

6269

CONFIDENTIAL

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

APR 30 1935

Acc. No. \_\_\_\_\_

Form 504  
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Alaska

DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. "C"

LOCALITY

Beaver Inlet

Unalaska Island

~~Alutian Islands~~

1934

CHIEF OF PARTY

H. B. Campbell

U. S. GOVERNMENT PRINTING OFFICE: 1923

6269

CONFIDENTIAL

Applied to Charts 8860, 8802 + 9302 Oct-10- '935

P. B. Quattr.

25 Jan 20, 1936

Applied to <sup>new</sup> chart compilation of Chart No. 9007, (extended). L. R. Aug. 1938.

Applied to Chart Comp. No. 9018. H. M. Ewen. June 27, 1939.

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. C  
Letter  
REGISTER NO. **T6269**

State Alaska ~~(Aleutian Islands)~~  
General locality Unalaska Island  
Locality Beaver Inlet  
Scale 1:20,000 Date of survey June, 1934  
Vessel Str. DISCOVERER  
Chief of party H.E. Campbell  
Surveyed by R.A. Gilmore  
Inked by R.A. Gilmore  
Heights in feet above M.H.W. to ground ~~to tops of trees~~  
~~Contour, Approximate contour~~, Form line interval 100 feet  
Instructions dated April 13, 1934  
Remarks: Project No. HT - 177



DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. "C".

Unalaska Island - Aleutian Islands, Alaska

U.S.C. & G.S.S. DISCOVERER

H.B. Campbell, Commanding

Season 1934

-----  
AUTHORITY

This survey was made in accordance with the Director's Instructions dated April 13, 1934, for project HT No. 177.

LIMITS

This sheet covers that portion of Beaver Inlet, Unalaska Island, on the northern side, from the beginning of Ugadaga Bay south to and including the small island on which  $\Delta$  LONG is located, (with the exception of the head of Uniktali Bay which part comes off the limits of the sheet) and on the southern side from  $\Delta$  DOG north to  $\Delta$  AMUG, about a mile SW of Round Island. Several topographic signals NE of Round Island are also included on the sheet. These were located by intersections from triangulation stations and well established topographic stations.

GENERAL DESCRIPTION

In the main the topography is quite rugged and barren except for a short grass and reindeer moss which covers the mountain sides as soon as the snow goes. Considerable snow remains in the higher elevations well into June<sup>ly</sup> and appears again about the first of October.

The shore line is quite rugged and broken, with very little beach, mostly of boulders and gravel. At the head of each bay there is quite an extent of low valley with several joining streams. These valleys have a considerable growth of tall grass.

Cliffs and rocky outcrops have been depicted on the sheet where they occurred.



### LANDMARKS

Round Island (only partly shown on the sheet) furnishes a good Landmark and marks the entrance to Amugul Bay. The island is about 1/8 mile across at its widest dimension and 136' feet high. It rises abruptly from the water and is generally covered with tall grass.

Long Island is a small narrow island (0.1 mi. wide; 0.4 mi. long) on the north side of the Inlet and just opposite Tananskan Bay. It is high on the south side and low on the north with a greatest elevation of 84 feet. This island is also generally covered with high grass.

### CONTROL

This sheet was done in advance of new control which was accomplished in Beaver Inlet later in the season. Sufficient triangulation stations were recovered to furnish ample control.

### SURVEY METHODS

Standard plane table survey methods, as prescribed in the Topographic Manual, were used. Graphic triangulation was used to get up into some of the longer bays using stations which were later observed on. These topographic locations were later checked against the computed positions. In general the hydrographic and topographic signals were located by cuts from the recovered triangulation stations and the shore line and details rodged in by setting up on or near these signals. No traversing was necessary.

### CLOSING ERRORS

No adjustments were necessary on the sheet.

### FORM LINES

Form Lines were drawn with sufficient accuracy by means of numerous elevations to peaks, center lines of saddles and well identified knolls. Considerable difference in elevation was noted between some of the heights of peaks obtained and those shown on the bromide copy of the 1901 survey, Reg-



ister No. 2544. All elevations shown on the sheet are well established by intersections and can be considered final. A few elevations (noted on the sheet) have only two slim cuts to determine their location. These are outside of any form lines shown on the sheet.

#### MAGNETIC MERIDIANS

Three magnetic meridians were obtained as shown. Although these meridians were all obtained with the same declinoire and under the same relative conditions the one taken at  $\Delta$  CLIFF varies considerably with the other two which agree very closely. These declinoire readings were all taken at approximately 4:30 PM on the days shown. A magnetic declinometer observation was made at Station "LONG". *Further observations in locality of  $\Delta$  cliff will be made during 1935 season.*

#### NAMES ASSIGNED BY FIELD OFFICERS

Long Island - named after triangulation station LONG 1901 - 1934, and because it well describes the Island.

#### JUNCTION WITH NEW WORK

A satisfactory junction was made at the north end of the sheet with Topographic Sheet U - B - 34, Project HT No. 176 (Steamer SURVEYOR).

