Department of Commerce and Labor C. C. G. SufivEY, COAST AND GEODETIC SURVEY HEB 24 1909 Acc No. O.Y. Tittmann State: alaska DESCRIPTIVE REPORT. Sheet No. 2981 Teland, Takli Bay, North Shord Shelikof H. E. Senson

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydro Lopo
Field No. Office No.

LOCALITY

State Claska

General locality Mark

Locality \_\_\_\_\_

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# DESCRIPTIVE REPORT TO ACCOMPANY SHEET No. 3.

"Uyak Bay - Larsen's Bay and West shore of Uyak Bay to Uyak".

(This sheet is a continuation of Sheet #1 at its northern limits.)

#### I. THE WEST SHORE.

The west shore of Uyak Bay is characterized by high rocky bluffs from Uyak to the entrance of Larsen's Bay. They consist for the most part of upturned slate. The shore is very rocky and the on-ly good landing place is about 600 metres south of triangulation signal "Stan".

#### II. LARSEN'S BAY.

Larsen's Bay is one of the best anchorages in Uyak Bay. The north shore of the bay is rocky and bold but the south shore is low and consists mostly of spits formed by the action of the tide.

In entering the bay, there is one serious danger to be avoided. This is a rock, awash at low water which lies 250 metres N.W. of hydrographic signal "Sun". The channel on both sides of this rock is good. However, the southern side is more easily distinguished, being marked on the south side by hydrographic signal "Sun" which is a black rock about 20 ft. high, detached from the shore and may be passed within 50 metres. It forms a good landmark on entering the bay. After passing this, head for the mound on the end of the long spit (hydrographic signal "Lap") and the turn into the bay should not

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be made until the old A.P.A. cannery (hydrographic signal "Nap") opens at least half a point from the eastern shore (triangulation signal Entrance) in order to avoid the mud flats on that side.

The tidal current in this entrance averages about 4 knots per hour. dawn Spring tides

Good anchorages may be found off the old cannery, or south of the long spit (hydrographic signal Lap), or at the head of the bay. Water may be obtained at any of the small streams represented on the sheet.

#### III. METHODS.

This sheet, being a continuation from Sheet #1 was done on a plane table triangulation with the same stadia base.

HG. Denson, asst 6495

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DESCRIPTIVE REPORT TO ACCOMPANY

SHEET No. 1.

March 3,09.

"Uyak Bay -- Amook Island and Vicinity, including Zachar Bay."

#### I. GENERAL DESCRIPTION.

The shore in general is very rocky and surmounted by high bluffs composed mostly of upturned slate. These are rapidly worn away and are frequently continued underneath the water in outlying rocks and ledges. The only good landing places are found in the small protected places inside of projecting points or bluffs where the beaches are made up of shingle.

The bay is surrounded by mountains 2000 to 4000 ft. in height whose slopes are steep and covered with stunted trees, thick undergrowth, and tundra to an elevation of about 1000 ft. Above this is mostly grass and moss. The summits are practically bare with outcropping ledges. Frequent landslides occur and a particularly distinctive one may be seen on the west side of the bay nearly opposite the south end of Amook Island forming a good landmark. There are many mountain streams on the east and west shores of the bay but very aw on Amook Island.

In approaching this section of Uyak Bay from the lower and Amook Island is easily distinguished. It has the aspect of a

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low, dark range with a background of high, show-capped mountains. The point at the entrance of Zachar Bay is a broad succession of low hills which runs back gradually to a high ridge.

#### II. MAIN FEATURES. DANGERS AND ANCHORAGES.

The shore on the north end of Amook Island is very rocky and slopes gradually out to a distance of about 400 metres. Vessels should not approach too closely to this shore.

The south end of Amook Island is a bluff about 40 ft. high, the end of which is broken away. Bearing S.W. from this point and distant 850 meters is a pinnacle rock, awash at low water, which may be safely passed on either side. A mile and a half south of this point on the eastern shore of the bay is a ledge of rocks extending about 200 meters from the end of a shingle spit. The outer point of this is always visible and may be safely passed within 50 meters.

