

## Townships 44 and 45 north, ranges 31, 32, and 33 west, specimens 31004-31044. No. 211 June 27, 1891

McNair, F. W. [s.l.]: [s.n.], June 27, 1891

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211 LAKE SUPERIOR SURVEY McMail

Finds. LAKE SUPERIOR SURVEY.

Topography.—On the left-hand page map as much of the section as has actually been seen, counting each of the spaces between the blue lines as 100 paces, and 20 of these spaces to one mile, or 2,000 paces. The scale is four inches to the mile, and the heavier blue lines, outlining one inch squares, mark forties. Denote streams, lakes, swamps, marshes, etc., by the topographical signs annexed.

The geologist will consult with the compassman, and describe as accurately as possible, the timber traversed. When pine is found, give its proportion; tell whether good or poor, and indicate kind—white, norway, jack. If hemlock is found, note the relative amount. In hard wood districts, designate as good or poor, heavy or light, and indicate predominant kinds, oak, maple, birch, etc. Cedar swamps, spruce swamps, tamarack swamps and meadow

swamps will be always discriminated. Outline burnt timber.

Each day, just before leaving camp, the geologist will compare his own and the camp aneroids, and the reading of each, with time, will be recorded. At work the aneroid will be read on gentle slopes at intervals of 200 paces; on steeper slopes at intervals of 100 paces; also at all maxima and minima. When minima are streams the map and notes will indicate this, showing width and character of streams. When a stream has made a cut of importance, aneroid readings will be made where the banks break off and at water level. If instead of an abrupt break, the stream valley has steep slopes, aneroid readings will be made with sufficient frequency to show this character.

At reading points the compassman will stop, read the dial compass, and remain until the records are complete. The readings will, as fast as made, be placed upon the map at the right-hand side of the line traveled, and in the notes, the numbers being inclosed in parentheses, basing the work upon the bench-mark which served as a starting point. At bench-marks the absolute reading of the aneroid and the altitude as shown by the bench-mark will be recorded to serve as a base for subsequent readings. For instance, aneroid 29.13 inches; altitude on bench- mark, 275 feet. At each subsequent reading, by setting 275 on the altitude circle at 29.13 on the fixed dial, altitudes may be directly recorded. When the next bench-mark is found at two miles distance, the difference between the aneroid reading on the basis of the first bench-mark and the second bench-mark will be recorded. At intervals of a half hour during the day the time will be attached to the aneroid readings. Upon reaching camp, after the day's work, the geologist will record the readings of his own and the camp aneroid, and also the time. Interpolations will then be made, based upon the bench-marks and times (not distances) if the day has been one of no abnormal atmospheric disturbances, or upon both bench-marks and camp aneroid readings if there have been unusual disturbances, and the corrected numbers, less a constant of 4 feet, will be placed upon the face of the map at the left-hand side of the lines of travel, and in the notes without parentheses, but the parentheses numbers will not be erased.

At each aneroid reading the trend of a horizontal contour line will be indicated upon the face of the map, making the length of the line correspond as nearly as may be with the actual distance seen. In passing directly up or down a slope, the contour lines will be at right angles to the direction of travel. In passing up a hill diagonally the contour lines will intersect the lines of travel at various angles, which can be estimated and plotted with suf-

ficient accuracy by an appreciation of the north and south direction.

The course of travel will be always north and south. In starting from a quarter or a sixteenth post, the work will be plotted on the assumption that the true course is followed, but upon reaching the next section line the geologist will remain in the position at which the line is struck by the compassman until the latter finds the adjacent bench-mark. The intervening distance will then be paced by the compassman, and the point of intersection of the section line marked. From this point to the starting-point, a right line will be drawn as the actual course of travel. The positions of the contour lines, aneroid readings, etc., will not be changed.

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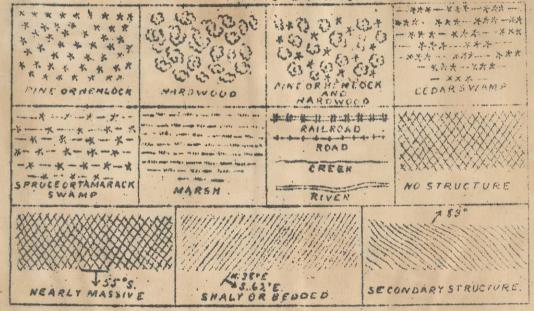
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## "TUPOGRAPHICAL SIGNS.



## EQUATION OF TIME FOR 1891.

Day	Min.	Day	Min.	Day	Min.					
JUNE.										
	Add to watch time.									
1-6	2	7-11	1	12-16	. 0					
	Subtract from watch time.									
17-21	1	22-26	2	27-31	3					
JULY.										
	Subt	ract from	n watch	time.						
1-6	4	7-13	5	14-31	6					
	AUGUST.									
	Subt	ract from	n watch	time.						
1-7	6	8-13	5	14-18	4					
19-23	3	24-26	2	27-29	ì					
30-31	0									

		SEPTI	EMBER.						
	Add to watch time.								
1-2	0	3- 5			0				
			1	6- 8	2				
9-11		12-14		15-17	5				
18-19	6	20-22	7	23-25	8				
26-28	9	29-30	10						
	OCTOBER.								
	Add to watch time.								
1	10	2-4	11	5-8	12				
9-12	13	13-16	14	17-22	15				
23-31				11-00	70				
20-01	10								
	NOVEMBER.								
	Add to watch time.								
1-13	16	14-19		20-23	14				
24-26	13	27-29							
23-20	10	21-23	10	30	11				

