

4922

Diag. Cht. No. 8502- & 8556

4922

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

....., Director

State: Alaska

DESCRIPTIVE REPORT

Topographic } Sheet No. 4922
Hydrographic }

Shows W.D. and Topography
LOCALITY

Kodiak Island

Vicinity of Uzinki, Spruce
Island.

1929

CHIEF OF PARTY

R.R. Lukens

GOVERNMENT PRINTING OFFICE

C. & G.
L
OCT 28 1929
Acc. No.

DESCRIPTIVE REPORT

Hydrographic Sheet # 20 also Top, Q. (same sheet)

Str. SURVEYOR

R.R. Lukens

Chief of Party

Uzinki and Low Island

Alaska

Scale

1:10,000

1929.

DESCRIPTIVE REPORT

Hydrographic Sheet # 20

Str. SURVEYOR R.R. Lukens, Comdg.

Scale 1:10,000

1929.

Authority The work shown on this sheet was done in accordance with supplemental instructions dated July 17, 1929.

Limits The sheet covers two hydrographic developements, a small amount of wire drag work, and some topography in the vicinity of Uzinki, Spruce Island, Alaska.

Control Control is based on the two triangulation stations Pass (1907) and Cor (1907). Both of these stations were recovered and properly re-marked. The location of the various signals, the light and beacon on Prokoda Islet depend on plane table traverse from station Pass. The location of the two docks and church spires depend on positions obtained by resection under strong conditions. Conditions were such that the light and beacon could have been located by triangulation only by considerable work. Prokoda Islet on sk 8570 R

Tide Gauge A portable automatic tide gauge was installed on the dock of the Katmai Packing Co which is on the eastern side of the bay. The plane of reference was computed by means of simultaneous observations with Seward. The tide gauge was left running while the ship proceeded to Seward for fuel, but unfortunately shortly after the ship left, the stylus failed to ink, thus shortening the length of the series seriously. Three benchmarks set in bed rock were established near the station.

Shoal southwest of Low Island This spit which extends nearly across the channel from the southwest end of Low Id. to a group of rocks, was missed completely by the original survey of 1907. It was reported this year by a Bureau of Fisheries vessel. The spit is of gravel sand and shingle and bares for a long distance from the island on a minus tide. The hydrography was done by Surveyors launch No.4 with Mr. Mathisson in charge.

Area northeast of Low Island On July 10, 1925, the S.S. Admiral Evans drawing 18 feet, reported touching bottom off Low Island on a line between Uzinki Point and Shakmanof Point. It was currently believed at the time that the Evans was nearer Low Id. than indicated in the report. A sister ship the Admiral Watson continued to use the channel, and went through at a minus tide

without indications of danger. A few sounding lines were run over the area and no dangers were found in the place indicated.

Wire Drag Work In order to prove the channel clear, a sweep was made with the wire drag set at 36 feet with the intention of getting a 30 foot effective depth. No obstructions were found, and the results show that the 30 foot effective depth was maintained in the axis of the channel with a slightly less depth at the end sections of the drag due to lift at one place, and to the shortening of an upright at another place. considerable kelp was picked up by the drag and this weighted down the ground wire between the buoys so that the actual depth between buoys is greater than indicated.

Range Marks A good range for crossing over this ridge is to keep Prodoka Islet Light just open on the vertical bluff forming Uzinki Point. This range leads over the axis swept to 30 feet. A careful sounding line on this range shows a least depth of 7 fathoms with smooth sand and gravel bottom.

Cannery Docks The dock on the eastern side of the bay is owned by the Katmai Packing Co. It has a face of about 120 feet and a least depth alongside of 20½ feet at mean lower low water. The dock on the west side of the bay is owned by the Grimes Packing co. It has a face of about 104 feet with a least depth alongside of 20 feet at mean lower low water.

Prominent Objects The two canneries and the Greek Catholic Church with its green roof and peculiar dome are the prominent objects to be seen when entering Uzinki.

There is a postoffice at Uzinki with a year around mail service. The monthly mail steamer from Seward and the vessels of the Pacific S.S.Co call there

Respectfully submitted

R. P. Rubens
Chief of Party

List of Statistics

Hydrographic Sheet # 20

Uzinki, Alaska

Scale 1:10,000.

LAUNCH # 4 + Motor sailer.

Vol	Day	No. of Sdgs.	No. of Positions	Stat. Miles	Date
1	a	330	83	7.8	8/29/29 #4
1	b	19	7	0.6	8/30/29 #4
1	a	<u>134</u>	<u>27</u>	2.0	10/8/29 M/s
		483	117		

WIRE DRAG WORK

Boat	Vol	Day	Positions	Drag Strip Sta. Miles	Date
Motor Sailer	2	A	20	1.2	8/30/29
Launch #4	3	A	20	- -	8/30/29
Gig	4	A	Buoy tender		8/30/29

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET #Q.
Orders dated July 17, 1929.

