

6424

~~CONFIDENTIAL~~

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

APR 8 1936

State: S. W. ALASKA

Acc. No.

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. "B"

LOCALITY

~~N.E. SIDE OF MAKUSHIN BAY.~~

PORTAGE BAY & CANNERY BAYS

UNALASKA ISLAND, S.W. ALASKA

19 35

CHIEF OF PARTY

H. B. Campbell

U. S. GOVERNMENT PRINTING OFFICE: 1920

6424

~~CONFIDENTIAL~~

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. B

REGISTER NO. **T6424**

State S. W. Alaska

General locality Unalaska Island

Locality N.E. Side of Makushin Bay, Portage & Cannery Bays<sup>1st</sup>

Scale 1:20,000 Date of survey May & June, 19 35

Vessel U.S.C. & G.S.S. DISCOVERER (WESTDAHL)

Chief of party H. B. Campbell

Surveyed by E. B. Lewey

Inked by E. B. Lewey

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~Contours, approximate contours~~, Form line interval 100 feet

Instructions dated April 13, 19 34

Remarks: \_\_\_\_\_

DESCRIPTIVE REPORT  
TO ACCOMPANY TOPOGRAPHIC SHEET "B"  
N. E. SIDE OF MAKUSHIN BAY, PORTAGE BAY  
And CANNERY BAY  
UNALASKA ISLAND, S. W. ALASKA

- 0 -

H. B. CAMPBELL, CHIEF OF PARTY  
SEASON OF 1935

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "B"

N. E. SIDE OF MAKUSHIN BAY, PORTAGE BAY

And CANNERY BAY

UNALASKA ISLAND, S. W. ALASKA

INSTRUCTIONS:

The work done on this sheet was authorized by the Director's Instructions for Project H.T. - 177, dated April 13, 1934.

LIMITS:

The area included on this sheet lies between Latitudes  $53^{\circ} 40.0'$  North and  $53^{\circ} 46.0'$  North; and between Longitudes  $166^{\circ} 40.0'$  West and  $166^{\circ} 54.0'$  West. Exception: It does not include any part of Anderson Bay.

A junction is made with Topographic Sheet "D", 1934, at triangulation station "Flat, 1934", in Latitude  $53^{\circ} 42.56'$  North and Longitude  $166^{\circ} 49.97'$  West.

A junction is made with Topographic Sheet "A", 1935, at topographic station "Yah" in Latitude  $53^{\circ} 45.33'$  North and Longitude  $166^{\circ} 53.84'$  West.

CONTROL:

The topography was controlled by second and third order schemes of triangulation executed by the party in 1934 and 1935.

All triangulation is based on the Dutch Harbor Datum.

SURVEY METHODS:

The usual planetable survey methods were used. A combination traverse and resection method was used in locating topographic signals, shoreline and other topographic details. When possible, signals were verified by cuts from triangulation stations.

All traverses closed satisfactorily.

FORM LINES:

All elevations for the control of form lines and the heights of the higher offshore rocks were determined by standard planetable methods. The heights of the smaller and lower rocks offshore were estimated by comparing their heights with the telemeter rod.

COMPARISON WITH PREVIOUS SURVEYS:

There are no previous detailed surveys of this area.

GENERAL DESCRIPTION:

The shores within the limits of this sheet are generally marked with rocky or grassy bluffs varying in height from a few feet to 450 feet. In general, the beaches are rocky with occasional stretches of gravel. The only sand beach of any size is on the east side of Humpback Bay. The inshore area covered by the sheet is steep and rough. The valleys and slopes up to a height of approximately 750 feet are grass covered. The higher land is bare.

The northern portion of the sheet is characterized by alternating high ridges and deep valleys running in a north-east, south-west direction.

Point Bluff is marked by dark rocky cliffs 450 feet in height and is prominent from the westward.

Point Cathedral is prominent from the north or south and from a distance appears as an island. It is <sup>326</sup>316 feet high and has dark and steep rocky cliffs.

Cathedral Rocks are prominent from all directions and consist of several sharp pointed peaks, the highest being 175 feet.

Portage Bay makes off from the north-east corner of Makushin Bay and extends 4 miles in an easterly direction. It averages  $\frac{3}{4}$  mile in width. A foot trail from Unalaska comes into the north-east corner of Portage Bay at topographic station "Spud", Latitude  $53^{\circ} 43.7'$  North and Longitude  $166^{\circ} 42.6'$  West.

Cannery Bay makes off from the south-east corner of Makushin Bay for a distance of 3 miles in a south-easterly and easterly direction and averages  $\frac{1}{2}$  mile in width. Small craft drawing up to 4 feet of water may be moored in the lagoon  $\frac{1}{4}$  mile north-east of the cannery in Latitude  $53^{\circ} 41.87'$  North and Longitude  $166^{\circ} 44.91'$  West. The entrance is from the east and bares at low water.

The Pacific American Fisheries cannery at the head of Cannery Bay has been abandoned. The wharf is in fair shape and

has a frontage of 80 feet. At the present time fresh water may be obtained at the wharf, but the pipe line is rapidly deteriorating.

DISTORTION:

A 24" x 31" aluminum mounted sheet was used. The sheet was frequently tested, but no distortion was noted at any time.

MAGNETIC OBSERVATIONS:

Observation were made at triangulation stations "Tin, 1934"; "Near, 1934"; "Oval, 1934"; "Rock, 1934"; "Gravel, 1934"; "Flat, 1934"; and "Spit, 1934", with the declinitaire.

