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Selenie

Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: SW Alaska

11-5613

DESCRIPTIVE REPORT.

Hydrog. Sheet No. 4069

LOCALITY:

Alaska Peninsula

Pavlof Bay - C. Tolstoi to Canoe Bay

1924

CHIEF OF PARTY:

R.R. Lukens -

DESCRIPTIVE REPORT 4069

TOPOGRAPHIC SHEET "H" EAST SIDE PAVLOF BAY

U.S.C.&G.S.S. PIONEER 1924

R. R. LUKENS Cmmdg.

SCALE AND LIMITS OF SHEET: This sheet is a standard topographic sheet, 30 x 52 inches. The scale is 1 to 20,000. It includes the unbroken shoreline from Cape Tolstoi, the southern limit to a Trap, at the entrance to Canoe Bay, the northern limit; together with the adjacent topography extending from four to five miles back from the shoreline.

COAST LINE AND GENERAL DESCRIPTION: Cape Tolstoi is a prominent headland that marks the entrance to Pavlof Bay from the eastward. A large rocky peak rises to the elevation of (1815) feet, while along the high water line there are vertical rock cliffs 200 to 400 feet high. Between this peak and the next peak to the eastward there is a deep valley that extends across the cape, the divide being only (300) above sea level. Hence the peak on the point makes a readily recognized landmark. At the point of Cape Tolstoi there are two pinnacle rocks approximately 50 feet high; one connected to the cliff at the base and the other lying 10 meters off shore. These are readily seen from the usual course of vessels passing or entering the Bay. The area just off shore, for 100 to 200 meters, as evidenced by numerous rocks and reefs showing at low water, is generally foul.

From Cape Tolstoi northward a bluff from 40 to 60 feet high extends along the shoreline. There are numerous rocky points and small bights, though in general the shoreline is straight as far as Settlement Point. The face of the bluff, nearly vertical, follows the high water line very closely, receding at places for 20 or 30 meters. It is grassed over for the most part though there are many places where it is a bare rock cliff, and in a few instances eroded soil. Immediately back from and parallel with the shoreline is a low range of hills, with the higher ridges two or three miles back. A large stream, threading the valley which cuts across Cape Tolstoi, and draining the surrounding hills, breaks thru the bluff about two miles north of the pinnacle rocks. The area for 100 to 200 meters off shore is foul in general, many reefs extending across the bights and off the points. Settlement Point is a flat point extending one half mile westward from the general shoreline. It is 40 to 50 feet high at the shoreline which is formed by rock cliffs and steep grassy bluffs. On the south side the point forms a bight where small boats could anchor or tie up at a dolphin with protection from the northwest. This is not advisable, however, as the area is foul; one large reef which bares at low water, lying 400 meters to the south of the point. Another rock lies about 200 meters to the north of the point. There is a stretch of gravel beach along the north side of this point about 400 meters long. The general appearance of this point, as seen from the north and south, is two bluffs, rising gently from seaward and falling off vertically, and from these directions it forms a prominent landmark. The higher of these two bluffs, that farthest inshore, is the location of a Lof.

T-4069

Northward from Settlement Point the shoreline is nearly straight to A Trap. A bluff varying from 40 to 70 feet in height follows the high water line very closely, receding and falling away at the two large streams, which both drain extensive valleys. This bluff is largely grassed over, though there are occasional rocky cliffs and eroded places. There are a few small rocky points also, and a gravel beach extends along practically this entire section.

The contour back from the shoreline forms two large ridges, more or less parallel, running in a south-easterly direction. The higher of these is 1960 feet in elevation at the north end and rises to 2100 feet at the south. From off shore this appears as a straight, flat ridge and is the largest in the vicinity. The other, 1520 feet high on the north end runs back beyond the limits of the sheet.

Between these ridges, and to the southward of the larger one there are flat grassy valleys, each of which is drained by one of the two large streams mentioned. Each watershed drained is about 10 to 15 square miles in area.

About two miles south from A Trap, which is on a low grassy hill, there is a sharp lone peak 1250 feet high, which is visible from all over the head of the Bay. This can also be seen from Cance Bay and is a prominent landmark.

1280 ft  
(see top sheet)

The area immediately off shore is foul and shoals extend out for some distance (see hyd. sheet K). There are two fish traps here, one located 350 meters south of A Trap and the other 350 meters west from A Lof.

