

## Township 43 north, ranges 30, 31, and 32 west, specimens 31717-31781. No. 276 Oct 27 - Nov 14, 1891

Brooks, A. H.

[s.l.]: [s.n.], Oct 27 - Nov 14, 1891

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LAKE SUPERIOR SURVEY

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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 topographi-

cal 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.

Geology. - In running the north and south lines, the compassman will aif possible, determine the course by the dial compass. At the time the geologist reads his aneroid, the compassman will determine the magnetic variation, which will be given to the geologist and recorded in the note-book. Each morning the watch of the compassman will be set to apparent time (corrections being made for the equation of time and for longitude), so that he will need to make no correction in reading magnetic variation. On cloudy days, and at times when the sun is too low for the use of the dial compass, the course run will be by needle upon the supposition that the magnetic variations indicated on the township plats are right when corrected by deducting 3° if the variation is east, or by adding the same amount if the variation is

Not less than once per week the accuracy of the watch of the geologist in charge of a party (who will give time each morning to the compassmen), will be tested. This may be done, first, by obtaining correct time from a railway station by means of a packer when sent out for provisions. Such time will be mean, i. e., watch time for the nintieth meridian. Second, corrected time may be found by blazing out a north and south section line, preferably a range line, for some distance, setting a signal on the line and placing the dial compass duly leveled, in a north and south direction upon a Jacob's-staff just before mid-day, and setting the watch at 12 at the time the line strikes the noon hour.

In a watch thus set all corrections are made.

It will be the constant business of the geologist to search for outcrops. All hills within a reasonable distance of the course of travel will be examined. Oftentimes upon the steeper slopes of a hill a rock surface is covered with a coating a few inches thick of moss, leaves or vegetable mold and can be stripped with the pick. Where the exposure is small and there is the least possibility that it may be a large bowlder, indicate this fact in the notes and by a query on the map. All ledges off the line of travel of the compassman will be located by the geologist pacing to this line in an east and west direction.

his course being determined by compass.

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 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, having strike line and dip arrow with numbers attached. 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 specimens representing it. 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, No. 437, 1226, N., 353 W., Strike, N. 47° E., Dip. 68° S. E.

Then follow with as full a description of the ledge as possible.

Collect a specimen from every ledge, and if the ledge exposes different kinds of rock, collect a specimen of all varieties. Take care to get fresh material, unless for a special purpose the weathered surface is desired. Where ledges are infrequent the normal size of specimens will be 3x4x1 inch. In case several specimens of the same ledge are necessary, and when ledges are numerous, specimens 2x2½x¾ inch will be allowed. In all cases collect chips for slicing. No two specimens will be given the same number. In the cases in which several specimens come from the same ledge, the different numbers assigned to them will enable an easy description of their relations. Specimens will be placed at once in paper bags provided, upon which shall be marked in at least two places, with a blue or red pencil, the specimen number.

## TOPOGRAPHICAL SIGNS

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* * * * * * * * * * * * * * * * * * *	MARSH	RIVER	NO STRUCTURE	
¥55°5.			CONDARY STRUCTURE.	

## 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		
	Subt	tract from	n watch	time.			
17-21				27-31	3		
JULY.							
Subtract from watch time.							
1-6	4	7-13	5	14-31	6		
		AUGU	JST.				
	Subt	ract from	n watch	time.			
1-7		8-13			4		
19-23		24-26		The state of the s	ī		
30-31	0			2. 20	-1-		
20 47	~						

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Buga moth pr. no. 1717.

DIDI TIMEDIA.							
		Add to watch time.					
1-2	0	3-5 1 6-8	2				
9-11	3	12-14 4 15-17					
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					
23-31	16		10				
NOVEMBER.							
Add to watch time.							
1-13	16	14-19 15 20-23	14				
24-26	13	27-29 12 30	11				

1 splays of work ofm 1 No 9 A. H. Broks. "Geologist. Ira B. Weller Compass man The country maplel is mulucled between the toolin line 43, 44 of the section Ime thos miles S. And Activer An Romge line 29, 30 V Dange In 32, 33. Anniel & S.S. Dial rompars. Grarley. DEECIMENO! 1717-1781 JOHNU ; 43-30 43-31 43-32

12 T. 43 Cedaz Sugno mexall Tembor Many of the B. M. on the bunch line telween thurs 43, + 44, were either mit marked at all, bunt up, or rendered in chisting mishable As was not famished with a list of, 1, B.m. it was impossible for me later inter = whate according to unde In some cary I have not ofme it at ale, in other I home here I my inclosement in gutting down wereted devations

1/4 Im Set 12, 43, 30, beginning at 5/4 post of remming N. 18-13 AM AM332.7 Animy set 2937 = 0 O. Myed timber V1/2 Z Ome has been ent 1000 (325) 8.50 AM. 2010, Struck section line I / most. £900 9 JUAM W 16 Th Sect 12, 43, 3v, beginning at SIN 1/s. the host of running S o mixed timber (200) 21/25 1 m 12.30 R.M. 2032 Stuck Section line Typa us E /5 th B. m 344.85. Anund 360.

