

4045

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

State: ALASKA

11-5613

DESCRIPTIVE REPORT.

Topog. Sheet No. 4045

LOCALITY:

Alaska Peninsula

Morzhovoi Bay Entrance

19²³

CHIEF OF PARTY:

R.R. Lukens

DESCRIPTIVE REPORT

to accompany

Topographic Sheet No.1.

4045

Morzhovoi Bay ; Southwest Aaa.

Str.Pioneer R.R.Lukens Ch.of Party

1923.

LIMITS This topographic sheet, to a scale of 1 : 20,000, includes the shore-line from either side of the entrance to Morzhovoi Bay northward one-half way to the head of the Bay. The upper limits are also those of the high-lands contiguous to the lower part of the Bay; just north of this sheet starts the flat tundra regions bordering Bering Sea.

DESCRIPTION of COAST The land bordering the lower part of the Bay is entirely mountainous, excepting two shallow valleys on either shore. The land rises sharply from the shore to peaks from 1000 - 2000 feet elevation on the west, and peaks from 1500 - 3000 feet on the east side of the Bay. In showing the configuration of the country form lines of 100 feet elevation are used, all elevations being reckoned from mean high water.

As a whole the peaks and ridges indicate a comparative-recent geological formation, being very sharp and as yet showing slight erosion. Walrus Peak, a ragged summit of 3000 feet elevation, shows prominently to vessels coasting offshore. Frosty Peak, twice the height of Walrus, is the most prominent from seaward, altho its snow-capped summit is seldom visible thru the low-hanging cloud-banks. All other peaks are so blended into the general land mass as to be of little navigational value.

Kenmore Head on the west side of the entrance, and Egg Island on the east, are prominent landmarks useful to vessels standing into the Bay. The Head is bold and rocky, its cliff-like sides slightly undercut at the point, its rounded top 620 feet high. The Island is similarly steep-sided and rocky, 325 feet in height.

The land is treeless, grass-covered to 1500 feet, with a few alder-patches along the stream-beds and on the slopes of the valleys.

The bluffs are of old talus formation, grass-covered except for a few recent rock slides.

Kelp extends in a thin line around all the shore-line, easily penetrated by a pulling-boat.

The most of the beaches are boulder-covered. Widely scattered boulders of large size are awash at all stages of tide, necessitating care in making small-boat landings. The only clear sand beach is that short stretch shown east of West Cape.

ANCHORAGES

Dolphins, driven by the Pacific American Fisheries, are located on either side of Little John spit, and serve as excellent small-craft moorings.

Little John Lagoon is a good anchorage for small-craft in all weather.

BUILDINGS

The only buildings are those shown on the sheet; a cabin at station 'Red', two at 'Shack' with one further inshore, and a larger building at 'New'. This last is the southerly of the old cannery group, all abandoned for several years and rapidly falling into ruin.

WATER

Fresh water is obtainable at any of the streams along the coast.

TOWNSITES

The most likely townsite would be a location between the old cannery and Little John Lagoon. Sufficient water-power is obtainable from nearby streams to operate a small town lighting system. Deep water is to be had for the construction of a short dock.

The small field between signal 'Dur' and the Lagoon could be quickly and cheaply cleared and leveled for a landing-field for light airplanes.

CONTROL

The topography on this sheet was controlled by triangulation stations of a secondary scheme. The signals in the Lagoon were located by plane-table triangulation, all other topographic signals were built and rodded in as the work progressed.

The longest traverse was that between 'Rey' and 'West Cape', some 5200 metres. All traverse closures were within the allowable limit and so small as to require no adjustment.

Respectfully submitted:

R.R. Lukens
R.R. Lukens
Lieut.-C. & G. Survey
Com'd 'g. Str. PIONEER

To : The Director.
U.S. Coast & Geodetic Survey
Washington, D.C.

Excellent report -
ALB.
J.W.S.

