FORM 594
E.d. June, 1928
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
Director

State: Alaska

DESCRIPTIVE REPORT
Topographic Sheet No. "P" 4733

LOCALITY
Head of Resurrection Bay
West Side (Seward)

1932

CHIEF OF PARTY
H. F. Campbell
Apply to insert in Oct. 85-27. Feb. 1930. 248.5
DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC FIELD SHEET "F"

LOCALITY

This sheet covers the area at the head of Resurrection Bay from the south side of Lowell Point to the north end of the salt lagoon just north of the town of Seward.

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

Lowell Point is a flat well wooded point, with a sand and gravel beach. From Lowell Point north to the town of Seward the shoreline is precipitous and boulder strewn.

The town of Seward is located on a gently sloping piece of ground evidently built up as a delta by Lowell Creek and ancient glacial action. The mountains rise steeply behind the town and Lowell Creek, flowing through the town, is a glacial stream, subject to severe high waters. A flume has been constructed to care for sudden floods. Mt. Marathon directly back of Seward forms an imposing landmark when approaching the head of the bay. The top is sharp and easily identified. Deep water lies close to the beach except in the vicinity of Lowell Point and north of the town.
There are three main wharves, the largest being the railroad
dock with a 600 foot frontage. The oil dock, 100 foot frontage,
has deep water and larger vessels may tie up to it by making use
of the dolphin at the southwest end of the face. Larger vessels
may also tie up at the San Juan Fish Co. dock which has a frontage
of 200 feet. All docks have a supply of water, but larger vessels
should take water at the railroad dock. There are several good
general stores where ordinary supplies may be secured. Some ship
chandlery is handled and a limited amount of engine parts and re-
pairs may be had at the local machine shop. Coal, fuel oil, gas-
oline etc. may be obtained. Coal must be ordered ahead if desired
in large amounts, and the fuel oil supply at times is limited.

A well equipped private hospital is maintained, which takes
care of marine cases. The U. S. Public Health Service maintains
medical and dental service. A very good public school system is
maintained.

The principal industries are fishing and mining. A good
landing field has been constructed at the head of the bay, and
several air lines using both land and sea planes operate very
complete service. Seward is an outfitting point for prospectors,
hunters and fishermen. A good automobile road extends northward
about 18 miles to Lake Kenai.

There is telegraphic communication to Anchorage and thence
to outside points by wireless. Rail service is maintained through-
out the year as far as Fairbanks.
METHODS OF SURVEY

A plane table was used throughout. Triangulation points were established supplementing those of previous surveys, so that traversing was not necessary.

ELEVATIONS

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

STATISTICS

Statute miles of shore line ------------------------- 5.0
" " roads -------------------------- 11.5
" " railroads -------------------------- 3.5
Area, square statute miles -------------------------- 20.0

Respectfully submitted:

Geor. L. Bean,
H. & C. Engr.

Approved and forwarded:

H. B. Campbell,
H. and C. Engr.,
Chief of party, Ship DISCOVERER.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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 ....F.......

REGISTER NO. 4733

State..........................ALASKA

General locality........................................KENAI PENINSULA

Locality...........................................SEWARD AND VICINITY

Scale....................................1/8,000 Date of survey AUGUST, 1932

Vessel....................SHIP DISCOVERER

Chief of Party.......H. R. Campbell

Surveyed by.................C. L. Bean

Inked by..........................C. L. Bean

Heights in feet above M.S.D...to ground to tops of trees

Contour Approximate contour Form line interval 100 feet

Instructions dated............................April 21, 1932

Remarks:..................Joins Field Sheet "C" to form complete

....survey of head of Resurrection Bay

C. L. Bean

Chief of Party
REVIEW OF TOPOGRAPHIC SURVEY No. 4733

Title (Par. 56) Seward and vicinity, Kenai Peninsula, Alaska

Chief of Party: B. Campbell
Surveyed by: J. Bean
Inked by:

Ship: Discovery
Instructions dated: April 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-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. The delineation of - contours-formlines- is satisfactory. (Par. 49, 50, ) is unsatisfactory. It is not in keeping with the larger scale of this sheet (1:5000). The ridge marked 360° 05' differs from that shown on T. 2719.