This sheet was executed to locate signals needed for the control of a hydrographic survey in the vicinity of Low Id., near Uzinki Narrows; to locate the fixed light and beacon off Uzinki; and to locate various improvements in Uzinki.

Triangulation stations PASS, 1907 and COR, 1907, were recovered and used as a basis for the topographic survey. A traverse was run from PASS to AB, taking cuts to all signals visible. At least four cuts meeting in a point were taken to every signal. A traverse ^{been} was run from PASS along the southwest shore until strong enough cuts had ^{been} obtained to definitely locate the light and beacon.

COR was occupied and cuts taken to the beacon and light and to various objects in Uzinki, and to points on both docks. These points were then occupied, and resection from the beacon determined their position. The rest of the objects located in Uzinki were located by traverse from these points.

L.S. Hubbard

LIST OF PERMINENT OBJECTS LOCATED BY TOPOGRAPHY.

Object and Description	Latitude	D.M.	Longitude	D.P.	Height
<u>Light</u> , a white, boxlike light house on island south of Uzinki Harbor	57 54	937 (919)	152 -30		679 (309)
<u>Beacon</u> , a black, diamond shaped figure on a dolphin at entrance to Uzinki Harbor.	57 54	1023 (833)	152 31		97 (891)
<u>W. Spire</u> , west spire on Russian Greek church in Uzinki.	57 55	478 (1378)	152 30		308 (680)
<u>E. Spire</u> , east spire on Russian Greek church in Uzinki	57 55	478 (1378)	152 30		298 (689)
<u>Flag Pole</u> , in school yard in front of school house	57 55	401 (1455)	152 30		381 (606)

February 1, 1930

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
volumes of sounding records for

4

HYDROGRAPHIC SHEET

4923

Locality:

Uzinki, Kodiak I., Alaska

Chief of Party:

R. B. Lukens, in 1929

Plane of reference is mean lower low water, reading

1.6 ft. below B. M.

Uzinki

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.

Chief, Division of Tides and Currents.

SECTION OF FIELD RECORDS

REPORT ON SHEET No. H-4922.

MARCH-13-1930.

CHIEF OF PARTY - R.R. LUKENS.

SURVEYED IN AUGUST-1929.

SURVEYED BY - C.A. EGNER & J.C. MATHISSON.

PROTRACTED BY - J.C. MATHISSON & H.F. GARBER.

PLOTTED BY - H.F. GARBER.

VER & INKED BY - W.H. BAMFORD.

- 1/ The records were found to conform to the General Instructions for Field Work.
- 2/ The protracting was excellent.
- 3/ The time interval was very irregular and quite a number of soundings were found to be spaced poorly.
- 4/ The sounding line crossings were found to be adequate.
- 5/ The development was found to be sufficient.
- 6/ It was possible to draw the usual depth curves.
- 7/ The sheet was clean and the work was legible.

8./ The field plotting was completed to the extent prescribed in the General Instructions.

9./ The office draftsman had to respace quite a number of soundings -

10./ The wire drag area on this sheet was not verified by me - but will be verified before the sheet is reviewed.

The shoreline was transferred from an ~~#4~~ enlarged photo stat of T-2854.

Respectfully Submitted.

Warren H Bamford

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

AND REFER TO No. 11-WSW

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 27, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic & Wire Drag Sheet No. 4922

Vicinity of Uzinki - Kodiak Island

Surveyed in 1929

Instructions dated July 17, 1929. (Surveyor).

Chief of Party, R. R. Lukens

Surveyed by C. A. Egner, J. C. Mathisson.

Protracted by J. C. Mathisson, H. F. Garber.

Soundings plotted by H. F. Garber.

Verified and inked by W. H. Bamford.

Verified and inked (Wire Drag) by G. Risegari.

1. The records conform to and the plan and character of development fulfill the requirements of the general instructions.
2. The plan and extent of development satisfy the Specific Instructions.
3. The sounding lines crossings appear satisfactory where shown.
4. In view of the fact that the main purpose of the survey was to prove or disprove the existence of a rock in the western approach to Uzinki Narrows and also of a reported shoal southward of Low Island the curves can be completed only in the areas where the work was chiefly centered.
5. The protracting was good but a number of soundings in between positions were found inaccurately spaced, particularly, where the time intervals were irregular.
6. There are no junctions to this sheet at this date.
7. The area covered by the survey on the reported shoal south of Low Island appears to be satisfactorily developed. The Position Doubtful sunken rock, See chart letter No. 356, (1929) shown on Chart 8570 would plot on this sheet close to a $2 \frac{2}{6}$ fathom sounding, Lat. $57^{\circ} 54' 19''$, Long. $152^{\circ} 33' 58''$. It was however, not located by the field party and probably

is non-existent. The closeness of the Position Doubtful rock to the spit which extends southward from Low Island as well as the foul area in this vicinity should be sufficient evidence of dangers lurking in this area.

