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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. S. Sattmann
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. **3683**

LOCALITY:

Kushokwim R.

Lower Part

1914

CHIEF OF PARTY:

R. R. Lubens

11-4046

3683

Descriptive Report

Field Sheet " C "

Reconnaissance

Scale 1;40,000

This sheet shows the hydrographic reconnaissance made on the West side of the River. The shore line of the West side was located from theodolite cuts and from sketch work in connection with the hydrography.

Eek Island is also located from cuts and hydrographic sketching. This island is very low and is covered with sparse sea grass. At high tide the island is covered, except for a small portion near the N.W. corner.

Signal Rude was located by a theodolite cut from Pope and sextant cuts from the Eek channel. This signal could not be seen from ^{Kwak}~~Pope~~.

HYDROGRAPHIC SHEET 3683.

Kuskokwim River, Alaska, by Assistant R.R. Lukens
in 1914.

TIDES.

	Apokok ft.
Mean lower low water, or plane of reference on staff	2.7
Lowest tide observed " "	1.1
Highest " " " "	18.0
Mean range of tide	9.4

Only adverse criticism given.

EXAMINATION OF HYDROGRAPHIC SHEETS
by the
Sections
DIVISIONS OF FIELD WORK AND FIELD RECORDS.

Sheet No. *3683*

1. + Are numbers of hydrographic sheets adjoining limits of work shown?
2. Are transferred soundings of adjacent hydrographic sheets made to show that ground has been covered?
3. + Is sheet of proper size? *Too large.*
4. + Is sheet well laid out, no additions required?
5. Are limits of hydrography regular?
6. + Are positions of signals accentuated by light dot of black ink to assist plotting? *No.*
7. + Are tidal stations plotted on sheet?
8. Is area of work completely covered? *No.*
..... *Probably for reconnaissance purposes yes.*
9. Are critical soundings and dangers shown distinctly?
- 10.+ Is the control good?
- 11.+ Are positions of signals clearly shown?
12. Are soundings well distributed?
13. Are shoals carefully and sufficiently developed?
14. Do soundings cross satisfactorily?

- 15. Is existence or non-existence of a reported shoal determined?
.....
- 16. Is least sounding over bar probably determined by check soundings or diagonal sounding lines crossing same?
.....
.....
- 17.+ Are projection and plotting checked?
- 18. Is the scale of this sheet sufficient to show the necessary details in the navigable channels?
.....
- 19. +Is the shoreline shown?
- 20.+ Is there an accompanying list of plane table or sextant positions of signals?
- 21. Has sufficient attention been given to the development of channel?
.....
- 22. Are sufficient bottom characteristics shown?
- 23. Are sounding lines normal to coast?
- 24. Have suspicious soundings been investigated?
- 25. Are ranges or bearings given for important shoals?
- 26.. Are sailing directions given?

- 27. Is the general hydrography in the entire area properly developed?
- 28. Are shallow channels for motor boats sounded?
- 29. Is there a note as to coloration of water in or near mouths of rivers and bays?
- 30. Is there any information given as to obtaining fresh water?
- 31. Are there proper intervals between soundings?
- 32. Are projecting points of land and reefs determined by sufficient lines with soundings at close intervals run at right angle to direction of points?
- 33. Is there sufficient data to draw depth curves? *No*
- 34. Are shoal areas remote from shore properly developed by independent system of buoy signals placed in the vicinity of shoal?
- 35. Are soundings obtained at docks in harbor?
- 36. * Is there a full list of data effecting sheet given? *No*
- 37. Are description of hydrographic signals and marking of same recorded?
- 38. Is there a list of land marks given? *No*

- 39.+ Does descriptive report give date of instructions? *No*.....
-
- 40. Are small islets and rocks distinctly shown?
- 41. Is information relative to anchorage given?
- 42.+ Are survey methods explained sufficiently? *No*.....
- 43. Are geographical names given on sheet?
- 44. Are coast pilot notes given?
- 45. Is the unit of soundings given in title?
- 46. Are sufficient depth curves shown?
- 47. Are aids to navigation shown?
- 48. Are grass or kelp indications shown?
- 49. Are sailing courses shown on sheet?
- 50. Is descriptive note given as to visibility of shoals?
-
- 51. Are dangers fully described in descriptive report?
-
- 52. Is the character of reefs described on sheet?
-
- 53. Are beaches indicated where vessels in distress could be safely beached?
- 54. Are standard symbols used in drafting?
- 55. Is information relative to currents given?
- 56. Is there a statement as to certainty or probability of least depth over dangers given?
- 57. Is the existence of certain shoals doubtful?
- 58. Is a general description of coast given?

- 59. Is information relative to commercial importance given?
.....
- 60. Does the descriptive report cover one or a moderate number of
sheets?
- 61. Are descriptions of headlands given?
- 62. Is the nature of shoals whether coral rock or sand shown on
sheet?
- 63.+ Is the position of the tide gauge well selected? Is the tidal
data sufficient for the reduction of soundings over the area
of the sheet?
- 64.+ Have projection lines been numbered around all the edges? ...
.....
- 65.+ Has the geographic position of one of the triangulation points
on the sheet been inked near the bottom edge of the sheet?
.....
- 66. Was the speed of the sounding boat such as to allow vertical
readings of the leadline?
- 67. Were lines of soundings run along the axis of narrow channels?
.....
- 68. Have rocks or shoals seen from the sounding boat in passing
been definitely located?
- 69. Have charted shoals reefs, or rocks been investigated?
- 70.+ Have sounding records been kept in approved form?

71. Are Wire drag surveys required?

72. Is the area between the soundings taken and the shore indicated or described as being covered by reefs, etc. as the case may be?

Other Remarks *A reconnaissance of Kuskokwim River, Alaska*

The foregoing points marked by a cross (+) and the following additional points are to be considered for wire drag hydrographic sheets.

73. What additional areas, if any, in the locality covered by the sheet should be dragged?

74. Number of small areas inside limits of work missed by drag (few, moderate number, numerous)

75. Are shoals discovered with drag clearly shown?

76. Were shoals later covered by drag set at suitable depth?

77. Are all areas missed by drag clearly shown?

78. Are overlaps ample?

79. Do effective depths conform to instructions under which the work was done?

80. If work was done before present practice as regards effective depths was adopted, should the area be re-dragged to conform to the present practice?

81. Are all shoals discovered shown on current issue of chart?

JAN 1919
[Signature]