rest of the village of four or five houses is hidden from the sea by the bluffs in front. see across the island to the north from this point as the country between is very low. The west shore of Korovin Bay is composed of large rocks and boulders, with one good pebble beach at the southwestern-most stream. The cliffs rise nearly vertical to heights of 50 to 100 ft. so that one can pass along the shore only at low tide. Just off the pebble beach. 100 meters from shore is a rock 10 feet high between which and shore are several rocks awash at low water. Beyond the beack the cliffs have a sheer drop of 250 to 300 feet and one cannot pass here without a boat. There are several water-falls along Westward of Korovin Bay, the whole south shore this shore. Off the middle line is rocky with steep black cliffs behind. partsof this shore line is a large pinnacle rock 54 feet high accessible from shore only at low water. At several places the cliffs rise directly from the water's edge, so that one can not pass along the shore even at low tide. The south shore line runs in nearly a true east and west direction. west end, which is a black rocky point, the shore line turns to the northwest and runs in a fairly straight line as far as Henderson Island. This shore is made up of shingle beaches with several high rocky points impassable at high water. Back of this stretch of shore line, the topography is very regular, the country being cut up by many streams, with long crooked valleys extending far back into the island. These valleys have a gentle slope from the six or seven hundred foot elevation, above which the rise is much steeper. The streams are quite large, having a good sized drainage area. The valleys except for the one at the northern end of the stretch are narrow near the shore line but widen as they go inland. Henderson Island is a small island off the coast west coast of Korovin. It is about 500 meters long and 200 meters wide with its longer axis alying east and west. It is fairly level and its highest point is The shore is composed of shingle and bouldefs. 58 ft. high. Between Henderson Island and Korovin there is some kelp and at low water with a heavy swell there are breakers right across. And is located nearly on the center of this island. 880 M.from A And, and 650 meters from the shore of Korovin is a rock about 8 ft. high. At high tide only a small portion shows above water, but at low tide, rocks 10 to 20 meters on all sides of the highest point show above water level . Beyond Henderson the shore line rounds in a fairly regular line towards the north and east as far as the valley where O Fed is located. This shore except for a small portion of pebble beach at the south end, is composed of large irregular rocks and boulders. ridge running paralel to the coast rises gradually toward the northeast to an elevation of 600 feet. The cliffs facing the shore are very steep .

All along here are rocks awash at low water, 10 to 30 meters Back of O Fed is a small low valley with a very from shore. gentle slope to the low divide separating it from the valley seen from the shore near Henderson Island. Off the point at the west end of this valley is a reef, bare at low water, the end of which is 120 meters from shore. N 56° E and 270 M from @ Fed is a rock awash at low water 100 meters from shore. From this valley the shore line runs in a very regular line a little to the north of east for about a mile where another val-Between the valleys ley with a good pebble beack is reached. the shore is composed of large boulders and rocks, while back of the shore, the cliffs rise very steeply about 400 feet. valley runs towards the southeast for a short distance , and then turns abruptly at right angles and runs with a very gentle slope for a mile or more to the southwest . Its sides are very steep and from the shore a large waterfall may be seen. this valley, the shore line continues to run in a direction a little north of east, and is quite regular to a point about one and one-half meters beyond the valley. This shore is composed of large rocks and boulders, with steep cliffs over 400 ft. high. Beyond here the shore has a fairly regular trend, a little south At the west end of this stretch is a of east to Grosvold Bay. small open bay at the mouth of a narrow ravine, offering protection to small boats except from a north wind. There is a pebble beach at the head of this bay. A short distance east of this bay is a good sized waterfall dropping vertically 33 feet. There is a pebble beach for a short distance on each side of this fall. With the exception of the valley and fall, the cliffs are very At several places steep and rise to a height of 400 to 500 feet. here it is impossible to pass along the shore except at low water. Grosvold Bay is the name given to the larger of the two bays on the north side of Korovin. At the northwest side of this bay is a high rocky point about 300 feet high with vertical sides. narrow neck 50 feet high connects it to the island. The west shore of the bay has a shingle and boulder beach. Back of the shore line is a steep rise to the ridge on the west. head of the bay is a pebble and sand beach. A long lagoon, nearly dry at low tides, extends southwest more than half way across the island. East of this lagoon there are sand bluffs There are several from 20 to 60 ft. high back of the beach. rocky reefs along this shore extending out several hundred meters. A low point 200 feet high separates Grosvold Bay from The sides of this point are of black another bay east of it. rock and so steep and close to the water that one cannot pass Off the end of the point, along here except at low water. which is here 192 feet high, are several rocks awash at low water 50 meters from shore. Aththe head of the bay just east of Grosvold Bay is a sand beach backed by pebbles, behind which is a good sized fresh water lake. There is much drift-wood Outside of the sand beach and bare at found on this beach. very low water, are many sharp rocks. From the head of this bay the shore line extends in almost a straight line to the

