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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

C. & G. SURVEY,
LIBRARY AND ARCHIVES
FEB 26 1912
CO. NO.

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Sheet No.

LOCALITY:

*Cook Inlet West shore - West
Foreland to Harriet Pt.*

1901

CHIEF OF PARTY:

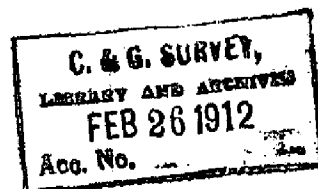
Hardy & Hailey

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DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET 3240



3240

LIMITS.

This sheet includes Kalgin Island and the West Coast of Cook Inlet from Harriet Point North to Kustatan River.

GENERAL CHARACTER OF SHORE LINE.

The whole West Coast is bordered by mud flats which in places bare for over one and a half miles from shore. North of Triangulation Station Wait these flats, except near the mouth of Drift River, are almost free of stones. Between Katnu and Kustatan Rivers I saw only three rocks that a man could not lift. These flats and the country for some miles inland have been built up by the glacial streams. In some places it is hard to tell where the high water line is, the marsh grass gradually giving place to the mud flats, but usually there is an offset of about four feet from the grass to the mud and it is this grass that is shown by the high water line of the sheet, though at extreme tides the marsh may be flooded for two or three miles behind it. Scattered over the marsh, usually at a distance of one to three miles inland are clumps of dead and growing spruce which from a distance look like a continuous forest growing to the shore line.

South of Signal Last the flats seem to be the result of the wasting away of the bluffs. During the wet weather and especially at the time of the Spring thaw, landslides are common. The tides carry away or smooth out the sand and gravel and the boulders are left farther and farther offshore as the bluff line recedes. From slides on Kalgin Island it is estimated that a slide of the whole face of the bluff for a depth of fifty feet will be carried away in a year. Near Signals Use and Last there are strata of brown coal.

RIVERS.

There are no important rivers. Katnu is the deepest, but during the low Spring tides there was only about two feet of water in mid-channel one hundred meters above Triangulation Station River. Kustatan River carries even less water. Drift River is shallow, rapid and full of rocks and tree snags.

There is not an all the year resident in the whole area shown.

Kalgin Island is an irregular pile of Glacial drift which is wasting away except at the point near Triangulation Station South Kalgin, where it is building out. The whole Island, except the North Shore is bordered by dangerous rocks. The Island has no good timber and produces only water fowl and mosquitoes.

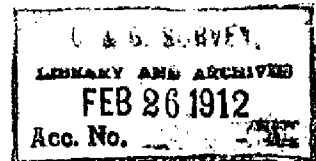
ADJUSTMENTS ETC.

The East Coast of Kalgin Island was run on Office Projection and later transferred to the one used. The new projection was made on account of distortion of the old one. The North Shore of Kalgin Island depended on a short orientation and had to be swung forty meters to close on Triangulation Station North Kalgin. There is also an adjustment of about forty meters in distance between East Kalgin and Signal Fred.

The rock shown off Harriet Point is one of the largest of several. There were others breaking about a hundred meters outside, but on account of rain and rising wind I was unable to locate them. Even the one shown cannot be seen except at very low tides. The rock off Signal Run is nearly correct. Located anchored launch and put rock on from Mr. Fryckman's sketch.

It is unfortunate that the sheet did not extend two or three miles farther to the Westward to include Signal Butte and the first Mountain summits.

On the sheet in pencil N22°W of S. Kalgin distant 1.800 m is marked the approximate position of a rock awash at extreme low tides, seen by the ship's writer, while waiting for an observing party occupying Δ Kalgin, in the channel. This locality was visited by the topographers at extreme low water on the following month and it is his belief that a floating snag was taken for a rock awash by Mr. Fryckman as he could see no indications of one.



TRIANGULATION STATION MUD.

This station is on a short strip of sand beach with mud shore line on either side and swamp behind. Owing to the narrowness of the beach there are no Reference Marks. Station is marked by brass station mark set in cement and covered by a pile of stones two feet high.

See Sketch on other side

TRIANGULATION STATION WAIT.

This station is on the small point about one mile north of end of bluffs and on the South bank of a small stream. It is marked by brass station mark in cement flush with the natural surface but covered by a pile of beach rocks two feet high. There are no Reference Marks.