4 Bitween 1 T44 R 30 + 3 CT 45 R 38 19. M. 395,73 Set 8.60 with 29.29 Run North in 36 to River 200 Nath 390.0 235 Min River 299,00 40 pages wide East hie See 1 745 K 30 BM. 394.93 aread 845. North to River /73. Q1 400 ah water 488 275 llax 480 Clompaliman Dom Muithly 10/ SPECIMENS: 1004-1044 TOWNS 44 845 RANGES 3132 A33

June 3/891 Rune E, hime Lex 1744 R300 Vant & Line. 7:30 AM Ganh a 28.64 No2 28.69 South one a line 10W 160 Road 200 5 4184. Hills about 30 feelings to last. 275 Max \$30 373 Min 420 420 Forhol hill. 424 600 Max 451 700 Min 430 800 440 880 Max 450 930 Min 438 1000 455 1035 Max 465 1100 1125 Min 422 #12 1400 1) 00 408 1500 440 974 strick line 43 west of S.E. come Rain lash 500 paces.

14 June 18, 1891 Run /4 line Bg 45 och of S.33 T. 45 R. 3/ (550) 16 (545) 538 532 - E40) (500)

June 17, 1891 Rom Ky him Ba South of See 83 T45 R 81 B.M. 499.54 Let 400 with 28:43 at 7:45 AM. for in Tamaracle & Spruce swamp. 176 KVar 602 190 leave gurant for barned Hardwood + few pine. 264 (540) top spridge 400 (550) mg colling for Hole var 73/48. At 300 we extered green Hardwood & few good prine, 5/2 (545) eveta Burned Hardwood & prin 625 Enter Ance a tamarack swamp (510) 722 leave owant. for mall ridge. On ridge 7\$0 (530) 770 recute oward 909 leave swamp for Hardwood with few kine. (515) 8:30 AM. 931 (540) 1000 (560) High ridge ploping sharpy on &, foot 1073 Enter Sprace + tomacak powers. (520) 1167 leave mant for great Hardwood & pine 1234 (540) 1400 (530) Var. 6°E. 850 A.M. 1500 (550) Enter Burned streste, Dine Huelen & good, 1600 (550) plat. 1700 650) 1910 Struck him 1262 of post at 910 AM.

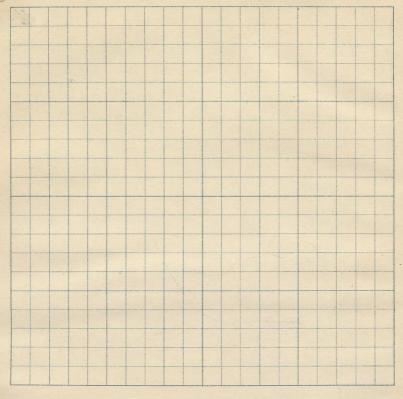
June 18, 1891 Run 14 Line of South of Sec 28 TH5 R31. "4 post (550) 9:30 AM. flat. Hardwood good Slightly barned, Scattering pine. Var > 5°E 218 Inply road E+W to Golden's Camp. (560) Jan. 750 E. 400 (560) Van 75 E 9,50 A.M. 600 (540) 700 var 85 2 800 (570) 1000 (560) var 902. 1120 (570) drops sharply to a sort of aware from which prin harle out 1200 (520) edge of swant 400 × 1510) flat and awanty like but hard wood, Har 10:30 AM, Var. 1008. Marble with a number of secondary minerals showing in it. From ledge located 1455 N 1000 W. Dipol beddin. Strike of bedding (9) N 15 W Dr 48 N.E. Ledge about 5 pacer wich and 20 long. There is a series of Joint planes diffing westward. Can uncover but little of ledge. 1485 auster ledge of same scraller with list Theres wood and 15 long. 1600 (620) Var 10 & 2 /1/20 A.M. Burnet from 1460 on. 1776 Breder Graves (540) 1800 Var 1250 E 1872 River (490) 1885 strike line 11:40 AM. 1800 N 2020 W Strike N15W ork 86NE. Derun to be a repetition of 100%

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about 60 paces. The horizontal distance ever is not over 30 pacer, at river 18 75 . I find a large piece of this rock on which the weathering shows wavy bayen which correspond to the line I have taken for bed dring and where still and dife are given. Our crop in found also in river bed 1900 on north side. In river out crop shows, on line, about 20/6 about 15 qow No 2 at river 12:45 (5/5) Var 18/2 2 1973 Drave sever botton var and I for Hardwood the you 16/2 2. 2020 that indge (600) 1960 strike line 20 w of 14 port BM. 449.92 No 2 reads 540 at 11001. Var. 280 E.

10 June 18 1891 Rune Wky line By North of T. 45 (5 VO) 29 \$ 65 also a 1008 mp. 19

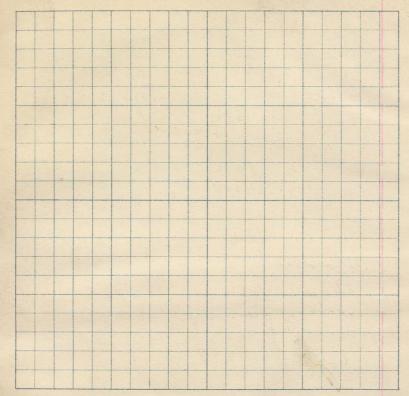
Sec 28 T45 R31 13M, 463.00 Set 200 with 28.54 cet 1:25 PM. Explate in Rose botton owant var. 10°E 140 470 Breaks down to Kver 160 (460) Bottom 183 (460) Rver. 1:35 1006 N1840 W1500 W Large out crop over which the river falls. Extends for 40 paces along the stram which is here about 40 feet across being wide above and below. Book seems to be a homblende rock. It shows a tendency to cleavage planes some feet apart, whose atile and dip are approximately parallel to that of No 1007 which blow N1840 W1505 Seems to be a crystaline bine stone. That which I take to be hedding strikes N/0°W. Dips 570 A.E. It shows a strong tendency to cleave along this supposed bedding plane, and the weather lines follow this plane. The outer of is nanow, only about 25 feet. It gives place to (on North bank) 1008 N1840 W 1510 to 1530 Seem by a of No 1007 and other help of greenstone wh strong, more than can be worked out in

