

4732

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

_____, Director

State: Alaska

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No.

"G"

4732

LOCALITY

Head of Resurrection Bay

East Side

1932

CHIEF OF PARTY

H. B. Campbell

Applied & Clk 8528 - Dec. 1934 - JWS

" " " 8529 (insert) Feb. 1940 JWS

DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC FIELD SHEET "G"

LOCALITY

This sheet covers the area at the head of Resurrection Bay from the salt lagoon just north of the town of Seward across the head of the Bay and southward down the east shore to Fourth of July Creek.

AUTHORITY

This survey was made under the Director's Instructions dated April 21, 1932: U.S.C. & G.S.S. DISCOVERER, H. B. Campbell, Commanding.

GENERAL DESCRIPTION

At the head of the bay the shore line is flat with wide tide flats extending out 1/2 to 3/4 mile. The east side of the bay is precipitous and rocky. Fourth of July Creek empties on a flat point at the mouth of a very noticeable deep valley. A considerable delta has been formed and vessels should give this point a wide margin. Resurrection River and Fourth of July Creek are glacial streams and the waters of the head of the bay are usually discolored. The wide valley north of the bay is low and flat and heavily covered with cotton wood, fir, spruce and underbrush. The

mountains on the east side of the bay are heavily timbered with spruce and fir on the lower slopes.

The Army cable and wireless station at the head of the bay has been practically abandoned. An office is maintained at Seward and messages are transmitted to Anchorage by land wire. A landing field has been constructed at the head of the bay. This field is also utilized as a golf course.

The Jesse Lee Home near the Northwest corner of the bay is maintained for the education of native children of all ages.

A road has been constructed across the head of the bay from the Lake Kenai Highway to the beach near the northwest corner of the bay. Several small ranches and summer homes have been established along this road. A few railroad ties and some piling is cut on the area covered by this sheet. There is some grazing land at the head of the bay and the Seward Dairy runs a small herd of cattle here during the summer months. Wild currants and high bush cranberries are plentiful in the lowlands north of the head of the bay.

METHODS OF SURVEY

A plane table was used throughout. Triangulation points were established supplementing those of previous surveys so that traversing was not necessary. It was necessary to take most of the cuts for the elevations on sheet "F" from points on sheet "G".

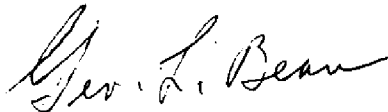
ELEVATIONS

Elevations are heights above MHW and are given to the ground in all cases.

STATISTICS

Statute miles of shore line -----	5.5
" " " ----- roads -----	3.0
" " " ----- railroads -----	1.0
Area, square statute miles -----	6.0

Respectfully submitted:



Geo. L. Bean,
H. & G. Engr.

Approved and forwarded:



H. B. Campbell,
H. & G. Engr.,
Chief of Party, Ship DISCOVERER.

REVIEW OF TOPOGRAPHIC SURVEY No. 4732

Title (Par. 56) *N.E. Coast of Resurrection Bay, Kenai Peninsula, Alaska*

Chief of Party *H.B. Campbell* Surveyed by *E.L. Bean* Inked by

Ship *Discoverer* Instructions dated *Apr. 21, 1932* Surveyed in *August 1932*

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. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for ~~contours~~ *not* ~~formlines~~ was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓
5. The delineation of ~~contours~~ *not* ~~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 received.*
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.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) *except landmark "Silo": a building is shown here on topo sheet but its nature is not stated. "Radio" is checked by Δ recovery note.* *Over*
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 *not* 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.

9. "Silo" no longer exists, see Aug. of List of
Landmarks attached to Des. Ref. T-4733.

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.)
Incomplete (66 b. Landmarks) (66 g. Landing field)
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. *No* the descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.)
16. *No* 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.)
18. The geographic datum of the sheet is *Valdez* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
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 good. ✓ (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
22. No additional surveying is recommended. ✓ *The questions under Remarks should be cleared up by correspondence.*
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by
24. Remarks: *Is the "Landing Field" at Radio Station still maintained? (see T 4284)
Is the "Hilo" at Seward Dairy Farm conspicuous as Landmark? (par. 9)*

Reviewed in office by *R. J. Christman, June 7, 1933*
Inspector - E. P. Farris

Examined and approved:

C. K. Green
Chief, Section of Field Records

L. O. Lobnitz
Chief, Division of Charts

J. S. Borden
Chief, Section of Field Work

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

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE

AND REFER TO NO. 80-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

July 15, 1933.

To: Commanding Officer,
U. S. Coast and Geodetic Survey,
Ship DISCOVERER,
601 Federal Office Building,
Seattle, Washington.

*Reply attached
to Desc Rep. T-4733*

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Topographic survey, vicinity of Seward.

The office report on the review of topographic surveys Nos. 4732 and 4733 performed by Lieut. George L. Bean under your direction during 1932, notes the omission of certain requirements of the Topographic Manual as follows:

- (1) The amount of vertical control for form lines specified,
- (2) Delineation of the tree line on mountains,
- (3) List of landmarks for charts, Form 567,
- (4) Descriptions of recoverable stations, Form 524.

There is considerable difference in the location of form lines as shown on this survey and on the survey in 1905 by E. C. Sasmatt, Aid, on topographic survey No. 2719. Where one elevation was determined on the earlier survey there is a difference of about one thousand feet in the contour shown on the latest sheets.

On Chart 8529 there are plotted six landmarks. Three of these are not located on the recent surveys and no report is submitted to warrant their removal from the chart. By transfer from T. 4284 (1927):- A silo marked "Seward Dairy silo" plots 12 meters west of one of three buildings on T. 4732; the eastern of two church steeples plots at the northwest corner of the symbol for a large building on T. 4733; a stack plots on a building in the same location on T. 4733. This stack was determined by triangulation in 1927 but no recovery note was submitted. It is suggested that you submit a report on Form 567 in regard to the removal of these landmarks from chart No. 8529 if they no longer exist or are prominent.

You will please advise if any other objects should be included as landmarks. You will also determine sufficient elevations to cover disagreement in form lines between your survey and that of 1905, in order that information may be obtained to show the correctness of your form lines or redraw them.

It is desired that you indicate the tree line for the area covered by T. 4735.

There is forwarded under separate cover a bromide copy of T. 2719 which has been raised to the same scale as your survey, a bromide of which is also included.

Director.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4732

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 Letter G

REGISTER NO. 4732

State ~~SOOK~~ AlaskaGeneral locality ~~Head of Resurrection Bay~~ Kenai PeninsulaLocality ~~XXXXXXXX~~ N. E. Coast of Resurrection BayScale 1/5,000 Date of survey August, 1932Vessel DISCOVERERChief of Party H. B. CampbellSurveyed by Geo. L. BeanInked by Geo. L. BeanHeights in feet above MHW to ground to tops of treesContour Approximate contour Form line interval 100 feetInstructions dated April 21, 19 32Remarks: 7-4733
Joins Field Sheet F to form complete surveyof head of Resurrection Bay.