Alf's Island is low and the main part is covered with small trees. The northern or lower end of it is a low bluff and should be given a wide berth. However, there is a good anchorage, 3fthms. mud bottom, for small vessels in the bight on the north side, inside of the small island. On entering this, the passage to west of the small island should be used.

The bay on the west side of Alf's Island is full of sunken rocks and is dangerous ground. This district is within the limits defined by Alf's Island, the triangulation signal "Twin", and

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the hydrographic signals "Leg" and "Tom". A clear passage, however, may be found on a line running directly up the bay through the middle of the space.

The western shore of Uyak Bay from triangulation "Twin" to the northern limit of the sheet is guarded by many sunken rocks and should not be approached too closely.

The cove on the north side of triangulation signal "Brush" forms a good anchorage, 10 fthms. mud bottom, in all easterly and southerly winds but should be entered on its southern side. The northern side is barred by a reef of rocks running in a southerly direction, parallel to the shore line for about half a mile, beginning at the small island, partly awash and partly exposed at low water; also foul ground between the island and hydrographic signal "Rock"; which is a rock showing at all stages of the tide.

The cove on the south side of hydrographic signal "Bum" is a good anchorage in all except southerly winds.

#### III. THE INNER OR EAST PASSAGE.

The inner or east passage around Amook island is only useful to small vessels as a short cut to points inside of the island.

Good anchorages for such may be found at either the north or south end of the narrow channel, three miles from the north entrance of the passage. The rock in the middle of the opening hydro-

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graphic signal "Tip") is always showing above water and must be passed on the west side. The east side is blocked by a ledge of rocks. The north anchorage is in the bight on the east side opposite Brown's house. The bayou at the mouth of the river which runs down at this point is very shallow. The south anchorage is just around the point after passing the channel and in the inner bay.

The passage is good from there until the spit, 2 1/2 miles from the narrow channel, is reached. This should be given a wide berth. From there, the west shore should be followed until the Kodiak Mining Company's camps are reached. The remainder of the passage is good.

#### IV. ZACHAR BAY.

The point at the entrance of Zachar Bay is surrounded by sunken reefs and should be given a wide berth on entering the bay.

A dangerous reef lies about due North from the end of the point and distant about half a mile (visible at half tide). Vessels should keep to the northern shore on entering the bay.

The north shore of Zachar Bay is pretty regular but an anchorage may be found about four and a half miles from the entrance, on the east side of a point characterized by an isolated black rock about 20 ft. high situated at low water line. Good water may be obtained here.

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The south shore is very irregular but the only anchorage that was tested is in the cove about a mile and a half from the entrance of the bay. The stream at the head of this cove is brackish.

The upper end of the bay is not navigable for about the last two miles. The ground consists of mud-banks, dry at low water, and heavy banks of eel-grass where the water is shallow. These banks begin about 1000 meters below the high isolated rocks lying west of the hydrographic signal "Tom".

#### V. METHODS...

The work is done on a plane-table triangulation with a stadia base as no triangulation had been done when the topography was started.

The small map showing the head of Zachar Bay is not changed in azimuth from the rest of the sheet.

AG. Denson. asst 6495.

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# DESCRIPTIVE REPORT TO ACCOMPANY SHEET No.2.

"Uyak Bay--Alf's Island to Head of Uyak Bay".

This sheet is a continuation of Sheet #1 at its southern limits.

#### I. GENERAL DESCRIPTION AND DETAILS.

The shore in this section of the bay is not so bold and rocky as in the lower part of the bay and going up toward the head, the rocky bluffs give way to long shingle spits formed by the action of the tide.

The mountains bordering the bay are from 3000 to 4000 ft. in height and very steep. The occurrence of mountain streams is more frequent than in the lower bay and good water may be obtained at any of them.

The last four miles of the bay is not navigable on account of the mud flats, covering the whole area, which are dry at low water. These begin about half a mile south of triangulation signal "Grass".

The large island just to the south of Alf's Island is surrounded by high bluffs and covered with small trees and bushes. The water ground between this and Alf's Island is foul. The bay running up to the westward of this island is an excellent anchorage, well protected and free from dangers. Good water may be found in the two small streams on the west side.