4 R. 30 T. 43 S. (08) A 1091 Callagar (300) (AS) 2300 (05 Q 086 01E) 010 (270) (2(3) Myred (20) (500) 150 and sho Prince 014 Pine 280 6 680 cedar swanies (280) MexedTenbox (088) 90 B.m 11

Judin Set 1, 43, 30, beginning at & Le post Tunning N. o. Med timber Csot U1/2 of mit mit Jove (293) Pin has brunted. 9:35 AM 1990. Struck Searnber man line of 1/3 perso G. S.S. bench line mortly burnt up. (310) 10.30 AM W/s A. Set 1, 43, 3v, beginning at N. W 18th post of manning 5. 10.50. B. M. 311.93? 6 V. Cedar swamp, V. 1'h'E 100 11.20 AM. 2 vos Struck section line + 1/3 the post

6 R. 30 S. T. 43 11 Tom or och (00) 5205/220 (3/0) 340 Myred Swamp. Pme 5/2 s/2 ma Harehverd mixed hor 3 Bme (81) (no 17 08 2 Femler SWYNIP (0) 098 The the topographer. Where ever the typography does not agree with the corrected elevations marked I should a choise him to follow The shetiching o not the elevations determined by everesor 4.

E Ine Set 11, 43, 30; beginning at S. E come of running N 7.75 AM B.M 351, 35 Anin d sit 29.17 = 0. o mysed timber V//2 I 2010 Struck section line of come ground OAM. (330) E/2 1 Set 11, 43, 30, beginning at At 15th. grost o running 5. 11.16 AM. O. Jamas ach swarings to 1/2 of Boot 1000 adar swarmy (20) 11.30 All . 2014. Stoneth section I'm 21 graces & BM 363,28 12.20 07 m. Animal 370 -

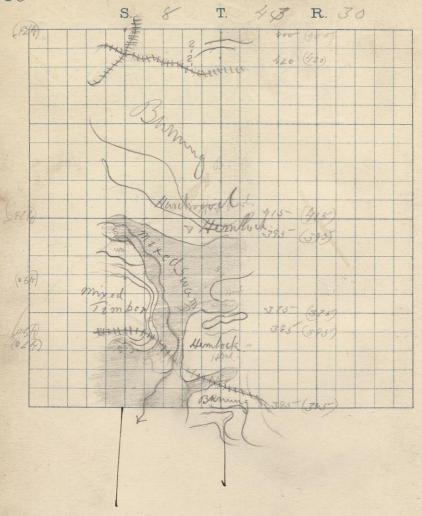
I Im Set 2, 43, 3d freginning of St come post & running N. 9. AM. 0. James at + Spince (350) 21/2 15 \$50. Pine + Valsen Considerable White & now ony him qual 1000 9.25 AM (345) BM. 227.64 Anewil 337. or E Joth Set 2, 43, 30 legming at N. I'm 10.15 AM. good of hunning S, B. M. & & 9. 25 Annd nt - 29.17 = 0 6. Tamarach swamp. 21/2. [ 332) Sur Pome slashing 1000 10.50 AM. 1380 2008. Thuch of these 1/8 A. Jourt 11.16 Am.

1/2 Im Set 10, 43, 30 beginning at 5 /4 gmt & running N. 11.250. M B. M. J15, 30t Animal set 29.03=0 o. Cedar swary, (313) 2.1/2°2= 175 Pine 5 Calsain + hemboth Pme Mich but rather goor grality. 600 Fine grove Remboth 1000 1.50 0.11. 3.35 0.111 1020 actar swamp. 2012 Struck section line o gows Wy / / grow 2.26 0 201 (323) W/3 Th Set 10, 43, 30 legmming at N. W 1/5 th Just + non ming 5. . . J. 18 0 m Goold hind m 15th just Determ and it. approte matela o Tomas och swarmy V/2 = (20) 900 June Bembrich + ple 1000 . 3. 10/2 m 15 or Hondwood + pme 2021 Strucky Section line B.M 330.63 Anemid 335. 3.33- Pm

1/4 Sim Set. 3 +3, 30, beginning at. N / gost o run my S 11, 15 Am BM 331, 31 6 8. Animal set 28.93 = 0. O, Tamarach swamps. VIZE 1000 11, 43 AM. (3 33) 2012. Struck section line 22 pa as Wof /4 post (340) 12.13-0 m. W/str. Set. 3, 33, 30, beginning at S. W/ATT port + running N. 12.25-07m O. Tamarach swam 9: 21/2 = (565) Low Cedar swamp. 1000 (3.60) 1.0 M. 2015 The of section line ABin 38/37.6%. America 370 -

E Im Sect 9, 2 3, 30, beginning at S. E comer + rinning W. B. M. 325. 68. Aneshil set - 2884 = 0 O. Cedar swarmys. 21/201 \$50 Herefor ch from & rectar 1000. 9.10 AM. Hardwood of mine 1700 Slashing Los of Strucky setting line or comin grost. (2837 9,437AM, E 18 th Se A. 2, 43, 30, beginning at-N.E 16 A. mut + niming S. B. W. A.M. 6. Tam mach swarmy. 201/2 I Chang 1000 3.40 P.M. Fine sime 1988. Struck section of Joth Lort B.M. 320.81. Animal 425.

