4933

DIEG. Cht. No. 8502-2 & 8556-1

Contract of the safe of the sa						
Form 504 DEPARTMENT OF C	OMMERCE					
U. S. COAST AND GEODETIC SURVEY						
R.S.Patton Dire	etor					
	C. & G. SURVEY					
	DEC 5 1929 Acc. No.					
State: Alaska.						
DESCRIPTIVE R Tepographic Hydrographic						
Hydrographic Sheet No.	¹² · 4933					
LOCALITY						
Kodiak Island.	- 					
Broken Point to	Long Virland					
Cape Kuliuk to Brok						
<i>199</i> 9						
OHIEF OF PA	RTY \$. G.E.					

DESCRIPTIVE REPORT

HYDROGRAPHIC SHEET # 12

Str. SURVEYOR

R. R. Lukens, Comdg.

Scale 1:20,000

1929.

Authority. The work executed on this sheet was done in accordance with instructions dated March 14, 1929.

Limits. The work consists of inshore hydrography on the west coast of Kodiak Island extending from Broken Point to three-quarters of a mile south of Cape Kuliuk. The hydrography is carried offshore for a distance ranging from one to two miles to join the limits of field sheet # 7 which is a survey of Shelikof Strait on a scale of 1:100,000. It is joined on the south by the limits of sheet # 15 on a scale of 1:20,000.

Control. The signals were located by plane table traverse between triangulation stations. The only appreciable closing error, ammounting to ten meters, lied between triangulation stations Ugat and Cleft which was adjusted.

Tide Gauge. Tides are referred to the Standard Automatic Tide Gauge at Uyak without adjustment.

Surveying Methods. All the sounding: was done by the motor sailer with the usual surveying methods being employed. In general the lines were spaced 300 meters apart with closer spacing on shoal indications. The lines were run normal to the beach using a 12# hand lead for depths up to 10-12 fathoms and shifting to a power driven sounding machine with a 20# lead for greater depths. For the machine soundings the launch ran full speed between soundings coming to a full stop for the cast. Ranges were run throughout this area, no courses being recorded.

Shoals. Three offlying shoals were developed within the area covered by this sheet. The shoal lying 350 meters N.E. of Broken Point was developed by running 25 meter lines and sounding to thirteen fathoms with the hand lead. The 13-fathom no-bottom soundings were not ploted. The least depth found on this shoal was $5\frac{1}{2}$ fathoms at

testo 3 16 fm a the shoot for H-2963

M.L.L.W. Another shoal, developed in the same manner lies mile N.N.W. of signal Fas with a least depth of $7\frac{3}{4}$ fathoms at M.L.L.W. Some of the developing lines fell very close to sogether so a part of the lines having soundings of 10-12 were omitted on the smooth sheet to avoid confusion. Owing to the distance of the signals used in the fixes it was impractiable to plot the positions on a larger scale on a sub-plan. The third shoal lies one mile N.N.W. of Miner Point with a least depth of 14 fathoms at M.L.L.W.

Reefs. The reef, 120 meters N.E. of triangulation station Cape Ugat, is a continuous reef at low water with several protruding points at half tide. It covers at about two thirds high tide. The reef lying 250 meters E.N.E. of Broken Point is awash at two feet minus tide. Its position was determined at extreme low water, in running to another working ground when the boat sheet was not in the launch. When plotting the position later it was found that the fix obtained with a check angle disagreed with the original fix by a distance of 40 meters. The fix which plotted the farther offshore was used as the position.

Character of Coast. The coast line is quite rugged, with rocks covering at high water close inshore. The beach between signals Ol and By is covered with boulders extending offshore. At the time of the survey there was heavy kelp in the bights as shown on the sheet, and in most cases impenetrable with a launch.

Bottom Characteristics. The bottom offshore is covered with a yellowish volcanic ash from the Katmai eruption in 1912. The ash resembles fine sand and is recorded and plotted as such.

Channels.

A channel line between the peninsula and the island off Cape Ugat was run with a least depth of 40 feet reduced. At the time there was a strong head current running. Cannery tenders operating in this vicinity use this channel at full speed constantly.

Anchorages.

