

## Township 44 north, ranges 32 and 33 west, specimens 31273-31298. No. 235 1891

Sanford, Samuel, 1865-1927 [s.l.]: [s.n.], 1891

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## LAKE SUPERIOR SURVEY

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INSTRUCTIONS.

Topography.—On the left-hand page map as much of the section as has ac-

tually 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 hem-lock 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 sufficient 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, if 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 west.

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.

NA K & K & K & K & K & K & K & K & K & K	Manness Colors	TATO CONTROLO CONTROL	「
THE NEW YORK TO SPAUCE OR TAMARACK SWAMP	were the fact of the man the men there are the man the man the men the	RIVER	NO STRUCTURE
NEARLY MASSIVE	SHALF OR	Sevoco seco	OMBARY 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				
	Subtr	act from	n watch	time.					
17-21				27-31	3				
		JU	LY.						
	Subtr	act from	n watch	time.					
1-6				14-31	6				
		AUGU	JST.						
	Subtr	act from	watch -	time.					
1-7		8-13		14-18	4				
19-23	3	24-26	2	27-29	ī				
30-31	. 0								

200

1- 2 9-11 18-19 26-28	0 3 6 9	SEPTEMBER.  Add to watch time.  3-5 1 12-14 4 20-22 7 29-30 10	6- 8 15-17 23-25	
1 9-12 23-31	10 13 16	OCTOBER.  Add to watch time. 2-4 11 13-16 14	5- 8 17 <b>-</b> 22	12 15
	16	NOVEMBER. Add to watch time. 14-19 15 27-29 12	20-23	14

" .

13663 - car 498.57 E 1/8 Trole Book 3 ( Saintard "frolegist" Lowey Compbremen 31 286 - 90 por levertil ex mted DPECIMENS: 1273-1298 44-32 44-33

2 R. 32.1/ S. 3 44 (49 S) 49 1 (580) 624 Remnings on quarter line of Rection 56; 744 N; R320W. Jop of map is fulk Too cloudy todetermine variation Running on 1,1300.

Plating J. 7.38 AM, Barran 501,2 2000 - 2811 15paces W Doo lowfound, whar, spince for little fairly good famlock 1 506 5101 ground falls away 875 to1 (500) 1200 mixed timber, some good prine, but my scattering, 130 0 496 (300) 1400 thick make (505) " " " ground talle and (530 " " " " " " 1495 1750 1900 ar 2004 kares; 13 kaces

3065 114 Ilake, fre thick 670) 5-163(320) 511 (375) hendrek ta little pine, most is harden (440 1280 niver tank fulls away 1344 Adga of Derr River 1400 100 Any 1500 pelly burnt spruce balsan (405) 1600 Some enamb more cedar 1700 Durie but swamp Bench mark (bunk) 407,7
aneroid 7 405,7

6 s. 8 T. 44 NR. 321 74565444 Jung from 11/8 June of 8 Clear sky

Joing N from W/8 Stake 11, 42 am Bench mark 440.96 1700 = 28.745 Balsan, cedar & Fine theple makle Keary, others light 28 200 good thick maple 435-440) 444 (450) 452 (460) 12,45 Ph Edge of Delr witer bank 430 (440) 425 (435) Edge of niver My bank much a say little home me thick make 460 (470 2,308293 1200 518 (530) 546 (580) 545 15 601 Struck line at 2058 kover; 19 races

8 T.44 V R. 32 M s. 6 Nex 1/4 line of Section 5, going N. Day clear

June 25 1891. 1/8 stake 2 PM 2,43 1/8 stake good thick maple (560) (530) Edge of cedar smant. (374) (390) Edge / Der River 500 turnovack skruse Spant (303) gran (Rm. Edge of he dwood 500 must tember, chiefly makele maple chiefly 3/0PM 1710 " ground takes a nee to (530) Junter cliefly maple 3.20 Rm Struck line at 1992 paces H2 paces of framer

s. E line (5050) 480 R. 32 10 X 1500 495 (330) 530

Group & markene of 6 503.11

anemal 7:17:00 ft = 28.6 cm 1,08 110 paces - tote wad, - old one much luntir, Rett hunt 520 Edgest redar swamp 510 350 bottom of namu ridge motes delich, partly burnt

""

Cruck & 6 ft write, flows SW 500 aprice thomas enamp 300 Level Services Am ./200 Was for wide flows 1290 grand nois Struck