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a day by an inexperienced man. But in order to finish my his I must have with this, No 2. (480) at river at 3:00 PM. 400 (455) on outer of No 1007. 200 ft 1/48. Lorange 600 (500) protante. 630 leave seven ( 100 (550) 700 (540) 1000(545) lahi 1200 (550) 340 PM. Good kine wite the Hardwood at W. Cut on 2 of line. 1400 (550) flat. Good pring mixed with the hard word 1577 Inply road to Holden's Carolis 1600 (555) flat. 4:00 PM 1500 (565) 1905 state line 19 wof poles 15 port (550) at 4:10 PM

June 18, 1891 Run W& line By North of 15 Lec. 33, T45 R31 K port in Hardword (550) 410 PM. 10.8 enter of marking 48 leave 100 recenter sweet, 200 (50) swamp. 295 leave swamp for sapling line. 386 recuter swant 600 leave swamp (50) 4:35 RM. Burned Hardwood, Leave at 850. 740 500) 400 (595) 900 (590) 1000 670) Politica at Edline 120, (540) 1300 Inter burned track 1400 (560) flor. 1600 (550) 5105 RM. 1667 Enter awant, open. 1800 Sman (540) 1853 leave swant burned timber planting 1995 strike line in odge of open owa 42 Ed B.M. 509,09 NO2 reads 640) at 5:20 PM

16 June 19 1891 Run & line By South of S. 32 THE S. 32 R.3/ (510) decco. 494 Pord ( 20) 506 (516)

June 19/891 Run E line By South of 17 See 32 T45 R 31 BM 510.09 It 200 with 27,99 at 1:30 AM. On in open swamp. 100 lease swamp for bound hardwood, 200 (525) 340 Var 3°E 400 (525) Clab. 600 (520) Center gren hardwood writh few pine, fair. 100 Rumed again. Rango to Holer on fine. 800 (525) Wat 30 8:00 A.M. 1000 (540) Good Rine at east. Later at west, 1090 Var 402. 1200 (520) On E. Good pin mostly white few Norway. Burned for 200 or 300 paces control line.
1256 ente swamp (615) 1322 leave awarp. 1335 reenter and, 1400 Swamp. (515) 830 AM. 1460 leave many for white fine good. 7500 (530) Var 502, Sheen work beach 1400 (630) 1700 struck fin at post (510) ah 8:45 AM.

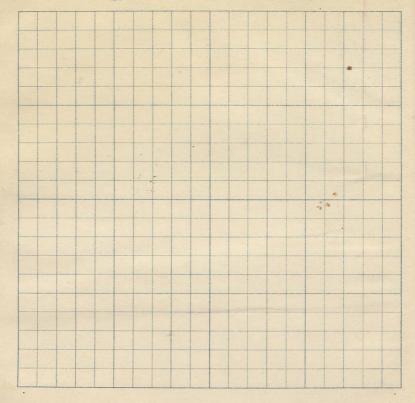
June 19 1891 Run Eline 18 18 T. 45 S. 29 R. 3/ (480) (3-30) (5-25) 373 (636) ulso a 1008 mpage 1/2

June. 19, 1891 Rim Elin By South of Lec 29 T45 R31 Cor in edge of swamp and good white pino (8) (510) 8:45 AM. 200 (530) flet. Mashing on \$40.29 kine & hard word on & &. 274 Road to Soldeis camp . 400 (5-25) flat) 471 van 5/2 2° (00) 530) flate. 800 (530) flat, Sterling changer to East, bine & Hardwood to west at line 952 van 402 9:20 AM. 1000 520 1200 (520) 1400 Awampy (480) 1450 leave month, for burned plasting to & of line and good bine white to w. 14 56 var 42 2. 480 (495) falle to pive 1531 River (485) 30 pacis. For down to dam. No 2 at Down (490) at 10;00AM. Stof for outcup, " Ind about 30 feet of 1018 and N 1840 W 1520 and was taken became exactly like 1007, about \$0 feet acron

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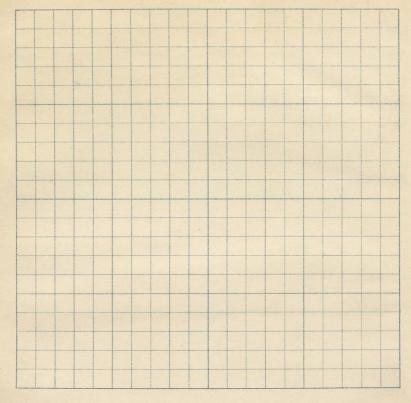
or north bank but at least 10 n 15. N 1836 W 1535 Ampleude Rock showing 1010 the same tendency to fraction along the of supposed bedding plane of the practile. The ont crop of this rock actualed westward ations 50 feet, but of it came some quarte. This beat has a horizontal eftent of about 100 feet west of it came N1840 W 1585 Specimen was taken some twenty feel wish of the buterop of 1011. The out crop here is fractured much more than differ and strike approximately parettel to the bedding of the marbles N/848 W 1665 Specimen from wester 1013 bounding of part of paine bout erop. piner. Out evol of 11/2 and 10/3 extends horizontally about, 240 Let but on South side of stream 10/3 rains west

