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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: ALASKA
11-5813
DESCRIPTIVE REPORT.
Topog Sheet No. 4046
LOCALITY:
Alaska Peninsula
Morzhovoi Bay Upper Part
23 191
CHIEF OF PARTY:
R.R. Lukens

DESCRIPTIVE REPORT

to accompany

Topographic Sheet No. 2.

Morzhovoi Bay, Southwest Alaska.  
Str. PIONEER, R.R. LUKENS Ch. of Party.

Register No. 4046.  
1923.

LIMITS. This sheet embraces the head of Morzhovoi Bay and joins topographic sheet No. 1. It is made on a 1:20,000 polyconic projection in compliance with the Director's orders dated February 27, 1923.

GENERAL DESCRIPTION OF SHORELINE: The land around the upper half of Morzhovoi Bay with the exception of Boiler Point and vicinity is low, flat, rolling country of less than 100 feet elevation continuing thru to the Bering Sea on the North and rising in a gradual slope to Frosty Peak on the East. Boiler Point appears as a sloping hill 300 feet high rounding gradually and ending in a steep rocky formation with an abrupt drop of 100 feet to the waters edge. There is no beach on the point but several pinnacle rocks of varying heights lie close to shore. The outermost of these is 2 feet above water at high tide and is noted on the sheet as signal "Point." From Signal "Boil" to Signal "Try" the shore appears as a steep, partly eroded bank 50 to 100 feet high and decreasing in height at the head of the Bay. The Beach is of boulders changing to gravel and sand at the head of the Bay. The peninsula separating the Big Lagoon from Morzhovoi Bay is made up of grass covered sand dunes all of which are of permanent character except those at the end of the peninsula near station "Read." The latter are only partially grass covered and are not permanent. The beach along this section is sandy. From "Turn" to "Delta" the banks are again steep and partially eroded with a beach formed of gravel and boulders.

OUTLYING DANGERS: The upper end of Morzhovoi Bay has no outlying dangers. The bottom is uniform and shoals gradually at the head of the Bay.

LANDMARKS: The only prominent landmarks in the upper end of the Bay are Boiler Point as already described and Frosty Peak. The latter is a sharp snow covered peak east of Morzhovoi Bay but is almost invariably covered by clouds. There are a number of cabins around the Bay but these are not visible except from inshore. The cannery shown on the sheet formerly was the property of P. E. Harris & Co. It has been abandoned and the buildings while still retaining their outward appearance are rapidly falling to pieces. There are also four fish traps as noted on the sheet which furnish landmarks of a temporary character.

INSHORE DANGERS: A few rocks and kelp patches were noticed near shore and carefully located on the sheet. The section of shore line near signal "Try" has a number of boulders set out about 250 meters from shore. These are covered at high water and bare only at low tide.

A pile, broken at the waters surface forms a temporary danger to small boats among the dolphins north of Boiler Point. It is covered at High water. The pile, being of wood will probably decay in a few years. Its position is carefully located.

BARS AND CHANNELS: Much of the area at the entrance to, and in the Big Lagoon, bares at low water leaving a sandy bottom occasionally studded with boulders. A permanent 3 fathom channel exists in the Big Lagoon between the islands and signal "Read" as shown on the sheet. This channel, however, shoals rapidly inside the Lagoon and also outside making it impracticable for boats of greater than 5 feet draft to enter. At times the tide makes a 2 - 3 knot current thru this channel.

ANCHORAGES: The upper end of the Bay forms good anchorage for vessels of all sizes in a northerly wind but is unprotected from southerly winds. A number of dolphins have been driven for small boats north of Boiler Point which forms excellent protection from southerly storms.

SURVEY METHODS: The control for this survey is based on the triangulation in Morzhovoi Bay of 1923. The major portion of the sheet was done with a plane table and meets the requirements of the general instructions for plane table work. In the traverse between "Delta" and "Sand" a 100 meter closure error was made. This error was later located between "Delta" and "Need" and a corresponding adjustment of the shoreline made. The surveys of the Little and Big Lagoons at the upper end of the Bay were made with sextant and sketch board. Sextant fixes were taken at the prominent points of the shore line averaging a fix for about every 300 - 400 meters and plotted on a sketch board. The topography was then sketched in and the whole transferred to the topographic sheet. The extent of the work thus done includes the Little Lagoon, the entrance being located by plane table, and the Big Lagoon from a point directly N. E. (true) of signal "Try" around to a point N. (true) of signal "Read." The islands in the entrance of the Lagoon were located by plane table. The character of the lagoons is such as to render them of little use except to small motor boats and pulling boats. There are no streams of any size flowing into either the Big or Little Lagoons. The shoreline of the middle Lagoon was taken from a rough sketch furnished by Mr. W. P. Studdert of the U.S. Bureau of Fisheries. A fresh water stream is reported to flow from a large fresh water lake into the middle lagoon at the point shown. One side of the lake is reported to be within 200 yards of the Bering Sea shore. The topographer has seen the lake but its exact location has not been determined. The connecting stream is large enough for pulling boats only. This lake is the main spawning place of the salmon run into Morzhovoi Bay and is of importance from that standpoint only. The work on the lagoons was done to supply information that will no doubt be of value to the Bureau of Fisheries.

