

2981b

2981b  
Q1862

C. & G. SURVEY  
L & A

DEC 11 1929

Acc. No.

Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: Alaska

11-5613

DESCRIPTIVE REPORT.

Hydro. Sheet No. 9 2981b

LOCALITY:

Uyak Bay

Kodiak Island

1929

CHIEF OF PARTY:

R. R. Lutens

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

29815

C. & G. SURVEY  
L. & M.  
DEC 11 1929  
Acc. NO.

HYDROGRAPHIC TITLE SHEET

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

Field No. 9

REGISTER NO.

29815  
29815

State ALASKA

General locality West Coast Kodiak Island

Locality Uyak Bay, vicinity of Amook Island

Scale 1:10,000 Date of survey May 31-June 1st, 1929

Vessel SURVEYOR

Chief of Party R.R. Lukens

Surveyed by R.R. Lukens

Protracted by Harold J. Oliver

Soundings penciled by Harold J. Oliver

Soundings in fathoms ~~XXXX~~

Plane of reference MLLW at Uyak.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 14, 1929, 1929

Remarks: Survey made to locate rock on which the

S.S. ALEUTIAN WAS lost on May 26, 1929.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *2981.b*

The following statistics will be submitted with the cartographer's report on the sheet:

|  |                           |
|--|---------------------------|
| Number of positions on sheet                         | <i>149..</i>              |
| Number of positions checked                          | <i>43...</i>              |
| Number of positions revised                          | <i><del>75</del> none</i> |
| Number of soundings recorded                         | <i>385..</i>              |
| Number of soundings revised                          | <i>.15...</i>             |
| Number of signals erroneously plotted or transferred | <i>.1.....</i>            |

Date: *April 17, 1930*.....

Cartographer: *V. L. Billings*.....

August 22, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 2981 b

Uyak Bay, Vicinity of Amook Island, Alaska

Surveyed in 1929

Machine and Hand lead soundings.

Chief of Party, R. R. Lukens.

Surveyed by R. R. Lukens.

Protracted and plotted by H. J. Oliver.

Verified and inked by V. L. Billings.

1. The records conform to the requirements.
2. The plan and character of development conform to the requirements of the General Instructions.
3. No specific instructions were issued for this work, the purpose of the survey being to locate or disprove a suspected danger to navigation, as the master of the S. S. Alentian, reported he was steering a mid-channel course when the vessel struck a rock and sank. The results of this survey and the accompanying wire drag survey, H. 2981 a, disprove the existence of such a danger in the reported location.
  - a. The charted rock shown in Lat 57° 25.5', Long. 153° 51.0', was examined and evidence was found that this was the obstruction on which the vessel struck. (See P. 41, sounding record)
4. The sounding line crossings are satisfactory.
5. The information is sufficient for drawing the usual depth curves.
6. There are no junctions except with the survey of 1908, H. 2981.
  - a. The sounding lines on the old survey are widely spaced and several much shallower depths are brought out by the closer development of the new work.

- b. The new location of Alentian Rock, checks well with the old position as determined on H. 2981.
7. The usual amount of field plotting was well done by the field party, except that there were no initials on the sheet to show that the projection and signals had been verified.
8. Character and scope of surveying --- very good.
- a. As all of the critical depths on this sheet were covered by the wire drag by a depth of over 30 feet, Alentian Rock is clearly the only danger within this area. This rock is fully described in this descriptive report.
9. No additional work is necessary.
10. Reviewed by R. L. Johnston, May 16, 1930.

Approved:

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Chief, Section of Field Reports (CHARTS)

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Chief, Section of Field Work (H. & T.)

DESCRIPTIVE REPORT.

Hydrographic Sheet

No. (9) 2981 b

Uyak Bay Alaska.

Str. SURVEYOR.

At 5:30 am on May 26th, 1929, the S.S. Aleutian while going full speed struck a rock in Uyak Bay near the south end of Amook Island. The vessel sank in less than 10 minutes. The SURVEYOR being near at hand, picked up the passengers and crew and landed them at Seward. Immediately upon returning to the working grounds a survey was made to locate the obstruction on which the vessel was wrecked.

Capt. Nord, the master of the Aleutian was a man of many years experience and had a remarkably fine record as a navigator. He insisted that he was steering a mid-channel course when the vessel struck, and his course and heading seemed to bear out this statement. The old survey of the area was fairly good, but the sounding lines were spaced rather widely and it was possible that a danger might have been missed. Considering all angles of the case, I was under the impression that the Aleutian had struck an uncharted rock.

