

Lake of the Woods and Kaministiquia River: [specimens] 10116-10172. No. 50 October, 1885

Merriam, W. N.

[s.l.]: [s.n.], October, 1885

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U. S. GEOLOGICAL SURVEY FIELD SECTION BOOK

No. 50. October, 1885.

Lake of the Boods and Kaministiquia River W. A. Merrian.

Survey of the Pre-Cambrian Rocks of the N. W. States.

INSTRUCTIONS.

1. Ordinarily at least two pages of this book will be devoted to one section. On the left hand page place a map of as much of the section as has actually been seen. Denote rivers, lakes, marshes, etc., by the usual topographical signs. Denote the ledges of rock, when no structure is made out. by cross-hatching, making the cross-hatching cover as nearly as possible the areas occupied by the exposures. If the rock is a massive one, but still more or less plainly bedded, use the same sign with a dip arrow and figure attached, showing the amount and inclination of the dip. Denote slaty or other very plainly bedded rocks by lines running in the direction of the strike, with figures and a dip arrow attached as before. In all cases where there is the least doubt about the true bedding directions, indicate it by a To each exposure on the face of the map attach the number of the specimen representing it. In mapping the section count each of the spaces between the blue line as 100 paces, and twenty of these spaces as one mile, or 2,000 paces. Usually the southeast corner will be placed at the bottom of the page, or at the first black line above the bottom of the page, and at the right hand side. If, however, for any reason, it is desirable to show portions of an adjoining section, the southeast corner may be shifted up, or the map may be turned around and the north placed at the left hand side of the page.

2. On the right hand page place the notes descriptive of the exposures. Begin in each case with the number of the specimen, placing the number on the left hand side of the red line, after which give in order on the right of the same red line the position of the ledges as reckoned in paces from the southeast corner of the section, and the dip and strike when observable, for instance: 4025 | 250 N., 300 W., Strike, N. 6° E., Dip, 50° E. Then fol-

low with as full a description of the ledge as possible.

3. The ruling of the left hand page is also arranged so that a smaller scale can be used. Each one of the black lines may represent a section line and the red lines quarter sections and "forties." The scale of the maps may thus be reduced, if desirable, to two inches to the mile (the ordinary town

plat scale.)

4. Collect a specimen from each separate ledge of rock, or wherever there is a change of rock on any one ledge. In case of trips made on foot or in canoes, for long distances, neighboring ledges, unquestionably of one kind of rock, need not be sampled, the position and extent of the ledge being marked on the map, with a note that it is of a rock identical with specimen so-and-so. Under the same conditions small sized samples, trimmed to a uniform size of $2x2\frac{1}{2}x\frac{3}{4}$ inches will be allowed, but in all other cases large sized specimens, trimmed to a size of 3x4x1 inches, must be selected, in accordance with $\frac{3}{4}$ 3, chapter IV, p. 44, Regulations of the U. S. Geological Survey. In all cases collect chips for slicing. All specimens are to have numbers painted on them, in white on a black background, in the field.

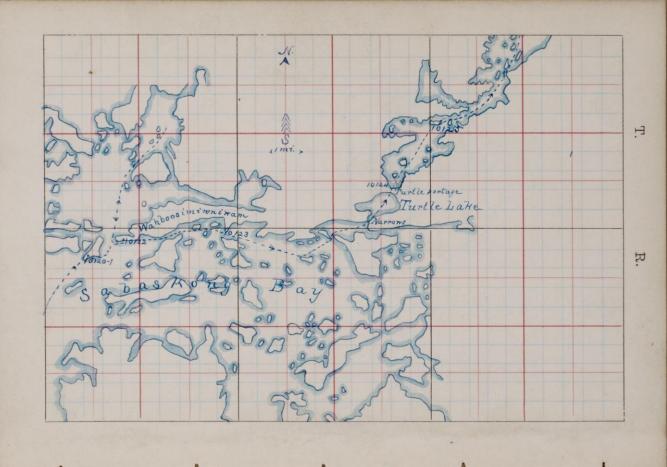
5. On the last twenty-five pages of the book give, as may seem desirable, a general account of the examination of the region mapped in the previous pages, correlation of observations, sketches, cross sections, etc., etc.

6. Forward this note book, as soon as filled, as registered mail matter, to R. D. IRVING, U. S. Geologist, Madison, Wis.

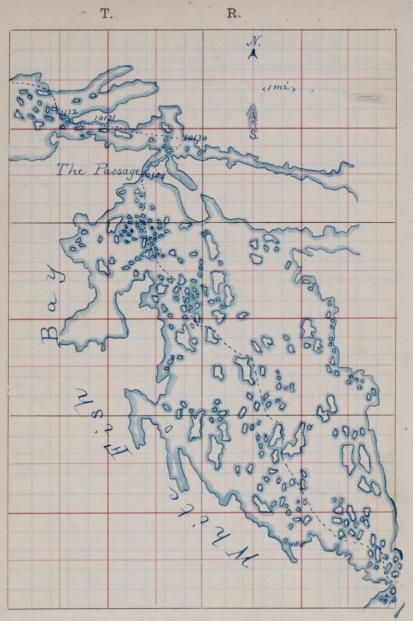
Lake of the Woods and Kaministiquia Rix 10116 - 10172



