

4973

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

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

C. & G. SURVEY
L. &
MAR 31 1930
Acc. No.

State: ~~S. W.~~ Alaska

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 4. 4973
Hydrographic

LOCALITY

Deadman Bay.

Alitak Bay. Kodiak Island.

1929.

CHIEF OF PARTY

R. P. Lukens.

4973

DESCRIPTIVE REPORT.

Hydrographic Sheet, Field No. 4.

Str. Surveyor.

E.R. Lukens, Comdg.

Scale 1 : 20,000.

DATE OF INSTRUCTIONS

Authority for this work is granted with instructions dated March 14, 1929.

LIMITS

The sheet comprises all of the hydrography of Deadman Bay to a union at the southern end with Field Sheet No. 3, 1929.

CONTROL

Planetable traverse between triangulation station was used to establish control. All closing errors in the traverse were adjusted.

TIDE GAUGE

An automatic portable tide gauge on the dock at Lazy Bay was used for the reduction of all sounding records. No adjustment was made on these readings.

SURVEY METHODS

The usual survey methods were employed. Surveyor's 32 foot launch No. 4 was used for all the work excepting one day that Launch No. 3 was used, and on another occasion a skiff was used to sound out an area for a sunken rock. Most of the lines were run on ranges and no compass courses were recorded.

A 10 pound hand lead was used for depths up to 12 or 13 fathoms. For greater depths a 25 pound lead was used on the mechanical sounding machine. Difficulty was experienced with this weight lead. The stranded wire would kink about two fathoms above the lead after taking a sounding. The leads were cut down so as to weigh about 18 pounds and no more trouble was had. No apparent cause of the kinking was found.

DISCREPANCIES

In the sounding records a discrepancy is noted as to the name of the bay. The bay is locally known as Dead Bay and this name was used in the records. The Coast Pilot gives the name as Deadman Bay and on the title sheets of the sounding records this name has been retained but on the pages of the records the local name was used and is in error.

A sounding of 50 fathoms (unreduced) was recorded on pos. 74j in Lat. $57^{\circ}07'630m$. and Long. $153^{\circ}49'325m$. A line (103k-105k) was run over the spot and the sounding was not verified. The sheave was probably mis-read by the leadman. It is recommended that this sounding be considered as 60 fathoms (unreduced).

DANGERS

The bay is generally free of dangers. A few shoal spots exist and most of these are on the left side of the bay and lie close in-shore. A mid-channel course is free of all rocks and shoals.

A rock covered 1 fathom at M.L.L.W. in Lat. $57^{\circ}07'1580m$. and Long. $153^{\circ}49'250m$. is dangerous to small craft. The least depth was obtained on positions 1n and 2n by means of a hand lead from a skiff.

A sand and gravel spit extends about 500 meters offshore between signals Q11 and Vet, just south of Ptarmigan Point. This spit is dangerous as no indication is given from the shore that it is in existence.

In Lat. $57^{\circ}05'65m$. and Long. $153^{\circ}55'333m$. a shoal with a least depth of $8\frac{1}{2}$ fathoms at M.L.L.W. was found.

There are many rocks and foul ground just north and between Bear Rock and the shore. No passage exists between this rock and the shore.

A shoal with a least depth of $5\frac{1}{2}$ fathoms at M.L.L.W. was found in Lat. $57^{\circ}02'295m$. and Long. $153^{\circ}59'480m$.

A shoal with a least depth of 4 fathoms at M.L.L.W. was found in Lat. $57^{\circ}01'00m$. and Long. $154^{\circ}01'50m$.

A rock bare 6 feet at M.L.L.W. lies just north of the fish trap in Lat. $57^{\circ}00'1260m$. and Long. $154^{\circ}01'975m$.

A rock just south of Fox Island in Lat. $56^{\circ}58'1640m$. and Long. $154^{\circ}02'485m$. is bare $1\frac{1}{2}$ feet at M.L.L.W.

A shoal, also south of Fox Island, with a least depth of $8\frac{1}{2}$ fathoms at M.L.L.W. in Lat. $56^{\circ}58'1220m$. and Long. $154^{\circ}02'960m$.

The area south of signal Rit is foul. There is a long, rock ledge making southeastward off signal Rit for a distance of 700 meters. There is a channel between this ledge and the shore that is used by fishing crafts tending the two fish traps in the vicinity.

CHANNELS:

With the exception of those mentioned above, the bay is free from dangers to navigation. All dangers that exist are close inshore leaving a mid-channel course clear of all obstructions.

There is a channel to the west of Fox Island, which is used by cannery craft in tending the traps to the north. The channel has a controlling depth of about $8\frac{1}{2}$ fathoms but due to the rocks and shoals in the vicinity it is not advisable to use it without local knowledge.

ANCHORAGES:

Anchorage may be had with ample swinging room in Alpine Bay, in from 11 to 12 fathoms of water with hard bottom. There is excellent protection in the cove. Smaller craft can enter deeper into the bay and anchor in about 7 fathoms with mud bottom.

A fair anchorage may be had to the west of Fox Island for small boats.

GEOGRAPHIC NAMES:

Well established names:

Fox Island.

Names assigned by field officers:

Aleut Rock.

Bear Rock.

Hep Point. = Uhaiaik Pt. = C. Hepburn.

Bet Point.

Ivor Cove.

No significance.

Ivor Point.

Jim Point.

Ptarmigan Point.

Alpine Bay - so named because of the rugged snow covered mountains seen from the bay.

Respectfully submitted,

Clarence A. George
Clarence A. George.

Aid.

Statistics for Sheet, Field No. 4.

Launch No. 4.

Day	Date	Vol.	St.Mi.	No.Pos.	Sdgs.
a	Sept. 12	I	22.5	132	359
b	" 13	I	23.5	134	323
c	" 16	I&II	22.4	123	328
d	" 17	II	22.5	144	347
e	" 18	II	15.2	111	487
f	" 19	II	14.7	89	234
g	" 20	II&III	20.8	135	383
h	" 21	III	6.1	37	139
j	" 24	III	15.1	116	340
k	" 25	III&IV	17.3	134	373
l	" 26	IV	9.7	73	178
m	" 27	IV	18.1	148	533

Skiff.

n	Sept. 29	IV	---	2	2
---	----------	----	-----	---	---

Launch No. 3.

a	Oct. 5	IV	3.0	26	64
---	--------	----	-----	----	----

Totals.

No. of sdgs.	-	4090
No. of pos.	-	1404
St. miles.	-	210.9

LIST OF SIGNALS
to accompany
HYDROGRAPHIC SHEET NO. 4

Str. SURVEYOR

R.F. LUKENS, Comdg.

1929

Hydro Name	Location	Hydro Name	Location
Hep	Hep, 1929	Les	Topo Sig. Sheet "D"
Bet	Bet, 1929	Mon	" " " "
Live	Olive, 1929	Nil	" " " "
Dick	Dick, 1929	Ott	" " " "
Ivor	Ivor, 1929	Pal	" " " "
Jim	Jim, 1929	Run	" " " "
Irene	Irene, 1929	Si	" " " "
Len	Hellen, 1929	Tim	" " " "
Peg	Peggy, 1929	Vat	" " " "
Stop	Stop, 1929	Yes	" " " "
Mildred	Mildred, 1929	Ape	" " " "
Dot	Dot, 1929	Ber	" " " "
Kat	Kat, 1929	Fun	" " " "
Ern	Erne, 1929	Get	" " " "
Reef	Reef, 1929	His	" " " "
Mer	Mer, 1929	Jak	" " " "
Paul	Paul, 1929	Kay	" " " "
Rose	Rose, 1929	Lam	" " " "
Rock	Rock, 1929	Nol	" " " "
Dead	Dead, 1929	No	" " " "
Dal	Topo Sig, Sheet "D"	Out	" " " "
Gil	" " " "	Pit	" " " "
Nut	" " " "	Rat	" " " "
Off	" " " "	Oil	" " " "
Pul	" " " "	Sot	" " " "
Ral	" " " "	Tal	" " " "
So	" " " "	Vet	" " " "
Hut	" " " "	Who	" " " "
Us	" " " "	Mat	" " " "
Tom	" " " "	Win	" " " "
Vel	" " " "	Los	" " " "
Wet	" " " "	Kep	" " " "
Yap	" " " "	Jo	" " " "
As	" " " "	Hit	" " " "
Bal	" " " "	Gat	" " " "
Car	" " " "	Far	" " " "
Dom	" " " "	Dit	" " " "
Fit	" " " "	Col	" " " "
Gul	" " " "	Bo	" " " "
Him	" " " "	Al	" " " "
Ill	" " " "	Ton	" " " "
Jam	" " " "	Sip	" " " "
Kil	" " " "	Rut	" " " "