I Im Set, 4, 43, 30 beginning at S. F come post of running N. 9. 45AM O. LEST Cedar swary, V/1/27 030. Slashing 500. Tamer a of swamp. 1000 11,38 HM- 1380 Bornin 2012 Then In section line + comp growt. Bm. 3823? Annual 365. 11. Am E 18th Let 4, 43, 30, beginning at N.E 1/8 th port 12/ + mn mng S. J. 15 P. M. B M. + stake burnt Holevation by arrend (20) o. March & 1/2 2 (330) Pin very Much 1000 2.43 BM. 1950. The che section 22 pares Wof 181 the great 3.13777



08.396, 14 Im Set, 8, 43, 30, beginning at. 5 /4 port of running V. 08.15 AM B. M 395 15 Animal set 28.74=0 a Burning V 20% 1000 8 345 AM. Hardwood & Junioch 9.20 AM W /8 th Set. 8, 43, 30, begin my at N. W/s to growt o mining 5. 11.30 Am 0. Burning 8-20 1/475) 2016 Struck section line + 10th grost B.M 374.04 sound 470 12 350011.

1/2 Line Set, 5, 43, 30, beginning at S 1/4 grost & running N. 6. Burning Geor 220E Ser Hardwood , poor 2.45 AM. I of thuch sethin line & paris I of 1/3 post. Bm 38/91.07 10,20AM. Anemiel 410. W's to Set. 5, 43, 30, beginning at NW Yoth great & romany S. 10. 40 AM. Mr. B. M. Speried (420) 8. Tamarach swamp 225 : 60 Which timber 1000 800 10.05AM 2003 Struck section + 18th port. 11.40 AM (4737)

0 7 316 I I'm Sect 1, 43, 30, beginning at. SE corner & running N 8. SaAm. B.M. 423. 05. Awnid set 28.56 = 0 0. Hardwood V 2 of Your Swamp. 220 AM. 1989 Struck section line of corner growt. 9 JoAM .. (380%. E 16 M Sect. 7 48 To bymning at S.L corner & rungen, N. 18. AM. 0. Payer ming 22 4 39ct Low Mired Drawys 1000 \$ 90) 11, 25 AM you Hardword + flassem, dory Stuck to to port BM 393, 34 11.33 AM America 390.

E Im Sect 6, 73, 30 legmans at. S. L. comer post & sun ding N. Ellestin o. Tomas och Brungs 2. 20 ( 390) Invivolm-1970 Struck section line of comer front B.M. 399 85-Aneros of 370 E 18 A Set 6, \$3, 30, beginning at N. L /st Aust vinning 5 16.23 Am B. M. 1398.54 Animal set 98 8 = 0 O. Tamarach, swamp. 227 1000 10. 43-AM. 1990 Atm of section lime + 18 th good 11.14119

/4 Im Sut 12, 3 3 31, be gramme at & /4 port B. M. 12, 15. Animal sit. 28.18 = 0. o Hardwood 230 1 wo 6,30 AM . 1994 Struck section line 15 pares W of 1/4 point 9,33 (350) N 1/8 A Set 12, 43, 3/ beginning at N. W & A. Just o running 5 . 12. 05 0 m d. Famorache Sweeneys. D. 32 100 (425) 12.46 P. 877 .. 2006 Stuch Section line That has he fit than 13 M. 424. 20 - 1.05 pm Anund \$23

1/4 In Set. 1, 43, 31, beginning at 5. 1/4 port of summing N. of Cedar swelver 21/2 of 350 1000 10. 13- (340) 1450 Bur mine soor that section Im y /4 mot am 392 7/ Sund 335 -W 16 th. Set 1, 43, 31, beginning at N. W 1/8 th. nort o hun anny 8. 0 11. 65 Am. Bim, 387.69". Anund of set 29. 18 = 0 0. Burning 2-2/2 1 100 11/40 Am (4)0 2 m. Stench dection line & old is to port Is S. Aust two for north.

L Im Set. 11, 4 5, 51, highway at & Looming A. 8. 3 o Am

1. My 15 1. 75 Amound set. 29. 45 Fellen

0. Hardwood 2-37 12 Boo 21 2E

cov Mind Timber. 1000 9.15 AM (650)

22 9, 75 1800 2 2/202

2008 Struck sether line & corner port

(580)

£ /6/th Sect 11,4331, beginning at N.L.

18th part & running 5: 12.50 P.M.

6. Cedar swanys & 25 2-2365 I.

25 mixed thinter

1000 P.M.

2000 Stuck section line + /5th point

B.M. 461.66

Americk 500. — S. P. M.

I I'm Set 2, 43, 31, beginning at S. L. comer port & monning N ft. 05 AM a Hemloch grove (380) 82/27 200 Max ell timber 1000 10.40 AM 8 83, 1000 7 30 1500 Pm slashing note second growth 2080 Struck sethin line of comer fort 11.20Am B. M. 386. H Aneroid 405. £ 1/8 1 Sect, 2, 33, 31, beginning et. N.E 18 to gost o mining S. 1130 AM B.M. 423.07 Andrid set 28.43=0 O. Horder of herrhook. Jun. (10) 12.03-PM 237 2042 Show the section line If paus L of 18th pin 12.500 M.