There are no anchorages for large vessels in this area. The area east of Cape Ugat is clear, and offers protection for small craft in SW'ly winds.

Prominent Objects. The island lying off Cape Ugat is conical shaped, and stands out so that it can be seen for miles up and down the coast. The ridge rising from Cape Kuliuk has a height of 2000 ft., and appears as the most prominent ridge in the vicinity.

The names of the points, Broken Point, Geographic Names. Miner Point, Cape Ugat, Cape Kuliuk are used locally as they appear on chart " 8055. The point on which signal Fas is located was named Twocone point on Topographic Sheet "G".

Respectfully submitted.

Note by Chief of Party:

During the summer there is a great deal of beach fishing along this coast. Usually two fishermen work together from a camp on the beach. They use gill nets and seines. Tenders from the canneries come along at frequent intervals and pick up the salmon which they catch. During the fishing season, the coast is dotted with the white tents of the fishermen.

In former years there was considerable beach mining for

gold here, but it is no longer profitable.

Referring to the patches of volcanic ash showing at various, places, these might easily be mistaken for snow patches. All the peaks in this vicinity are bare of snow by late in the summer,

with only an occasional streak showing on a few high ravines.

The descrepency in the position of the low tide rock off Broken Point was only called to my attention after arrival in

Seattle and there was no opportunity for verifying it.

CAPE UGAT There is a cove on the east side of this cape which affords good small boat anchorage in westerly weather. At the time of the survey, it was so full of gill nets that a close developement was not possible. The fact that gill nets are used here indicates that there are no obstructions.

Referring to hydro. signals UZ-SPIRE-OUT, the officer in charge of the launch unfortunately did not record the cuts in the sounding volume. The positions have been taken from the boat

sheet.

Chief of Party.

Statistics for Hydrographic Sheet # 12.

Day.	Vol.	Sta. Miles of Sdg. Lines.	No of Sdgs.	No of Positions.	Date.
a.	- 1	25.0	440	120	6/21/29
b .	1	20.2	463	106	6/22/29
c.	1&2	17.2	333	101	6/28/29
đ.	2	5.0	156	33	7/18/29
е.	2	18.0	289	93	7/19/29
f.	2	2.7	82	23	7/20/29
g.	2&3	27.9	585	147	7/25/29
h.	3	21.3	601	141	7/26/29
	To tals:	137.3	2949	764	

List of Signals on Hydrographic Sheet # 12.

Hydro B ro	Name.	Lo	cation	•		Hydro	o Name∙,	Locat	ion.
Bro.		Broken	Point	. 190	8.	La.		Topographic	Sirmal
\mathtt{Min}_{ullet}		Miner'	s Poin	t19	08.	Pa.		Sheet G.	•
Gat.		Cape U	ga t1	909.		l"o.		17 17	11:11
Cleft.	,	Cleft-	- 1908.			Bn.		17	11
Bank.		Bank	1908 19	29		Pi.		*1	11
Las.		Topo S	ignal .	Sheet	G.	Sy.		11	11 _
Go.		$\mathfrak L$	Ŭ 11	11	11	Ru.		11	31
క్ర*		n	t1	17	IT .	₩e.		11	17
Jp.		***	11	11	2.	If.		51	11
In.		11	11	11	11	House	3.	11	11
To.		11	ff	11	11	Feg.		11	T*
${ m My}$.		17	ıτ	17	11	Cap.		11 .	11
٠٠٠٠		f 1	11	11	11	Big.		11	11
ىد∪g•	•	11	11	11	11	Low.		11	n •
Na.		tt j	77	17	11	Sat/		T I	11
Mu.		11	11	11	11	Got.		11	11
01.		11	37	71	. 11	Mis.		11	11
Ti.		11	11	11	71	Tix.		11	17
Bo.		7.1	17	11	11	Sti.		11	
Me.		*1	17	11	11	Sin.		11	• •
Al.		11	17	77	11	Ite.		11	•
By.		7.0	11	***	11	Wow.		11	•
No.		1 7	11	17	11	Dig.		11	11
$\mathbb{T}_{\mathbb{T}}$.		11	17	11	н _	Him.		tt .	• 11
t.		11	H	11	17	Fas.		11	T!
As.		11	37	11	11	Slo.		11	11
Ki.		11	11	-11	11	Toy.		T T	11
Lu.		17	11	**	n	Sun.		ŧf	17
Da.		17	π	11	11	Box.		ff	ri •
Fo.		11	11	11	11	Nab.		tr	• If
0x		11	77	11	11	Nex.		11	• !!
At.		11	11	17	11	Ate.		11	•
El.		11	11	BY 11	п	Tib.		11	•
Is.		11	tt	11	11	Pal.		17	17
$\mathtt{Am}ullet$		11	Ħ	11	11	Tre.		77	11
٠.		17	11	TT	11	Cor.		11	11
Uh.		11	71	11	17	Tel.		11	11 _
Et.		11	***	11	11	Ben.		11	• 11
Pe.		17	11	**	17	Oat.		11	•
Ot.		17	11	11	17	Uz.	Hydro-S	Signal.No cut	•
							orded, pl	lotted from b	oat

