

# District E. and south of Iron River, Mich: [specimens] 41704-41764. No. 343 Aug-Sept. 1901

Bayley, William Shirley, 1861-1943 [s.l.]: [s.n.], Aug-Sept. 1901

https://digital.library.wisc.edu/1711.dl/OM7T4HF3ADUZB8T

http://rightsstatements.org/vocab/InC/1.0/

For information on re-use see: http://digital.library.wisc.edu/1711.dl/Copyright

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

## U. S. GEOLOGICAL SURVEY

### FIELD SECTION BOOK

9-891

#### LAKE SUPERIOR DIVISION.

#### 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 crosshatching 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 number attached, showing the direction and amount of the dip. Denote a shaly or other very plainly bedded ledge by right parallel lines, and a ledge having a secondary structure by wavy parallel lines running in the direction of the strike, with dip arrow and number attached as before. The greatest care must be taken to avoid confusing slaty or schistose structure with bedding, and in all cases where there is the least doubt about the true bedding direction, indicate it by a query. 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 lines as 100 paces, and twenty of these spaces to 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 lefthand side of the page. The ruling of the left-hand pages is also arranged so that, if desirable, a larger or a smaller scale can be used, eight inches, two inches, one inch, or one-half inch to the mile. With the two-inch scale, the squares outlined in black represent sections, and those in red, quarter sections and "forties," while the space between the blue lines is 200 paces.

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, the latter always being expressed from the north; for instance 4025, 250 N., 300 W., Strike, N. 78° E., Dip 50° S. Then follow with a full description of the ledge. When topographical maps are used for

locations this paragraph applies only in part.

3. Collect a specimen from every ledge, or wherever there is a change of rock on any one ledge, taking care to get fresh material, unless for a special purpose the weathered surface is desired. In case of trips made on foot or in canoes, for long distances, neighboring ledges, unquestionably of one kind of rock, need not be specimened. The position and extent of the ledges not specimened should be marked on the map, with notes that each is of a rock identical with specimen so-and-so. Under the same conditions small-sized specimens, trimmed to a uniform size of 2 x 2½ x 3 inches will be allowed, but in all other cases large-sized specimens, trimmed to a size of 3 x 4 x 1 inches, must be selected, in accordance with section 3, chapter IV, p. 44, Regulations of the U. S. Geological Survey. Specimens should not be placed together without protection in the collecting bag, as the fresh surfaces, important in determining the character of rocks, are thus destroyed. They should be damaged by no temporary mark, but the numbers should be at once marked in at least two places upon the inclosing paper or cloth bags. Specimens may be permanently marked in camp by painting the numbers upon them in white upon a black background, using Silver White and Ivory Black oil tubes for color, with turpentine as a diluent.

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, sketches, cross sections, etc.

5. Forward this note book as soon as filled as registered mail matter to C. R. Van Hise, U. S. Geologist, Madison, Wis.

## U.S. GEOLOGICAL SURVEY FIELD BOOK #343

W.S. Bayley
FLORENCE DISTRICT

Field Notes W. S. Bayley aug- Sept. 1901 Wistrict G. and South of Fron River Specimens 41704 - 41764 John Williams, From River

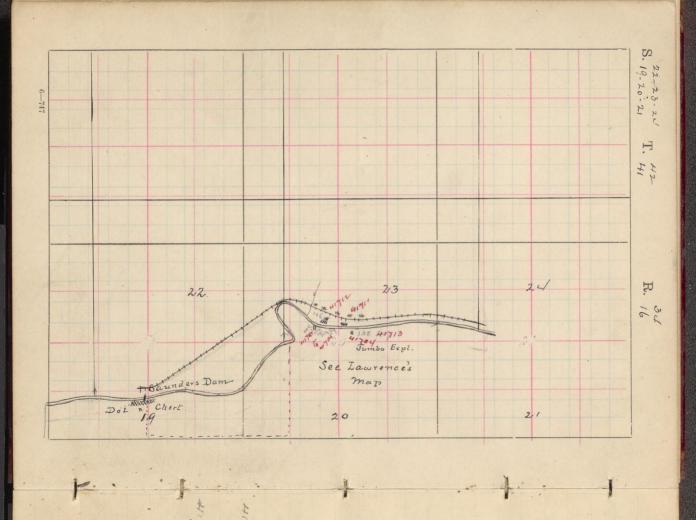
T. R. S. Saunders area

6-747

twent from Daniders Der & the Samidees daw. The nock from a - Cliff of about 200 paces in langue along the river our the Douth side of the dam It is an alwest precipitino face point marbe and cheep. Both weks are breccialed and herky Shows distinct be ading of there is any the Dip is 450 800 S. The base of the I bligg is a live Turne Pue ourseurs than the top which is were cherry alop fre cliff it is an almost pure check. There has been weleurs of alding, Since to blocks that have fallen from clip one can find many Therefo fieds. Cued, Ruverer, Evol Weas. me any in the elife. The trearber is Shallered rule big pieces which are in bedded in check, went up Several ravinosto Dendy rock in curtach with the murber but oured fined Troching.

> From the cliff went to obe funds Expoleration in There is pleng - from them out in.