Mov. 3/4, 35 142m Set 10, 43, 31, beginning at 5 /2 port o min ming N. 2. 45 Apm. B. M 434.85 Anerdi 129.38=0 O. Hardwood 26. F 300 252. gov 194 100 1020 AM 247 www Antock end on & fals own. 1285-25-30E 2080. Struck section line & /4 port 11.03-I M.B. The bench line is about severy paces Anfor S. This we proved by finding old ong male W /3th Set. 10, 43, 31 beginning at N. W 18th fort o umming 3 1.51 P.111 O. Maid gun A. 423) 200 V 31/2 E 350 V3 K SW V 31/2 P 700 841/4° E 86 V 3.5 100 2.30 PM 1070 25/2 833 VSJE Tov Hardwood 2028 Struck section line B M. 419.75 Amerial. 450 3.15-P.M.

36 T. 43 R. 3/ morsh The Bedra (marida certorsw (000) 300 ber (340) 380 3 Mix

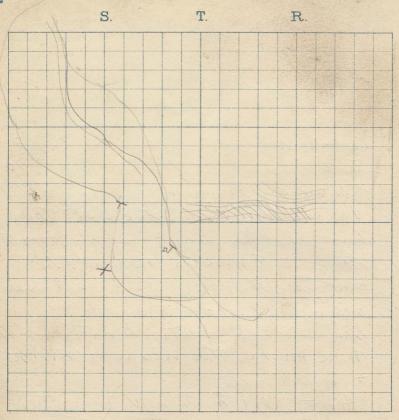
16 In Set 3, 43, 31, beginning at I 1/2 most o um ning No. 11.610 1 Cedas Swampel: 380) 8/1/2 415 mind Timber 727 1000 11.50 AM V21/2 E 1300 23/25 1630 21307 sors - Struck stolion lim or /3/ port. B.m. 415.19. 12.1300 Anem et 3 95. 23/2015 On bench line thattares 10 WW KAT Wan 39 E W/st set 3, 43, 3/ beginning at N. W 43 the post of running S. (12. 30 P.m. B.M. 420.04. Sherrid set 29:27 = 0 O. Hardwood V. 31/2 " I In Tamara In many V. 3 7 15 Too V 21/2 F Too Mixed Minter 900 V/1/2 100 1.20 MB 235 168181/2E 1110010E 1517. 200 1994 Storch section line 1.50 gm

38 R. 3/ T. 43 S. mond swam 420 (420) mixed grow. 12 17 -884 082) -974 415-(415) 390 400 (400) mored & (OHO) 988

I Im Set 8 43, 3/ Reginning at S. E Come gost & run ming N. ( 8.35-B. M. 387.49. Anythol set 28.7=0 O. Gedar Snowy V. 102 350 250E 650 miled growth (340) 830 240E 1000 9.15 AM. 1400 2, 30 E 2010 Struck section line + corner most. (420) Oram storm I /sthe sext 9, 43, 31, beginning at N. I 16 th port o mining S. I. 500 M o. Hardwood & hemboth (380) 1728 N. 1140. W 300 Strike + ohp mit Action with Grienton Stri he probably about I + W 100 3.20 P. B. " 0 050 2048 Thuck section line 63 W. of to A por Bm 38633 Arund 340-

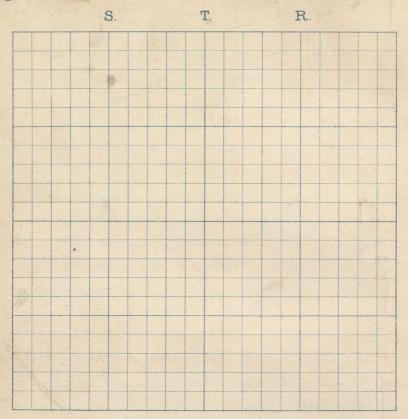
40 1450 Nol THE Camp 9111 No17 4 Kennbuch its the day was clouchy me wald very little with the than aton. The variations taken were from blazed lives. A line of alle action www. Through here somewhere without chart.

E Im Set 4, \$3,31, beginning A. S. E. o. March find , second growth 2 2/2 (00) + 320. V. 13 E By del organals Soo. Hardwood & hembris 300 V 10°E " " 290 N.W. Interior showinge mines 870 N. 150W Schaft 100 A deep Sturch ledge at 20 ft. Sanh Mongh 40 ft No 1717 of sirap mycholocomposite green strong Nort /17 A The Soup suchous about (40) feet Mach. below this they found about from the notice feet of slater & learn bre no 1719 Bilow those works they found good Berremer No1718 DE going 62 parcent with which they had gon about four frest. The captain of the mine makes the Stube about N. 45° I \* dand 45 - 60 ° S. About 1514 to the N.W is another shaft in which the captain Allarms they shoch the are at of ofter an wheat the miles its About 100 th Wo first shaft There is a test pit in which Menfrance a very lean love in