northeast point of Korovin Island. The shore line is rocky and foul with rocks awash at low water to a distance of 40 meters from shore. The cliffs, which are black in color and rise steeply from the shore, vary in height from 20 ft. at near the head to 200 ft, near the point. Back of the cliffs there is a gradual rise to the ridge behind. several vertical waterfalls along here, about one hundred feet At the northeast point of Korovin is a large bell shaped pinnacle 91 feet high. East of the pinnacle is a rocky reef, bare at low water extending out 120 meters beyond the pinnacle. From this pinnacle to @ Mart which is a large flat topped rock, 55 ft. high, and accessible from shore at low water, the shore line is fairly regular, with beaches ranging from large boulders to fine sand. The cliffs rise abruptly from the shore line on the northern part of this stretch Mear the middle is one small valley; while on the southern part the ascent is much less steep. 200 M. offoMart are rocks awash at low water. From here to O Way which is at the head of a small bay suitable for a small boat, the cliffs are steep and about 100 feet high. From this bay, there are cliffs, black in color, and from 50 to 70 feet high, rising vertically from the water's edge, as far as the head of the bay just east of the narrow neck of land connecting with Cape Devine. shore is sandy and the country inland quite low. Beyond here is Cape Devine which has already been described.

5. <u>SETTLEMENTS: WHITE, NATIVE, RESOURCES: MINING, FISHING, FARMING, COMMERCE.</u>

There are no white settlements and but one Indian settlement on this island. This is situated on the south shore of the island and just east of the mouth of the large fresh water lake. It consists of five houses and a church. At present a family of five are occupying two of the houses. Only one of the houses is visible from sea, the rest being hidden by the bluffs in front. Besides this settlement, there is one small house at the head of Grosvold Bay, used as a fishing camp. Enough salmon are caught by the natives for their own use. There is no farming, mining, or trade.

6. GEOGRAPHIC NAMES.

Below is given a list of the few geographical names available:

Cape Devine.

Grosvold Bay.

Henderson Island.

Korovin Bay.

Korovin Strait.

Gorman Strait.

Scotland Point

## 7. MAGNETIC DECLINATION.

The magnetic declination was carefully determined with the table in orientation at station And on Henderson Island and found to be N 16°4! E.

Respectfully submitted,

Leros PRaynor

APPROVED:

Aid, C.& G. Survey.

Assistant, C.& G. Survey, Commanding.

Kodiak, Alaska,

October 26, 1914.