✓

PLANE TABLE POSITIONS

Morzhovoi Bay Sheet

1

<u>OBJECT</u>	<u>LATITUDE</u>	<u>D.P.</u>	<u>LONGITUDE</u>	<u>D.M.</u>	<u>REMARKS</u>
Signal 'Mas'	54 - 56	570	162 - 53	86	Temporary.
Tile	"	1309	"	605	"
Pin	54 - 57	409	162 - 54	856	Pinnacle
Full	"	803	"	931	Temporary
Es	"	1327	162 - 55	172	"
Bar	"	1731	"	279	"
En	54 - 58	259	"	194	Boulder
At	"	484	"	102	"
Ga	"	809	"	472	"
Bol	"	1190	"	939	"
Kal	"	1678	162 - 56	795	"
Bf	"	1928	"	1004	"
Mo	54 - 59	182	162 - 57	94	Pinnacle
Bee	"	943	"	395	Boulder
Black	"	1093	"	499	"
AY	"	1515	"	623	"
Cone	"	1715	"	789	Temporary
Fish	55 - 00	1564	162 - 58	214	"
Rock	"	1689	162 - 57	860	"
Slat	55 - 01	315	"	430	"
Wash	55 - 00	1785	162 - 56	895	Boulder
Don	"	1732	"	373	Temporary
Lor	"	684	162 - 54	721	"
Cub	55 - 01	241	"	548	"
Ur	"	799	"	1020	Boulder
Wood	"	1627	162 - 55	844	Temporary
Hop	"	658	162 - 56	635	Topo. station mark

Signal 'Spire'	54 - 56	377	163 - 03	105	Pinnacle rk.
Lone	"	1062	163 - 02	618	"
Bat	"	1510	163 - 01	991	Temporary
Bud	"	1830	"	764	Pinnacle awash
Ruf	54 - 57	11	"	916	Boulder
Hang	54 - 56	1708	163 - 02	247	"
Slant	54 - 57	45	"	691	Temporary
Lean	"	658	"	856	"
Bri	"	1112	"	674	Boulder
Sev	54 - 58	65	"	769	"
Jump	"	490	"	1000	"
Slim	"	928	163 - 03	379	Temporary
Kol	54 - 59	197	163 - 04	494	Boulder
Lan	"	1519	163 - 06	547	"
Flat	"	1818	"	768	"
Pile	54 - 00	601	163 - 07	773	Piling
Se	"	1036	163 - 08	243	Topo. station mk
Dos	54 - 56	14	162 - 54	837	Temporary
Has	"	267	"	633	"
Up	"	466	"	693	"
Cross	"	489	"	321	"
McAlrus Peak	54 - 58	1742	162 - 51	119	A prominent pinnacle peak.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

January 30, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4045

Entrance to Morzhovoi Bay, Alaska Peninsula

Surveyed in 1923

Instructions dated February 27, 1923

Chief of Party, R. R. Lukens

Surveyed by R. W. Woodworth.

- ✓ 1. The records conform to the requirements of the General Instructions. *Excellent report.*
- ✓ 2. The plan and character of the survey fulfill the requirements of the General Instructions.
- ✓ 3. The plan and extent of the survey satisfy the specific instructions, except that 25-foot contours are not shown on the possible townsite as directed.
- ✓ 4. The junctions with the adjoining survey are satisfactory.
- ✓ 5. No further surveying is required within the limits of the sheet.
6. The character and scope of the surveying and field drafting are excellent.
7. Reviewed by E. P. Ellis, January, 1924.

Approved -
[Signature]
E. P. Ellis

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. #1 4045

State . . . Alaska

General locality . . . Alaska peninsula.

Locality . . . Entrance
Morzhovoi Bay (southern half).

Chief of party . . . R. R. Lukens

Surveyed by . . . R. W. Woodworth

Date of survey . . . June 28 - July 21, 1923.

Scale . . . 1 : 20,000

Heights in feet above . . . High water.

Contour interval . . . 100 . feet.

Inked by R. W. Woodworth. Lettered by R. W. W.

Records accompanying sheet (check those forwarded): Photographs,

✓ Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: