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	Form 504 DEPARTMENT OF (U. S. COAST AND GEODE			,		
	E. Lester Joneson					
	State: Alaska				!	,
	DESCRIPTIVE Topographic Hydrographic Sheet No.		,		_	
	EKenai Peninsula NUKA BAY, N	Y ORTH ARM			-	1
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	1927					·
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TO ACCOMPANY TOPOGRAPHIC SHEET NO. D

NUKA BAY - NORTH ARM

STR. SURVEYOR - - - - - - - R. R. LUMENS, CHIEF OF PARTY

Work executed under instructions issued to the Commanding Officer of the STR. SURVEYOR, dated February 3. 1927.

GENERAL DESCRIPTION OF THE COAST

All of the shore line indicated on this topographic sheet is "inside" coast. The shore line is in general steep and can be approached quite closely in most cases. The land rises abruptly to moderately broken terrain, and is covered with spruce trees, alder bushes and other small shrubs, to approximately 1,000 feet elevation. Several peaks rise to an elevation of 3500 feet. These are bare and sharp. All of the rocky coast is of a slate color, in some cases almost black, and the beaches are usually coarse sand, or gravel, slate colored.

INSHORE DANGERS

Along the southwest shore of HARRINGTON POINT, there is a group of rocks awash at low water, but in ordinary weather these usually have occasional breakers, and lie close inshore as indicated. The rock awash at low water, about 200 meters south of station ISLE, does not always break, and if ROCK BAY is entered thru the narrow channel a good lookout should be kept for this rock. Two large focks at the entrance to PILOT HARBOR occupy symmetrical positions. The northern one was used for a triangulation station and is always visible. The one near the south side is almost awash on unusually high tides, and is small in size.

LANDMARKS

No definite landmarks exist, except peaks.

SURVEY METHODS

This sheet was started before any triangulation had been established in the NORTH or LOWER WEST ARM. Work began at station MOSS, and graphical triangulation was extended to the head of NORTH ARM, over the triangulation signals, which were subsequently occupied by the triangulation party. The computed positions of all triangulation stations which had been previously located by the topographic party, required no adjustment - the plane table positions being identical with the triangulation positions.

All shore line is well controlled by triangulation, and all tributary bays are connected to the main triangulation by plane table triangulation. Details of the shore line were located by plane table cuts and traverse. No unusual methods were employed in the survey of the shore line proper. All elevations shown checked satisfactorily, and where insufficient elevations were obtained, the form lines are Because of low-lying clouds, much of the topography back of the immediate shore line in the lower section of The form lines shown the sheet could not be observed. are dotted and have been located from the *CEOLOGICAL SURVEY RECONNAISSANCE MAP of this vicinity. The approximate, 500 foot form lines have been shown likewise in the vicinity of NUKA RIVER. . The northernmost glacier up MUKA RIVER VALLEY can be seen from SHELTER COVE (see A single cut was obtained to the illustration No. 1). foot of the glacier.

ERROR IN POSITION OF STATIONS ANY and BAD

When the hydrography was done in the small cove near the entrance to CABIN BAY on the North shore (Lat. 59 - 28, Long. 150 - 36) a discrepancy was found which seemed to indicate that signals ANY and BAD were in error. An attempt was made to adjust these positions by using the hydrographic angles but there is still considerable doubt regarding the positions of the signals referred to The actual procesdure in doing this topography above. A thru point fix was made at DER, rod is given here. Set up again at BAD read to BAD, and a cut to RUDE. and completed the shore line including signals ANY and RUDE by rod reading from station BAD. This work was done hurriedly because of extremely unfavorable weather and there is probably some error in the location of signal BAD. Signals DER and NUDE have been checked and The signals could not be relocated by the are correct. hydrographic party because of inclement weather and swells which prevented landing without a skiff. The soundings have been plotted on the hydrographic sheet as they were run without regard to fixes between positions 14g and 21g. The survey of this cave should be regarded as inaccurate and should be checked at the first opportunity. Signals NUDE, BAY, and COVE are recoverable. NUDE is the extreme Southerly point of the point about 20 feet above high water marks.

NEW PLACE NAMES

The following well established local names are:
NORTH ARM, WEST ARM, MOUNT DIABLO, NUKA RIVER, SPLIT GLACIER, IRON CREEK, and HARRINGTON POINT.

The following names are not in common use and are listed with those now in use.

** Heologic Recommensance Map: Kenas Permeulo; alacka, Map no 15922

* This area was resurveyed in 1928 and the exercise experient to T. 4334.

The following names have been assigned by COAST SURVEY OFFICERS: MOSS POINT, BEAR COVE, PALISADE LAGOON, ARIADNE COVE, BEAUTIFUL ISLE and ARIADNE ISLAND.

The names: YALIK BAY, QUARTZ BAY and SURPRISE BAY should be given preference, as these names are surely established among the miners and prospectors of this vicinity and the claims thereabouts are described and filed as being on such bays.

MINING ACTIVITY

A group of prospectors have combined under the name of the ALASKA HILLS MINING COMPANY, and have started operations for gold mining on the shoulder of a mountain about three miles north north east of the mouth of the NUKA RIVER, on the east side of the RIVER. At the end of the 1927 season, this outfit had ceased operations because of lack of funds.