The Dung of puls? Wheever it was Den it demed ble John Dame HITOU Characters a ferrugues unprequa tim far chert blute. about 200-250 paces to fethis is a Frace ledge of greenstrice in the 4.705 Mist. It looks like a Ochistine any goalord, his a live funder up stream (in a direction 1405 q w) 41706, At is more marries, though Sported. 41707 legam further up it is 5 christine, 41708 Then it he enner more sealy and Ken again a rune marry, gray 41409 wacke like place occurs. a luce further up stream, i.E. 325 due W. J. Jun as Shaft, is a limee wito the bunk. There the rock is a quite russing, dense Chemitis rock. Pores fines to State. Think the Explorations are in Some ferriguezed greensture tup. at me of the Endem pelo Tunever, 111413 The man west the new wit in the. Thuy seems who a gray slate



from the Turich Ride as 300 E & to Lee line Ree 23.

Junto Explications are b ledges

y greenstone or chick and Ellepsoidal greenstone along the railroad

track- The westernoon being a

little wirth for track and 328

E you see line hee 23. Others are

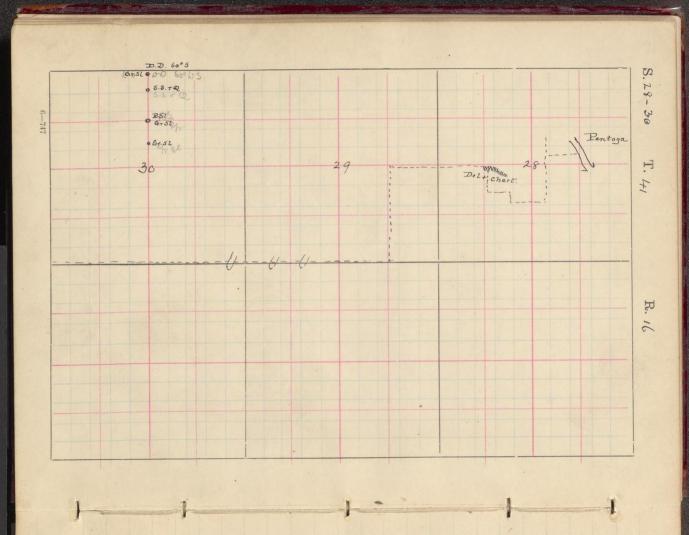
lucated as indicated

The two in the Donne so de gothe track an as an located in top ographing reals. There are peain by allipsond as quentines with any goalind at cuvilias.

Elijovious griensting Containing

41711

questo de grains. In y R. R hack.
Allipsovidas quendais, loast ExYosure S y R. R. hack.
Coned not find any slate at 26003
The Oewabig Co your Down Some
brice hales in his b ledge at the
Dum and believe this point
and Jens bo that fined and line.



heade a trip from Pentiga wesh through Dies. 28, 29 0 30. Sow the Check ledges in Dec 28. The west is like that at the Dawn in away fourtieren. Som no order rocks in trips. Come try is covered with deries of be an tipup Daws trend. ving a little St of.

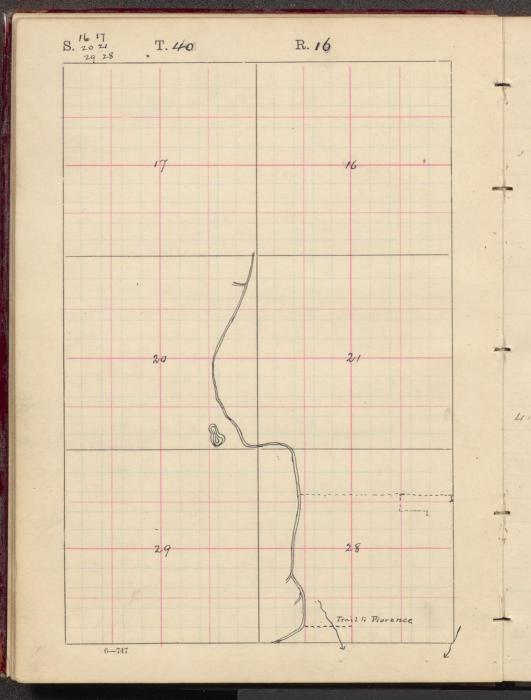
Comed get to Contacts of Checks and limetimes with wolen rocks though this was object of the trips.

went back of Sum dess on hills
and found hidge of greenstine our glunder of the usual lighte at 340 8

276 & f hw Cor Deo 2, J. 42. R. 34

It forms a rough Experience on the west side of from invent hill.

It Coulding Small and large frogments of deuse light gray greenstone in an any gladerd af Schistime in an any gladerd af Schis-

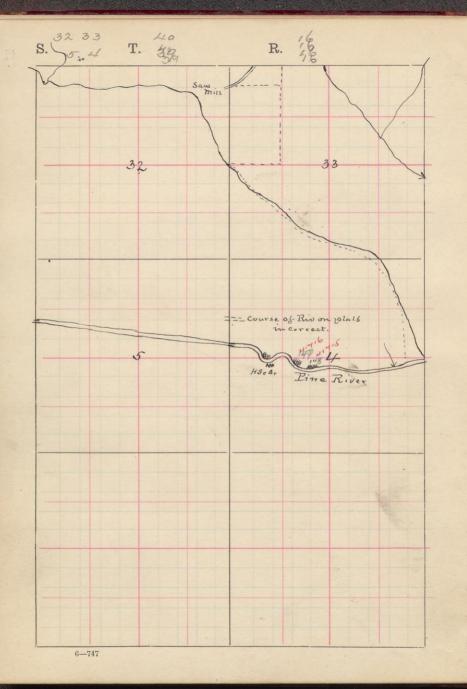


Went aling 2000 from Wik's Spring & Sew Trice in Dec 32 J. 40 R. 16.

and dum logging 2000 & anies
and East aling aires and back
aling ling indication may.