S. Eline of 7 748 5 466 N R. 32 W (440) 465 480 (485) 473

2 lun 67

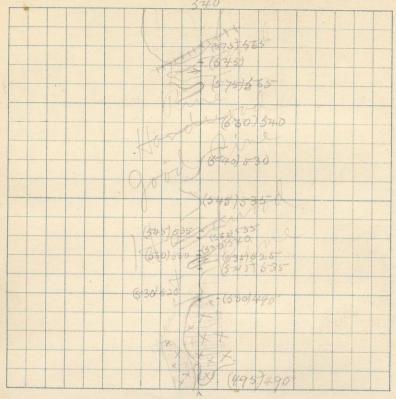
Come Som Dection come 13 m Elline of 7.
100 mixed timber well hadron (5 10) 7°, 36 € this 300 low count, class see front (383) Ho) Edge of Dier Ring Leras 700 mixed timber, mostly 805. Cdge of Der Ruy 900 Me side fines 1000 Birch trueple with 450 1450 Show, birch ceider Belilling pine 1600 same but more hadwood Showed fine at 1810. 1 Bench mark

14 T. 44 N R. 32 W S. (300)495 (510) 505 15051 500 (300) (495) 49 going Ir on E'/Filine of Rec 7

going A from 1/8 stake 15 Bench marke 493,86 mend ho 1200 = 291 1/4 slake in good heary maple 2 452 3,2 12.35 PM grand falls away 760 790 950 good maple with some to this 105Ph 1,00 (375) 1200: " + Lattering pers tole was good we (300) good scattering. Fine 1800 11 faces It of line 2004 paces

s. 6

T. 44 / R. 32



Jong 1 an E//8/16

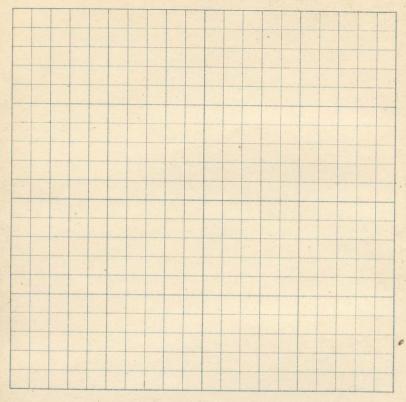
77 40 pen ofme taward ment 200 menerge taward ment 200 menerge taward 0,300 (500) top of hill. Lone good pine, ecaloning Hodring, prie maple (335) 630 870 700 720 TO0 8 240 5 900 1800 1000 1400 1600 fattly burnt hadwood opine (573) 3737 1715 the mad - griddne

18

S.

T.

R.



1993 Struck line at 1993 frees at Stake 3.30 km 539,42 Bench mark 539,42 anenid no 7 538

20 T. 44NR. 33N Joing In & 1/87 line of see 1. Lky Cloudy Running on from 1/2 to 0°E, Dri net interpolate on acct breaker madings of

Bench mark 571, 34 anevid > 28.61; 1400 = 28.8 Bunt timber, with thick work new grouth of cherry spoklar brief (395) 260 (340) 300 400 Edge of tumarack swamp crops Hourde 745 Am 800 buil wland alge if hund sprince + 13.80 thick combly pine 11400 1500 tumbound falls away 331 1800 Above live at 2015 night at state 22 565 505 4N R. 33W (545) line of Section 12 going San 1/4 Did not interpolate - readings aring?

23 12 paces IV of section line, with 125 paces stuide / lang, A. F. (535) 1/4 flathe in weadow Enamp 100 - +/10 pails Wolling, fine thick pine 300 reda sumt 375 1, 1, 927 Am 100 W in suemp -625 19:40AN 0,0 700 20 pheir of home, excluded goo Rame cedar suamp Lame 1100 spince stampack entirely 1200 1300 meadow smans Cresk 10 W wide flows S. 1357 hodge of meadon figures 1500 160 6 1570K 1700 prest kine I km Llia Struck line at 2030 Exactly at foot Bench wants. 5066 50663

24 T. 44 N R. 33 W S./2 1530) 500 X (525) 500 6101:49013 (325) 305 (510)504 (506) 500 1273@ gring Ir on 1 1/80 1/2 Dky clindy

going Non 1 /8 line 25 Bench Mark . 509.91 aneroid 7, 28, 565 1200 - 28,9 200 Splendid "thick kine \$ 00 265 paces 20 paces Not line, artento of another 75 for long tableast 30 Torond Outgot forh a In Knoll y a dok gremshi grang quatrile son they compact, massive in Jack Did not determine strike +dep pro work to marrier . Life may be intical 1 1273, A 265, W 1520 600 765 ground falls away tomarack owender Ruguls 1600 fund, cedar cwampe 1700 hunds pine

W 1/8 of 1/5

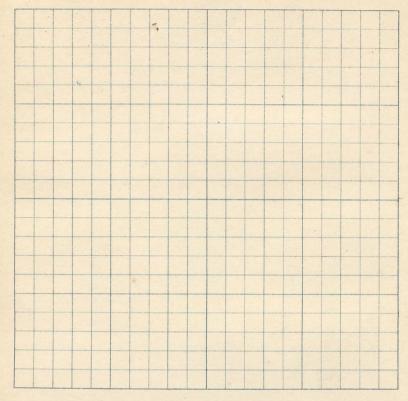
The fit states This state party. 300 1/40 (300) 148-400 dead tame ack march 800 dead tananch 800 green tamaneh 3,10 Ph (85) 1100 1200 dead " 1300 edge of swamp partly tunt kine 573 573 000 Edge A marsh 1600 find kine; cherry bush 1700

28

S.