See Sketch on other side

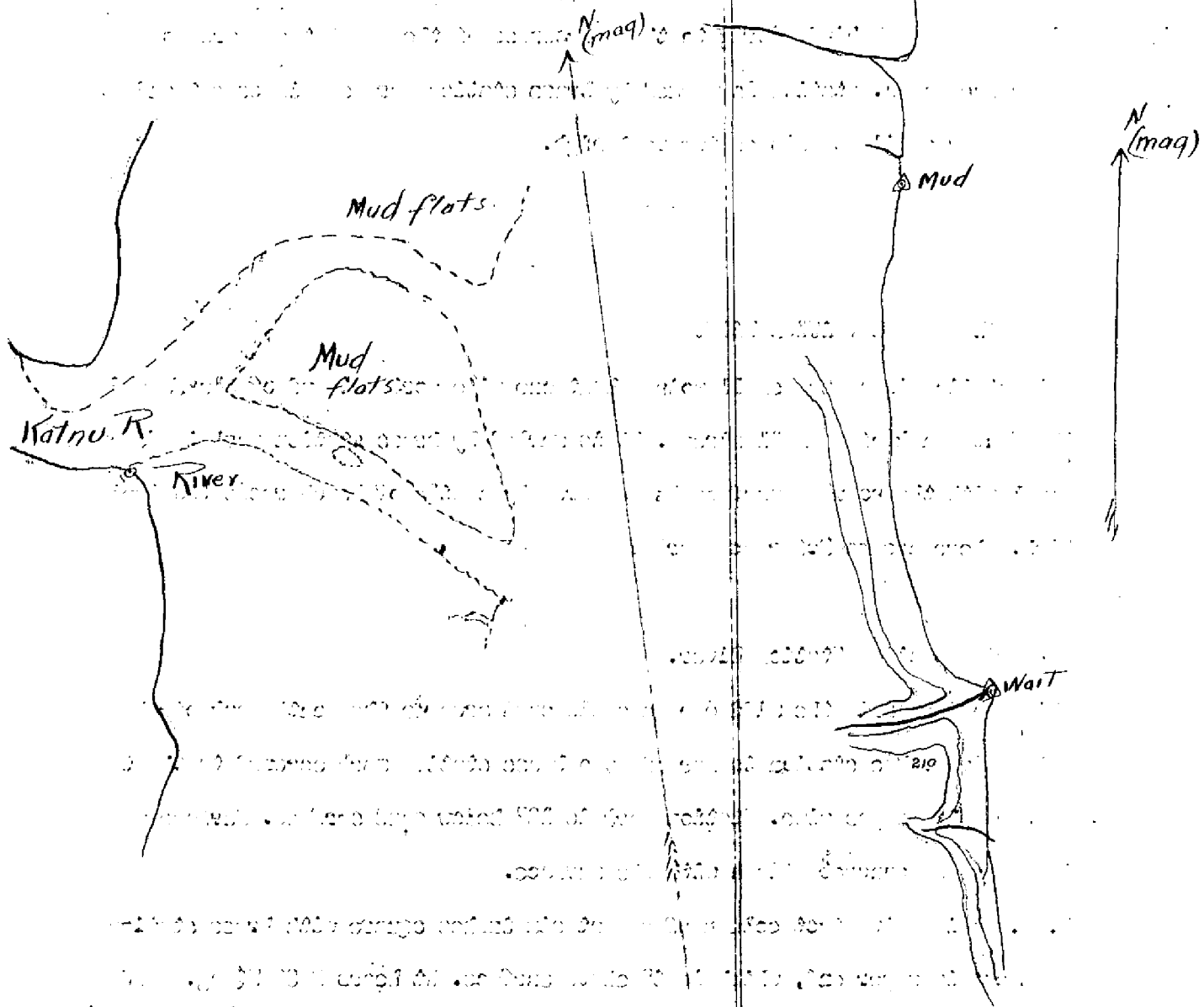
Triangulation Station River.

This Station is in the middle of a small sand area on the South bank of the Katnu River. The station is marked by a brass station mark screwed to the top of one foot of gas pipe. Station mark is 18" below sand surface. Surface mark is a mass of concrete flush with the surface.

R. M. #1 is a two foot column of cement six inches square with brass station mark set in upper end, which is 4" above surface. It bears S 38 E(mag.) and is 20 meters (approx.) from station.

R. M. #2 Same as #1 and bears W. 4 N and is 18 meters(approx.) from station.

See Sketch on other side



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Form 38—Geographical Positions.

State

U. S. & G. SURVEY.
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FEB 26 1912
Acc. No. DISTANCE
Metres.

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

LOGARITHMS.

Geographic Position of Hydrographic Signals

Hydrographic Sheets (A) & (B)

Cook Inlet

Harriet Point to West Inland

Sealed from Topographic sheet No 1 done by
Assistant Bailey, Party on the Yukon Season 1911.

Missaidy Asst. Conidey

To accompany Topographic Sheet 3240

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U.S. Coast and Geodetic Survey.

[Ed. 2-21-93-5,000.]

Locality *Cook Inlet -*

STATIONS.	LATITUDE.		LONGITUDE.	
	°	' "	°	' "
<i>Pin</i>	60-28	222 1635	151-53	153 764
<i>Wo</i>	60-27	461 1396	151-54	220 697
<i>Ted</i>	60-26	352 1505	151-53	497 421
<i>Spot</i>	60-24	6 1851	151-58	786 133
<i>Fred</i>	60-22	30 1827	151-57	806 114
<i>Need</i>	60-20	1078 779	152-05	375 545
<i>Hog</i>	60-20	1471 386	152-05	114 806
<i>Bluff</i>	60-21	89 1768	152-05	3 917
<i>Tree</i>	60-21	693 1164	152-04	736 184
<i>Daly</i>	60-21	1102 755	152-05	35 885
<i>We</i>	60-21	1071 946	152-03	282 638
<i>But</i>	60-21	1789 68	152-01	289 631

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State Kalgie Island

$$\begin{array}{r} 857 \\ 435 \\ \hline 1227 \\ 613 \end{array}$$

AZIMUTH.	BACK AZIMUTH.	TO STATIONS.	DISTANCE.	LOGARITHMS.
" "	(Description)		Metres.	