Centy dec 3 sun ledge of bunded hundlede a chish in appointe bank do dip is 750 S. Cond was reach ledge by feet specimen

a grensine in suale Exposure un log glange hier de seems bele a Course sansverrisige of Jabbo



Went buth in Dame logging 2000

To river and went west. At about

400 E of her ling between Seco 4105.

One rapids over a hunbende-Schish.

This rock is cut of large pequalities

Office Sime of which include frag
ments for Schish The pequaties

is course our of Curtains great cupstals

of feedopon 8×4 in.

Cust from Uni ledge to at least 900 Jours Cust Jours ling are three distincts and separate ledges of how been de -schist Equary dis-

Vant apart.

Ske ernien je this typicas schish Hom bende schish with bounds je Level cules. Orrbably an all per. Thyry

Con time o west & Daw in hee 2.

Forms no ledges Escept in hec!,

at the Distance of 100 to 400 paces:

East of White of fection. These again

is a great Lumblendo Schisk cut.

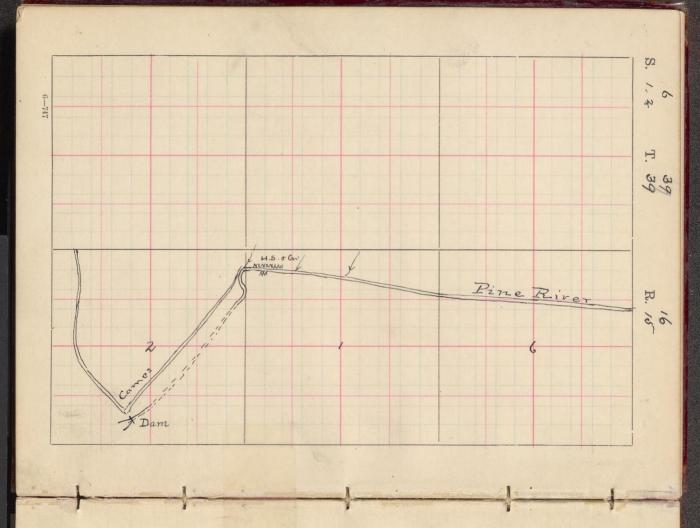
Ly pequialité Depkes and askers

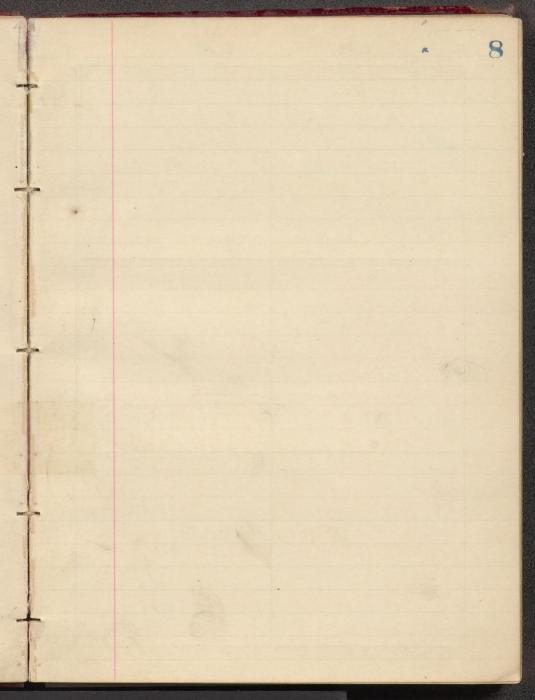
of a forthy ry. The grante is

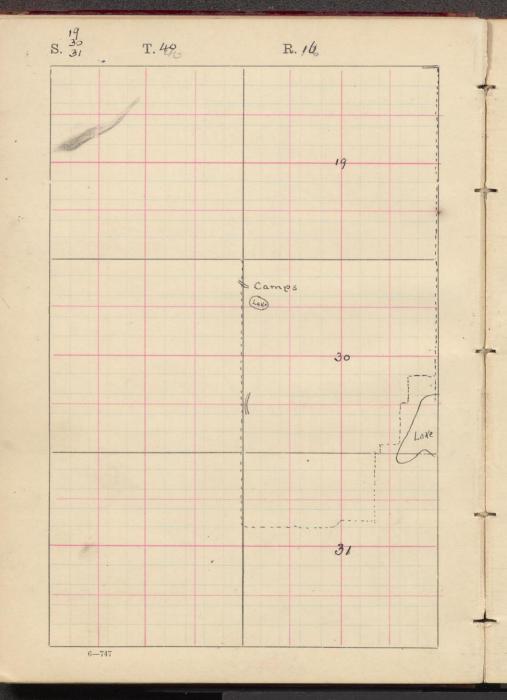
21715

R. 1616 T. 3989 S. 34 34 6-747

They runch mine about aux them it to further Eust the d'Cutains much There uneverno fraganeurs goth achist.