FORM LINES: There are no form lines at the upper end of the Bay due to the land being flat and of less than 100 feet elevation. The topographer was unable to get the form lines around Frosty Peak owing to continued low hanging clouds and fog.

NEW NAMES: Several local names are in use which do not appear on the chart. The most common and most used of these are "Boiler Point" which applies to the point of land, latitude 55° 00' 1680 meters, longitude 163° 08' 770 meters. The others are "Big Lagoon," "Middle Lagoon" and "Little Lagoon" as shown on the sheet. The name "Lansberg Lagoon" has been used to apply to the "Middle Lagoon." This name originates from a trapper who has his cabin near the entrance and lives there certain seasons of the year. This name is rejected on account of paragraph 574(a) General Instructions.

Respectfully submitted;

*R. R. Lukens.*

R. R. LUKENS,  
Lieut.-C. & G. Survey,  
Comdg. Str. PIONEER.

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

*Topograph Sheet #2*  
*Morzhovoi Bay - upper part*  
List of P.T. Position

OBJECT:	LATITUDE :		D.M.	LONGITUDE:		D.P.	HEIGHT:	REMARKS:
	o	'	meters	o	'	meters		
Dol	55	00	1275	163	08	591		white washed
Point	55	00	1684	163	08	756		boulder on beach
Near	55	00	1702	163	08	912		off lying rock
Ter	55	00	1694	163	09	134		temporary signal
Us	55	00	1651	163	09	457		temporary signal
Min	55	00	1582	163	09	814		temporary signal
Boil	55	00	1447	163	10	252		"
Let	55	00	1759	163	11	00		"
Buk	55	01	583	163	12	19		"
Lit	55	01	803	163	12	407		"
Ned	55	01	1512	163	12	1020		"
Cab	55	02	60	163	12	1052		"
Lo	55	02	704	163	13	252		"
Ni	55	02	1675	163	13	23		"
Bluff	55	03	562	163	12	774		"
Pic	55	03	1375	163	12	449		"
Hot	55	04	638	163	11	915		"
Jump	55	04	1381	163	11	637		"
Mid	55	05	62	163	11	348		whitewashed boulder
Big	55	05	396	163	10	944		conspicuous
								whitewashed bldr.
Isle	55	06	240	163	10	597		temporary signal
Cur	55	05	1397	163	09	239		"
Snu	55	05	1543	163	08	553		"

## # 2 Morzhovoi Bay.

OBJECT:	LATITUDE:		D.M.	LONGITUDE:		D.P.	HEIGHT:	REMARKS:
	°	'	meters	°	'	meters		
Sac	55	06	13	163	07	1057		temporary signal
Hunt	55	06	519	163	07	609	60	signal on conspicuous round-topped sand-dune
Det	55	06	516	163	07	214		temporary signal
Cre	55	06	1100	163	05	981		"
Dow	55	06	1192	163	05	225		"
Cap	55	06	679	163	03	638		"
Pit	55	06	125	163	02	1039		"
See	55	05	1527	163	02	525		"
Joe	55	05	1125	163	01	946		"
Tin	55	05	680	163	01	385		"
Bif	55	04	1398	163	00	97		"
Bum	55	04	758	162	59	938		"
Bat	55	04	242	162	59	791		"
Kin	55	03	1785	162	59	617		"
Need	55	03	1307	162	59	285		"
Dark	55	02	1660	162	58	193		"



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

January 29, 1924

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4046

Upper Part of Morzhovoi Bay, Alaska Peninsula

Surveyed in 1923

Instructions dated February 27, 1923

Chief of Party, R. R. Lukens

Surveyed by H. W. Tyler

- ✓ 1. The records conform to the requirements of the General Instructions.
- ✓ 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.
- ✓ 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 -  
H. L. B.  
J. J. J.



## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

## TOPOGRAPHIC TITLE SHEET No 2

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. 2 4046State Alaska . . . . .General locality ~~Alaska~~ Alaska Peninsula . . . . .Locality Morzhovoi Bay Upper Part . . . . .Chief of party R. R. Lukens . . . . .Surveyed by H. W. Tyler . . . . .Date of survey July 23 to August 15, 1923. . . . . .Scale 1 : 20,000. . . . . .

Heights in feet above mean sea level . . . . .

Contour interval 100 . feet.Inked by H.W.T. . . . . Lettered by H.W.T. . . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, ☒ Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: