

# 4490

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<small>Form 504</small> <b>DEPARTMENT OF COMMERCE</b> U. S. COAST AND GEODETIC SURVEY	
<i>State:</i> SW. Alaska	
<b>DESCRIPTIVE REPORT.</b>	
<i>Hydro.</i>	<i>Sheet No.</i> 4490
<b>LOCALITY:</b>	
Alaska Pen.	
Belkofski	Bay
1925	
<b>CHIEF OF PARTY:</b>	
R. Luca	

## DESCRIPTIVE REPORT

To accompany Hydrographic sheet "F" (Belkofski Bay & Cape Bold.)

### LOCALITY and LIMITS OF WORK

This sheet represents the inshore hydrography of Belkofski Bay and Cape Bold. It extends from North latitude 55 - 00 to 55 - 11 and from West longitude 162 - 02 to 162 - 19.

### CONTROL AND SURVEY METHODS

The Triangulation stations were established by Secondary Triangulation Str. Pioneer (1925). The Hydrographic signals were located by Plane Table Traverse Str. Pioneer (1925) by Mr. R.L.Pfau Topographic sheet "F".

### GENERAL DESCRIPTION OF THE COAST

From Belkofski Point to the South Entrance point to Kitchen Harbor the shore line is a broken irregular cliff. At Belkofski Point it has an average height of about twenty five feet, gradually increasing towards Kitchen Harbor until it reaches a height of about three hundred feet at signal Bog. In Kitchen Harbor the shore line is a broken cliff formation except at the head of the harbor where there is a sand and gravel beach. In <sup>on</sup> Captain Harbor and the Western shore of Belkofski Bay from the head to Indian Head the shore line is a low grass covered slope with a sand and gravel beach extending to the low water line. From Indian head around Cape Bold to the limit of the work there is a very rugged cliff with a maximum height of about three hundred feet.

### ANCHORAGES

Larger craft will find good protection in any, except S'LY, weather in the bight North of Indian Head in ten to twenty fathoms with good

holding ground. Smaller craft may anchor more inshore with fair protection but the holding ground is not so good.

KITCHEN HARBOR

There is good protection in this harbor except in North Westerly weather. Anchor in the center of the harbor in twelve to twenty fathoms. The holding ground is good.

CAPTAIN HARBOR

The inner part of Captain Harbor<sup>is</sup> very well protected in all weather and the holding ground is good. The entrance is narrow and tidal currents of one to two knots will be encountered at full flood and ebb; the general depth inside is from five to eight fathoms. The Harbor is especially well adapted to smaller craft. In the outer part of the harbor the holding ground is too sandy for good anchorage.

LAND MARKS AND AIDS TO NAVIGATION

A Light (blinker type) on Belkofski Point, location signal Grand.

Table Rock, A large flat rock about thirty five feet high and one hundred feet in diameter. Location Signal FLAT.

Indian Head, A rocky bluff about twenty five feet high and three hundred feet long. Location signal TOM

NEW NAMES

Table Rock, A well established local name for the large flat rock off Cape Bold, location signal FLAT.

Indian Head, A well established local name for the rocky bluff, location signal TOM, on the Western shore of Belkofski Bay.

Sheet inspected by Comdy. Officer on  
July 31, Aug. 8, 11, 15, 22, 27, 1925  
R. K. Kuehl Co.

Albert J. Hoskinson  
Lt. J. G.

Statistics Sheet No.

F

Date 1925	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
July 27	a	1	9	12	1.1	S. L. 1915
Aug. 4	b	1	58	250	11	" "
" 5	c	1	163	207	25	" "
" 6	d	1	74	103	13	" "
" 7	e	2	114	140	14	M.S. Alpha
" 8	f	2	84	106	11 $\frac{3}{4}$	" "
" 11	g	2	41	92	6	S.L. 1915
" 12	h	2-3	151	286	25	" "
" 13	j	3	187	211 $\frac{1}{2}$	19.5	" "
" 14	k	3	26	108	7.5	" "
" 17	m	3	73	123	12 $\frac{3}{4}$	" "
" 18	n	4	131	141	15 $\frac{1}{2}$	" "
" 19	p	4	193	326	30	" "
" 24	q	5	115	168	17	" "
" 25	r	5	106	145	14 $\frac{3}{4}$	" "

1465

248

22360

An automatic tide guage at King Cove was used for this work.  
 Plane of Reference, reading on guage =  
 Lowest tide observed, " " " "  
 Highest " " " "

SEP 27 1926

~~Division of Hydrography and Topography.~~

Division of Charts:

Tide reducers are approved in  
volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4490

Locality: S. W. Alaska

Chief of Party: R. F. Luce in 1925

Plane of reference is M L L W  
5.7 ft. on tide staff at King CoveFor reduction of soundings, 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 each 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.

**No Reducers entered by field party.**


Chief, Division of Tides and Currents.

## Section of Field Records.

Report on sheet No. H. 4490

Surveyed in - 1925

Chief of Party - R. F. Luce.

Surveyed by - G. J. Hookinson + R. L. Pfau.

Projected by - F. J. Quinn.

Edgs plotted by - F. J. Q.

Verified and checked by - H. M. MacEwen

1. The records conform to the requirements of the general instructions. More bottom characteristics would have been helpful.
2. The plan and character of development fulfil the requirements of the general instructions.
3. No sounding line crossings were run.
4. The information is sufficient for drawing the usual depth curves completely.
5. The field plotting was completed to the extent presented in the general instructions.
6. The office draftsman did not have to do over any part of the work done by the field draftsman.

Report H-4490 (cont)

7. The junction with the sheet adjoining is satisfactory.

8. No further surveying is required to fully develop important areas within the limits of the sheet.

10. Remarks: The pencilled soundings were <sup>oversized</sup>.

9. Rating of work.

- a. Character and scope of surveying - Excellent
- b. Field drafting - good.

ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON August 20, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4490

Belkofski Bay, Alaska Peninsula

Surveyed in 1925

Instructions dated March 20, 1925 (PIONEER)

Chief of Party, R. F. Luce.

Surveyed by A. J. Hoskinson and R. L. Pfau.

Protracted and soundings plotted by F. G. Quinn.

Verified and inked by H. E. MacEwen.

1. The records departed from the General Instructions in the following respects:
  - a. Boats' headings by compass were entirely omitted.
  - b. Beginnings and endings of lines were not described.
  - c. There was an insufficient number of bottom characteristics given. For example, in the entire Volume 4, covering 45 miles of sounding lines and 467 soundings, only 30 bottom characteristics were taken.
  - d. Rocks awash were shown as bare rocks.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions except that in the heart of Belkofski Bay in depths greater than 20 fathoms, the lines seem to be closer than necessary or called for; while in Kitchen Anchorage and Captain Harbor the development should have been closer.
4. The sounding line crossings (by a comparison of adjacent lines) are adequate.



5. The information is sufficient for drawing the usual depth curves except on the south side of Indian Head where only the 5 fathom curve was completely developed.
6. This sheet was entirely plotted in the office by a field officer under the supervision of the Hydrography & Topography Division. With the exception of the soundings which were too large, the sheet was well executed.
7. The junctions with the adjacent contemporary surveys H. 4492 and H. 4491 are satisfactory. The junction with H. 4493 will be taken up in the review for that sheet.
8. Additional work is required in the following places whenever work is again done in this locality:
  - a. A development of the inshore area south of Indian Head. Accomplished  
H-6591 (1940)
  - b. A closer development of Kitchen Harbor, particularly over the 10 fathom spot. Accomplished  
H-6716 (1941)
  - c. A closer development of Captain Harbor, especially the entrance to inner Captain Harbor and the area to the north of  
 ○ Bare, which is used as an anchorage. Accomplished  
H-6716 (1941)
  - d. A development of the 9 fathom area in the vicinity of Lat. 55° 03' 900 m., Long. 162° 10' 900 m. The present chart (8703) shows 8 fathoms in this locality. Accomplished  
H-6591 (1940)  
found 4 to 6 fathoms  
on H-
  - e. The 10 fathom shoal in Lat. 55° 04' 400 M., Long. 162° 07' 700 m., should be wire dragged to determine the least water. This also applies to the 11 fathom sounding about 400 meters south of the 10 fathom shoal. found 7 1/2 fathoms  
found 10 fathoms  
found 11 fathoms  
found 12 fathoms  
H-5521 (1940)
  - f. The 12 fathom shoal in Lat. 55° 01', 1000m., Long. 162° 11' 00 should also be wire dragged.
  - g. A closer development of the area off Belkofski Pt. between the rocks awash and the 10 fathom curve. Accomplished  
H-6591 (1940)
9. The character and scope of field operations are very good. The field drafting is good.
10. Reviewed by A. L. Shalowitz, July 30, 1926.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

1490

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. F4490

State S.W. Alaska . . . . .

General locality Alaska Peninsula  
~~Belkofski Bay and Cape Bold~~ . . . . .

Locality Belkofski Bay and Cape Bold . . . . .

Chief of party R. F. Lucas . . . . .

Surveyed by Albert J. Hoskinson and R. L. Pfau . . . . .

Date of survey July ~~August and~~ September 1925 . . . . .

Scale 1 - 20,000 . . . . .

Soundings in Fathoms . . . . .

Plane of reference Mean Lower Low Water . . . . .

Protracted by A. J. H. (B.S.) Soundings in pencil by F. G. Quinn (Sm. Sh.)  
F. G. Quinn (Sm. Sh.)

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report,  Tide books,  Marigrams,  Boat sheets,

5  Sounding books,  Wire-drag books,  Photographs.

Data from other sources affecting sheet . . . . .

Remarks: The sheet forwarded is the boat sheet.

Smooth Sheet submitted Mar. 29, 1926

*Records don't show - Sk*