

Minnesota Valley: [specimens] 5224-5239. No. 20 1884-07

Irving, Roland Duer, 1847-1888 [s.l.]: [s.n.], 1884-07

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U. S. GEOLOGICAL SURVEY

FIELD NOTE BOOK



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

INSTRUCTIONS.

1. Devote at least two pages of this note book 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. 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 smaller spaces as 100 paces, each of the spaces between the red lines as 500 paces, and four of these large spaces as one mile, or 2,000 paces. Usually the southeast corner will be placed at the first red 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 down one space, 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, after which give in order 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 follow with as full a description of the exposure as possible. Very often the notes for one section will cover more than one page in which case pass to the next right hand page, repeating the map on each left hand page as long as the notes, with

regard to one section, continue.

3 Collect a specimen from each separate ledge of rock, or whenever 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 the note that it is of a rock identical with specimen so-and-so. Under the same conditions small sized samples will be allowed, but in all other cases large sized trimaned specimens, with chips for slicing, must be selected in accordance with § 3, chapter IV, p. 44, Regulations of the U. S. Geological Survey. All specimens are to have numbers painted on them, in white on a black background, in camp.

4. 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, etc., etc.

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

20 Minneson Valley. Rsolving (July 1824

July 15th 1884 Done from Rederord Falls to Merton Mun otherce Earhourd along next side of Min. neith Pener to Brick Coulée - ouplie Culle to hear. Points purhenterly tothe wheel an the mile rucley ofthe Minn; the prairie upland, often & lending but the rice bullon the mirded bottom - and at mishow obelow the mass ofgrey weathering frimite, standy up like island in the me holow - Evident Opherin was once as hippined the wain (cuissessippi, they wir why nearls the borns Sream The decompanied franctic webe of Broch Cavaley shouldals be holed - Fort. arshowing a continuate the princes had the ralley - and hedure interesting decompared

(9-891.) Sec. 136 T. 113 R. 36 W Menn

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enders an lunge.
That take here in cut - of the St
E. RR. Ushow contintin your
gnesso. Inte here (1) the black strings or nest of ahemslendic (?) material ampetites of the greens. There we not frraign inclu-servis howers. they show ruch relations or the menticitarly of the same generis as the sent the centires greens at the cut is 5200 The black norts - ag 52/3 frend of foreing knows at merting hereby & w- ohence deagonal to Yalley. (also other photos - Lee negr.)

29 T. 113 R. 35 W Minn Sec. see hest pay

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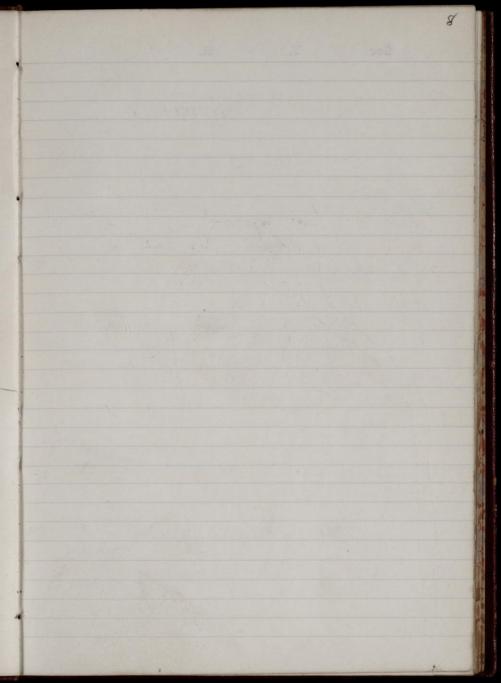
T. 1/3 R. 35W Minn Sec. 29

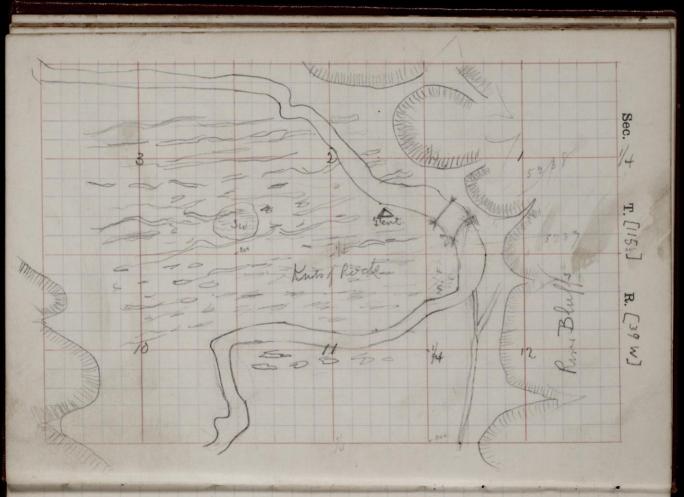
at the coming of down creek then husbren obne a good deal golaity forthe radroad bridge abrilmeths the orche is a roote anilett vains belledspuller a gointell vains oute that in knot in S.S. offeelin 29. all aling Bedwork orcile Wfulls ollered aling railrows and vicinity there is much grave (hemalite?) A shins much of grown ingrede Alm Rediron Que coming the sevent fundes to the het ferry the ledges offmile rounded, both low and high in · Withm and occurringly high on the limiting bluffs of the railey. The yours is contacted - Heaves

her ferry on Si side poems beler! Breus Faces of Welkstong harr lerge Exp offneis as about mentioned. Item freis lies low hith willy as also high. Photos intre her (1) (2 negs) looking E. from high withing with 3. Side of bulley (2) (1 neg) worthing or from low knot in tailey (3/ looking h to from tame knot up rackey -Frunthen avery distincely Tume uneshed from forford - mein affert sleep backses lekdy as their: which make long lines acres theboth of certainly fuggest to bedding - state X. 750 E Mary odifs 300 5.5. Mit here arradus the Caminere Correspond distinctly - 5234 Hack to Tomethis ledge. It is formering.

Rand a conselamination is suggested her and there The is the only remplainly bedded greist I have 5235 is asvels apparently drietly cretying 5234 - to it a bunded on aneathers he have it Reams On a point fulfure it seems, youler puly well bunded - Even Conselumine but hus large people feldely frag ments? The philps telds are spane but and inch acres functiones. Emularines more plenty resignamence and the point furface actualed to Philip later borking up minn. Vailey ti bottom - at grande dedges in Sec. 4,113 36 - 51/2 - prossely next misorle

Photo lake from life of bluff en S. Enle Bun. bully - Cobley Cerus odown thestalley one negaun only - This labout dec 31. 114-36 out the from top of bull and forms oumper 630 P.M. at Sulectes octob n.w/ 35-115-38W. minn. ho make visible in this unmer? ate brownly. Rick Unde uf to lowners ahm houston - ahm that Youner - bulley inde athend as I once a late of promises





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5238 Dank Colored mele verlying 237 523 9. Come quents Melyer ven minheist Full - court N.W-87 hests occurrency & facus und In souther fant lec. 2 and higher tec 11. numeros Routs of make - bulk like stuffed on W. Side I dip 5 - pm 556 app to W. g. 5 - pm sst. app ald find home of whichers the

T. [116] planly hedder greens

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Specimes marked A Lundule Merbedown Fact arethe durk miles greens - Tues B. is grandell ledge in Orchure at con their frunde puis.

· Bundy Suit ount Munhael madoulcomps. See hongalis for information on marshall was. Halfray house