22

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10

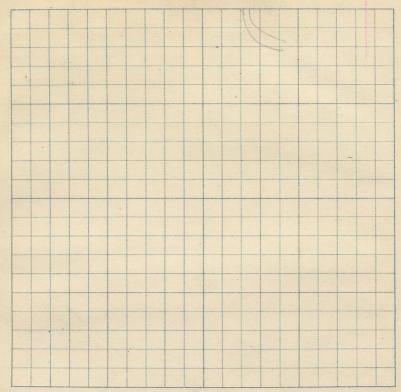
some 75 paces further than on north side, surround On the worth of stream and on the island figured on mak comes N/865 W 1705 Outcoop makes a very noticable ridge across river bottom through which the river has out a navow goige. One branch, south of island, has cub through between this and the homblende rock 1013 Out crop of 1014 runs east and west for about 335 feet There is a greenstone of its parthern exhause which I take to be the westward linit of that cannot have all of the connection. I can find no contact fine between the Incustone and marble probably from lack of experience in booking for them. All beds of marble have pame strike and slip and seems, to see the same except that they grow harder and more quartyone toward the west 1014 shows large quarty weis in place. There is not time for me to work it out as fully as I but it ought to be. The suggestion is strong to an inchesioned man that the greenstme is cathing whereast

24

S.

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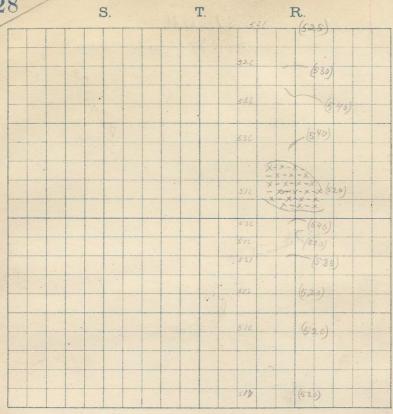


sastinged, as a huge diske through the limestone, and that the seeming succession of beds in in reality due to irregularities in the datheral intrusion of the dyke. No 2 at & am (525) at 2:00 P.M. 1600 (535) Rie bottom. 1795 Sie ev. BM. 483,69 No2 readar (550) at 2:15 PM. BM. in river bittoms mest 253 to river. Flows

June 19 1491 Run 2 1/4 line 18 g North of 27 Lec 29 T45 R31 BM, 475,39 Let 700 with 2781 at 2145 PM. 28 South creek 2 paces Rui & 33 var 922. 200 Leave mount (mixed) for hardwood (490) Hardword & Cedar burned who to (550) on Waide. 400 (520) 600 (535) flat, 3:15 RM. 626 Var 92° E. 800 (510) 860 (490) enter open tanaracke pro- fre 1000 frank 490, 200 swamps 400 swa 1520 leave promp for burned plashing. 1610 top of pidge and road to Golden can't (520) 345 p.M. 1666 (510) Break down 1705. creek W. 1 pace (195) 1800(520) 415 P.M. 1828 strike line 20 pacer & of slake at 480 RM. (525) abotala

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June 19, 1991 Run E/g ling Bg North of 29 Sec 32 T45 R 31, Is book in Burned slashing (525) 4:30 RM. 2005 (630) var 7°2. 382 (640) 416 (520) 600 640) 230 (526) Sula shen lamarack swamp, 800 swamp 5:00 RM 931 leave swamp for burned plashin, 1000 (640) 1100 (520) 1200 (535) Enter good hard wood. Table & Birch 1400 (\$20) plat 1600 (520) Clat 530 PM 1700 Enter bound slasting. 1927 stripe lin 25 2 of BM 62159 No 2 reade 520 at 5:40 RM.

30, June 20/191 s. 3/ R. 3/ T. 45 (570) 

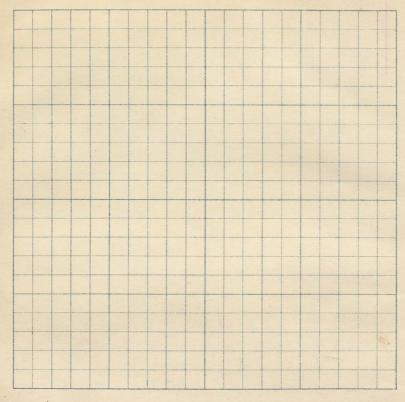
June 20 1891 Rom My line By South of 31 Sec 31 T45 R31 BM, 50111 Let 2000 with 27.69 gt 7:25 AM. Cor. In thick swampe var 20%. 200 N (525) Dry cedar muniche 1 236 W 1000 From huge grainte 1015 Box, about 100 paces long trending NW & S. E very prominent greaty vein There are what look like large N236 W 1080 included as though the granite coming who through this Count get good specmen for my 234 Jan 20 & 9:05 AM N236 W 980 Same grande in a low only crop lould who get species. N282 W 890 Same granite in high rounded bor about 50 pacer 1/20 X 2 and 15 24W, Could get no specimen. 400 (540) awant van 226. 9:30 A.M. \$76 enter green spruce swamp, swamp, 800 (50) manufe. Var 3° & 10:05 AM,

32

S.

T.

R.