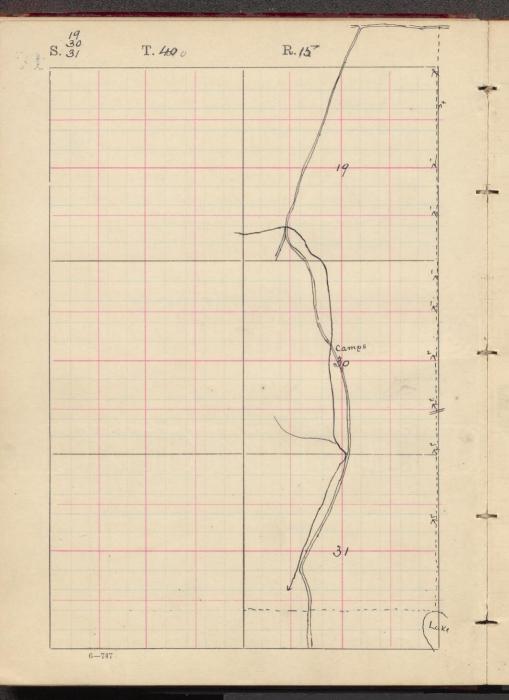






Ran from read on It sec line 19
Dones on E. line their Reclaim 21/2
uniles and back one were king as
four as Comps in Rec 30. Then took
road and went to road running
E. from near Percupins laike and
Outtines & Very turking Steining
any rock.

y. 40 P. 16.



10.11 R.153 T. 460 S. 15 14 6-747

From Forks Dan road ran U. in Whine her 15, JHO R. 15., gigzagging to UE car their Rection, then U. E o U. & Daniders road 135paces & of Uw car Rec12. No roads.

treen Eus along river from where road crosses is in secto J. 39 P. 15- to crossing of road from Danders to fum. To rocks.

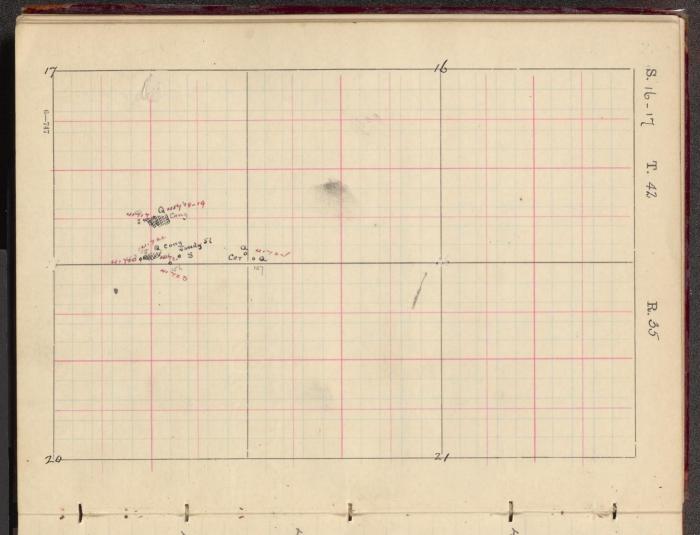
Examined Exposures in Their Daw Touce Deco 14 020 J. 42 R. 35 Where Many Ex/o osures and great min. her flis have treen reported as about 250 th of D. Decein ling 1 Lec 14 and 350 W JS. E. Cir. are two preso in a red state in a very fine granued Sandstine and Slight ledding. It may be a Posts. Jan Den Stone ex. a lines time State to the East John Jews on the side of the hele are Exposures y a flinty Conglumerate resembering that at From there in the tremmere rouge This conglune ate apple aren to contains to peoples but there of quents, querobile and check. This blems Who ar neto a deuser check, which Och lines loves as though it ruger The in the fine of longo pebbles, hus deveral ofsecureus Exhibit the agate Structure in D'cating that it is a Decemberry Dubstance. The lune pit in the D. De Clice line Doo'n JSE Cer is in alles Malerias and Conglumerale?

41717

- 41718

112

41419



a little East of the pit is a large Wago Endrug zin a duque Imecipiece with Eust. The rocks at the bottom for fre copies are the cuiglune ules, have merlying there are Calcareurs Dandstines and appourint there is a gradation between them. It is bankle yours! ble That the Conglumence and The Dan Aline is Pots Dans, but Duspact thus the Dundstine is a pertin the Doennew Jerualin at the foil sum of the rock taken met. Looks Extremely like Pots Dam Sanding, but an in closed to this, it is this Sandstone with Cement. leached mit. Eur! Alter is anothe per on the

41423

41722

41721

Jump Juhich is a great quantity of while state and state the vitted the doluming state?

a white quartitis chear custitudes the sale material un amortos

demp heap. It is quite massing.

ment into D. w or Dec 18. J. 42 De in Reach of Document and ho would of Twich. During Tound the west line of Lec 18 Tunch not. Coned that find House where this is the ledge in the river. There by Some line custance, first Ears! I line is a buse Expresse of broken of water in that their their was a touck that has here were ed as a rale-way. The rock is a black shally state striking about the How and dispining NW as a high augle.

On whire of Lec 18 fined ledge of chert

Grewy in which the rock is meno grewy in which the rock is meno or less breceated but in the whale is deuse like the rock of Sheir Daw hill.