17-

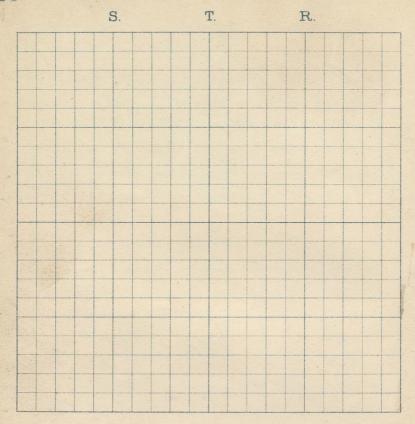
100 11.30 Am. 820E Vto Tomarach swamp. V205 850 1620 Harlwood, 730 26% 2003 Think section line + come just. B.M. 405.94 Amin'l 450. 12.m. Miling am me mountain. This mountain seems to consist of lean one. Then are many outloweds of the same & numerous that polo all of which latter seem to have Journel. I wothing but lean are. The stri he of the Gorman sums The be about N. 15-300 Was This of worse no dy could be Colotern med made and 1720. N. 1950lW. 300. Strike 100-20 E of N. Dijo (2) 1721 Senot of green stone of in contact with it a bean are 901721. 1722 N. 1925 W. 450. Lean are Banded Jarger 1723 N1950 W 350 Lean ore 1723 At The angle which I consell the fourhation it appeared on natus thick. Propally one or more bolds.



Bam storm E 1/6 At Det. 4, 43, 3, beginning at N. E Lot yout I ranging & 1,30 P.M. B. M. 529. 45 - Anomid ret 2872 = 0. o Harchwood 7 20 F. N/100 W500 Strike N. 75°W. Dy 45°5% Lime other (1724) interstratified not a short 1725. Bedding very plain. Very much erampled 860 Handword 1000 2.15 P. 171 1726 N. 740 NSVV Strile E+W. Dy ?! 1757 Simeline 1726 17/1727 also limstone lat more silicious probably grade into each other 2010 Shuch setting line about 50 paces & of to the

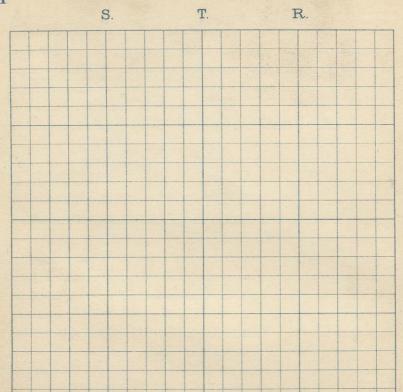
46 N 660 1238 R. 3/ 43 S. T. miged Tumber 360 (360 375-(300) 383 (400) \$10 (935) 044 014 105 (320) (0 99) 044 733 \$80 (480) 450 (150) (D) -854 (D) -824 4,60 (4) 754 E 333- (320 172'

1/4 Im Set. 8, 43, 3/, Agmany at 5/yout o unming N. E. 15-AM. B. M. 423.54. 28.73=0. o. mil tomber 2. 21/2 of 1729. N300 W. 100 Gentral Wir 250 Dys. Dwitie gunstone. Wo bedding distinguished My impression is it chys the the month N. Box Wire Out comp of quentine similar the 1729 1730. N. 660. W. 960 Struthe N. 20° W. Dy (2) Coarse gramed guen otone. 1000 9.30 AM. 2812 Atuch setun line of/4 gent. 10.20 Am.



W 15th Set 8,43, 31 bymning at N. W 1/8 th port + minning & 2.40, pm o. Cedar swamp! VI/2E(390) 30. mild timber 1000 (120) 3.25-P.M. N. 100 Wlow Dwentre Grandone 1.800 W 1300 Shipe N. 6307 Greenstone 1735 N. 550 W NOW Strike E+W Drontic greenstor 2020 Stuck sertin line 20 gares E. of comer B.m. 311.12. Anem y 333. 4.25 P. M. 1736 N. 60. WISOV. Small outeng of Mach state Stripe N. 450 E Dy feliavage 1737 200± The nearest green stone (15/37) 10 30 St The Morth of slate The green stree appears the strike marly E+W

14 Im Set, 3 43, 31, begin my at. 5 14 post of sunming N. 10.20 AM to Alder swarpy. V21/2°E (380) 1000 11.03 AM. 1966, Stirch section And + 14 port B. m 369.51 11.35 AM W/8/ Seit 5, 43, 31, beginning at W/8 yout Janning S. B. M. 383.04 Animal set 28.65 = 0. 0. Burning 2 2/2 L N. 1200 W 1300 Stupe N. 850 W. Fine grand green stone having a some What shisticha arter in some glaces. I believe the they to be 85"-96" N. 100 1.30 (410) 1732 NION W 13000 State E+W Soundtone short Dip of poliation 200 1733 N.870. W HOW Stake N.80-850 W Greenstru shirt Chloritic 2012 Thuch section Com 2.400m.