Hydro Name	Location				Hydro Name	Location			
	Topo	Sig.	Sheet	"D"		Topo	Sig.	Sheet	"D"
Tri	"	"	"	"	Not	"	"	"	"
Pat	"	"	"	"	Por	"	"	"	C
Oil	"	"	"	"	Aft	"	"	"	"
Nek	"	"	"	"	Hak	"	"	"	"
Mos	"	"	"	"	Chi	"	"	"	"
Low	"	"	"	"	Ham	"	"	"	"
Kis	"	"	"	"	Thu	"	"	"	"
Jil	"	"	"	"	Sut	"	"	"	"
He	"	"	"	"	Hom	"	"	"	"
Go	"	"	"	"	Cow	"	"	"	"
Fin	"	"	"	"	Pi	"	"	"	"
Do	"	"	"	"	Bull	"	"	"	"
Cow	"	"	"	"	Rig	"	"	"	"
But	"	"	"	"	Ned	"	"	"	"
Odd	"	"	"	"	Rit	"	"	"	"
Am	"	"	"	"	Non	"	"	"	"
Bon	"	"	"	"	Guy	"	"	"	"
Ce	"	"	"	"	Me	"	"	"	"
Dan	"	"	"	"					
Elf	"	"	"	"					
Fet	"	"	"	"					
Gon	"	"	"	"					
Hal	"	"	"	"					
Imp	"	"	"	"					
Joy	"	"	"	"					
Kum	"	"	"	"					
Lil	"	"	"	"					
Mim	"	"	"	"					
Not-	"	"	"	"					
On	"	"	"	"					
Par	"	"	"	"					
Ram	"	"	"	"					
Sal	"	"	"	"					
Tat	"	"	"	"					
Ute	"	"	"	"					
Van	"	"	"	"					
Was	"	"	"	"					
Yel	"	"	"	"					
Zu	"	"	"	"					
At	"	"	"	"					
Bam	"	"	"	"					
Cur	"	"	"	"					
Dok	"	"	"	"					
Fon	"	"	"	"					
Gal	"	"	"	"					
Hat	"	"	"	"					
Os	"	"	"	"					
Jen	"	"	"	"					
Kid	"	"	"	"					
Lar	"	"	"	"					

(FOREFILES OF FIELD RECORDS SECTION)

April 28, 1930

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 4973

Locality: Southwest Alaska (Deadmans Bay)

Chief of Party: R. R. Lukens, in 1929
Plane of reference is mean lower low water, reading
3.6 ft. on tide staff at Lazy Bay
14.2 ft. below B. M. 1

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.

H. A. Warner
Chief, Division of Tides and Currents.

Section of Field Records.
Report on Hydrographic Sheet No. 4973
Deadman Bay - Alaska.

Surveyed in 1929

Instructions dated March 14, 1929 (Surveyor)
Chief of Party R. R. Lukeus.

Surveyed by J. C. Mathison,
Protracted by J. C. Mathison
Soundings plotted by C. A. George.
Verified and inked by J. W. Farley.

1. The records conform to the requirements of the General Instructions except no compass course being recorded but as most of the lines were run on ranges the omission does not affect the survey.
2. The plan and character of development conform to the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions, ^{boundaries} other sheets are included in this survey.
4. Sounding line crossings were run only in developing the shoal areas and are adequate.
5. The information is sufficient for drawing the depth curves.

6. The protracting and platting is satisfactory.
7. The junction with sheet H-4972 will be included in reports on that sheet.
8. No indications of dangers other than those located and developed.
9. The character and scope of the surveying is satisfactory. No further surveying is required.
10. Reviewed by

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 22, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4973

Deadman Bay, Kodiak Island, Alaska.

Surveyed in 1929

Instructions dated March 14, 1929. (Surveyor)

Hand lead and Machine soundings

Chief of Party, R. R. Lukens.

Surveyed by J. C. Mathisson.

Protracted by J. C. Mathisson.

Soundings plotted by C. A. George.

Verified and inked by J. D. Torrey.

1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions.
3. Cross lines were run only on shoal development. These cross well and the agreement of adjacent lines is satisfactory.
4. The information is sufficient for completely drawing the usual depth curves.
5. The junction on the south with H. 4972 is satisfactory. There is no previous survey of Deadman Bay.
6. The usual amount of field plotting was well done by the field party except that the figures used for the soundings were too large.
7. Character and scope of surveying --- excellent.

a. The ground has been uniformly covered and in general about the right amount of development has been done. The data furnished about inshore rocks is generally most complete. Two rocks, close inshore, which are shown on the boat sheet, which were not shown on the smooth sheet or

located in the records were added to the smooth sheet.

b. The shoals which were found are on the left side of the bay and fairly close inshore.

c. A mid-channel course is free from any indication of shoaling.

8. No additional work is required.

9. Reviewed by R. L. Johnston, July 10, 1930.

Approved:

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

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4973

HYDROGRAPHIC TITLE SHEET

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. 4

REGISTER NO. 4973

State ~~Southwest~~ Alaska

General locality Kodiak Island ~~Alitak Bay~~

Locality Deadman Bay

Scale 1:20,000 Date of survey Sept. - Oct. 1929

Vessel Str. Surveyor (Launches #3 and #4, and Skiff)

Chief of Party R. R. Luken

Surveyed by J. C. Mathisson

Protracted by J. C. M.

Soundings penciled by C. A. George

Soundings in fathoms ~~Feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by J. D. Torrey

Verified by J. D. T.

Instructions dated March 14 1929

Remarks:

August 22, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4973

Deadman Bay, Kodiak Island, Alaska.

Surveyed in 1929

Instructions dated March 14, 1929. (Surveyor)

Hand lead and Machine soundings

Chief of Party, R. R. Lukens.

Surveyed by J. C. Mathisson.

Protracted by J. C. Mathisson.

Soundings plotted by C. A. George.

Verified and inked by J. D. Torrey.

1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions.
3. Cross lines were run only on shoal development. These cross well and the agreement of adjacent lines is satisfactory.
4. The information is sufficient for completely drawing the usual depth curves.
5. The junction on the south with H. 4972 is satisfactory. There is no previous survey of Deadman Bay.
6. The usual amount of field plotting was well done by the field party except that the figures used for the soundings were too large.
7. Character and scope of surveying --- excellent.

a. The ground has been uniformly covered and in general about the right amount of development has been done. The data furnished about inshore rocks is generally most complete. Two rocks, close inshore, which are shown on the boat sheet, which were not shown on the smooth sheet or

located in the records were added to the smooth sheet.

b. The shoals which were found are on the left side of the bay and fairly close inshore.

c. A mid-channel course is free from any indication of shoaling.

8. No additional work is required.

9. Reviewed by R. L. Johnston, July 10, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

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