T.

R.



Stated Voting a 14 state paces & Hirthe at 2020, 23
paces & Hy flathe 53

30 turns. Top is South

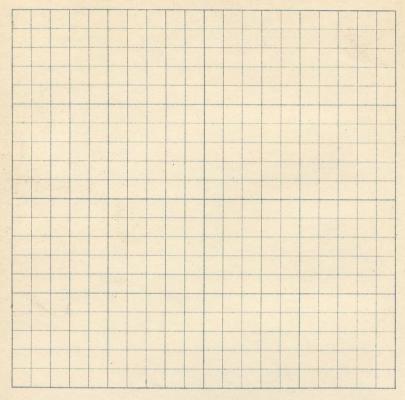
Running Potan section line 31 Beuch mark 525-3 anena 7 28.255, 1400 = 24.4 Benchmark in Eside of Roy back", "HOST about Runounding his Hot back runs N. a little: 5 Bench men 10 ft abox swamp 50 Up of ridge 255 910 am 1:36 265 lopg ridge (3:58) 3004 per tombrock & vank (3:25) 1,30 \$90 outer Edge of Ruemps 600 bunt timber 875 rdep of karlly dead cedar saprice plante. 900 in Linary 935 at 1000 - 4 kaces is of & Short of fustan 1375 10.02 Au 1230

32

S.

T.

R.

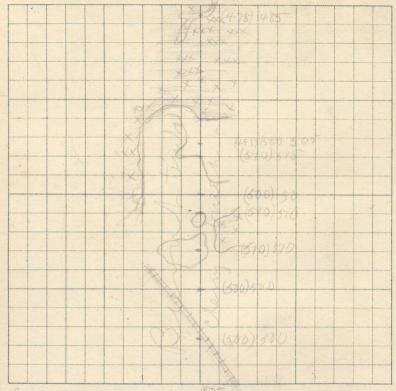


33 AGS= 10,05 am 1.00 W Hoper Wy comer to paces about

T. 44 S. // R. 33 +

E line of 11

Comer me dead sknier & tangrack 10.33 TM 30 330. Crekst inde flows & 500 but spice there Edge of Spen Lamback Theuf B10) 0.36 W 1200 cher framp 1366 × 1565 1505 1000 1700 1800 1775 2000 973 of about 2000 Bench Mark & Jak 83 anond 7 12, 45 Pm 510



Enry Non & 1/505 hime Liky Clonely Running 1: N for Bonahin

Buch make: 18 line of 1, 37. Buch make: 506,66 hours of 18 85 12 - 4400 244 270 rail road, Cystal Jalls to Hemlock mine 500 hund truker, chang the plan buch (500) soo so paces & fina open tamanak 2.40 RM 1400 Africe Handrick enant, dend, 1650 ester fædersmente 1955 Jamuel? my Rhallow broad (475) Itmos stake at 2010 juices

s. 2 44 MR. 33M

Going N n & 1/8 lue of 2

Riming 1 No for 1500 paces

+ 6 1, 36 N for 500;

Going A on & 18 line of 2 39
tamp ner stake in dead spen
tamp ner swamp
100 paces - East end of shallow
pond who may Bottom Road Lopped 1/2 hour to hold raft 17 600 de sal Trabrock Drawy 140 I dend cedar teknice fort fine 4955 1500 hunt linter . 536,48 around 7.

40 Song Son 1/4 diret Sky cloudy, variation determined by significant down time Tope is S

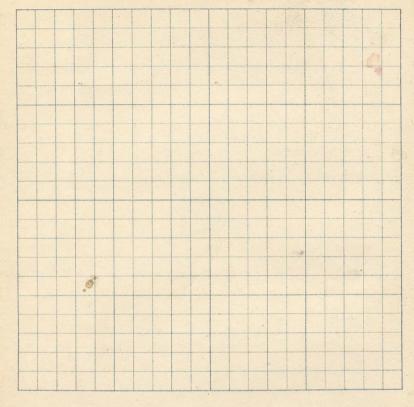
June 30 (891 of 3 41 491, Bench Track anevid 28,405 1=400 4.30 W Is faces S 1274 his 1274 is a conformate from Jegs. 1865N; 925-W, ledge onlawked in various places along as & + w line just I'd the Rolling line. Conglowe with so much mot amorphored ) tehms to two was constituent pettles Tut pooly Except quite massin & slinks tall an not my well defined NO 1276 N 1980; W90Q0, Combin 1276 is from & continuation of some Cellys, Outenpfroms a leift 30 p high just Sit Rockion line 1274 Did act Delemine the tolip (373) 200 for dison little jud

42

S.

T.

R.



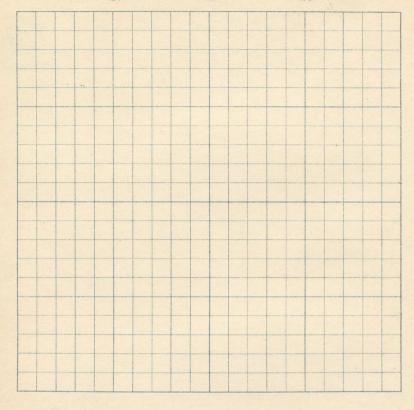
43 Sme good make 1º,15'W 1320 730 Joseph 40 4462 800 1900 burnt timber W4,8#M dead ade (320) 9900 9884 985 R.R. Cytal Falls to Hem mune - fill (on truck) (574) lick crech 2 H wide flows 8 12. 986 swamp dead code . 1050 1100 520 Sprice Hamarack Enant 1160 2. 2 W 1300 1400 seatlering good fine 4.0 h 1500 1800 the word, in fur shape. 1100

44

S.

T.

R.



45 Struck line at 1997 paces, Came down whole distance on Hoged fine which shahes line of peeces Wy 14 46 T. 44 W R. 33 W S. ) 0numing 500 paces

114 peat 8,40 Am 47 1/4 poet mixed tunter 150 Rkme stamaack snamp 200 4 300 5216 1+ MO1275, N 1460, N 1800 This parinici is from small out cop of the fame (appaintly) conflereate that order pe at 1274 + 0127,6 . I take take an melamelphoned the act of the well no 1277, x 1460 - St 1050 this Roses, at 1277 the n face of the face of the face is corped by soil & slopes down gently mit Street I tike fdip are both ob-Top of interp

48 S. T. R.

This is about highest from Jely 9. 2 Am Lame rock, 78 pg small knoll dot & 200 Bunt tinker bage 1380 10,20 Am 14645 mh malge same with 1500 dry hd of creek. (460) 1600 dead ceder, numerus outenks of earforente all about les , wast of them small but Rome large. The order from peaks A little know in dead edder swamp which has an undergrowth of older, area is slow me toxyslore, 300 N, 900 We ontroff of conglan+ 279 pratis; appara strike of contact about A out interest or thingsly S' W. (500)

I 1800 Grat Isral ranation most & Mr. in moder ledge of confinents of or Aifficult & docate this epot cracity on acct of ranchen the dig yn Shiho of but may be Now This whole are needs to be carefully ex by from, not high compt to use diel, is about 38.5% 1280 NO: 10000, 74 post is on this outenly did and delemine Rtike + dike 2025 pares, 150 pares ( A B m Bench make 300.54 answerd 7 91,20 april 460 400 1 Bench make

52 T. 44 N R. 33 W S. /0 (315/525 my 1 on 10/8 0/10 Sterling and 1:0 Withen 1,30 W 1281, 10, 1150, This specimen to thick in conglower at the N.60 W ; dip, withital ,

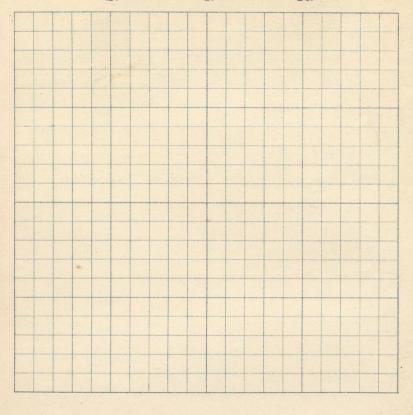
Sough from A / Slake 53 Bench make \$19.05-arovid > 28,435. 1008=29m N,10; W, 1475, orders rather small 1282 10 paces, Maron road, good little good limber, party bumb, 200, a few good westerny kine 400 400 cedar snamt taloled latte Routting 200 Rprice Harnack Ruamp 200 " Hick ceder under growth 1231 RM trink timber swamp partly land post work

54

S.

T.

R.



55 tok of outerle. 180128384N230 W1470 Did not stuke any E+ It line - Fix from though this sachon within a few weeks glorierate from the outerk 1284 is a specimen of the slate; Did not per contact

T. 44 N R. 33 W s. 3

Song N on W'18 line of 3 Iky cloudy about 2° W,

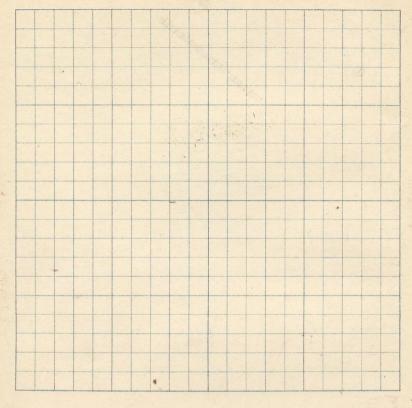
57 at probable line burnt cedar + 1 tommech (500) Eve Struck an & + W line, - 1/4 line of 3, C +n War Rich syrray & it 4700 ft W of pertin come (30) from section comer stated: To from there on 20,30 8 503 120 Lunds change enange. 490 ceda tald courts, Very Eliv 1800 kurs planck & + W Rayed line of Rail Road (C + n. V.) Durry ought to her about when I plethe 16 or paces lemancer purint topul

58

S.

T.

R.



1

59 This line ought to he to spaces 1840 vail road, Cuptal Falls to Hulock mine NO 1285 N/840, W/525 Just that where line crosses RRin small cut is butanop! of melamorphic conformate. Debiles 1285 figle Tounded C If in dianete 1285 ps Apermen, Ste pue grand with is the kelfle, to to cooper with quarter is the ce Menting material Stupe sall anterior and the diff. 3ft high - Etwesline of 2050 knees 4 page & Bench mak Bench mark 473,84 Anavil 4, 7, 5- 0 M 530,

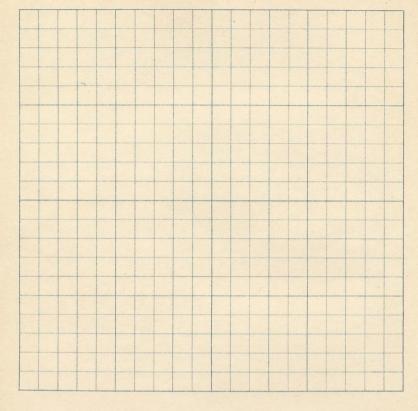
Some I'm & dine of 4 / 61 Bouch hah 7.41 Am 482.83 arend 7, 28.625. 1600 - 28.5 150 portly hund mixed tenter (400) meetly Loftword (450) 200 Sprice snamp, pollybunt (473) 300 340 how Land, Spice slamarack Crep, 3ft unde, flous Mr. 1000 pally hund seft wood 1100 Hom>1600 9,40 Au makle told wood, a little poor

62

S.

T.

R.



63 19 17 jose timber, with a little Scalling pine of ford sixt Thurk section late, on comer elabe, at 2012 paces This whole mule is practically ceder temanch or sprince Duamp. The fire has been in it. The unt tash party an yet green, the Knolla of a faw feet (5) slevatur han line theroughly brunt, The Swamp as a whole contains I should thinks 1/2 to 2/3 burnt sluff,

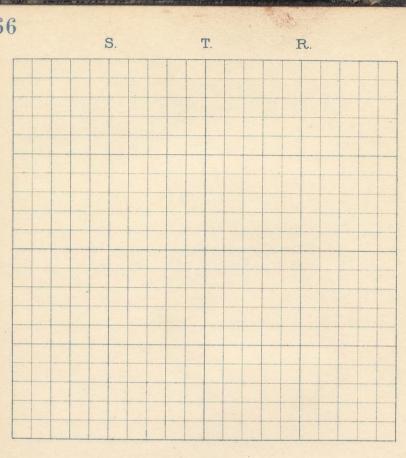
T. 44 R. 33n S. 9 migal 1 (530)540 × (513-)520. N(310) 5/3

Joing of on & piction line of 9 Dry cloudy till 16,30 tints Running 5 on 1,34 pt for 600 pages 380 pages

June 2/1891 65 350 gen spine demarack mary 350 in 10,36 Am first chance 8'W 10,21 Am 20,30 W 1:0W 600 1 800 50 pieces to of line to Wagn wad - to Hemlick 8 Went Walnut 12 paces 11,11Am 600 11,40 1200 Iprice reeds Luans (345) 1307 about 40 h fragments of lean ord hemoltite He horabuls in the drifts 1300 marcal timber, some good buch, a little ford maples.

S.

T.



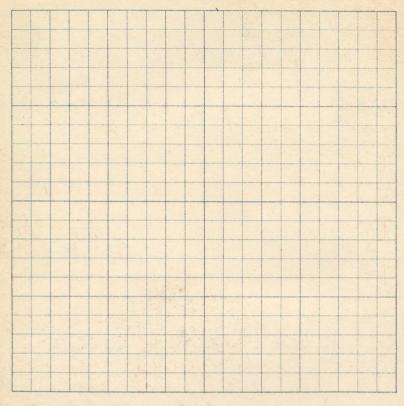
16 1 20 Durishine down line, 2, 94 1900, a little scallery kine Struck live at 19.80 paces about 18 & of Bench mark. 12, 25, Rm 329.06 Bench make anavid 7 620, 324.06

Jone 1 from & 1/4 line 1 9 69 Bench man 0 332.88 anerid 7.28 58 1,22 Rm 7. 28 58 29,1-10500 2,308 The thick make (3407 1..37 4,08 483 1/2× (375) 1295 pech the has been sunte which atte, ho lays bodies of it. 1296 One is in thin stringels min Hed girth Cenn, with t, cherty layer, appaint clube 1298 pour gla 9 8, shala much It was located from foot or.