SHEET I
PLANE TABLE POSITIONS

Positions	Elev.	Lat.	D.M.	Adjust	Long.	D.P.	Adjusted	Remarks.	
	20	.biida	M. 1105	1107	160°12!	1045	1044	East of house	
Ape	1	33 20	747	748	100 14.	11	11-	Head Grosvold Bay	
log pile & f.	20 20	55 26	815	816	160 12	115	115	Near stream	
stick in bar	1	30 20	1037	1039	100 10	942	940	east side of bay	
	12	55 26	1441	1442	160 11	774	772	black rock pt.	
www.rock & po		33 20	412	413	100.11	284	283	east side bay	
Dad	10	55 27	469	470	160 10	924	922	green top	-
w.w.rock			1382	1383		134	133	rock on pt.	
Edna	20	55 27	273	274	160 10	706	705	n.w.pt. of bay	
sharp pt.rock		33 2,	1578	1581	100 10	350	350		
Fun	± 50	55 26	1651	1654	160 10	929	928	top bluff 🌿	
tripod			200	201		127	127	side bay	
Gap	25	55 26	960	960	160 10	880	882	log pile head	
pole & cairn			895	895		173	173	of bay	
Hulà	35 <sup>±</sup>	55 26	1160	1160	160 10	189	189	top blugf near	
cairn & pole			695	695		864	866	stream	
Imp	23	55 26	1466	1468	160 09	799	799	on large black	
cairn & pole	1 .		387	387		<b>2</b> 56	256	rock on shore	
Jen -		55 26	1587	1590	160 09	546	545	4 ft. above	
vert.waterfal	ιii	h	264	265	-	510	510	ground	
Jam		55 26	1770	1773	160 09	416	415	large top heavy	
pole on grass	1	11	82	82		640	640	bl.rock on point	
Kess	12	55 27	120	120	160 08	***	1019	₩.₩.	
p & cairn				1735		36	36	rocky point	
Let		55 27	166	166	160 08		776	4 ft above	:
	<b>.</b>			1689		279	279	ground	:
·	\ <b>T</b>		l			•		5	•
"Vin	¥ 91	55 27	1	152.8	160 08		119.3	w.e.point Korovin	
bell shaped p	innac	le		1702.8			935.3	Island	
Nag	12	55 26	1594	1600	160 08	422	423	in small bay	
w:w/cross & c	airn		253	255		630	632	south of vin	~
Oat	56	55 26	974	978	160_08~	<b>~</b> 500	502	50 m. off	.44
pinnacle			873	677		551	553	shore	
$0_{ extbf{r}}$	12	55 26	801	805	160 08	677	675	on rock on	
w.w.pole & Ca	1 1		1045	1050	i	381	381	shore	
Pres	35	55 26	251	253	160 08	1013	1012	sharp point off	
w.w.ple & fla			1595	1602		44	44	black rock	
Quiz	40	55 25	1484	1483	160 09	141	141	top low grass	
pole & flag			372	372		913	915	covered point	
Rap	12	55 25	933	931	160 09	440	443	rock on sand	
pole & flag	1_1		925	924		610	613	beach near high bluff	
Sat	14	55 25	802	<u>_</u> 802	160 09	461	462	3 ft above	
waterfall		55.05	1054	1058	300 00	593	594	ground	•
To	.)	55 25	90	90	160 09	356	356	higher of 2	
w.W.rock & ca	1 1	ec 04	1764	1765	160.00	690	690 97.3	lg.rocks by stream	
Marts	55	55 24	17.4	1734.3	160 09	۸٠٠	7. 11	east coast	
cap rock		055 04	7000	121.2	300.00	204	958.7	Korovin	
Urn	55	55 24	1000	1000	160 09	204	206	f 5 ft from	
waterfall			854	855		845	850	ground	-
્રેલ \$1. 1 a = 41 = 1. 1.	امید امس								
" located b	y tri	angulat	ion.						
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Stations Elev.	Lat.	D.M.	Adjust.	Long.	D.P.	Adjusted M.	Remarks .
Vex oo	55 2	4 933	935	160°09'	112	113	
small fall		919	920		936	943	•
Wag	55 2	4 372	372 1483	160 08	1044 12	1044 12	In small bay much drift wood
log pile	55.3	1483		160.00	1		
Was 96 pinnacle	55 2	4 677	674 1181	160 08	900 156	900 156	highest of several
	55 2		287	160 08	694	693	top of
cairn & pole nea	II	1574	1568	100 00	363	363	bluff
Yap	55 2		58	160 08	769	769	top rocky
cairn & pole		1803	1797		287	287	bluff
Zest	55 2	3 1685	1684	160 08	1040	1036	top rocky
cairn & pole	)	171	171		20	20	bluff
Hum	55 2		1433	160 09	140	141	cliff south
cairn & pole		422	422	100.00	913	915	of sm. str.
Got	55 2	1	971	160 09	6	6	south of
w.w.cairn & pole Fis	on pt 55 2	884 667	884 667	160 08	1049 704	1050 703	sand beach foot
w.w.cairn & pole	13	988	988	7 100 00	353	353	rk. slide
Et	55 2		269	160 08	693	693	high rock
w.w.cairn on rocl	11	1588	1586	200 00	363	343	on shore
Dur	55 2		17	160 08	809	810	
water fall		1838	1838		244	246	
Con	55 2	_	1348	160 08	934	935	-
offlying rock w.v		507	507	_	120	121	
Bus	55 2	1	1364	160 09	519	520	. on shore
nnacle	E .	495	491	360 30	534	536	
Ask	55 2	2   1580 275	1582 273	160 10	130 929	129 927	
rock end of point "And 58	11		456.7	160 21	929	408.8	
on Henderson Isla	11	, =	1398.7			646.7	
Kid	55 2	5 172	172	160 20	649	647.1	back of
pole & cairn		1685	1683		410	409	pebble beach
Bog	55 24	1272	1270	160 20	365	365	
low Waterfall		585	585	_	692	691	•
Cus   56	55 24		546	160 19	852	852	on shore
white faced rock		1313	1309	100 70	204	204	
Cat	55 23	1	1456	160 19	375	37 <u>4</u> 682	
grey rock on shor		400	399	160 19	683 182	182	easterly
Dot w.w.on point	55 23	1285 576	1281 574	100 19	876	.874	of 2 points
Es Point	55 23		1361	160 18	634	635	F
W.W.		494	494		420	421	
Fus 51	55 23	1	12967	160 18		18,7	•
Tower rock			558.8	_		1037.4	
	55 23		1576	160 17	330	329	
W.W.		278	279	300 03	728	727	anudi an
Bad	55 24	<b>I</b>	1485	160 21	91	92	south of
highest pt rocks	ee 0-	366	370	160 30	961	964	Henderson
Has	55 23	E .	1477	160 16	907	917	
w.w.offlying rock		376	378	160 16	136	139	
Ilk		T 1763 81	1773 82	160 16	652 397	656 400	
w.w.offlying rock	55 24		452	160 16	374	377	
Lap		į.	1	100 10		li.	
w.w.	ه ه م ∃رس	1397	1403		673	679	
Tocated by ceran	gurat]	.011.		]]			