1400 (670) Ender green hardwood Maple & Birch 1800 Ruter brued landwood and più slashing 1600 (600) 1200 Van 3/2°E 10:30 A.M. 1440 Pute swamp Cedar. 1800 676) Rwamp. 1854 strike line 14 2 of 4 port at 10:40 A.M. swamp. (580) 67 have

34 June 20 1891 Rm S.30 ...R.37 T. 462 )(614) (S) S 690) (590) 101 

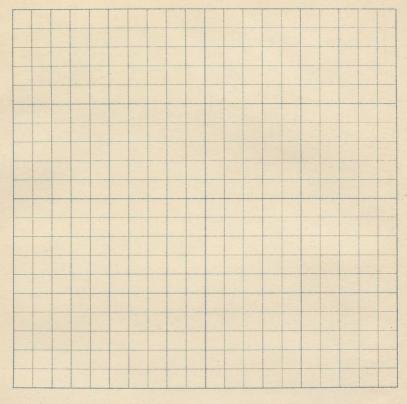
Ime 20/891 Rue / line By South of 35 Sec 30 T45 R31 14 port (470) in swant, 10:40 AM 67 N leave pwant for Hardwood and 1200 (690) 400 (500) Var 45°E. 11:05 AM 600 (90) Handwood & prin -671 anti open tamarack prompe 800 (585) in swant 853 leave swantfor Hardword & few good prin 915 (605) top of me from swamp. 1208 (615) 1366 Var 508 1650 (600) falls 1694 (585) lula 1912 live in swant 26 paces W of con. BM, 542,58 11 No 2 reads (590) at 12:10 PM. Just 201 leave point N 1994 W 257 Drawite with a showing of greinic character. Where the li croses the ledge no minie structure can be seen but a few pace south it appears as in specimen further anoth N1988 W 255 Granite guin. Ob

36

S.

T.

R.



this point the foliation is quite district and its dip and strike are Strike N25W Dil N2.600 Can get no good specimen nor can I uncome well the out crop without my ham. 353 western boundry of outerof 1017 and 1018

38 June 20 1891 Ran W/ lin By Naf S. 30 T. 45 R. R.31 MY N25 W (550) (560) 546 (500) (600)

June 20 1891 Rmi W/ line of g Not 39 Set 500 with 28.20 at 1:30 PM. 100 S outer burned track to Waf line 200 (560), plat. Hardwood & pine burned to west of line. 282 Puter alder oward (550) 371 leave swamp for burned hembock and cedar. 400 (555) 500 Beaver meadow to west of line 600 (50) 2:05 PM. 1400 N 1470W Shein. Strike of feliation N 25 W Dif 600 N.S. Small outers 18 pacer long NW 32 by & proad. \$50 (560) Since 400 we have you over rocke just beneath surface and pivante growth over them. flat. 1000 560) 1000 antes this Hardwood with few good pie 1123 (560) falls 2:50 PM 1160 (550) swamp, 1190 leave mange 1200 (550) 1382 1545) creek 1 pace 52 1400 lenter burned sine & cedar. 1600 (550) good pine slightly burned. 1759 line 18 E of port. (500) at 330 AM

40 June 20, 1891 Rundo & line By Wreth of T. 46 R. 37 s. 3 - X Y - X X

June 20, 1491: Run Bly line Bg Not 41 ( post 550) 3:30 P.M. Burned pine and hardwood, 50 s entir barred pine slashing. 193 var 9° E (?) Right by compan. Entir swamp (540) It's leave swamp for hardwood, 400 (560) 500 (570) Van 70 2. 4:00 PM. 600 (555) 700 swant entard cedan for swamp Cedar. (550) 1000 (555) island of pine stasting Van, 7/2° E. 4:30 P.M. 1200 Cedar swamp 1400 swampe 1600 Cedar Swamp (530) 1750 line. 95 2 of B.M. 504,12 No 2 reads (530) at (5:10 PM.) June 20 1891 Sent in specimens 42 June 22/191 Run & line By South of R. 32 s.36 XX-XX-XX-XX (507)

June 22, 1891. Run 2 line By South of 43 800 (610) (higher Good hardwood 4 a few pine 800 AM (000 (510) From 4 State pine is out on earl side 1050 ran from blazed line 100. 8 1060 Entradament 1200 (495) swamp, 8:30 kM. 18 44 Strike line 62 Wal corner at 9:15 AM Very wet and running very hard, no pun

44 June 22,1891 Rim 2 line S. 25 T. 45 5 By South of R.32

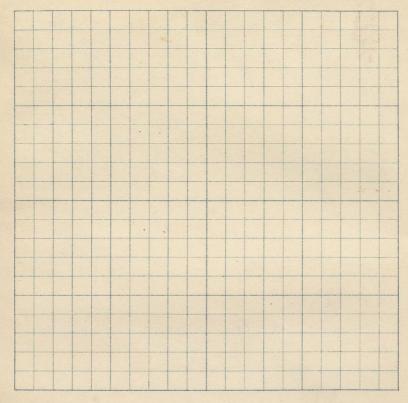
June 22, H91 Run Eline Bg South of 45 Corner in Cedar swanch 9:15 AM. 163 N leave swamp for Hardwood with a cattering good pine white (600) Hardwood and pine. No pine 800 (510) flat 11 9:48 AM. (495) Audwood Bearn meadow Var 408 frm. (490) leave meadow to alder aways 1220 leave alder owner for good Hardwood 1020 N 1328 W 6 Gramite exposed in a double ledge the parts of which are deparated by N/330 W 6 a schistore rock (02) Whom foliation strikes in a NW and 52 direction and diff at a high ande as much as 600 at least, Cannot get a compass determina of either. Out crop quite low N 13 55 W X 7 Low outer of same granite as 1020 but cannot find 1400 (485) /11/DAM. 1500 anter smiled proams

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S.