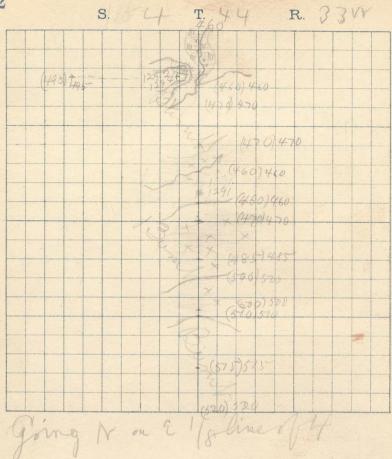
S.

T.

R.



2,30 grod heavy make 5,30 W 560 238 30 8 1300 570 800€ 14001380 175 Coptal GHanlock mine ovad to proper perfect hale us writed 1575 241 59 W (1757 1600 1700 Good heavy meple 1707 (330) Im 1890 34, 30W Itmeh line at 2004 15 paces

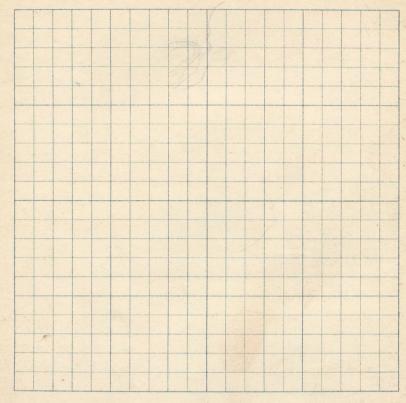


73 1/4 state bunk mixed timber 100% 15 / 1, 45W 240 3,15 Pm (375) B70 525 6110 1000 hund clas spruce 1150 No 1291, N/150 to Rock is a dark sky blue organ quatrole? exposed pur NO 1291, N 1200, E 500, (465) even It wide flows 1260

S.

T.

R.



- Commer-

75 1400 burnt Softwood 17.00 Edgrif Hembrek niver Fine falls a for feet us 2007 over large boulder, San nitting Jumes Me pur was an intemp (+60) 1800 6 × 1800 p W 530 wilesp 1297 when was mars, forms N. I and A a mage organin with trees, Rock 1294 My thin terms fastery on () nier
H, 22 PM 10636W Itmon lyne at 2060,25 Eg 1/8 Plane Dende merk 55888 460, Uneverd 7

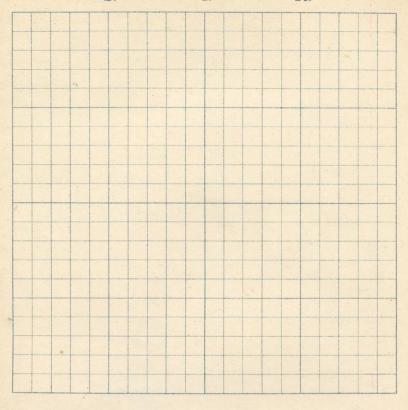
76 T.44 NR. 33W. Day clear, then clondy 70p is South

77 Ay Sur 44 line of 5 499,25 Bench mak anevid 7 28,73, 29 = 1200 Bench make in built hardwood 100 Bunk Ladroyd 200/ 14801 450 40 V + softwood 4531 (440 (445 44 875 tamerack Skine redar. 900 950 1000 toteroad - good one 1050 burns thank 12 1/2 1/100 wagon wad Boo thick perubby persomp 1400 adr events

S.

T.

R.



79 1570 cruch 3 M privide : Little Hemlory, flows & 5ft wido: flowe into he Little Hunderh from 1700 aldeswamp 1700 9,20 Am 1800 Eder of Little Hemlock, creh veren has been cleared not her tured for logging. It is full 30 ft wide 2000 by mer side. 2000 Ventle Back Vank of Hunloch (340) fully so minutes no slake or live found

80 s. 8 R. 33 mg In 14 hm 18 Jopis South The Hemlock is not platted Cocenately

prof to 1/4 line of 8 81 So Found line which may h plating line Offet & 230 poers travail dead, to uned take too long no offset End funt timber 308 230 Lee about 10 or hugh on & side 340 mer bank open mendow me name plate in selle wide then but followed bunt tinker ) mo X 00. 900 10 a 35 AM 1000 4301 1100

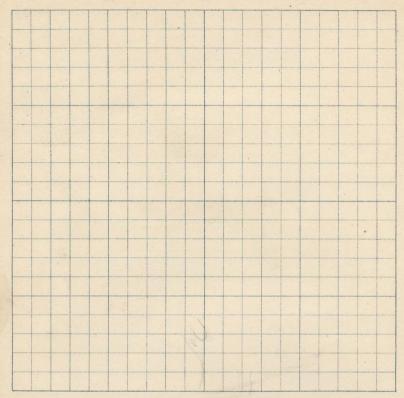
R. T.

hay aft from tun 830 1400 1040 Am count sake of 500 kness my 1500 paces = Wmt 2000

S.