- j	ev.	Lat.	D.M.	Adjust				<u>_</u>
	ft.	C - 00 4 4	M	M.	Long.	D.P.	Adjusted	Remarks.
Mike		55°24'		716	160 9161	271 777	273 783	
W.W.		65 24	1133	1139 1196	160 16		159	
Nit		55 24	1188 655	,	100 10	157 890	897	
W.W.	116	55 24	1225	659 1232	160 16	230	233	
Nip waterfall	110	35 44	621	623	100 10	817	823	
Maccilani 	ĺ	55 24	1752	1757	160 15	484	490	:
w.w.rock on	shore	1	97	98	100 10	560	566	•
Qua	31101 0	55 24	1762	1772	160 14	525	530	•
w.w.rock on	shore	11	82	83		522	526	
Rol		55 24	1200	1208	160 13	1035	1048	
w.w.pin offs	hore		644	647		07	08	
Sot		55 24	985	987	160 13	561	568	
w.w.		ĺ	866	868		482	488	-
Tut		55 24	951	955	160 12	893	900	
w.w.	ļ		897	900		153	156	
Ūp	ļ	55 23	1683	1693	160 13	99	101	
w.w.offlying			160	162		940	955	
Point	49	55 23			160 12	!	217.1	sharpest of
pinnacle	,	65.0-		987.7		. F. T.	839.1	several
Sharp	42	55 23	984	991	160 12	310	314	
pinnacle Vim		55 23	857	864	160 12	735 52	742 53	
		აე 43	1344 495	1355 500	100 12	996	1003	
W. ₩.		55 24	136	137	160 11	990 891	900	• • •
<b>U</b>		00 A4	1716	1718	100 11	154	156	
w.w.; Kon		55 24	158	159	160 11	00	00	small rock
w.w.near str	eam		1692	1696		1043	1056	pillar
Yam		55 23	1730	1739	160 10	250	253	below vertical
w.w.			114	116	-	796	803	grey cliff
Zap		55 23	580	584	160 09	972	984	<u> </u>
www.on point	}}		1263	1271		70	72	
Lat		55 25	437	441	160 20	865	873	
oole & cairn		_	1403	1414		178	183	
la _	-	55 25	750	756	160 20	885	891	
v.w.& pole	#		1092	1099		163	165	
lot	1	55 25	1100	1109	160 20	850	854	on sloping
w.w.& pole		EE 20	738	746	160 00	200	202	rocky point
irm		55 25	1396	1408	160 20	720	723	
oole & cairn But		55 26	442	447	160 20	332 510	333 513	on rock on
Sairn & pole	W. 97.	JJ 20	1850	1855	100 20	539	543	shore -
Cap		55 26	380	381	160 20	187	189	foot of
v.m. cairn & r	,,,		1470	1474		860	867	rock slide
Da T		55 26	638	63 <b>9</b>	160 19	1011	1020	on rock
w cairn &	ole		1213	1216		35	36	on shore
ilk <u>.</u>	. [	55 26	983	<sup>-</sup> 988	160 19	725	732	on rock
vew cairn & p	. 11	'	862	867		320	324	on shore
rar	1 2	55 26	1285	1292	160 19	565	572	on rock
v.w.cairn &			560	563		477	483	on shore
ed		55 26	1551		160 19	237	239	foot of
ole & cairn		F	300	301		808	816	small valley
Jun	5	55 27	02	02	160118	660	665	
***.cairn on	pt.		1850	1853		385	390	
located by	riang	ulation	•					