DOWNEY and BABCOCK, two prospectors, have a small gold mine in operation about one mile up the valley at the head of PALISADE LAGOON. They have been mining about 5 years, and have apparently struck a paying lead. Numerous other shafts and tunnels have been started in the hills in the vicinity shown on this sheet, but the general opinion of all the prospectors, interviewed. seems to be pessimistic concerning the paying qualities Most of the country is too faulted. of the gold. are about a dozen prospectors working this section. This country is cut off from the rest of the KENAI PENINSULA by ice caps, which completely surround the BAY. One man, a prospector and hunter. a claim to have made the trip across the KENAI PENNINSULA to KACHEMAK BAY. He maintains there is a pass across the peninsula, and that he made the trip, starting up the MUKA RIVER VALLEY. He described the trip to the writer . and by comparing

his description with GEOLOGICAL SURVEY MAP of this vicinity, it is presumed that he turned westward about 15 miles N (true) of the mouth of the NUKA RIVER and followed one of the deep hox canyons shown on the GEOLOGICAL SURVEY MAP. This trip is mentioned because it has been generally believed that no pass existed across the peninsula at this point.

PHOTOGRAPHS

The photographs transmitted herewith were taken on MAY 27th and 28th, 1927 and will indicate the nature of the topography around NORTH ARM. In such arms, it is felt that the careful use of an accurate panorama camera would save condiderable field work in the determination of form lines. In the specific case of the 1927 season in NUKA BAY, all form lines might have been accurately established and a permanent record preserved, during the weeks of clear weather. These photographs were given to a local photographer to develop in order that they could be used immediately, and it is obvious that the work is not first class. The record obtained by a good panorama camera, properly used is invaluable, and should always be obtained where occasion will permit.

AEROPLANE LANDINGS

There are no good plane landings in the area covered by this sheet. If forced to land in this vicinity, either of the flats at the head of WEST ARM or NORTH ARM might be used. These are doubtful because of small streams and boulders. Good landings could probably be made on the ice cap west of MOUNT DIABLO at an elevation of about 2000 feet. This cap has been described to the writer by several prospectors as being smooth and level. This location would of course be undedirable except in case of emergency.

Respectfully Submitted

Seattle, Washington. Dedember 8, 1927.

Paul A. Smith Ur. H. & G. E. Topographer,

July Impiritud and frank adjuste with the exception of the form lines in some parts of the work where there are less than the specified number of determined elevations. This is particularly time of the form lines shown with deaded lines which as

of the form lines shown with deaded lines which are from a Gological Sung recommended and understady are below the would standered of securing:

NORTH ARM SHEET D .
List of Plane Table Positions

Object.	Lat.	D. M.	Long.	D. P.	Remarks.
Reef	59 34	8 <u>42</u>	150 31	102	Rock south side entrance Pilot I Harbor
Nude	59 27	1654	150 35	40 8	Southern most extremityvof point
Jack	59 35	27	150 33	718	Southern most point of large detached rock south of Bear Cove
Goon	59 31	131	150 29	•	Large lone boulder on beach
Sis	59 : 2 7	245	150 36	550	Lone dead tree south side of Cabin Bay, 1/4 mile from ent-rance

Report to Accompany Supplement to Topographic Sheet "D" Nuka Bay May 7, 1928.

The work shown on this sheet was done May 7, 1928 to correct an error of topography on the original sheet done in 1927 by P. A. Smith. The hydrography disclosed a discrepancy in the signals in this vicinity and as no apparent error could be found in the work, the topography and hydrography was done again. As was stated in my report to accompany Topographic Sheet "D" of Nuka Bay this section was done hurriedly under most unfavorable weather conditions and was extremely doubtful. The correction has accordingly been made.

Paul A. Smith

Jr. H. & G. E.

Topographer.