The landmarks of prominence are described in the general description of the coastline, and are located as follows:

	Lat.	o	'	m	Long.	o	'	m
Cape Tolstoi, a large rocky hill	55	22		1900	161	30		0
Pinnacle Rocks, 50 feet high	55	22		1365	161	30		940
Settlement Point, sharp cliff	55	29		1050	161	28		230
Large flat ridge, north end peak,	55	29		630	161	23		770
Sharp lone hill, farthest north,	55	33		20	161	20		360
Mouth of large stream,	55	24		1670	161	29		170
" " " "	55	29		1690	161	28		0
" " " "	55	32		1100	161	24		900
Fish Trap,	55	29		1160	161	28		610
" " " "	55	35		410	161	21		930

NEW PLACE NAMES: Settlement Point is the well established local name for this point.

CHARACTER OF SOIL AND VEGETATION: The soil all along this shoreline, above the top of the bluff, is black sand, which supports a heavy growth of grass and various kinds of moss. At the eroded bluffs a brown loam appears. The rocky cliff appears to be of an igneous nature.

TIDE GAUGE: A tide gauge was operated at a dolphin off Settlement Point. Latitude 55° 29' 1700m, Longitude 161° 28' 380 m.

Respectfully Submitted,

Chester L. Nyman

*Chester L. Nyman*

*approved  
R. R. Lusk  
Commander*

# U.S.C. & G.S.S. PIONEER

R.R. LUKENS  
Chief of Party

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## PAVLOF BAY

List of Distances on Meridians and Distances on Parallels.

TOPOGRAPHIC SHEET NO. \_\_\_\_\_ EAST SIDE OF PAVLOF BAY.  
South from  $\Delta$  TRAP

NO.	NAME	o	'	"	(METERS)	o	'	"	(METERS)	NOTES
$\Delta$ TRAP										
1	Barn	55	35	300	1556	161	21	958	93	Driftwood, W.C.
2	Nay	55	34	1473	383	161	22	162	890	" " "
3	Jig	55	34	848	1008	161	22	485	567	W.W. on rock.
4	Mut	55	34	420	1436	161	22	915	137	W.W. on Rocky Point
5	Has	55	34	170	1686	161	23	119	933	W.W. on rocks
$\Delta$ IRON										
6	Tec	55	33	1352	504	161	23	790	262	W.W. on Rock
7	Pro	55	33	1058	798	161	24	16	1040	W.W. on Rocky Point
8	Horn	55	33	880	976	161	24	18	1028	large grey boulder
9	Drum	55	33	518	1338	161	24	312	740	W.W. on Rocky Point
10	Bif	55	32	1518	338	161	24	716	336	Driftwood
11	Slim	55	32	1063	793	161	24	970	82	"
12	Fat	55	32	400	1456	161	25	120	932	W.W. on Rock
$\Delta$ POLE										
13	Law	55	31	1654	202	161	25	503	550	W.W. on Rocky Point
14	Bum	55	31	950	906	161	25	688	365	Driftwood, R.C.
$\Delta$ BARE										
15	Cot	55	30	1713	143	161	26	654	399	W.W. on Rock
16	Tip	55	30	1450	406	161	26	882	171	" " " "
17	DO	55	30	1067	789	161	27	162	891	Driftwood, W.C.
18	Crim	55	30	718	1138	161	27	388	665	" R.C.
19	Pint	55	29	1698	158	161	28	108	945	W.W. on Rocky Point
20	Bum	55	29	1204	652	161	28	578	476	W.W. on Rock
Tide Gauge										
Location		55	29	1710	146	161	28	377	676	On Dolphin
$\Delta$ LOF										
21	Nab	55	29	983	873	161	28	984	70	Peak of Mound
22	Man	55	29	866	990	161	29	31	1023	W.W. on Rock Cliff
23	Pal	55	29	670	1186	161	29	495	559	do