Wiawarka Tung according to Tur Selden the Theaward one Dipo about 720 U. Strikes E-w. and priches, 25 w. The Languing wall is graphile slate, The foot wave a Sili-Cems Dlale. The Shipping one is a mixture ? linometi and hemalité of which 41725 latter is seemdary. Since of the ine is a dense, heavy. .. 41726 black material with calcule and. Siderile - nigs. Sure is banded one looking very 41727 much like degregations beliveers State band. Specimen of decim daing treccialed 411728 luminule? Specimen Thuring Centuck of black W1729 Hate and one. huch John state in the Dumps he up 41730 is fa greenish here and is chlority, as Hough a decupered and Sheared 1 21731 This Seems Who replaced of one in Crushed and falled pertins Simin I the ones Show Succes Butions &

The green rock huly replaced within is. he the proces of replacement a bounded me and while thery-· rock results? The white bounds are finited and fractines, and along The leach one deposition takes place the one originating in the green rock and deeping well the cracks The white me The man thus 41733 leccures a lneccia o While . Thank Eogeo fragmento & the white rock 41734 The ere or riv a ruation of green rock Large Specimen Therving gradual 41735 Wansition flow ded rock relothe Theecia.

4/737

fragments je white rock from
fragments in the "reccia:
Foed

The rooks are much freded In stops according to Un Sheld in the foreworth drop is as I live was observed as tring of turking Exploration 117~ Shaft Ore Ore

Section N-S through Hiawarha Mine

Sic. 7 - J. 42 R- 34= Jr. W. = Jh W. N. E. = N. W Baltic Mine -168 Kinney Farm your shape. as BUSU + V o M Elah 3 Black Enarty D Shaller Testpits Tasper or Lean ove 18 woshard MC Red 2norty 176-7 Part Corner & Sur oche 24 46 Deep-80' mixed Black Slate Test per 1 Black State Kory I Test pit 25 h Dup 15 to 18 h. 1 Black State 60'- sand Fest, pet 52' Sup. Sand Gray staty.

7 Degan Examination of region around Iron Rives where are found the Reving In, Daber and other nines. First went Dum & Youngs Expoleration and the Basis tring in Dec 60 7 0. 42 P.34 Jungo Experation is 60 U. 150 E 1 D. W. Car Rec 6. Pit was 125 for deep at time freit. Bock to a 41738 Couse gray wacke slale? Tune of which Contains what loves like fragments of one 41739 There is also news with this wa 41740 leving Dune Seem Day one as at When Jours From this place went me with Truney propert- UE 7 h w dec y and ran up the to live of this No acres Excurring Touso? The lo. Catino and contento of these forto are given in accompanying mays. Black slates from Join in Riving 41741 41742 Inopenty.

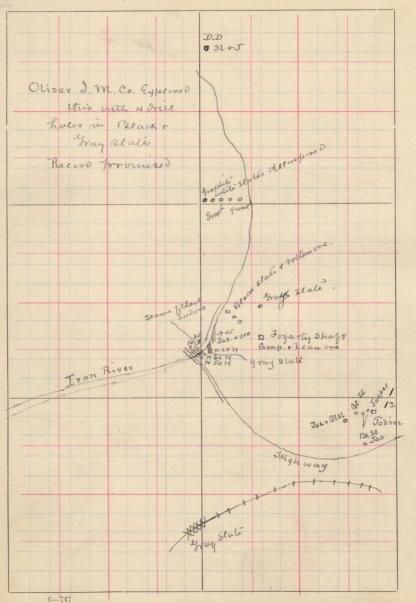
41743

check I from wed shape news Tow Cir D. E. 1/4 20 1/4 Dec y. These rocks and black sewis are авин дана. 32 Sof this shops is another fait in Janjan and Reales 85 & Jelis is the Shaps wood for Walis Dupesly 150 S. is another pir in beack state and sand. 80 h & Shaps 65-E in Kring Torop. erly is a pir ru gray slate and Jeropes and 404 65 E another fort ni Danie rocks. The remaining beto

avereformed in Kenney's lot. They

are located in majo.

41745



at the Bullis Tuning in the Way of New Dee y the Denne rocks are Jund as on drugs of the awarka Escept that the green rock is that so tolain be an deut. The trecain is present in quite cursider avec amounts and faces are perulips Mr Lawrence Days that in this rine the Dip is 40°E with gruy state we hanging and graphic " alatom the foot

At the Forgarty Shapt which is 350 W. 145 U. D.E Car Dec 1 J. 42 P. 35the Dip is also about 70°E.
We follo Shapt in the river are three frise in a ruried beack Deale of limonia.
Took which in places is cultible of and the ecialist.

41747

Daher one Daher one Daher one.

21748 :: 41749 H1750 Examined ledges, Jails and victorysom wo Dobes and Rivertin Toropaesties There is no open fair at Dobes Ting. The one is represented by the Phree fore going opening.

The Joa bella pit is a pen Or is in a beny run ch falcas deries of checks, graph in slates and what deem who gray slates. Sketch in next page indication relations formers rocks. On the west did give pit is a faed in the checks as me the graphile deales with yield so fan as comed alterning about 200 J. w (Ree mass of the bush of the back is almost dint limb of the back is almost wering. The north limb of the back is almost himself.

The graphite State is in a triangue. I can in wedge that a triens, prinched but at bottom. The aper of the Joed was me, It is then mined met.