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The cove just south of the spit where triangulation signal "Trap" is located, forms a good anchorage for winds blowing up from the lower end of the bay. Water may also be obtained here.

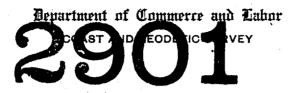
#### II. METHODS.

The work was done on a plane table triangulation with a stadia base as no triangulation had been done when the topography was started. The same base was used as that for Sheet #1.

HG Denson Asst 6495

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DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. 5.

"Approaches to East and West Arms of Takli Bay".

#### I. GENERAL DESCRIPTION.

The country in general is volcanic in character with underlying deposits of stratified rocks. The mountains are from two to four thousand feet in height and the various layers of igneous rock outcrop in high terraces making them very nearly inaccessable.

Many high bluffs, columnar in structure, may be seen along the shores and these break away in great blocks making the shores very bold and rocky. The landing places may be found in the small protected places where the beaches are composed of gravel and small stones.

The islands in the west arm of the bay are composed of dykes which are columnar in structure and most of the projecting bluffs are narrow walls of rock which are frequently continued underneath the water in sunken ledges. The dykes from Takli Island and those small islands lying outside run very nearly S.E. and N.W.

Upon approaching the bay, a very distinctive landmark may be noted. This is the end of the middle peninsula which is a bare slope of light brown sandstone in distinct layers tilted at an angle of about 10° and slightly curved upward on the left side. This is slightly obscured from the S.E. by the small high island lying off the and of it.

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The East arm of the bay is open with no obstructions, but the west arm is filled with small islands and the shore line is very uneven. The largest of these is Takli Island, the top of which appears as a high hill with three nodes and an uneven, broken slope to the south and east. The N.W. side ends in a sheer bluff.

Atushagvik Cape is low with a fairly smooth slope running back to a high hill which ends in a sharp bluff on its northern and western sides.

#### II. THE EAST ARM.

The fairway in entering the East arm of Takli Bay is unobstructed although the west side of Atushagvik Cape should be avoided. Do not approach closer than 1/2 mile

An excellent anchorage and harbor of refuge may be found in the cove just north of hydrographic signal "Bowl". This is easily distinguished by a 150 ft. bluff on the point at the entrance. Good water may be found here at the stream on the east side of the cove. ("Russian Anchorage".)

Above the point disignated by hydrographic station "Jap", the shore is very broken and rocky and should be avoided. The survey was not carried up this arm of the bay far enough to discover and test any other anchorages.

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#### III. THE WEST ARM.

The outlying islands are not very high but are bold and rocky. The ledges extending off these to the south and east run out to about 1000 metres off shore and this section should be given a wide berth in passing.

The inner or northwestern end of Takli Island is a high precipitous bluff rising to the top of the hill. Between this end and the main land is a good channel through which an entry may be made into the numerous bays and inland waters of the west arm.

About three-quarters of a mile off the end of the middle peninsula (hydrographic signal "Point") is a small island, 250 ft. high. Between this island and the peninsula is another channel running into the west arm and the passage is good through to the Takli Island channel although vessels should favor the southern shore.

The opening between the middle islands (hydrographic signal "Chick") and the outer islands, while being the broader passage is dangerous on account of rocks and shoals.

The inner line of islands running westward from the end of the middle peninsula enclose a bay in which may be found a good anchorage and harbor refuge with good water, in the bend on the north side. This bay should be entered through the opening at the north end of the Takli Island channel. The islands enclosing this bay are flanked by many rocks and should not be approached too closely.

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The narrow openings between them should not be used.

Good shelters for small boats may be found in the little bays on the north side of Takli Island.

#### IV. METHODS.

This work was done on a stadia base from triangulation signal Atushagvik and carried ahead by traverse. No triangulation had been done and no signals had been placed until the work was well under way after which the plane table triangulation was used.

AG. Denson, asst. 6495.

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# DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. 4.

"Bay between Cape Kuliak and Atushagvik Cape".