T.

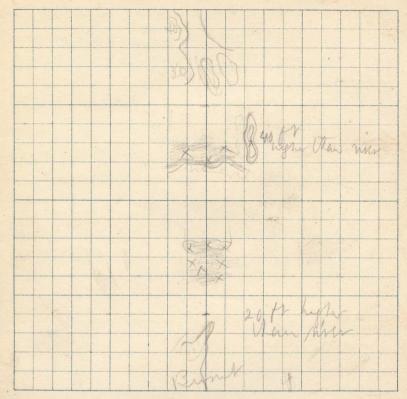
R.



S.

T.

R.



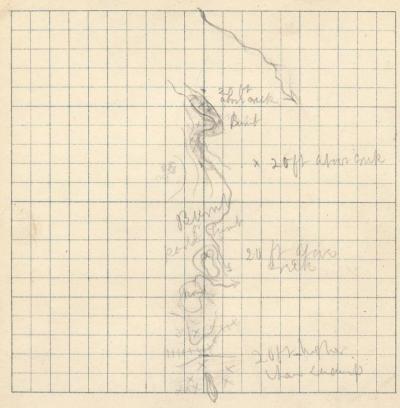
Running on 50 E.
Raining had

N mi 1/8 State 87 State in timb Kinky there tames who swam 350 Edge of Swamp wind Roll wood > 800 9 00 trans und 1160 Petermerack much 16 70 little ruents 1820 hunt had tell word 40 Struck line at 2050 set by himbonien,

S.

T.

R.

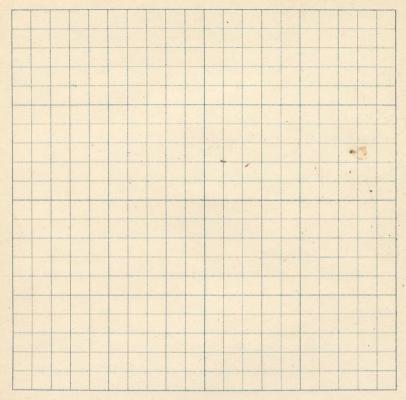


89 m Shank of her 20 ft pacy to Arten line in swamp hum timber 20th 222 lote road good me 300 Spine Ruamp gruping fra 628 rdge of Lilamp 20 ft and flows SE 723 1100 Ciden thank - apub pida again cella Duemp 1500

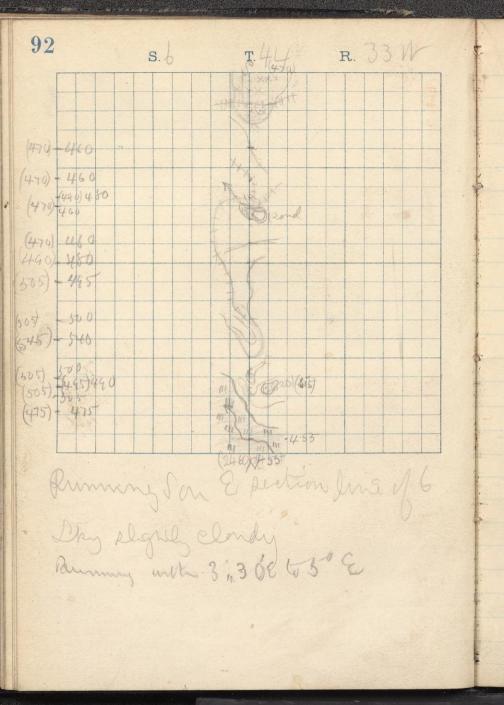
S.

T.

R.



1538 Ap of Frank 1575 himle tighter 12 16 1990 - Branch of Hemloch. 13 Beaars danned - 30 ft wide Clinck line at 2030; 48 1 poses Ey Benely Mink

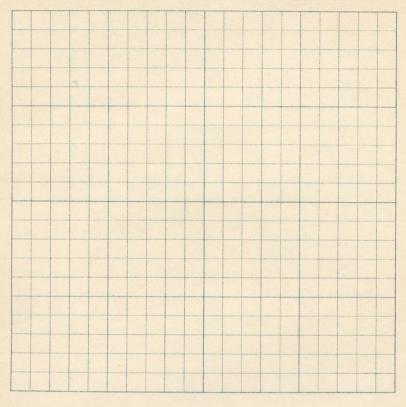


93 Bench mark 436,65 anenil 178, U.S.G. 5: 28,33 2460 540 -533 100 Spen meadow 215 hill above menler 300 tuntured, hig 2580-435 tach 2610-355 400 Burns hard softwood 2600335 Cane a N + S Dela 60 8 900 line 2610-135 910 partly but 2595- 535 2580-535 1200 2588505 Amale open change \$2575-135 1290 tote wad good ugon road 6, 30 E 1445 1443-

S.