In the little beidge 25 paces from the Shape in the pit (direction 30° 20;5) are bedded therto and ones interesely for clos with the upper limb

I fold hinguital and liver lumb Steeply wellined. Pitch about 150 hw. The charge in the pix is the while varie ty but in the ledge west of Shape is of a down fourfole out or and vitrenos In addition there is also prosent here some of the while Variety. as 90 U. 230 W the ledge I. W & Isabella Shops is a little hill ock Tolack state sturing apparently h 359 and dypping 60° SE. 85 h & this is a druce for my gray On.X 25 West & au and do a is fait in granel OinA 25 hw ofters in Dide of road is me In Charlo one and black Deales 45 le 7 pit X. Cherlos 85 4 6 this is a large Shaifs me Dhaff Z Cherts, and one. 62 E. 45 S. pip in voter slate, cher and gravel. 15 W 30 Wy this - graphile slate 10 hr b Chris 18 W & Thops 2 Jois ou charto 12 W fetris

These licentins show by as in next page S. 6-747

20 W. flass fait is one in graphile 10 W of this one in black slale? 15 w of this (95 w g Z) is a theuch In graphite seales and a little chest. 25 paces along rock from A is a tience with troken me and their in Sides. Comed not get define ? Exerd of Strike and dep but think Strike is 4.35 m. for location fother Jacks used Door floates tank as datine from which to muske neards. Dander Cherts form a ledding 65%. 75 & This record from. the rucks Deen love. It may be ald drup he info but Welling this. Rocks are in place. On 36 E 165 power of water lains. (Pit 48 feet hs. 20 fr Ew) The west Dide Athis Sus. is in bounded charles Striking 1.26 w. at horth End & fails the dip in its East dide is soon,

Pir B

Cond in cuest. Diche 50° E.

Pri. 45 E. 20 U from B. in diche groud cherto and be ack. Dealso

Shapp 65 E. 20 U from B. Black

State, Dome Chert.

92 E. 20 U. from B. Chert.

120 E 20 U. .. B. Graphite State
146 E 20 U. .. B. Cherto.

105 E 210 U .. B. Lette heilocsi.

Mean road. Cuest Diche troken Cherto.

25 W J lust location, this, Same rocks

25 W J lust location, this, Same rocks

245 h. 105 & fram B. Candod one and check, Strike U 60°E, die, Uw. Contorned bade. Strike taken is Foredamicant office.

6 paces to J ledge is foit in Same rock 10 ... to Jethis is another ledge of the Same rock and a fash 2 paces East Jis.

305 h. 125 E J. B. Pit. States 305 to 138 E ... hedge of gray state Edward 138 E ... hedge of gray state Edward 138 E ... hedge of gray state

Pire 360 U. 140 E J B. Shape in Charles

18 & 1 their Shaft the peiple line nuis a few degrees (2) & g & along is check and Rates are Exposed for 26 paces

10 Janes N. J. C. is an and Shaperin Join The hale is 25 paces U-5 and is in Charles

du 44 paces further up tocks ling Cherto Continue. as this Tours. telack slates and cheets Tules une. gle and to fraces further Ecist a ledge outeraps

at 40 baces & Johaft is the morne Jer pit in sice phile-which best pures with UE rulo a raving In how side John raving are Charlo and black seales structing about 12 25 2 and Extendring alway Strike for yo paces. The Check is the Durk Colone o Variety-

leo Ut of Shape are two peros Tie Cherto

at 4754. 175 E fB. begins another Exposures in pipe ling. It currents ? I traken chertos and Extends to 550 at 573 U 180 E. is a shape in the Cherlo". From 600 U to Stand bough road the Thipe line cuto beach seales and 613 U. 10 W in W sear Stan boungh road is lette pir in checks The Dance to CKS Extend to Dourherw open bir John Revertire Ting. arbyy U, between the road and the Stambangh road is a ledge of cheep. Civering an area & 50gr E-w and soft US. To general strike is a line & Ju. but rock is runch forced The axes of reverue fre foed seen ot curey, Deen the Treany Kingin tal, Though in me care the Juick is apprunent a lein to the S. Co. as the h. End & the leage (415 W) The While Chert, like that at the Odiawa. the and the Bulling are be autifully

intermingled and the treccia notes

There there are developed and they seem to pitch a little Eof U. and at angles of about 20°, which is crease to 40° as Extremy U and.

about 50 pares & flters ledge is a cipy in the diae force hive which is the Southern Extension force East was I the Southern Extension force East was I the Southern Extension free East was I the Bouthern Rivertin pir. The rocks are trooken cheets, striking generally a little E & U.

The Donohern Rivertin pis is in Continue Checks faire Thin beaded and pressed rule cause foed with pilets apparenty U.E.

at the larger fait the cherts are well bunded and reservely cutlived but the facts are revolution. In the Eust Dide for the pitths, on the East Dide for the rocks seem ble less chert and unone like the gray States. The wairing this is about with trend for the but there are many divergences

The west and seems to terminate in gray state. This cuts across the tothe I we and occupies about 1/2 & It and I fair. I traphite states were seen only at me folace as a narrow triangular bound about 1/2 way from It and I fair. It appears no though a sharp synchinal fael.