#### I. GENERAL DESCRIPTION AND MINOR POINTS.

The country in general is volcanic in character with underlying deposits of sedimentary rock. The lava flows have evidently been horizontal and under water, being subsequently upraised, thus forming high, precipitous, columnar bluffs. These are breaking away in large boulders.

The shore in general is composed of these large boulders, but fair landing places may be found in some of the more sheltered sections and on the beaches near the two swamps at the head of the bay.

The bay affords very little protection and is a dangerous place in all easterly winds. The shores are dangerous to approach, being barred by many sunken reefs and shoals, some of which are awash at low water.

The only apparently fit place for vessels to anchor seems to be at the very head of the bay. However, this was not tested.

#### II. METHODS.

The work was done almost entirely by traversing, from a stadia base, no triangulation having been done and no signals being available except triangulation signal Kuliak and triangulation signal Atushagvik, both of which were useless after having rounded the

asst, 6465.

Objec	st and Description	Loti	tucle	D.M.	hon	gitud	DP	Remarks
A6	Whitewashed rock	57		/553		, 54		
Arm	flag on pole	57	32	40	15-4	05	723	
Bag	Banner in tree	57	17	1354	153	41	433	
Bag	Whitewashed rock	57	23	1355	153	50	401	
Bot	Whitewashed rock	57	30	696	153	48	829	
Ban	Banner in tree	57	26	1767	1 <b>5</b> 3	48	577	
Bar	Whitewashed rock	57	21	1410	153	46	14	
Bark	Whitewashed rock	57	23	1745	153	49	680	
Best	Whitewasher rock	57	32	1558	153	49	72/	
B/11	Whitewashed rock	57	22	863	153	46	175	
Bin	Whitewashed rock	57	32	1375	154	00	307	
Bob	Whitewashed rock	57	2 <b>8</b>	48	153	48	165	
Bow	Bunner in Tree	57	29	636	153	48	687	
Bug	Whitewashed rock	57	18	1491	JS3	43	26	
Bum	Whitewashed rock	57	29	1598	/5 <sup>-</sup> 3	<b>₹</b>	//3	
Bun	Whiteworked rock	57	34	259	153	57	894	
Cab	Whitewashed rock	57	29	. 302	153	54	648	
Cap	Whitewashed rock	57	31	1705	154	02	770	
Car	Whitewasked FOCK	57	2/	992	153	47	945	
Cat	Whitewasked rock	57	28	1421	J53	49	245	
Coot	flag on pole	57	3/	1483	154	04	966	
Cop	Flay on pole	57	3 3	62	153	<b>37</b>	122	
Cot	Whitewasher rock	57	27	894	153	49	387	
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Object a	and description	1.977	ucle	2.17.	4000	g, rucle	D.P.	Fren	narks
Gun	Whitewashed rock	57	33	611	153	58	138		
Hail	Whitewashed rock	57	19	1105	153	44	495		
Hal	Whitewashed rock	57	23	1623	153	51	116		
Hat	Whitewasher rock	57	27	1385	153	49	425		
Hyd. 1	Pole signols	57	36	647	153	58	6//		
Hyd, 2	<b>"</b>	57	37	482	153	51	636		
Hyd. 3	<i>"</i>	57	37	75	153	50	983		
Id	flag on pole	57	28	1000	153	48	950	M 	
Jag	flag on pole	57	18	95	153	42	338		•
Vig	flag on pole	57	28	1705	153	48	7/3		
Kin	Whitewaskes rock	57	32	475	154	04	300		
Kite	Whitewashed rock	57	32	149	154	01	10		
Lap	flag on pole	57	32	988	153	59	38/		
Leg	Whitewasked rock	57	24	112	153	50	572		
Luck	Whitewasked rock	57	3/	1053	153	48	5-/2		
Mag	Whitewashed rock	57	23	702	153	49	150		
Mall	Whitewashed rock			634					
Mar	flag on pole			329		- 1			
Mat	Whitewasked rock			177		ŀ			
May	Whitewasher rock			961		i			
Mike	Whitewashed rock			864				*E <sub>14</sub>	
CLi11	Whitewasked rock			864	f	ľ			
<i>M</i> 06.	Whitewashed TOCIC	I.		273		İ			