	DIVISION	OF	CHARTS,	FILE	No
--	----------	----	---------	------	----

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

				ittle, Was	h.	
				Nov 27 -	1929	, 19
SUPERINTENDENT, U. S	S. Coast and Geode	TIC SURVEY:				
The following det	ermined objects are	prominent, can	be readily	${\it distinguished}$	from seaward	i from th

scription given below, and should be charted: R.R.Lukena

							ief of Party.
			Position.				
Description.	Lati	tude.			Method of deter- mination.	Charts affected.	
	• ,	D. M. meters.	• ,	D. P. meters.	Datum.		
,							
BOX	57-48	541	53-55	176	Valdez	Trieng	8570
	Box is	negul	lar and	nromin	ent cl	mp of	
	rocks of	n the s	ummit o	f Cape	Kuliuk	. It	
	1s reco	mended	that t	his be	shown	on the	
•	onart a	a por	ne wren	a brie	r desc	ription	•
	7					-	
			-		.' i		
			-				
·							
		-			-		
						•	
		-			-		
					-		
		1	1	1	i ·		

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.

11-6948

James 21, 1930. an man of the style of the second of the Burney St. Willy Harry de mêtrespêdan Mine da exigere condition of records satisfactory except as checked below: Locality and sublocality of survey omitted.

Month and day of month omitted.

Time meridian not given at beginning of day's work.

Time: (whether A.M. or P.M.) not given at beginning of day's work.

Soundings (whether in feet or fathoms) not clearly shown in record.

Teadline correction entered in wrong column.

Field reductions entered in "Office" column.

Location of tide gauge not given at beginning of day's work.

Leadline corrections not clearly stated.

Kind of sounding tube used not stated.

Sounding tube No. entered in column of "Soundings" instead of "Remarks".

Legibility of record could be improved.

Remarks. Chief, Division of Tides and Currents. AND REPER TO NO. 11-DEM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 20, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4933

Cape Kuluik to Broken Point, Alaska

Surveyed in 1929

Instructions dated March 14, 1929 (SURVEYOR)

Chief of Party, R. R. Lukens.

Surveyed by C. A. Egner.

Protracted and soundings plotted by H. F. Garber.

Verified and inked by J. H. Church.

- The records conform to the requirements of the Hydrographic Manual.
- 2. The work conforms to the specific instructions, but the shoaling off Broken Point should have been further developed at the offshore end. The survey of 1908 (H. 2963) shows a depth of 22 feet where the new survey shows 6 fathoms. The old sounding should have been verified or disproved. For the present it will be retained on the charts.
- The junction with the contemporary surveys will be taken up when those sheets are reviewed.

A satisfactory junction can be effected with the old work on H. 2963.

4. No additional work is required within the limits of this survey unless it is desired to develop the used channel between the islet north of Cape Ugat and the mainland (see page 2, Descriptive Report) and the bight to the southward of this point.

Also, if further work is done in this locality, it will be desirable to relocate the reef about 200 meters northeast of Broken Pt. There is some doubt as to its correct location (see page 2, Descriptive Report). A surther examination should also be made of the 22 foot sounding mentioned in paragraph 2, above.