#### RECOVERABLE PLANE TABLE POSITIONS

A list of recoverable plane table positions is appended.

#### FURTHER EXAMINATION

The sunken rock shown at Lat.  $53^{\circ} 43' + 105m$ ; Long  $166^{\circ} 28' + 850 m$  was determined from a sextant fix approximately over the spot by the topographic party and will require further examination by the hydrographic party. *Discussed in Rev. of H-5977(1934-35), pars. 1d, 2 and 10.  $\Sigma$ um. 7/23/36*

The area between Long Island and the shore to the north west is to be navigated with caution by small boats until further hydrographic information is obtained.

#### STATISTICS

Statute miles of shoreline

31.0



Area, in square statute miles

20.0

REMARKS

This sheet accidentally fell overboard and sank in 53 feet of water towards the end of the survey. It was fortunately recovered by means of a 30# lead to which 2 ten-penny nails had been made fast to at the end, then lowered and made to pierce the sheet (not as easy as it sounds). This accounts for the holes and dents in the sheet. Particular care was taken to dry it carefully and slowly so as not to spoil the surface of the paper. The sheet was in the water about ~~thirty~~<sup>forty-five</sup> minutes and considering this and its other abuses recovered remarkably well.

Respectfully submitted,

*Ross A. Gilmore*  
Ross A. Gilmore,  
Jr. H. & G. Engineer.

Approved and forwarded:

*H.B. Campbell*  
H.B. Campbell, H. & G. Engr.,  
Chief of Party.



## RECOVERABLE PLANE TABLE POSITIONS - SHEET "C"

Object & Description	Lat.		D.M. meters	Long.		D.M. meters	Height feet	Remarks
	°	'		°	'			
"Rig" (small detached pinnacle rock)	53	49	1564	166	23	581	8	Top
"Van" (square detach- ed rock 4m. x 4m.)	53	46	803	166	28	1016	5	Center
"Tug" (small islet)	53	46	630	166	29	342	12	Top
"Tax" (High water pinn- acle rock)	53	42	1180	166	28	311	16	Front Face
"Pinnacle Rock" (on high water line)	53	45	1634	166	24	928	48	Center
"Abe" (Pinnacle Rock on high water line)	53	45	1639	166	24	904	56	Center
"Dog" (Detached pinn- acle rock spire)	53	48	1600	166	25	139	27	Front Face
"Ebb" (Detached pinn- acle rock)	53	49	220	166	25	213	15	Front Face
"Ex" (Detached pinn- acle rock)	53	48	949	166	24	997	15	Top
"Run" (Pinnacle rock at high water line)	53	46	206	166	30	187	12	Front Face







## REVIEW OF TOPOGRAPHIC SURVEY No. 6269

Title (Par. 56) *Beaver Inlet, Alaska*Chief of Party *H.B. Campbell* Surveyed by *R.A. Gilmore* Inked by *R.A. Gilmore*Ship *Discoverer* Instructions dated *April 13, 1934* Surveyed in *June 1934*

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.  
*Not sufficient 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 ~~contours~~-~~formlines~~- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)  
*Not sufficient number of elevations given for formlines*
5. The delineation of ~~contours~~-~~formlines~~- is satisfactory. (Par. 49, 50.) *Formlines not accentuated sufficiently*
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.) *Symbols and legends very poorly drawn*
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 tree line was shown on mountains. (Par. 16g.)

*No trees shown - mostly tundra grass*

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

T2544 (1901)

The present survey is in good agreement generally with T2544. However, the present survey is on a much larger scale and is much more in detail as to rocks, islets and points along the shore. The present survey does not show the inshore rocks at Lat.  $53^{\circ}-42.7$ , Long.  $166^{\circ}29.0$  which are shown on T2544. However, these rocks are disproved on the contemporary hydrographic survey H5877 where a line of soundings run over this location. The present survey supersedes T2544 in part. \* *H-5977 (1934-35)*  
Chart 8860

The present survey has been applied to Chart #8860 and is in good agreement. The rocks mentioned are not shown on the chart.

*\* It is quite probable that these rocks (here) are actually closer inshore than as shown on T-2544 (1901) and therefore may be a generalized representation of a rocky coast line.  
Heerm. 7/16/36*



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 aero-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.) *None 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 at two stations East of that shown on chart and one West of that shown on chart*  
*No note of having checked declination*
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 6432 (1935) on the West*  
*Joins T 6434 (1935) and T 6244 (1934) on the East.*
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.) *Rock symbols are too small*  
*General drafting is sketchy*
22. No additional surveying is recommended. —
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by *Chas. R. Bush Jr.*
24. Remarks: *Several bad holes are to be found in this survey sheet as result of having been overboard and recovered (See D.R.)*

Reviewed in office by *Chas. R. Bush Jr.* June 4, 1936

Examined and approved:

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

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

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

*G. H. de*  
Chief, Division of Hyd. and Top.