- a. The area northeasterly of Low Island, covered principally by the wire drag disproves the existence of the Position Doubtful rock (see chart letter No. 344 (1925) shown on Chart 8570, Lat. $57^{\circ} 54' 56''$, Long. $152^{\circ} 33' 10''$). The drag went aground or fouled on heavy kelp at the north buoy at position 11a but was clear again at position 12a. Upon consultation with Captain Lukens, chief of party, it was stated that the launches did not stop and therefore, he felt certain that there was a steady tension on the bottom wire of the drag and that there was no reason to believe that the floats on the bottom wire lifted.
8. Attention is called to the additional information noted by the field party in the change of the Gravel Spit located at Lat. $57^{\circ} 54'$, Long. $152^{\circ} 32'$. Topographic Sheet 2854 shows the same spit but not continuous to the main island. New topography of Uzinki, featuring the canneries of The Katmai Packing Company and The Grimes Cannery Company, has been included on the sheet.
9. Character and scope of the surveying --- good.
- a. Field drafting --- good.
10. Reviewed by G. Risehari, March 27, 1930.

Approved:

A. M. Sobieralski
Chief, Section of Field Records (CHARTS)

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A
OCT 28 1929
Acc. No.

REG. NO. 4922

HYDROGRAPHIC TITLE SHEET

Shows also Wire Drag Work and Topog.

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. 20

REGISTER NO. 4922

State Alaska

General locality Kodiak Island

Locality Vicinity of Uzinki, ~~and Snow Island~~ ^{Spruce Island}

Scale 1:10,000 Date of survey Aug. 29-30, 1929

Vessel Str. SURVEYOR

Chief of Party R.R. Lukens

Surveyed by C.A. Egner & J.C. Mathisson

Protracted by J.C. Mathisson and H.F. Garber

Soundings penciled by H.F.G.

Soundings in fathoms ~~xxxxx~~

Effective depth of wire drag shown in feet

Plane of reference MLLW on staff at Uzinki

Subdivision of wire dragged areas by H.F.G.

Inked by *W. H. B.*

Verified by *W. H. B.*

Instructions dated July 17m 1929 (Supplemental), 192

Remarks: Sheet combines small amount of hydrography, topography and wire drag work.

2 B.S.
3 W.D. Vols
1 V. Skys
1 Rev. Rep.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
OCT 28 1929
Acc. No.

REG. NO.

TOPOGRAPHIC TITLE SHEET

Attach to Title Sheet of H. 4922

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. 0

REGISTER NO.

State Alaska

General locality Kodiak Id

Locality Uzinki

Scale 1-10,000 Date of survey Aug 29-30, 192 9

Vessel Str. SURVEYOR

Chief of Party R.R. Lukens

Surveyed by L.S. Hubbard

Inked by L.S. Hubbard

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated July 17, 192 9

Remarks: _____

August 27, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic & Wire Drag Sheet No. 4922

Vicinity of Usinki - Kodiak Island

Surveyed in 1929

Instructions dated July 17, 1929. (Surveyor).

Chief of Party, R. R. Lukens

Surveyed by G. A. Egner, J. C. Mathisson.

Protracted by J. C. Mathisson, H. F. Garber.

Soundings plotted by H. F. Garber.

Verified and inked by W. H. Bamford.

Verified and inked (Wire Drag) by G. Risegari.

1. The records conform to and the plan and character of development fulfill the requirements of the general instructions.
2. The plan and extent of development satisfy the Specific Instructions.
3. The sounding lines crossings appear satisfactory where shown.
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 - a. Field drafting --- good.
10. Reviewed by G. Risegari, March 27, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

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

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. H-4922

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

Number of positions on sheet . 117 . . .
Number of positions checked 31 . . .
Number of positions revised ZERO . . .
Number of soundings recorded . 483 . . .
Number of soundings revised 71 . . .
Number of signals erroneously
plotted or transferred . . . ZERO . . .

Date: March 12 - 1930
Cartographer: Warren H. Bayford

Applied to Chart No.

8534 (1935), 1:80,000, by James W. McGuire