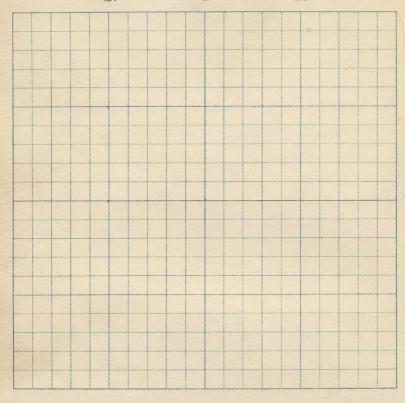
56 R. 3/ (380) (84E) (8E Most of the steep hills throng gh this Ciria Der green sho

57 E Ine Set. 6, \$3,31, beginning at 8. I corner grout of sunning N. Vo. 30 Am o. Delar snamp (370) 23.7 100 mixed timber 1744. N. 150. W. 50. Stube N. 450 F Greenston shirt having an abount slate cleavage. Dy of eleavage don't to 13 18 N. 250 W. 75- Strike N. 45-0 E Greenston same as 1344 except that it is almost massive These thoo so che cappaintly gracele mits each other! 100 11.40 Am. (420) 1746 N 1300 W O Stulm N. 750W. Fine graine I green stone 1737 N 1590. WO. Strike very uncertain to + W. Fine grained green the 1500 Brown A 1885 thing Section Sim & Come for a BM 34732 Aramil 5/3 su ment 1

S.

T.

R.



Between 1750 + 2000 gans I found six or siven lest into mone of the ledge so exposed as test puto have called m. not is it certain that. The ledge warever reached but the onighlar nerves the ruch show that At ledges can but be far chown. The nearest greenstone is about 150 pares to the Sof the first lest gut found Thise patto non angably located 1348 by clift. Mr 1348/is spanmen of learn ou chipped from Engeller bralder near one Man laito! Perce Glean. blue hernatite from test put 1750 Spreisner of rich himatite from lest git 1751 Spr. of Monthe slate from test pit. 1732 Span J. iron bearing slate from Darne Test.

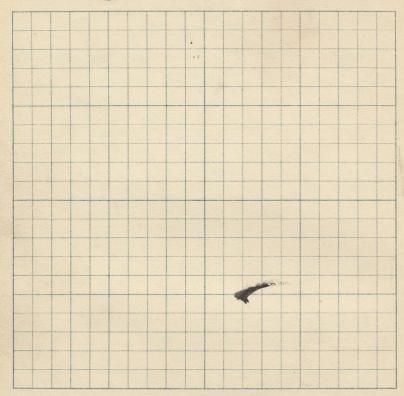
pist as Mo 1751.

See page 62 + 63

S.

T.

R.



1

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1

£ 18th Let. 6. 43, 31, beginning at NE 1/8 th most + mining 5. 01.300? m BM. 346.07 Aburid ut 26.61. =0 6 mich timber 237 1753 AVIS W PS-00 Strike N. 700 W. Statach state: As outerp was werel. My 18 in him of earth my good sprimen dald be obtained or dip to determined The ship of charage seemed to be North 600N. 1754. Mant greenstra about vogans N. 1735 N. 900 W. 500. General Aven d. N. 75°W. Loor Burning 15/th grant 2000 thuch stown 15/th grant JOP. M. Du pages 62 7 63

62 6 T. S. The men of the other party who showled the tailtong noth many very likely have some stata to offer in M regard to this

63 I believe that north half of section aux [ 43, R 31, spooled thave some especial investigation as the seems to be no cloubs that The in bearing series appears here. With Ulmited time at my command I would by course give it only a very that survey. 1 It beens to fine that there somelof to the one attn which the Mams field mine is breater. This wary be consuited with Michigam me O mountain but if so the lime straw one westing as there is not woon emonythe for they berveen green allow of Beath slate. Mr. fanford found an out our of what stall many be a state of the in bearing series betout seven hingstred pass Wof this alues

14 In Set 12, 43, 32, beginning at 5/4 post o sun ming V. 9.20 AM B. M. 386.09 Animal set 28.62:0 The plat gives V. 11 W. Bu sun so we sun compar. My & quessed of O. Spring Tamar ach swarry 211 x. 172 mind Timber N. 520. W. 1974 Strike N 750W Homblendie greenstone Sov Bun at 200 175.9. N. F60. W. 1000 Shipe about I + W. Grunsling THE N. 1000 Wiro Strike about Eth 1000 10.20 A.M Running at 217 1761. N 1337 WIVE Strike N 600E Drontie, green stone sor Hardwood in 1988 Struck sethin lim I paus. Wof 1/8 good 11. Am.