Sheet 2

NO.	NAME	o	'	"	(METERS)	o	'	"	(METERS)	NOTES
▲ LOP										
24	Si	55	29	583	11273	161	29	544	510	W.W.on Rock Cliff
25	No Name	55	29	471	1385	161	29	195	859	W.W.on Rocky Point
26	Pol	55	29	350	1506	161	28	994	60	Dolphin
27	Dice	55	29	250	1606	161	28	390	664	W.W.on Rock Cliff
28	Pam	55	28	1704	152	161	28	425	629	W.W.on Rock Cliff
29	Can	55	28	1231	625	161	28	476	578	W.W.on Rock
30	Ho	55	28	1150	706	161	28	628	426	W.W.on Rocky Cliff
31	Mag	55	28	975	881	161	28	721	333	W.W.on Rocky Point
32	Wood	55	28	680	1176	161	28	637	417	W.W.on Rocky Cliff
33	Vim	55	28	263	1593	161	28	447	607	W.W.on Rock
34	Sax	55	27	1693	163	161	28	448	606	W.W.on Rocky Point
35	Yel	55	27	1335	521	161	28	394	660	Large Yellow Rock
36	Crick	55	27	992	864	161	28	609	445	W.W.on Rock
37	Bank	55	27	840	1016	161	28	795	259	W.W.on Rocky Point
38	Rum	55	27	388	1468	161	28	786	269	W.W.on Rock
39	Pin	55	26	1804	52	161	28	960	95	W.W.on Pin. Rock
40	Ted	55	26	1337	519	161	28	717	338	W.W.on Pin. Rock
41	Ray	55	26	675	1181	161	28	797	258	W.W.on Rock
42	Item	55	26	280	1576	161	28	882	173	W.W.on Rock
43	Cal	55	26	71	1785	161	28	951	104	W.Washed stump
44	Nan	55	25	1486	370	161	28	1006	49	W.W.on Rock

▲ GRAVE

45	<del>Cat</del>	<del>55</del>	<del>25</del>			<del>161</del>	<del>28</del>			
46	Mike	55	25	540	1316	161	29	17	1038	W.W.on Rocky Point
47	Obo	55	25	260	1596	161	28	986	69	W.W.on Rock
48	Red	55	25	49	1807	161	29	11	1044	W.W.on Rock
49	Ham	55	24	1596	260	161	29	234	822	W.W.on Rock
50	Point	55	24	1102	754	161	29	595	461	W.W.on Rocky Point
51	Go	55	24	594	1262	161	29	593	463	W.W.on Rocky Point
52	Fox	55	24	236	1620	161	29	697	359	W.W.on Rocky Point
53	Easy	55	23	1703	153	161	29	875	181	W.W.on Rock
54	Dog	55	23	1433	423	161	30	100	956	W.W.on Rock
55	Cast	55	23	1170	686	161	30	400	656	W.W.on Rocky Point
56	Boy	55	23	933	923	161	30	544	512	W.W.on Rock
57	Able	55	23	648	1208	161	30	820	236	W.W.on Rocky Point

▲ KNOLL

58	Fold	55	22	1722	134	161	30	866	1191	W.W.on Rock
59	Cank	55	23	1387	469	161	30	953	104	W.W.on Pinn. Rock
60	Lin	55	22	1064	792	161	30	847	210	W.W.on Rock
61	Fran	55	22	462	394	161	30	659	398	W.W.on Rock
62	Ice	55	22	22	1834	161	30	483	574	W.W.on Rock
63	Wig	55	21	1378	478	161	30	105	952	W.W.on Rock
64	Cork	55	21	1380	476	161	29	520	537	W.W.on Rock
65	Shel	55	21	1102	754	161	29	437	620	W.W.on Rocky Point
66	Last	55	21	1237	619	161	29	130	927	Driftwood, W.C.



ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 24, 1925.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4069

Cape Tolstoi to Canoe Bay, Alaska Peninsula

Surveyed in 1924

Instructions dated February 8, 1924.

Chief of Party, R. R. Lukens.

Surveyed by C. L. Nyman.

- ✓ 1. The records as well as the plan of the survey conform to the General Instructions. ~~except that elevations should have been based on m.s.l. instead of m.h.w. (See par. 154 of G. I.)~~
- ✓ 2. The plan and extent of the survey satisfy the specific instructions.
- ✓ 3. The junction with the adjacent work is satisfactory.
- ✓ 4. No further work is required within the limits of the sheet.
5. The character and scope of the surveying and field drafting are excellent. ✓
6. Reviewed by E. P. Ellis, March, 1925.

*A well balanced, logically form-  
lined sheet, particularly on slopes shapes.*

*Approved -*

*A. L. S.*

*J. J. S.*

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. (H) 4069

State . . . . . Southwest  
~~Southwestern~~ Alaska

General locality . . . . . Alaska Peninsula  
Pavlof Bay

Locality . . . . . ~~East side,~~ Cape Tolstoi to ~~Sta. "Trap"~~ <sup>Cape Bay</sup>

Chief of party . . . . . R. R. Lukens

Surveyed by . . . . . C. L. Nyman

Date of survey . . . . . August - September 1924

Scale . . . . . 1 : 20,000

Heights in feet above . . . . . Average High Water

Contour interval . 100 . feet.

Inked by . . . C.L.N. . . Lettered by . . C.L.N.

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, ☒ Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

List of D. M. and D. P. . . . . List of Landmarks for Charts.

Remarks: This is Sheet #H