- 5. No cartographic problems are raised by this sheet. The information from the old survey, within the limits of this survey, that should be carried over is shown in red on the new survey.
- 6. Reviewed by A. L. Shalowitz, February, 1930.

Approved:

A. M. Sobieralskie Chief, Section of Field Records (Charts)

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

Section of Field Records Report on Shut Mo. 4933 Chief of Porty- P.P. Lukens Durweyed by - 6. A. Egner Protroited by - N.J. Jarber Doundings platted by - N. F. Jorber Derified and inkerty - 4 hunch 1. The records conform to the requirements of the general mestrhelians except pool 75 bande the higher graphic manual. The courses were all fun by rouges so compare bearings were not recorded. 2. The plan and character 3 the development Julful the requirement of the general instructions. 1 8. The issual depth curves can be completely drawn within the imitsorthe that 4 The field platting was completed to the start presented by the general instructions 5. The zine drastoman ded not have to do out any fort, The field platting except as notel under mediants. 6. The examination of the junction with the organing sheets will be made when These shut one made 7 Vincorks:-The protoseting was very ontis factory but the time sporing the suchdings next to the shore was not structly adhered too. The my lying about 250 M. E.N.E.

of Broken Paint was found to be awash at Debrue (3) feet miles tide instead of theo(2) feet such is shown by a rock awash and bunken rock which covers both the original fox and check angle fix. Report to page 20 Description lepot for this sheet or page 46 Tool. 3 Dounding bloods for this sheet. It was peeind necessary to night the shore line from a As to a No to make it componen to the contemporary topographic short Also the shore line was dashed in those portions as shown on the smooth sheet to conform to the topographic shut.

Leverthely submitted Feb. 13/1986

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

C. & L. SURVEY

L. & A.

DEC 5 . 1929

Acc. No.

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

1	Field No. 12.	4938	e
	REGISTER NO	4933	
State Alaska.		·	
General locality Ko	diak Island.		
Locality Broken	Point to Cap	e Kuliuk.to B	roken Pt
Scale 1:20, 000 I	Date of survey J	une-July.	,1929
Vessel Str. SURVE	(OR.		
Chief of Party R_1	R.Lukens.		
Surveyed by C.A.	Egner.		
Protracted by H.F.	Garber.		
Soundings penciled by	H.F.Garber.		
Soundings in fathoms	foot-		
Plane of reference	M.L.L.w. at	Uyak.	·
Subdivision of wire o	dragged areas by	y	·
Inked by			
Verified by	-		
Instructions dated	March 14.		, 192 9 •
Remarks:	and the second s		
	6 0		

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

AND REFER TO NO. 11-1778

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 20, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4933

Cape Kuluik to Broken Point, Alaska

Surveyed in 1929

Instructions dated March 14, 1929 (SURVEYOR)

Chief of Party, R. R. Lukens.

Surveyed by C. A. Egner.

Protracted and soundings plotted by H. F. Garber.

Verified and inked by J. H. Church.

- The records conform to the requirements of the Hydrographic Manual.
- 2. The work conforms to the specific instructions, but the shoaling off Broken Point should have been further developed at the offshore end. The survey of 1908 (H. 2963) shows a depth of 22 feet where the new survey shows 6 fathoms. The old sounding should have been verified or disproved. For the present it will be retained on the charts.
- 3. The junction with the contemporary surveys will be taken up when those sheets are reviewed.
 - A satisfactory junction can be effected with the old work on H. 2963.
- 4. No additional work is required within the limits of this survey unless it is desired to develop the used channel between the islet north of Cape Ugat and the mainland (see page 2, Descriptive Report) and the bight to the southward of this point.

Also, if further work is done in this locality, it will be desirable to relocate the reef about 200 meters northeast of Broken Pt. There is some doubt as to its correctilecation (see page 2, Descriptive Report). A surther examination should also be made of the 22 foot sounding mentioned in paragraph 2, above.

- 5. No cartographic problems are raised by this sheet. The information from the old survey, within the limits of this survey, that should be carried over is shown in red on the new survey.
- 6. Reviewed by A. L. Shalowitz, Pebruary, 1930.

Approved:

Chief, Section of Field Records (Charts)

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