S. R. T.

W/4 M. Set. 12, 43, 32, Meg money at N.W. 18 th just rounning of 1.060011 (370) 0. Much timber V 2/E By guess 1762 N 75 W. 1500 Stupe N Godf. Duritic Granston 1713 NESS W Soo Semal trend E+ W. Siontie Greenstone 1000 (10). 250 pm. 1200 O. D. Taken from blaged line 15 0 V 21/2 E W NASO. W NOO Strike N Took 1888. Struck section lime + 18 A post B. M. 381.90 Ahericker -3.300m

69 1/4 Im Set 1/2, 43, 32 bigmon at I /4 post + mining X. 11. April 1. mixed timber 2.1.2 1000 11.40. AM. VIX 1500 VO Bloged R. R. Sime 17808/0F 1 1983 Stouch se thin line 7 1/2 past B.M. 388.0%. Animid 430 W/87 Set / 43,32 beginning at. N.W. 18th most + mining S. 12/35 P.M B M 427.55 Anewed set (28.71 = 0 o. Minard Timber 2 125 (134 gains 2008. Struck sealin line 21 gra us No /3 Dead (370) 1.5.60 m.

70 S. T. 43 R.32 05/0 E/ Jack (OZF) 041 303 (384) (08/9) 555 (4,0) 393 + 38 A SE 4 (000) FAA GH (22) 55 H -14 (379) 014 (350) 370 (9AH) 985 A 1765 rector sugar

71 I Im Sut 11, 43, 32, bigmming at S E ormer prit tuning N. 8. Loum B.M J82.15 Animid set \$ 25.63 = 0. 0. Mixed timber 2.2.1 1000 (390) 9.20 AM. 1200 Bunt sund growth N.1517 Wo. Atilhe 3 V763' Appaintly some sort of employed the N. Lov. Grunston Strike about LV W. soon the che section live & corner part (Soo) E 1/8 M. SeA. 11, 43, 32 beginning at N.L 18 A gent + minning S 12.5 00 M. v. Hardwood Al balsam 330 2201-1995 Struck section line & spaces & Jolky The with Its post in This section to certainly at least 50 pares to be 3.21/380.97 Americal 440,

73 I Ime Seit 2, 43, 32 beginning at S. E come & running N. Volokin o. Mixed timber 224 God 100 10.35 AM. 2000 Stuck settin line of corner port Bom. 410.90 Aneni (450. E13th Seit 2, 43, 32, Legmming at N. I 32 6th porto mmms S. 11. 25-AM 13 m. 410.94 Aning st 28.58=0. o migd timber 2 20E Mar Handring 1766 N 1100 W. Sov Shile N. 750W. Diontic guenstone 1000 12. 20 Mayard timber (20) 2010 Stuck section line 80 pares to of 1/8 th good

74 T. \* R. 32 S. 294 054 057 Alda I Tamarquite Car 14 Ex (00 4) 024 400 (300) (029) 02/2 march Smith mixed Timber snow storm

75 14 Jim Set. 10, 43, 32 beginning at 5 14 post o running N. 820 AM B m 329. 94 Animilat 2838=0 o. Mind swamp. 2 37 230 Mined Se unil growth 111 855 AM From Got from at U/of 7.767 N. 581 W 1000 Senter & + W fim gramed greenstone 2018 Strick section Ashe 43 pares W of 1/4 port. NO Wir Do Outery of greens the stirling N200W. 9.50 ANN W/s the Set 10, 43, 32 beginning of NN 18th nort + mining 5 1. winn o. Much sund growth (Lock V. 12 45 Onders For ground guenstone Stran N SON 1500 Bunut V JoZ 1375 Mired Timber (320) 28.73 Atruck settin line 45 pares Nof 18 h 03 m. 401.04 April 210

76 43 R.32 T. 004 mixed Tim 420 /365 085 ecclar Swam (9/2) 5/20 1768 much Scopic Growth. (350) (not) gets Moun & surro Storn

/4 Line Set. 3, 43, 32, Jegm ming : at s. 1/4 most o mining N Got AM O. Mixed truler & 30 Pam at VIE AT65 N. 425 W NOV. Stripe N. Soon. Fine grand greenstone 2000 Struck section line 1 Squie to 18th August 365 - 110 ANN W 18th sect 10,43,32 higmming Oct BIN 426,89, 284160, 1150AM 10 mixed timber 25E 1000 (400) 2-10E: 12.33 P.M. 1415 Ontern of from grained green stone like 1368 2030 Shuch Section line + 1/8 th frost Cort

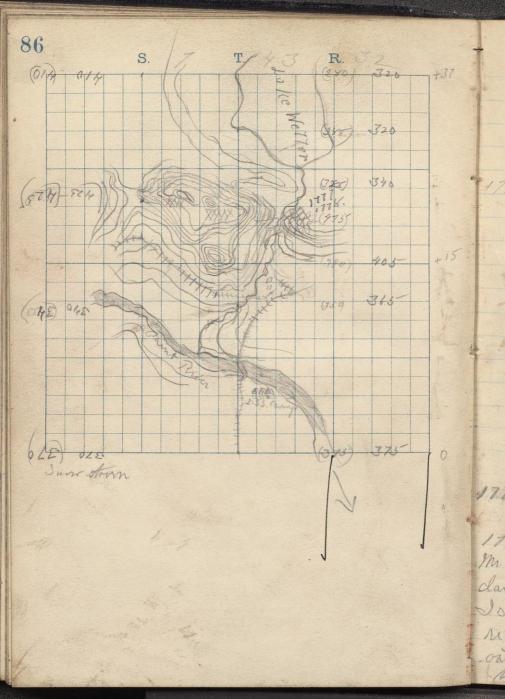
79 I Im Set 943, 32 Migmonny at S. I come post o mining N. & Dollam B. M. 403.32 Sunid 28.17 O. Mixed Timber V. S. I By slat. 1000 (385) 8.40 AM. 237 " 1810. Mysell sound gunt. 2.3. 1935 Storch Sect line Braus Ly come just 2.40 3 (430) I Isthe Set 1, 43 32 beginning at N. E 1st grost o rin anny S. VI. 33 P. M O. adar swamp. G334 V rz By llat. 100 Tamarah summy Sur 232 11 1000 (Eld 2.13 P.M. V30 1 "" 1550. Mydel sound growth 1800 Outemp of greenstone 1960 Shuch Suther love 10 pares Wolfally at 1771 N.200 W300. Stripe N. 600 = Grunton (3)