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Object o	and description	Latit	ude	274.	Long	Mude	D.F.	Remarks
Mop	Flag on pole	57	32	1602	153	50	787	
Moss	Whitewasker rock	57	32	1093	154	02	175	,
Muck	Whitewashed rock	57	3, /	93/	153	48	335	
Mut	flag on pole	57	1,9	1242	153	46	263	
Nap	South Gable of old Connery	57	33	2	<i>75</i> 3	59	194	
Ned	Whitewashed rock	57 .	24	1453	<b>∕</b> 53	50	433	
Nell	Flag on pole	57	20	750	/ <b>5</b> 3	47	390	
Nest	Whitewashed arck	57	. 33	242	153	50	14	
Night	Whitewashed rock	57	32	695	154	03	472	
Not	Whitewaster rock	57	27	350	153	49	37/	
Ore	Whitewashed rock	57	3)	1675	/53	48	536	-
Pace	Whitewoohed rock	57	30	1200	J-S-3	48	977	
Par	whitewashed rock	57	23	1369	153	50	124	
Pat	Whitewashed rock	57	22	1271	153	46	220	
Peb	Whitewashes rock	57	3/	508	J3-3	49	294	
Ped	Whitewashed rock	57	32	840	153	57	254	
Peg	Whitewasked rock	37	23	1432	153	50	447	
Pell	Whitewasked rock	57	23	/200	153	50	134	
Pin	Whitewasher rock	57	37	126	153	58	412	,
Pot	Flay on pole	57	26	1283	153	49	410	
Rain	Flag on pole	57	18	447	153	43	983	
Bock	Pinnacle rock	57	37	753	153	52	937	
Rot	Whitewasked rock	57	30	947	153	53	45	
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Object	and description	hati	tude	DM.	hong	itude	D.P.	Remorks
Sam	Whitewasked rock	57	33	1465	153	50	<i>53</i> 8	
\$ap	Whitewashed were	¢57	3 <i>2</i>	826	154	OZ	908	
Sat	Whitewashed rock	57	28	758	153	49	3/5	
5/11	<i>P</i> •	57	20	666	153	46	980	
Snow		57	18	135	153	43	751	
Son	Whitewasked rock	57	31	433	153	48	906	
Sop	flag in pole	57	32	494	153	49	709	
Spit	Flag on pole	57	29	27/	15-3	49	104	
Spot	Whitewasked rock	57	26	376	153	48	468	
Stripe	Whitewasked rock	57	24	397	153	47	872	
Stump	flag on Stump	57	29	1752	153	49	495	
Sue	Whitewasher voer	57	33	854	153	50	329	
Sun	Whitewasher rock	57	32	/123	153	3-8	100	
Tail	Whitewashed rock	57	19	1815	153	44	778	
Tan	whitewashed rock	57	33	537	/53	51	716	
Tar	At Whitewasker rock	1	3/	1848	15-4	0/	880	
Tat	Whitewas hed rock	5-7	23	627	153	46	924	
Ted	blog on pole	57	33	127	153	58	36/	
Tin	Whitewasked rock	7-2	32	1296	154	01	80	
Tip	Whitewasked rock	57	3/	760	153	49	84	
Tom	Whitewashed rock	57	24	714	153	50	564	
Top	Whitewashed rock	57	26	595	5 153	49	461	

Object o	and description	Lotitu	de	D.M.	Longi	tude	D.P.	Remorks
Wash	Whitewashed rock						494	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Whim	Whitewasker rock	57				'	443	
Wind	flag on pole	57					865	
X	flag on pole	57					5-23	
γ	flag on pole	57		1680				

HydSheek Jo 2981 Mer. 20, 1909. The positions, where liver begin and end, were not described and the course was not recorded at the beginning of lines. In some cases the time at which angles were taken is very uncertain as the fourtien mucher were placed only at the left of the augher and not at the best of the time to which therefore In anvectory fractions, 0.5 or more was written as the next whole fook while the rule new is that all feature of less than 0.8 shall be mitted when flotting sendings in even feet. The entrance to Laisen Bay is not fully developed. The sheet was flotted and maked by the ful a party. Af Simons