T.

R.



1600 (470) awareh : 1700 leave sweet 1800 (490) Good Hardwood with scattering white più. 1710 line ap pol BM 554.9'5 No 2 reads (475) at 11:30 AM. West 200 (470) Center spruce several 484 /4 stake (470) BM 561.16 571 Var. 80 g

48 June 22, 1891 Run & & line of North of S.25 R.32 T. 45 x-x-(70) 

June 22, 1891 Run E/ line By North of 49 Le 25T45R32 BM561.16 300 leave swamp for good pine and hemboels. 400 (670) 479 (465) 12:26 PM 479 (\$65) 1250 RM, 571 Van 802 800 1175 leave swamp for Hardwood + good pine.
1200 (550) 1:25 P.M. (550) Plate Var, 6°E. hardwood agood pie 1877 line at port at 12:00 P.M. Post in pwarms

1-10 50 June 22, 1891 Run 2 / line the North of S. 36 T. 45 R. 32. (30) (536) 1 (345 528 XX-XX-XX-XX-XX-XX-XX 

51 1/4 port in awarmy (640) at 2:00 PM, Var 90 E 200 St Swamp. 362 leave swamp, for Hardwood 1022 1630 N 273 W, From the abroph eastern slope of a granite hill about 30 feet high. The line crones the S. Eastern end of the outer of at 2905 of comer. Trend of hill NW + S. 2, 400 (536) 2,50 P.M. 600 (530) Enter swamp mixed 670 Leave swamp for pardivoad himlock 800 (545) Mixed wood, 1000 (550) Hardwood, flat Var 908 320 PM 1400 swamp, 1600 pwant 1805 line 63 Wal B.M. 513.03 NO, W, 760 From about caster plope of hill about 40 feet high Cannot get a good precine estate Hill trends NW + 52

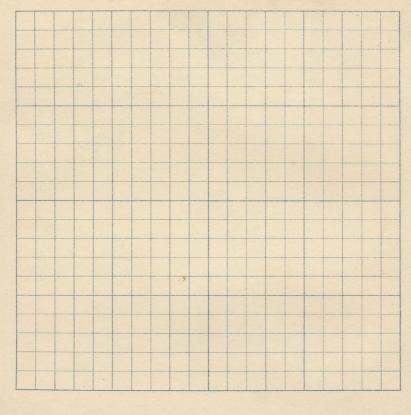
52 June 23 1791 Run 14 line By South of R.32 S. 36 T. 45 Beares Hand (740) 5/3 (634 W20W. 50PSW 650 (640) 435

53 fee 35 T 45 R 32 BM. 439.00 fet 600 with 28,39 at 7:35 A.M. & Con in swamp cedar var 6.5 200 (630) Something wing. I had a had fall from a log a few minutes ago. Think Saturck partly on 1102, Leave award for Hardwood Maple + Buick and rather Lew good kine, 800 AM, 400 (640) Var 3 /2° E 8 600 (660) 656 var 2°E 8:35 AM 800 Creek W: 1 poor 830 N 980 W from western side of a 1023 large semicicular hill almost wholle bare about 25 feet high 1023 is from South hom. Strike of foliation 120W Dich 80° S.W. There are what peem to be inclusion of granite blocks lested lated what the stands shows it is simply quark or mod. Carbo it come a 11 n 12 frot hed \$30 N 987 W a be I some 10 fet thick at its goes with

S.

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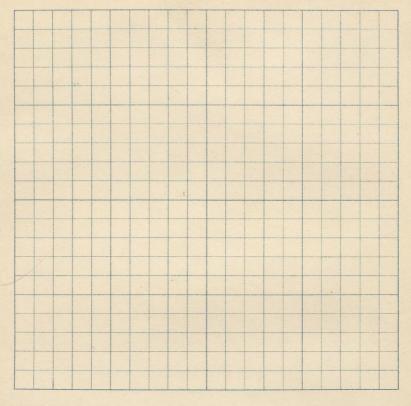
55 830 N 969 W. a partly weathered 1/025 surface was purposely chosen here, 830 N. 964 W a very much crumpled 1026 coarse gramitoid quelis including great block and streats of schick It is especially crumpled about there lange blocker whose foliation seems to trend generally parallel to 1025 and 1024. Same Acation as 1026 is one of them 1027 inclusions. I can see a surface of it about 4 by 2 1/2 feet. Part of this corner the mani ridge truding NW + SE N835 955 W The Hill seine made up Web fort com. a gravite from the sumit of this port 1029 20 W 9 45 East of the pump of the ridge Hound N830 W 935 9 homblende wick affrearantly a dyke with an east and west trend The Hill it self is quit when to once cut across the bedge mus in sight for over 500 pass

56

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R.



at 106+ (360) 1025 AM the line drower the punish of the hill. There is more in sight than I can possible work up and find run. I am not able from my fall neither to have out good and nor vary much of a load 1000 anter grew hard word a pri 1061 Var 202 1200 (246) 1347 (730) trent 18:55 the 1400 rise from alder bottom at cuele 1600 (768) Lalle rapidly to worth Vargo 2 1800 (745) 1910 line 10 2 of 4/poil 14 pmh (780) 11:20 AM.