E Im Set 4, 43, J2 beginning at S. I come fort o running V 2.50 Am (3) o. Marel first & second growth (30) 00 By slet 1789 N. 290. WO. Str. Le. N. 300F I'm graned green stone 1000 (860) 10.30 AM Rim at 8/0 E 1830 Street section bone or corner good Bin 421.27 Animal 735 11.30 ALL E 18th set 4, 8 3, 32, by mong at N.E 18 th post 1 10mming 5. 4) 11. k5 AM. 13. 81. 446 62 Hockel put 29.17 =0 of Mysel first + second gents. Of of the felat In Hardwood. 1770. N.1170WSVV. Strike N. 780E Fine gramer greenstrom 1000 1200 0:M. 1500 To By what. 1930. Show it Section line 16 paux E of states (40) 1.300 M

Meter taken by Joa B. Willer 83 1/4 Line Sect 8, 43,32, legmany et 5/4 gut B. M. 368.37 U. Burning 2-302-1772 N. 975 W/ON Grunston :988. Struck Section line 12 pars Lof Sagurt. N 18th Suit 8, 43, 32 beginning at N.W /s to port + mining 5 s. Burning (370) 20302 2040 Struck section love de paro £ of 15 th port. B.M. 335, 83 Anard 340. -1.13-0.m.

84 43 R. 32 T. S. (310) (0.12) 050 300 (B) (ATA) 204 776. (200) (504) 904 (350) (014) 514 (0 A) 000 (340) 660 038 (042) 045 100 B m starmed

Notes Nather by Ira. B. higher 1/4 I'm Set 3, 43, 32, beginning at S 1/4 port & minning N. 8555 AM 0. Burning 2. 4027 (6-70) 1773 N. 200 W & S. Green thou 1774. N.1115 W. O. E + W. Greenston 1.775 N 1380. WO. Stribe LAW Green atom 1415 Grenthan 1680. Green Am (no. 13. m Burnet) 10 paus Wof 1/4 pont M 1 th Set 5, 43,32 beginning et N. W 1/2 Men good + running S 10,25-AM a.m. 402. 58V O. Brukny 240E 1776 N. 1330 VW 1500 Strike E+W Greenton 1000- 11.25 AM 1981 Struck section line 28 pour E of great 12 P.M. (370)



I Time Sent 7 43, 32 begin ming at. 5 to come gout o nummy N. A. Do An B m 323 78. Ahrnol det 19.01 = 0. 0. Burning 23 7 1000 18. AM V. Sustitions. 1100 M 2012 Much section lim Set comme in Lake Weller. 280). 8.33 AM 21/5th Sort 7, 47, 32 begin my at N.E. 1/5 the most of nummy 3 230/2 11.15 B M 370 -Anund 380. - 12 M. 1778 N. 1200 WO. Ath he about L+ W Dy 200 3/ Banched Green Store with a of the of marrie 177% greenstree (877) outling Herough late Mr Sawford Who first called my attention to it danno to have traved the dill for serveral miles I serve it (the olike) /4 mile elast but shill not renginge itas such as no Candid guirstyne outerfied; he would hat find exact contact

88 044 (997) - FAM (092) 1298 (250) 220 (290) 0,50 Snow Strin There is no doubt that their nowst be a large west variation at about 1800 how N. As from that yout the compass man thok a sight, of mile of then donellows thoo himbad parces Wygost.

I Line Set 6, 43, 32, beginning at S. L Set cornit ram ving N. 0 5.35 AM 0. Burning 23010 (280) 1000 (3 ho) 9. AM 25-07 Byplat. son mot " " 1729. N 1618. W/5. Stribe (3) General trend EXIV Agglownher at C. 1895 Ston oh sether line I plat. 8111.397.32 Buril 330. -Vevor Wsov. Stile about & th Afglomerate homing a marked Dhistosity. 1 E 16th Sut 6, 43, 32, beginning at N.E to the post & surroung 5. O w.AM. BM + 1/4 gost barred assumed eleveling 425. Animid not 29.0820 6/2 O. Burning 2 10E NHOSO WUS ON Shih about E + W 350 V3. LBy play. 10.000/ 10.40 AM. 29 28 Strucky servin line 180 pares I & By post 11.13 Am