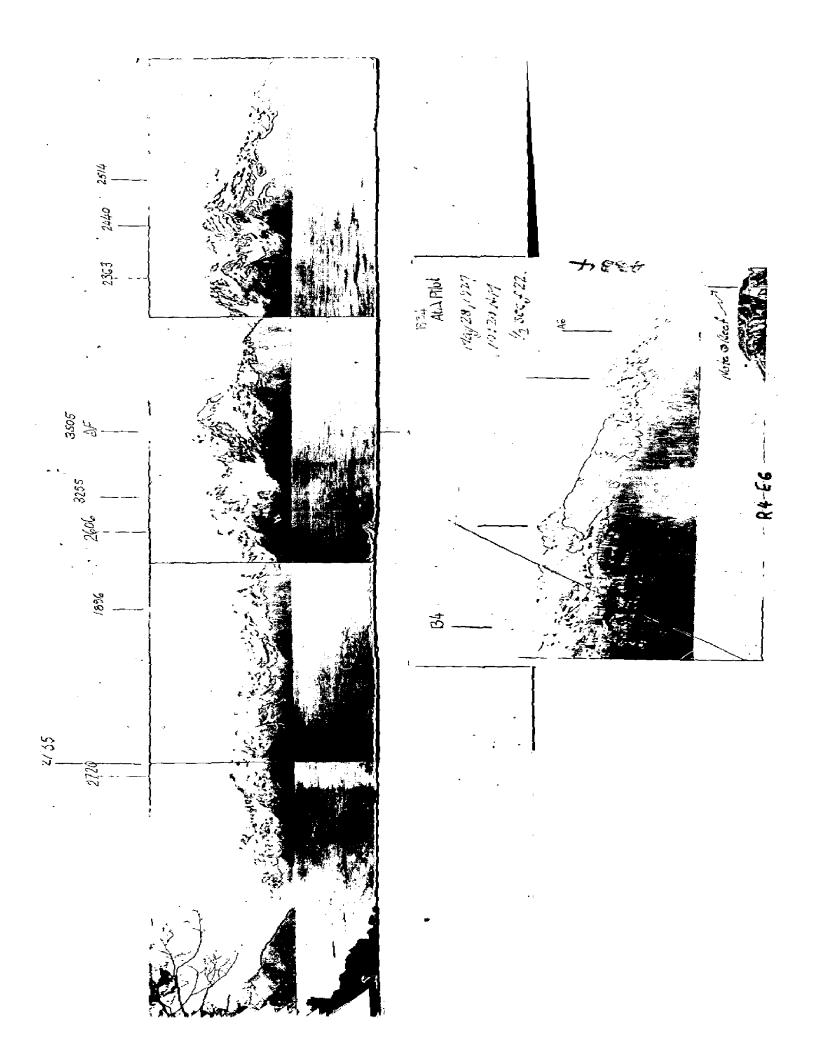
Arthur Cove Nuka Bay May 9, 1928.

The resurvey described above was submitted to the office on a new sheet. The new work has been applied to original sheet 4334 and the new sheet has been destroyed.

Chief, Field Records Section.

June 15, 1928.

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Report on Geographic Names, Topographic Sheet No. 4334 Nuka Bay, North and West Arms, Kenai Peninsula, Alaska

The following names have been approved by the Geographic Board divisor and may be used in our publications:

Surprise Bay to be used on chart conforming to local usage.

Surprise Bay to be used on chart conforming by and they by.

Mount Diablo, Surprise Bay, Shelter Cove, Yalik Bay, Pilot

Harbor.

The name Surprise Bay on the turbogical Survey map of this locality

the name Surprise Bay on this their and also to the Palisake Bay in cost Pilot.

Retain the name as found in Cost Pilot and on this sheet till tree; Bd have made a

The following names have been published by the U. S. Geolog decision

ical Survey: North Arm, Split Glacier.

The following names are reported to the U. S. Geographic Board as being well established by local usage:

West Arm, Nuka River, Harrington Point.

There are numerous Iron Creeks, which makes this name undesirable.

Ferrum Cr adopted by KB.

The following names assigned by the field officers are recommended to the Geographic Board for approval:

Palisade Lagoon, Ariadne Cove, Ariadne Island, Beautiful Isle.

Bear Cove is not acceptable because of numerous repetitions.

Moss Point is duplicated in Moss Cape in another part of Alaska and may be rejected by the Geographic Board.

The following names are recommended by the reviewer and sent to the Geographic Board for approval:

Storm Mountain, Palisade Mountain, Yalik Point.

The following change of name is recommended to the Geographic Board because of change in local usage: Quartz Bay instead of Rock Bay.

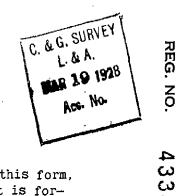
For other names on page 3 would use the following: Surprise Bay; Shelter Cove, Yalik Bay, Pilot Harbor.

Cabin Bay by decision of theog Bd. Use Cabin Bay incluse changed.

H. Bacon.

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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 No. _ D

REGISTER	NO.	Δ	3	3	D

State	Alaska
General locality	Nuka Bay Kenai Peninsula
Locality	- North and West Arms of Nuka Bay
Scale 1:20,000 I	Date of survey May, June, July 192 7
Vessel	SURVEYOR
Chief of Party	R. R. Lukens
Surveyed by	P. A. Smith
Inked by	P. A. Smith
Heights in feet above	M. H. W. to ground to tops of trees
Contour, Approximate	contour, Form line interval 100 feet
Instructions dated	February 3
Remarks:	
	G P D

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.

REGISTER NO. 4334 Add'I.Wk,	
State Alaska	
General locality Nuka Bay Kenai Peninsula	-
Locality Cabin Bay	
Scale 1:20,000 Date of survey May 7	
Vessel SURVEYOR	
Chief of Party R. R. Lukens	
Surveyed by P. A. Smith	
Inked by P. A. Smith	
Heights in feet aboveto ground to tops of tree	; S
Contour, Approximate contour, Form line intervalfeet	
Instructions dated, 192	
Remarks: To correct error in Original Sheet "D" Nuka Bay 19:	<u>37</u>
To be incorporated with original sheet 4334	
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This work has been apopularly to T, 4334 and The revision school distroyed.

June 15, 1928