After both a lead line and a wire drag survey had failed to reveal any dangers it was clear that the vessel had <sup>not</sup> struck a rock in mid-channel. The low tide rock  $\frac{1}{4}$  mile off the Amook Island shore was then examined and conclusive evidence was obtained that it was the obstruction on which the vessel was lost.

PURPOSE The purpose of this survey was ~~to locate~~ a suspected danger to navigation.

CONTROL Five old triangulation stations were recovered and re-marked. A few white wash marks were established and located by plane table using the boat sheet. One station was located by a sextant resection on a plane table cut. Another station was located by sextant cuts from triangulation stations.

METHODS The sounding was done from the motor sailer using a power driven sounding machine. The registering sheave was tested during the season and found to be correct.

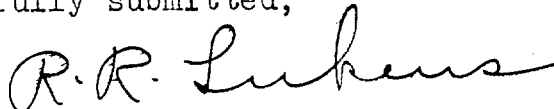
TIDE GAUGE The tidal reductions used on this sheet are from the portable automatic gauge at Uyak.

ALEUTIAN ROCK This is a dangerous rock arising abruptly out of deep water and muddy bottom. It bares about 1 foot at MLLW. The rock was visited when the tide stood at about minus 3 feet, and the rock was then about 30 feet long and 10 to 15 feet wide lying in a north and south position. No kelp was seen in the vicinity. At high water there is nothing to indicate the presence of this rock. Two fixes were obtained while standing on the rock. As these fixes do not agree exactly, the one using triangulation stations only was accepted.

The Aleutian crashed along the eastern side of the rock and is probably lying not far from it. The hydrographic party spent an hour or so dragging a lead line around but failed to locate the wreck.

As a result of the investigation by the U.S. Steamboat Inspection Service, Capt. Nord had his license suspended for 60 days.

Respectfully submitted,



R.R. Lukens,  
Chief of Party.

LIST OF SIGNALS.  
Hydrographic Sheet #9.  
Str. SURVEYOR.

|         |   |
|---------|---|
| Bluff   | Triangulation of 1908                                 |
| Al      | Plane table cut with sextant resection. Page 28 Vol.1 |
| Low     | Plane table location on boat sheet.                   |
| High    | " " " " " "   |
| South   | Triangulation of 1908                                 |
| Bass    | " " "   |
| Fall    | Plane table location on boat sheet                    |
| Spot    | Plotted from sextant cuts. Page 41, Vol.1             |
| Twin    | Triangulation of 1908                                 |
| Shingle | Triangulation of 1908.                                |



LIST OF STATISTICS.  
Hydrographic Sheet #9  
Str. SURVEYOR.

| Day | Date   | No. Pos. | No. Sdgs. | No. Stat.<br>Miles | Boat.        |
|-----|--------|----------|-----------|--------------------|--------------|
| a   | May 31 | 29       | 69        | 2.8                | Motor sailer |
| b   | June 1 | 120      | 316       | 15.0               | " "          |

ECM

Jan. 21, 1930

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in  
1 volume of sounding records for

HYDROGRAPHIC SHEET 2981B

Locality: Kodiak I (Uyak Bay-Alutian Rock) Alaska

Chief of Party: R. R. Lukens, in 1929  
Plane of reference is mean lower low water, reading  
2.4 ft. on tide staff at Uyak  
~~XXXXXXXXXXXXXX.~~

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

Section of Field Records.

Report on sheet # 2981 b.

Chief of Party: R. R. Lukens,

Protracted by Harold J. Oliver.

Verified and inked by V. L. Billings.

Surveyed in 1929, by R. R. Lukens.

Soundings plotted by Harold J. Oliver.

The records were complete and accurate except that reference was made of sextant cut beating station *alf*. This station was not shown on the smooth sheet; but was found to be identical with station *Spot* and notation was made in the record accordingly.

Protracting was very accurate and no changes were necessary.

Only 15 time intervals of soundings were changed.

Development was sufficient.

Sheet was clean and legible.

Respectfully Submitted,

V. L. Billings\*

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 22, 1930.

AND REFER TO NO. 11-WSW

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 2981 b

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Surveyed in 1929

Machine and Hand lead soundings.

Chief of Party, R. R. Lukens.

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Approved:

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Chief, Section of Field Reports (CHARTS)

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Chief, Section of Field Work (H. & T.)