_ Stations	Elev.	)) Test	D W	1.044.04	Ton-		833	Dama 1
3 tations	ft.	Lat:	D.M. M.	Adjust	Long	D.P. M	Adjusted	Remarks.
Нор		55 °27	107	108	160°18'	197	199	near small
			1742	1747		851	856	high fall
If pole in sod	50 <sup>±</sup>	55 27	336 1516	33,7 1518	160 17	923 118	9 <b>3</b> 4 121	on pt. west
Jug	PITO	55 27	389	390	160 17	694	701	of small bay
w.cairn &	pole		1460	1465		350	354	small bay
Tos		55 24	381	383	160 12	705	711	4 ft above
waterfall Knob	20 <sup>f</sup>	55 27	1467 606	1472 608	160 17	340 582	344	ground
	pole	33 21	1243	1247	790 TI	458	590 465	foot of rock slide
Lass	17±	55 27	812	814	160 17	273	276	west tip
w.w.top rock			1039	1041		772	.779	rock awash when
Mit W.W.cairn	25 ±	55 27	1164 680	1172 683	160 16	743	746	foot large
Nap	15±	55 27	1396	1403	<b>1</b> 60 16	307 382	309 38 <b>4</b>	rock slide
w.w.cairn &	pole		450	452	100 10	668	671	
Off	·	55 27	1670	1680	160 15	863	869	2 ft above
waterfall Port		55 27	174 1615	175 1627	360 36	183	186	ground
small cairn	on re	ļ	226	228	160 15	622 423	628 427	•
Quit		55 27	1254	1265	160 15	397	400	west side
log pile in	bay		588	590		650	655	of stream
Rum	il	55 27	1415	1426	160 15	62	63	point east
war & pole	]]	55 27	425	429	160 14	981	992 598.2	of bay 1 mile west
vert-waterfa	11			706.3	100 14		456.2	of lg. bay
Fen	- 11	55 27	1105	1111	160 13	1026	1041	on rock
cairn & pole		EE 27	740	744	300 15	13	14	on shore
cairn & pole		55 27	1053 791	1059 795	160 13	191 850	194 861	on rook foot slide
Dot	}}	55 -27	789	796	160 12	807	813	n.w. shore
highest rk.o.	ff pt		1052	1059		240	242	Grosvold Bay
Cop pole & cairn		55 27	317 1529		160 13	418	424	rock on shore
Ben		55 26	1731	1536 1744	160 13	624 481	631 490	near small
pole & cairn				111	100 10	557	565	lake
"Gro	.	55 27			160 10		780.9	
pole on poin				1405.8			273.6	
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W 7000403 V-	4	ا د د د دس.					-	•
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