NEW NAMES:

Well established Local Names:

HUMPBACK BAY, the small bay in Latitude  $53^{\circ} 45.0'$  North and Longitude  $166^{\circ} 52.8'$  West.

CATHEDRAL ROCKS, the prominent sharp pointed rocks in Latitude  $53^{\circ} 44.35'$  North and Longitude  $166^{\circ} 53.15'$  West.

PORTAGE BAY, the long narrow bay making off to the eastward from the north-east corner of Makushin Bay.

CANNERY BAY, the narrow curving bay making off to the south-east from the south-east corner of Makushin Bay.

Names Assigned by the Topographer:

POINT CATHEDRAL, the prominent point just eastward of Cathedral Rocks in Latitude  $53^{\circ} 44.4'$  North and Longitude  $166^{\circ} 52.7'$  West.



~~POINT~~ <sup>?</sup>BLUFF, the prominent rocky point separating the entrance to Portage and Cannery Bays in Latitude  $53^{\circ} 43.0'$  North and Longitude  $166^{\circ} 47.8'$  West.

POINT LOW, <sup>?</sup>the comparatively low point at the east side of the entrance to Anderson Bay. Latitude  $53^{\circ} 42.55'$  North and Longitude  $166^{\circ} 50.0'$  West.

*this is Anderson Pt. inked and underlined in chart 18802*  
*CKD*

Respectfully submitted,

*Ernest B. Lewey*

Ernest B. Lewey,  
Jr. H. & G. Engineer,  
U.S.C. & G.S.S. DISCOVERER.

Approved and forwarded,

*H.B. Campbell*  
*per J.M. Smock,*

~~Jack Senior,~~  
Commanding Officer,  
U.S.C. & G.S.S. DISCOVERER.



STATISTICS

TO ACCOMPANY TOPOGRAPHIC SHEET "B"

Number of Statute Miles of Shoreline .....	36.0
Number of square Statute Miles of Area Surveyed .....	44.0
Number of Elevations Determined .....	154

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

Seattle, Washington.

March 10 1936

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

~~Fred Senter~~, Comdg, DISCOVERER

Chief of Party.

[illegible]

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently prominent to chart.

## Remarks

## Decisions

1		
2		
3		
4		
5		
6	on chair 5802 this name has been written in red, and underlined, for point in question	Anderson Pt.
7		
8		
9	in blue: not in local map.	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

# GEOGRAPHIC NAMES

Survey No. 6424

Name on Survey	<div> <div>On Chart No. 8802</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> </div>								DESC. REPT
	A	B	C	D	E	F	G	H	
<u>Unalaska Island</u>	*								1
<u>Fortage Bay</u>								*	2
<u>Makushin Bay</u>	*						✓		3
<u>Anderson Bay</u>	*								4
<u>Cannery Bay</u>								*	5
<del>Point Star</del>									6
<u>Humpback Bay</u>									7
<del>Point Cathedral</del> <u>Pt.</u>									8
<del>Point Star</del>									9
<u>Cathedral Rocks</u>								*	10
<u>Anderson Pt.</u> *	*								11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

This name has been approved  
 on 4/28/36  
 by R.D.

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT } No. H  
 PHOTOSTAT OF } No. T 6424

{ received April 9, 1936  
 { registered April 14, 1936  
 { verified  
 { reviewed  
 { approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

C. K. Green *April 18 - '36*



## REVIEW OF TOPOGRAPHIC SURVEY No. 6424

Title (Par. 56) *Portage & Cannery Bays, S.W. Alaska*Chief of Party *H.B. Campbell* Surveyed by *E.B. Lewey* Inked by *E.B. Lewey*Ship *Discoverer* Instructions dated *April 13, 1934* Surveyed in *May-June 1935*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions.  
*Insufficient number of recoverable stations for resurvey*
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for ~~-con-~~  
~~tours-formlines-~~ was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓
5. The delineation of ~~-contours-formlines-~~ is satisfactory. (Par. 49, 50.) ✓
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None Submitted*
7. High water line on ~~marshy and mangrove coast~~ is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *Rock symbols are entirely too small*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

*See reverse side*

10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. Locations and elevations of summits are given. (Par. 19, 51.) ✓
12. The <sup>grass</sup> ~~tree~~ line was shown on mountains. (Par. 16g.) ✓

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

Paragraph 9

There are no previous detailed surveys of this area. The chart therefore does not show near the detail as shown on the present survey. Since the chart is on such a small scale it cannot be compared with the present survey to any advantage.



13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aere-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *3 cards submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown ✓ and declination was checked. (Par. 17, 52.) *Declination taken at seven stations all checking within 2 to 3 degrees*  
*Declination checked*
18. The geographic datum of the sheet is *Unalaska (Unadjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓  
*Joins T 6228 (1934) on the S.W.*  
*Joins T 6423 (1935) on the N.W.*
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is <sup>Fair</sup> good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) *Heights of bare rocks are too small*  
*Rock symbols are entirely too small - Lettering not placed properly on form lines*
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by ✓
24. Remarks:

Reviewed in office by *Chas. R. Bush* June 6, 1936.

Examined and approved:

*C. H. Green*  
Chief, Section of Field Records

*Fred. L. Peacock*  
Chief, Section of Field Work

*L. O. Lobbat*  
Chief, Division of Charts

*W. H. Hude*  
Chief, Division of Hyd. and Top.



Paragraph 19

There is a holiday between the form lines on the eastern side of this survey and the next survey East (T6432-1935)

*at* The junction of form lines with T6228 is ~~inadequate and since the present survey contains additional elevations over T6228, form lines should be charted from T6424.~~ *the representation as shown on T6424 should be used where difference occur*