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U. S. COAST AND GEODETIC SURVEY
L. P. S.
1924

4064

Form 501
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Southwest Alaska
11-5613

DESCRIPTIVE REPORT.

Topog. Sheet No. 4064

LOCALITY:

Pavlov Bay

Arch Pt. to Black Pt.

1924

CHIEF OF PARTY:

R. R. Lukens

DESCRIPTIVE REPORT

TOPOGRAPHIC SHEET "E" - WEST SIDE PAVLOF BAY

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

1924

R. R. LUKENS, Cmdg.

SCALE AND LIMITS OF SHEET: This sheet is a standard topographic sheet, 30 by 52 inches. The scale is 1:20,000. It includes the shoreline from Δ End, the southern limit, to Δ Pav, the northern limit. Δ Bluff and the topography northward are offset five minutes of longitude, as part of the shore line would have fallen off the sheet otherwise.

COAST LINE, GENERAL DESCRIPTION: Δ End is on a low grassy knoll about one mile north of the light on Arch Point. From this station northward the shore line runs about a mile to a long sand spit which marks the entrance to a large lagoon. West of this entrance, about one half mile distant, is a vertical cliff, 150 feet high, extending about a half mile parallel with the shore line. This forms a distinctive land mark which can be seen from all directions. Northward from the entrance to the lagoon, a sandy beach curves to the northeast as far as Δ Dune, which is on a small dune at the mouth of a large brook.

From Δ Dune the shore line is nearly straight to Δ Pav, the northern limit of the sheet. There are, however, many brooks and creeks entering the bay along this section. These appear to be glacial streams, most of which drain broad coulees extending back from the beach toward the mountain slopes. The area immediately back from the shore line is nearly level and consists of grassy flats, cut by the numerous coulees and occasional mud flats. About one and one half miles north of Δ Dune is a large stream which drains an extensive mud flat and a shallow pond near the shore. This pond and the mouth of the stream are formed by a narrow sand spit about one mile in length.

At Δ Bluff, which is located on a small rocky mound, there are a few low hills immediately back from the shore line, which are covered with alder bushes.

To the northwest of Δ Pav a large butte rises sharply to an elevation of 95 feet. This butte is flat on top and runs back to the foot of the volcano. The sides are steep slides of volcanic ash, void of all vegetation. From the north or south this butte forms an excellent landmark and is readily seen when entering the bay.

The two large mountains, Pavlof Volcano and West Peak, fall on the sheet but are too far from the shore line for form lines to be attempted. They do, however, make a distinguishing landmark, visible for many miles.

CHARACTER OF SOIL: The soil all along the side of the bay is black sand and volcanic ash. From Δ Bluff northward the ash predominates to a marked degree and extends, strewn with large boulders, back to the mountains. Here the grass grows near the shore only, and the entire area presents a black desolate waste. South from

^e
 ▲ Bluff the vegetation is supported to a greater width, extending back to the mountain slopes. At various places along the beach, north of ▲ Bluff, crude oil appeared on the sand.

LIST OF LANDMARKS: The landmarks visible an appreciable distance are as follows:-

High Rock Cliff	Lat	55°	14'	30"	Long.	161°	53'	40"
Large Butte		55	25	25		161	44	05
Pavlof Volcano		55	25	08		161	53	36
West Peak		55	24	05		161	54	41

Respectfully Submitted,

Chester L. Nyman

Chester L. Nyman

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

R. R. DUKENS
Chief of Party

PAVLOF BAY

List of Distances on Meridians and Distances on Parallels.

TOPOGRAPHIC SHEET NO. _____ WEST SIDE OF PAVLOF BAY.

NO.	NAME	LATITUDE				LONGITUDE			
		°	'	"	(METERS)	°	'	"	(METERS)
1	Jak	55	24	615	1240	161	41	406	650
2	Har	55	24	128	1727	161	41	697	359
3	Go	55	23	1573	282	161	41	960	96
4	Fox	55	23	1042	813	161	42	298	758
5	Easy	55	23	403	1452	161	42	719	337
6	Dog	55	22	1545	310	161	43	140	917
7	Cat	55	22	1007	848	161	43	591	466
8	Boy	55	22	393	1462	161	44	36	1021
9	Able	55	21	1490	365	161	44	472	585
10	For	55	21	902	955	161	44	815	242
11	Tre	55	21	281	1574	161	45	347	710
12	Du	55	20	1687	168	161	45	778	280
13	Cam	55	20	1275	580	161	46	30	1028

• BLUFF

14	Cut	55	20	365	1490	161	46	830	228
15	Of	55	19	1632	223	161	47	124	934
16	Sap	55	19	1055	800	161	47	430	628
17	Mu	55	19	495	1360	161	47	840	218
18	End	55	18	1778	77	161	48	158	900
19	Sky	55	18	1218	637	161	48	523	536
20	Old	55	18	733	1122	161	48	884	175
21	Doc	55	18	252	1603	161	49	104	955
22	Quak	55	17	1490	365	161	49	518	541
23	Cap	55	17	1091	764	161	49	827	232

• DUNE

24	Big	55	16	1785	70	161	50	722	338
25	Mount	55	16	1519	336	161	51	65	995
26	Nex	55	16	1080	775	161	51	515	545
27	Bag	55	16	440	1415	161	51	898	162
28	Tar	55	15	1830	25	161	52	49	1011
29	Pol	55	15	1200	655	161	52	263	797
30	Spot	55	15	770	1085	161	52	395	665
31	Flat	55	14	1833	22	161	52	590	470
32	Pile	55	14	1124	731	161	52	710	350
33	Squar	55	14	509	1346	161	52	805	255

Sheet 2

NO.	NAME	LATITUDE				LONGITUDE			
		°	'	"	(METERS)	°	'	"	(METERS)
34	Slop	55	13	1735	120	161	52	684	377
35	Roc	55	13	1326	529	161	52	670	391
36	Tri	55	13	969	886	161	52	715	346
37	Stick	55	13	714	1141	161	53	62	999

. END=

(HILL)

55 13

161 53

NOTE

All signals on this sheet are built
of driftwood dressed with white cloth

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON January 10, 1925.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4064

Pavlof Bay, Alaska Peninsula

Surveyed in 1924

Instructions dated February 27, 1923 and February 8, 1924.

Chief of Party, R. R. Lukens.

Surveyed and inked by C. L. Nyman.

- ✓ 1. The records conform to the requirements of the General Instructions.
- ✓ 2. The plan and character of the survey conform to the requirements of the General Instructions except that a dashed line should not have been used to define the limits of marsh and sand (See paragraph 176 of General Instructions), ~~and elevations should have been based on m.s.l. instead of m.h.w. (See paragraph 154 of General Instructions.)~~
- ✓ 3. The plan and extent of the survey conform to the requirements of the specific instructions except that form lines were not shown, although they were specially called for.
- ✓ 4. The junctions with the adjacent surveys are satisfactory.
5. The descriptive report notes that crude oil appears at various places along the sandy beach.
6. The character and scope of the surveying are ^{fair} ~~good~~ except for omissions noted.
7. Reviewed by E. P. Ellis, January, 1925.

Approved-
A.L.G.
Jest

This is bad practice.

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. **(E) 4064**

State **South West Alaska**

General locality **Pavlof Bay ALASKA Pen**

Locality **Pavlof Bay - Arch Pt. to Black Pt.**
West side, Sta. "End" to Sta. "Pay"

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

Surveyed by **C. L. Nyman**

Date of survey **August, 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

Remarks: **This is sheet # E.**