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.) Landmarks not checked.

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.)

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.
4. An additional number of elevations were
determined in 1933 and have been added
to the sheet in blue ink.

5. Corrections to sounding resulting from
additional elevations were placed on the sheet.
Also see attached letter dated Nov. 5, 1934, and
bromide copy filed with Th#33.

12. The treliner has been added to the
sheet from information on the bromide copy
of the sheet.
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, 69.) Incomplete as affecting landmarks, changes in all station.

14. The descriptive report also contains additional information required in cadastral topography, relative to type of photographs, method of compilation and type of ground control.

15. 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, 69.)

16. No list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16b, 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.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks: Two church steeples as landmarks on chart 8629, the eastern one 183.2 is a N.D. A station, W. (stack) is shown as landmark on chart 8629, i.e.

Reviewed in office by W. J. Christiansen June 7, 1933

Examined and approved:

[Signatures]

Chief, Section of Field Records
Chief, Section of Field Work
Chief, Division of Charts
Chief, Division of Hyd. and Top.
15. Recoverable plantable stations have now been submitted on Form 524.

16. List of landmarks has been submitted.

24. The information is covered by the list of landmarks. A duplicate copy is attached to this Descriptive Report.
See letter to Commanding Officer, DISCOVERER, dated July 15, 1933, subject, Topographic survey, vicinity of Seward, filed in descriptive report of T. 373S.
LANDMARKS FOR CHARTS

Seattle, Washington

November 5, 1934

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>DESCRIPTION</th>
<th>POSITION</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Most westerly of several</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tanks.</td>
<td>LARGE OIL TANKS</td>
<td>60 05 1795 149 26 335 Seward P.T.</td>
<td>8529</td>
<td></td>
</tr>
<tr>
<td>SCHOOL HOUSE</td>
<td></td>
<td>60 06 565 149 26 731</td>
<td>&quot; P.T.</td>
<td></td>
</tr>
<tr>
<td>TWO SMALL IRON TANKS</td>
<td></td>
<td>60 06 562 149 27 85</td>
<td>&quot; P.T.</td>
<td></td>
</tr>
<tr>
<td>These landmarks should be</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>removed from chart.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHURCH STEEPLE</td>
<td></td>
<td>60 06 153 149 26 590</td>
<td></td>
<td>8529</td>
</tr>
<tr>
<td>Hidden by trees and not</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>conspicuous.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STACK</td>
<td></td>
<td>60 05 1733 149 26 335</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not conspicuous.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SILO</td>
<td></td>
<td>60 07 47 149 27 95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No longer exists.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, flagstaffs and like objects are not sufficiently permanent to chart.
To: The Director,  
U. S. Coast & Geodetic Survey,  
Washington, D. C.

From: Commanding Officer,  
Ship DISCOVERER.

Subject: Topographic Survey, vicinity of Seward, No. 4733.

Reference: 80-DRM.

There is returned by separate mail a bromide of topographic sheet No. 4733, with corrections as made in the field at Seward while enroute to Seattle in October 1933. This sheet had been filed with other bromides and overlooked until called to my attention by your letter.

Referring to omissions listed in your letter of July 15, 1933:

1. Additional elevations were obtained and are shown in red. It would be extremely difficult to obtain more elevations without occupying the hills, and time available did not permit this. Form lines are changed where necessary (in red) to conform to additional elevations. It is believed that form lines as shown are close enough for the requirements of navigation.

2. The approximate tree line is shown on the bromide.

3. A list of Landmarks for Charts is forwarded on Form 567.

4. Recoverable stations are listed on Form 524 and forwarded.

H. B. Campbell,  
Lieut. Commander, C. & G.S.,  
Commanding, Ship DISCOVERER.