417521 417521 41755

Reveilie cre

41756

One with pyrile- Rivertio ming

Evanined Vicini, of Sheridan Thing and Double to Rivertin in their side of Fran Rind.
The locations free leagues about the Shape are shown in map.

lute leig us beine forhich the Sheridam spow runs. Black seates and graphit is varieties are Exposed as far as 3503. 200 E g bheridam shaps where in lop g cliff there is a contact between the seates and the lutes with the lutter

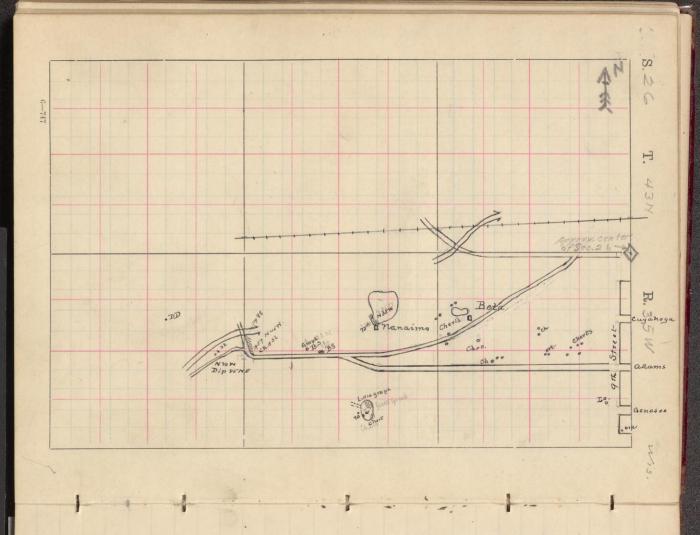
The chests are forded and on their East Dides further Donk they are ruleningers with graphite Deals

about ir je middee of Sourhern Reverlier Pirano en lo side je RR about 50 paces west Jethis is a deep soir in checto.

a number pleits in Mr Sheedon's fieed. were located as fortuns: 45 m. 38 n. y 2 wear R. R. Station at Stembaugh- Shape in Checks. 3, 2 18 2 Uni Shaft is frit in Cherlo 55 20 U u .. . another Shaft in Black Deats and Cherlo 30 W Vettis Your in black Deats.

Plato John Riverion and Dober froperties are who sent me at Waterviers.

ar the Privation the Dip is 80" W. Idangniq is charts and shales. Foot grayshileshales.



Made a detaile d'éxamination à foits and Thopts of nancimo and Beta mines.

abundant and in one drings he aft there so quite a little graphete states. Comed get no definite "referencation ces to Curdinis in Eirker fores unies.

Cherr locations rudicated no map.

Their locations rudicated no map.

In addition by these the macking in dicated to initions of a minuteer of others that were from chicago minutes.

Mergnizable.

The cations from no cor adams and

9° 26°. 34 75 W Cher.

35 21 8000

55 W 78 W

572 88W

4521 98W.

26 % 109 W

2621 158 W One

90 U 165 W Check

106 7 165 W

me aus Cherto were finns intuese me aus Cherto were finns intuese m uw Cir Tuaple aus gas st. me was found in wees ( Wackinson)

In Surkew foir & Transino a Mift was four tow. Or ran 415 ft rie one and then struck some other rock (Mackinson)

Traplice in foot ware f pilo? (Macking) Un Macking Unicks one russ Eys. of open pix S. 26 R. 34 T. 43 NASH Chicagon Mine 6-747

Of the Chicaged Thing nothing is to be seen accept the denup he ap and me ledge in west side of pit where the general strike is to 35 w and dep 60°65° D. w. There is apparently a lit. It are the fact in the bedding at this frame with a pick he with it is so independed mining marked that comes get little out fit.

3 specimens lather several years ago

Executeur latten Deveral your ago

The Dring when Drice halo in graywacker is 1445 tr. 425 tr g E'/4 /0. Ree 15 J. NO R. 35. Drielen reported Souprock. Edge of Dwary Dirdering Son Prince

The James Shape is 225 Tr. 285 I WE Cor 23, un, side of great quely Extending to and a settle East. a new drive hale is heing put down 30 w 20 th of thaps. The rocks in driver are a rather check, bein ded check and one, green decemposed states, check. There cia and an one cut of heins y lacir hecuday me harker wirds have done rocks as find at Thiawarka Turing!

41757

The cheet is a week bounded femy variety in some praces, but this, in Expired Director gets porines and looks as though partially DisDalued- as if carcanone cerement had been washed mes behand.

In a mumber of specimens the live cheets apopens interbanded, one and red jaspen relevanded, one and red jaspen repeacing the Sand work laterally.

41758

Un the Boyingtin fum Decid.

J. 43 U R. 34 W. are two longs friso
me youried has already been
located of Clements?

In took are sealed trie is

220 U. 240 E. 9 5 /4 bost secid

and the other at

41759

41760

at ackins in Juno lojo og rapling and roads a little different from their mapping in Bru Rines Sheet. June John roads are arident new. The rucin road which is mapped as turing & from Decling at W/4 Dec 21 Custimes Turk to 1/4 for lutiness & o g, then ruces to Jure latiness or Jure page.

In the Dw 1 2 W Dec q there are deveral great Knots I greenstry oughur. erale, the fragments being lange and angueux

411961

The week is like that Elsewheering the district and here it is hear tifully developed.

S. 8 R. 35 T. 44 HON GUK Cowy of Finger's Map. 198 M 502 osc. se HHH G.C Test pils stronger wert Qua Cicy 52 6 - 747

Examed next the test Joels in the Centing Jow he dee & I My P. 35, located in Trillyes map in appointe bugg and located with respect to the conglumente and total when we map a few payer trey and, when strikes are given as observed. the northermun and Easterment 6 foels is in States ourse of which are grafoh. mig . The bedding apparents Drikes 480 E and the Dip ydehiolizer 5 to 4.85° The heading is probably flatter, but this pour comes not be determined positives. the ine pets are in a climitery-loaking Others material and a perus black Chert ino

. Hrry 6 3

In me peit the me les de are apparent, componed of some fragment are nockthe fragment being me, chert and grants. But none were very definite, defined.