Big white Rock, largest in vicinity

~~Triped not marked~~Rock, ~~not marked~~ 6 ft high yellowish, with white spot.Large Spruce Tree, showing East of group of trees, prominent from the North
Bole nailed to top.

Do not write in this margin.

~~Tree on Rock~~

Tree on slope showing, when close in, shore to northward.

~~Triped not marked~~~~Triped~~ Black boulder about 5 ft above sand~~Big black boulder~~ Banner not marked

U. S. Coast and Geodetic Survey.

[Ed. 2-21-'93-5,000.]

Locality *Kalgu Island*

STATIONS.	LATITUDE.		Seconds in Metres.	LONGITUDE.		Seconds in Metres.
	°	' "		°	' "	
<i>Pil</i>	60-23		1087	152-00		727
	60-30		1113	151-54		417
			770			192
			1114			499
<i>Bar</i>	60-23		1673	152-01		425
			184			494
<i>Got</i>	60-24		481	2-00		558
			1607	151-58		873
			1376			361
			250			46
			1607			
<i>Pan</i>	60-25		1607	151-58		873
			80			
			1376			46
			250			
<i>Wash</i>	60-25		803	151-58		537
			1054			371
<i>Eg</i>	60-25		1737	151-58		144
			120			744
<i>Flag</i>	60-26		840	151-57		846
			1017			72
<i>Pune</i>	60-27		362	151-57		846
			1495			72
<i>Wak</i>	60-27		1289	151-57		621
			568			296
<i>High</i>	60-28		846	151-58		424
			1011			358
						493
						559
<i>al</i>	60-29		235	151-58		870
			11			211
			1622			46
			1816			702
<i>lit</i>	60-29		292	151-58		886
			1565			30

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U. S. Coast and Geodetic Survey.

[Ed. 2-21-'93-5,000.]

Locality Cook's Inlet, Alaska

STATIONS.	LATITUDE. ° ' "	Seconds in Metres.	LONGITUDE. ° ' "	Seconds in Metres.
See	60-29	41 18 16	151-58	214 870 702 416
Good Com	60-30	742 11 15	151-57	258 658
Gag	60-30	1021 836	151-57	436 480
One	60-30	1450 407	151-56	242 674
Ben	60-30	1007 850	151-55	311 605
Phil	60-30	413 1444	151-54	417 499
Tom	60-29	1627 230	151-53	182 734
Jim	60-29	1442 415	151-52	589 327
John	60-29	970 887	151-51	206 710
Bull	60-28	1679 178	151-50	343 574
See But	60-29	910 947	151-57	779 136
Go.	60-30	161 1696	151-57	326 590

Do not write in this margin.

State *Malgin Island*

AZIMUTH. ° ' "	BACK AZIMUTH. ° ' "	TO STATIONS.	DISTANCE. Metres.	LOGARITHMS.
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Table topped rock covering at high tide, about 6 ft. above beach sand, This is BM #1 for tidal station.

Rock about 15 ft. high near low water mark.

U. S. Coast and Geodetic Survey.

{Ed. 2-21-'93--5,000.}

Locality Cook Inlet

STATIONS.	LATITUDE.		LONGITUDE.	
	°	' "	°	' "
Bine	60-23	1554	152-15	359
		303		560
Shu	60-24	716	152-16	648
		1141		270
Eph	60-24	1648	152-18	723
		209		195
Bear	60-25	833	152-19	422
		1024		496
Rine	60-26	978	152-20	112
		879		806
Ure	60-27	622	152-20	230
		1235		687
Ract	60-28	405	152-20	172
		1452		745
Ryfe	60-31	1526	152-16	255
		331		661
				9
Coag	60-32	1843	152-14	186
		14		729
Bur	60-33	955	152-12	878
		902		37
Triet	60-34	234	152-11	522
		1623		392
Flat	60-34	1353	152-08	417
		594		497

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U. S. Coast and Geodetic Survey.

[Ed. 2-21-'93-5,000.]

Locality Cook Inlet,

STATIONS.	LATITUDE.	Seconds in	LONGITUDE.	Seconds in
	° ' "	Metres.	° ' "	Metres.
Range	60-3 ⁶ ₄	1607 250	151-05	227 686
Bum	60-3 ⁷ ₆	1388 469	152-04	766 147
Sual	60-39	1220 637	152-02	592 318
Jump.	60-40	1172 685	152-00	690 221
Co	60-41	961 896	151-58	417 494
Found	60-41	1616 241	151-57	528 382
Mies	60-42	1248 609	151-55	612 298 289
Rabi	60-43	651 1206	151-53	615 295
no	60-44	149 1708	151-50	741 168
mouth	60-43	1330 527	151-49	77 832

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[Ed. 2-21-'93—5,000.]

Locality

[illegible]

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