58 June 23, 1891 Run 4 line By South of R. 32 R. 32 521 他 080

June 23, 1891 Run /4 line Bg South of 59 Acc 26 T45 R32 14 port (780) 11:20 AM, Var 26 2. Hardronds prin 200 N. (70) 400 (790) Var 50 E. 11,35 AM. 5 40 (800) falls to worth 600 080) var 422. for 1951 945 Enter awarmy (96) spruce 12M. 1033 1600 swant par 6° E 1740 (840) enter open awante 1900 leave swamp, line 18 Wat con B.M. 59791 No2 (870). at/2450 of 200 setting at 639 meters of 439 This would make the close (670) with 598 I shall interpolate on this supposition. Pine on this mile scattering, hardwood good and thick

60 June 23 1791 Run W/ to line Aly North my S. 26 T. 45 R. 32 (45) XXX (630) (6/5) 604 (6/5) -(410) (410) -(3-95) -678)

June 23/891 Run W/2 line 13 g Warth of 61 Act 600 with 28:09 at 2:00 PM. each side of it which ought to show anterop but I can find only very quartyon broulders of granuit 93 South (630) Sunit Var 608. 200 (645) 400 (630) Hardwood with scattering bat good pine, white Var 502 230 PM. 600 (615) 614 var 702. 700 (695) Balson, Brich, Poplar, chery, pine, etc, etc. 1000 (6,15) Balsan, handwood and afer good pine 3:00 P.M. 1070 van 6°E. 1200 (610) Hardwood with a few pine 1400 (610) flat. 1530 Var 80 8. 1600 (410) 3:30 RM. flat (800 (595) van 63/4 2 1876 line 30 2 of 19 port at 350 PM

June 23, 1891 Run W & line By to Past in good Hardwood with a few good Pin (586) 4:00 P.M. 200 South (600) Kar 602 400 (600) PatHoles. 438 Var 602 600 (580) 626 (690) lot of ridge 626 Var 5402, 731 (560) foot of ridge heave green hardwood for old burned slashing. 800(568) Burned woods, old, 4:30 PM. 767 (645) falls to south 924 small chele S.W. (510) 1000 (518) 1200 (480) wind gall + burned. flat 4:55 PM 1376 Cente Beaver meadow, (466) 1617 leave meadon to bound undfall 1800 (488) leave burned for gram words 1954 line 30 was 19M, 443,32. NO 2 reads (470) of 5:35 KM Con in good hardwood and scattering king

64 June 24,1791 Run 2 live By South of S. 33 T. 45 R. 32 T. 587 571 5.71 1 (375) 561 546 496

June 24, 1891 Run & line Bg South of 65 Sec 33 T45 R 32 BN. 466.70 Let 400 with 2840 at 715 A.M. 400 (475) Clar Hardwood, trappen. Jak 7:50 AM Harlword very few pine considerable banword on the mile

1-27

June 24, 1891 Rim Eline By South of 67 Con in Hard word with Barroard and very few pines 200 N (590) Pine cut out on week, blat 400 (610) (?) Thunder shower she do not think Var 30 & 8150 AM. 200 (590) Var 40 E 1000 695) flat 1400 (10) flat 920 AM. 1600 (600) 1620 Var 402. No 2 (600) At 9:40 AM good wite pine. No outling north of ystale 440 lowe swant 465 recenter sevant

68 June 124/1891 Rum & & line Bg. North of S. 28 T. 45 R. 32 595 (610) / post 11

June 24/591, Run E / line Ag North a 69 Sec 28 745 R32 BM. 577011 Leb 700 with 2796 ab 10:15 A.M. & port in sprince swamp. var. 40 E. 39'S rise from swant to hardwood 70 (600) top of rice 200 (590) 252 Var, 2°2, 400 (610) 600 (610) flat. 1400 (610) flat. Var 208 17/0 line 62 w of 18 port at 11:20 AM. Sord Handwood pine cut out flat (6/0)

June 24/891 Run 2/8 line By North 71 Apol in good hardwood (610) 1120 AM. Hat 200 South (610) flat. 400 (600) 660 (600) plat. Balsam + cedar from 500 11:50AM. 800 (690) Cedar + scribby hardwood 844 Var 508 good hard wood 1350 (5\$0) 1400 (545) var \$ 120 P.M. 16 13 (520) small creek & 12:35 PM. 1973 line 30 @ of 4 port 1811, 49122 No2 reads (530) at 1.40 P.M.

June 25/891 Run 1/4 line By Louth of 73 422 leave swamp for hardwood

June 25 1891 Run Voline By South 75 Lec. 28 J45 R32 400 (570) Hat, Var3°E. 1000 (390) Good pure, from 950 thick 1200 (690) hlab 1105 AM. var 502.

June 25,1891 Run W & line & Se Noutro 77 2008 (590) 500 (590) Enter proceed alder botts 1000 (600) an occassional pine along the line 1500 (610) flat var 6 3° 2 1810 line 50 2 of 4 book al 600) at 1,50 RM.

Run W& line By Narch at T. 46 R. 82 78 June 25/89/ 5.38 (605) 1990 63 /550

June 25 1791 Run W/ line Bg North of 79 Lec 33 T 45 R 32 18 pool in good hardword no pin 605 at 1:50 RM. 200 South (610) var 602. 1883

80 June 26, 1891 Run Kylin By South of R. 32 550 (5/5) (545) (5-45) (5/5) (545)

June 26, 1891 Run & line By South of 81 Let 200 with 28:32 at 7:00 AM. Van 128 400 (545) flat. par 4° E 600 (540) Het Pine is more or less borned fell along the lin 1893 line 94 & of 4 pot 550 at 9:10 AM. Lood proportion of fair pine all the way. all will