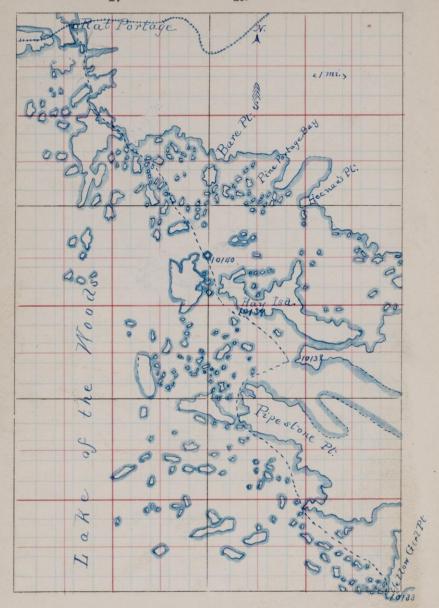
10116 From the fourt northeast of Sand MA. grein Island south End of the Lake of the toods Homblende gneess the bands very marked and regular running 11.70° E. Veries of granitic material enter sect these bandings Dip 85 to 90° to the north The same rock occurs again about 1/4 of a mile to the east 10117 From an island about 2003 miles East of the last agness from Belli Laurentian area 10/18 In order from 10/17 to the month 10/1959 Big Grassy River



18120 Homblende schist from an island near the mouth of the Hoods 10121 From light-colored band in 10120 From the End of Hakboosiminiman Rt, about Ishile N.E. 9/0/21 Homblende schiet: The bandings of dark green and light-material are coarse and vary regular Two sets of granile viles and occasionally large masses of granite 10/23 Homblende schiel about & miles Graneli venis east of 10122 were molid 10124 From an exposure at the north and of Turtle protage a compact dark green crystalline rock; occurs in the greeks and granite 10/25 Homblende grande from an island about 3 miles north of Turtle Jorlage While Fish Boy)



10/26 Homblende granite from While-Rish Bay, Lake of the Hoods, (Bell's Laurentian area) 10127 Granili from Ithili Rish Bay North of 10126 (Bell's Saurentian area) 10/28 Granile showing a portion of a veins? Phile Fish Bay north of 10127 (Bell's Laurentian area) 10129 Green schist at the Entrance to the Passage north and of While Fish Bay (Bell's 21) of the Passage (Bell's 21(2)) 10131 Greenish school from East side of Lake of the Hoods, about half way between the Passage and Wellow girl Point (Belli 20) 10132 Schist from Bell's 20 a short distance More schistone than



Homblende granite from the End of yellow Girl Pt. Lake of the Hoods 1.0134 From an island north of yallow Girl Ot: Sommediately worth of The granili; a dark grey school, schistore structure well developed 10135 about one hile north of 10134 Green Schiet from an island a short distance north of 10135 From the point south of Repestone fourt or on Repestone fourt a rather coarse, greenish, very hard conglomerale - Rebbles are flinly material and porphyry the latter greatly predominating a light colored rusty shale from 10/38 a point just north of Ripestone point or from Repestone point as named by the windians

10139 a light-colored schiet breaking in ligniform masses. From the bouth side of Hay Isd. 10140 Green school from a small island a short distance N. A. J. Hay Isd. 10141 avery light green skale from a small island about a mile or two north of 10140 10142 a very firm green schiet a short distance north of 10141 10143 From the narrows a mile or so south of Rat Portage

10144 From the Kanimistineia River. one mile below the Ry crossing Banded jasper, very much contorted The bands are much broken in places, giving it a bracciated appearance Jasper is interbanded with a accerish material (shown in 10145) in bands from a fraction of an inch to two or three inches hin width : Bears a striking resemblance to some of the Vermillion Lake jaspers . 10/45 Band in the jasper 10146 From a small exposure on the East chering con side of siver conglowerate, very finde The gebbles are a fluidand a dark green from gramed material, the latter predominating 10/147 a very fine gramed quartility Chuty az Masslir and breaks with a conchoi-(higher active, The same rock occurs in the rapids about 1 of a mile

south of 10147 10148 Green quarticles (?) from the 10149 Kaministiquea siver taken *10100 at about Equal distances between Hoser the rapids below 10147 and a point about 1/2 miles below 10157 a school containing small masser of greats and semi-opal (2) 10152 a schislose quartile banded HB. Sch. with fine and course bands 10153 Banded quartile, the strike HARALL. is N. 55°E. Dif 70° to the N. The last six specurers are taken in order from near the rapids below 10147 for the next 3 neiles when a hombleude granile 10154 Hornblude gravile from Ho. Gamilithe Kaministiquia river Below this comes in a Hp. sch. which with the homblende grandle

fa mile above Kakabika Falls 10155 Homblude schist a short dis-10156 Homblende schiel (banded) from
His. Sch. near the head of the rapids
10150-2-3) just above Kakabika falls 101567 agrees from below these rapids 10157 Joon slates from the head of 10158 Kakabika Falls. Flat lying 10159 Banded from rocks from the porlage at Kakabika 10160 Hear the south and of porlage 10161 at Kakabika Below 10154-8-9 although these slates are seen interbanded with the cherty

10162 Taken in order below the 10163 South End of the porlage al-10165 From the Dawson Road in 10165 State from Ry cut in Port-10166 Greenslone dike in 10165 10167 From the 1st. Expoure on 10168 the Dawson Road In Port 10170 From the 2d. Exposure on the 10171 Dawson Road In Port 10172 arthur about 2004ds. west of 10/68-9