T.

R.



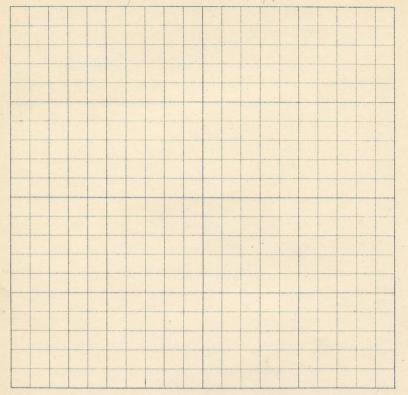
95 1385 Hadwood, allthe tren 2575-555 Mor redor wants 1820 tote road good wagon road, Section line (1) 1890t etruck line at 1896(1) \$996, 50

96 4957475 R. 33 S. (890) 470 495) -475 605)-481 (605) - 485 (495) 475) (495) 1695) - 480 (480) 465 Grong Son & section have of 7 Sky clear with flying clouds Jop of kage is S

my I'm & Rection line of 7 97 Shamp, but in snamps 10,09 Am 7,305 2595 2580 330 kell bunt timber 2601-333 2600-400 2445 € 10,55 bank trucky 900 kartly bunk hardwork 7, 48 to 2600 -532-200 1400 to W of him gran self wood with a few scattering good fine 1400 1606 2610 1600 1750 2604 1930

S. 7

T. 44/VR. 37 W



99 Ameh line at 19 94 pares 33 parces & Johne Bench math 47 473,48 are vid 158 2600 453 - 2500 20= 40

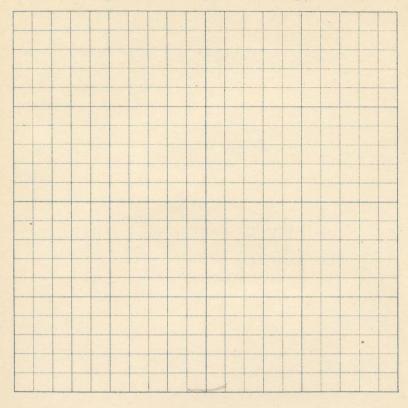
100 T. 44N R. 33N S. (490) 450 (470) 470 (314) -630) Jong 18 on E'/ have 1.7 My elex or cloudy in tum

good hardwood, 495 101 Bench hash 495 97 are and 2 5/6 good being maple 2615 200 alittle Scattering kine 7° 445'8 2625 300 12,10 Pm 400 god mable 300 2640 26,10 6081 2615 1023 cede snumb 2595-1130 chare through Drawn 1400 Apricatamerade reelar 7700 coly of frams 2 1 2610

S.

T.

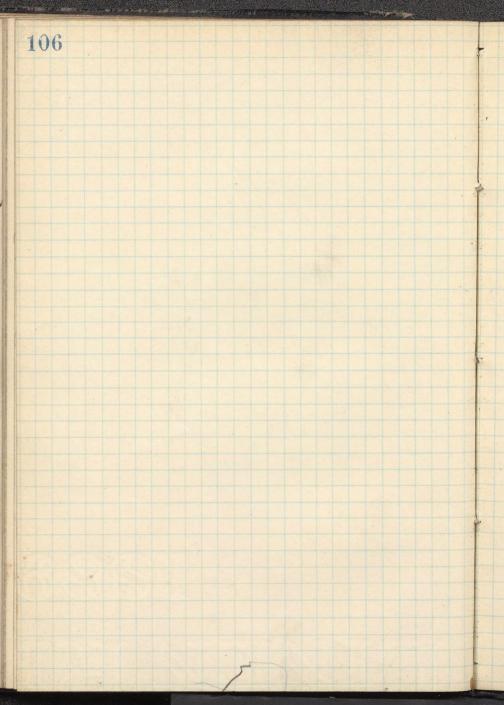
R.



103 1990, tote wad , jord me Struck line at 20 20 paces, 6 pais It of 1/8 state, State Lot a liventernien 128 PM

104 R. 30 S. 6 (490) 495 520/320 (480) 418 (480) - 410 (500) E 1/2 line of 6

105 1/2 slate 10 paces open tamerack sopruce strants 2590 want back 2620 2620 + & price 2615 2620 me at 20 to paces 12



nash pet. 2585 Bench 107 Amen men ( ) paces 2619 Bonch mah

1 beet in line 3.01/4 feet in peter the theor peetin line or in 1- 50 pasos 1- 1/1/4 ner 1600 reflie Just N. 50 paces 1 1/8 alote

1286 guilfile from about. 1287 - conform being, dent 1289, jarpe cenglan, green tred, from around 1500+6 -1290 Put in lag