82 Jul 26, 1891 Ruse & live By Southor T. 45 R. 32 - x - x - x - x - x - x x-x-x-x-x -X+x-x-x-x--XX-XX-XX-XX--x--x--x--xx \x--xx--xx--xy---xx-xx-xx-xx-xx ->x-xx-xx-xx + 2x-1x-xx-x -xx - xx - xx - x xx - xx - x - x - x - (50)

June 26, 1891 Run 1/4 line By South of 83 Lec 30 T46 R, 32 .483 Unter spruce swamp (550) 600 and 700 9:40 in swant This swant proved to be a had cod as swant with just venuesing 1000 line 69 2 of 18 102 h. 13M. 586.87 1031 N 1995 W 1338 Imartite from with end of hill with a NW, and

84 June 26/89/ Run Wishin Bg North -S. 30 T. 45 R. 32

June 26, 1891. Run W Ky line Bg Noute of 85 1/4 lest in hardwood and hemlock, fair var 2° 2, 200 South (585) 1032 N 1780 W 1500 From small out crop 660 at 1:00 PM. 460 leave swamp for old burning var 208 1033 N/400 W 15/0 from the western N 1440 W 1560 another hell and 960 (580) Einte Beaver meadow Var 208 1895 Cron aling gist creek Beaver dam Early 2:10 P.M. Van 22°2. 1300 enter barned speen spice 1750 leave swamp or hardwood 1800 (580) 230 AM.

-9-7 86 June 2 6 19 1 Run W/ Lin By North of S. 3/ T. 75 R. 3 R.32 (585) (575) 559 (86) (575) (25) (570) 532

June 26/891, Run W/ line Bg North 817 200 South (585) flat Which small growth. 800 (575) awampy botton 3:05 PM, Var 208 1000 (635) flat. From 608 good thick white pine somewhat 1200 Orta alder bottom (500) but it it burned. 1600 (575) Burned as before, 380PM 1877 line of BM. 536,82 On in old burning flat with Pot foles

88 June 27, 1891 Run & line By South of R.33 S.36 T.45 XX-XXX-XX (580)

June 27, 1891. Run Eline By South of 89 Lec 36 T45R33, BM. 421.12 let 200 wit 28.73 at 7.25 AM Comes in thick adder swamp, leave it at 10 N (545) streak of swant to E. (660) less burned some good who pine 780 (688) 7:55 A.M. Barging down 184 1893 W 5 From large out crop trending N.W. + SE, Can un core only 1000 (5°90) From 800 good sine with herdwood not 1-800 (590) 1960 Cop port (595) 8:55 AM.

90 June 27, 1491 Run E line By South of S.25 T. 45 R. 32 11040 1650 1038 (640)1035 1036 111

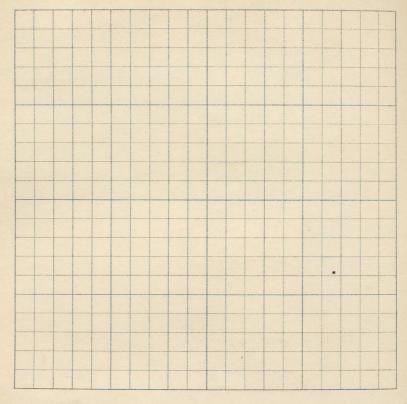
June 27, 1891 Rim Eline By South a 91 prine. (640) ab 10: 10 AM. ofter work ah outcoop. 1035 N.O. N 1900 in Sec 30145 R 32 From North plope of long hill trending nearly 2 and W. Quartite very hard Westward it changes somewhat to N2995 W 1985 Sec 31745 R32 1036 From western end of this hill. The shots weather out leaving the rock with an amygdaloidal look. Van at Comer. 102, 1 200 N (650) good hardwood and N 235 W.O. Seemingly an any gdaloid 1/37 trending mearly & and W. Whole hill seems N 336 W 0 From where his cromes 336 (660) 1045AM 400 (665) 1039 N684 W o From symit of large hill to too (645) foot of hill

92

S.

T.

R.



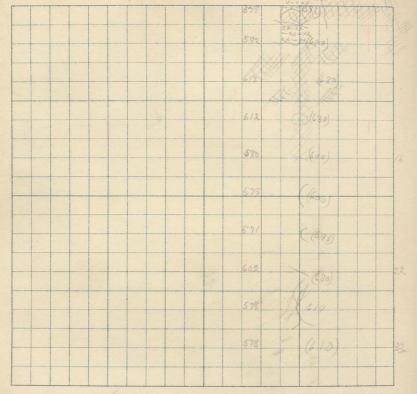
184

104

S.25

T. 45

R.3.8

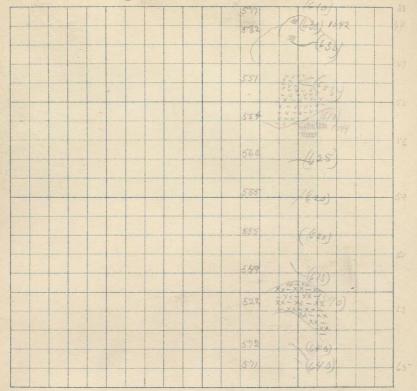


June 27, 1891 Rim E / Line By Not 95 Lec 25 T45R 33. BM. 58273 Let 800 west 27,89 at 3:00 PM. Cor in alder swant. 25 South go anto low spur of the smot of No patte leave to cedar swamp at &

S. 36

T. 45

R.33



June 27,191 Run & fline By 1/1923 W 500 From punit of large Knob hending mearly & & West Seems from the way it weathers to be a 87 (636) sumbof kuch 5:00 P.M. 1844

268 W. + 74s. : 52 N 222 W live fin Dan. 971 Sums 760 1025AM. 1061 Var 20