The pits ar in a plain sepanaled from the conglumeratic queus time with Douth of a swamp about 50 paces wice.

m the no ville J. road, first men flewer sec 8. is an isolated was third empored of bare rock. This is a beautifully bounded quantz. ilid and gray wasse S.W 8 T. 44 R. 35 G. C. Scale in = 50 paces 6-747

In a well 600 Joaces U. 50 ft W flormer 24,25,19 0 30. Cherty Dolo-Trute was Encountered by James Burgers, Pewabig Diamino Drill Man. J. 42 R. 35 234 W.

lu E-W14 ling Dec 24 J. 42 R35, 500 ft w gely starte is a Gentleer or ledge fole Dance rock

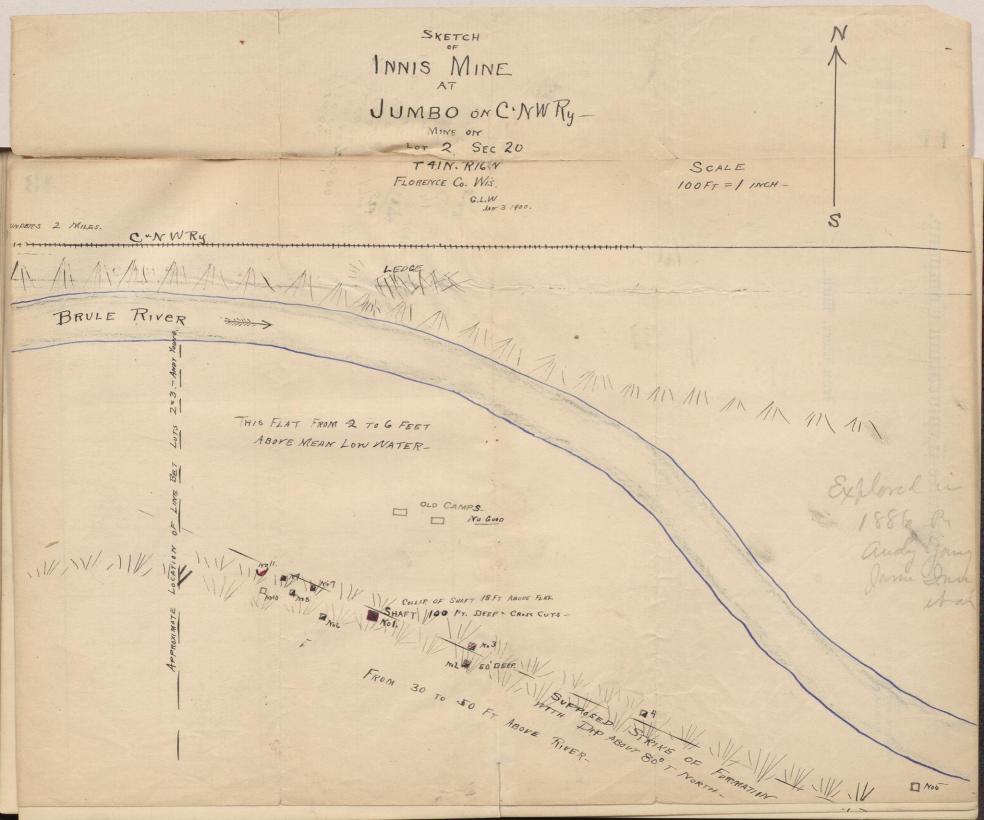
Freustine ledge is on the land of avel Peters in "in centre Dec 24, Some tom.

Т. S. R. Jumbo Epl. 6-747

N.E. 14 SEN L. J. 42 R 34= A A Hose One & Jasper Fornation DD Holes DA Hole O Longham - Atthebation of

Greens tong uterofo Land owned by axel Peterson Red Zivarty 13 heridas Red Quanty PENTATO Orotolate Sob 3 d. 4 Sec 19 

Printed and for sale by L. P. Crary, Marquette, Mich.



## Blank Pages

45-57

Skipped

acedresses of Super, Engineers Elg in Henence - Som River district Dupt J.S. Wall, Dober o Rivertin Trume Stambaugh, Unice Fred Roberto, U.E. Crystal Falls, Unch C.E. Lawrence, Ballie Uning amasa, Unice Supt. Young, Ficawarka Enine how River, Enice D. C. Mackinson, Beta & Trancaino Unices, From River, Much. Supr E. W. Tropetius, Cummen wears Unio m. W. Wayes, Heneues, ars Jas. Burges, % Pewabie dru Co. dru terrutain, Unice Dr. Is. Belden, Gran River, Euce.

John Rudstram, Ennumeraere, his John Williams, dru River, Truck Trigguis, Communeath, edis Sullivan, Herrence, aris 5. E. Just Sex 1 - 3-42- 8-35

S. E. /4-SEX.1- J. 42- R- 35 DHose State & Juster. Oliver J. M. Co Exposored this 1/4 = D. Drill = 4 Holes Black & Gray slate 158. Status Pits hafe I El Shates Pits quelo sea 00000000 G Spaces W place slat froder our Fogarty = 1 Shafr my cute (Lean org Seam of theopton 250°W Jack Stat 12=
and D jasper
Jackstaper
Shaft Highwale No W/4- of M. E. pese its Sex 12- J-42 R-35 Gray States outcrop

