

Township 44 north, ranges 30, 31, and 32 west, specimens 31301-31316. No. 212 Jun. 13-16, 1891

Brooks, A. H.

[s.l.]: [s.n.], Jun. 13-16, 1891

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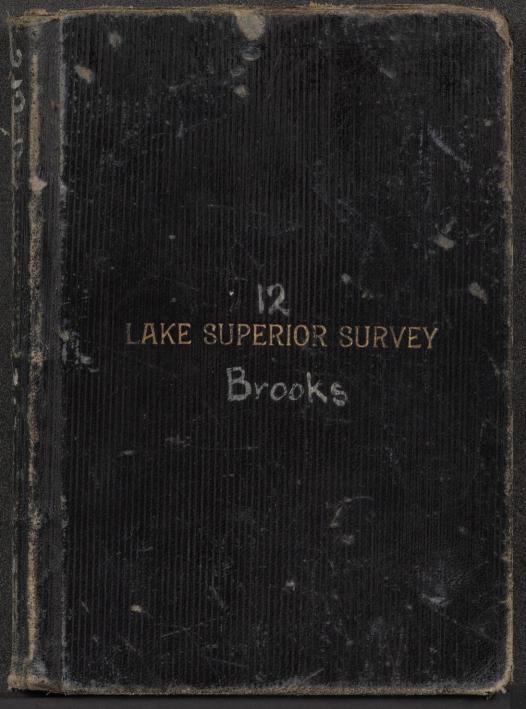
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Endit LAKE SUPERIOR SURVEY.

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 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 angroids, 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 benin-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, and roid 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

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. case several specimens of the same ledge are necessary, and when ledges are numerous, specimens $2x^{2}/_{5}x^{3}/_{4}$ inch will be allowed. In all cases collect chips 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.

TUPOGRAPHICAL SIGNE

MEARLY MASSIVE SHALFOR BEDOED SECONDARY STRUCTURE		MANUAL	ICAL SIGNS		
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and the same of th	WEARLY MASSIVE	Maries.	E.	\$E CO	

EQUATION OF TIME FOR 1891.

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17-21	1	22-26		27-31	3					
11-21		~~ ~~								
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30-31	U	STATE STATE OF STATE								

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	SEPTI	EMBER.						
	'Add to wa	atch t	ime.					
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9	29-30	10						
OCTOBER.								
Add to watch time.								
10	2- 4	11	5-8	12				
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16								
NOVEMBER.								
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16	14-19	15	20-23	14				
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27-29

24-26

No. 1. June 26/9, A. H. Brooks: Geologist. Ira B. Willer. Companman These lines were sun between town line (levelad) 44, 45 + The leveled line The miles Sof Mat.
Between Range line 30,31 & The
E 18th line of Sect. 5 Range 32. Town 44 N. Range 30 - 32 W Dial compas no 8. n. B. I consider that most of the "wild closes were close to the the clife of of the deal compas, The dial has been ground the be defective by actual trial. The variations have there very little value SZECIMENS: 1301-1316

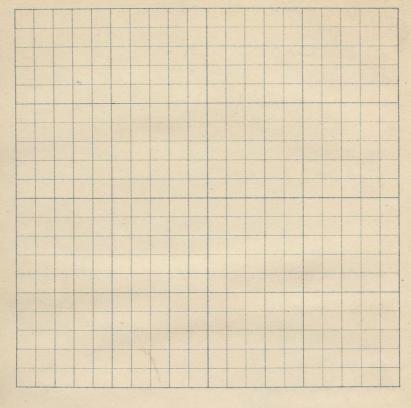
L' Sec. Lime

"seologist pun "3/9, 29.08 = 098. Livis Compt men Comp Anned No 7. 28. 732 Paropo. " No9. 28.65 N. E. Comer Sic. 1. 44 R. 31W. (454, 10) · Big namme 11. Lim 8. 26 A.M. V. 3/4 to Om scharhow, burned. Flat. (450) 86 1112. 200 305 400 328 581 820 U Flat. -1000 233) 20020E 1126 Spruce Swarff 9.15. A. M. 1200 Poplar. -1265 (4/20) April words 1281. (420)0 an 2°E 12 +314 Ime sclarhing lunt 1430 1 15 / 4.54 Hill 30 Paras E. 1 / 1 6 8 160 410) Var 20 E 1637 1700

S.

T.

R.



3835 Prin sillashing bunt. S. Line Sec. 1. 1880. Stanch Sect Line 26 Paces W. of Corner Post SE Sec. 1. 10 A. M. 库

Range Im. Starting at. N. E. Corner Sec. 12. Ome Sclashings 34 gar 30 E 190 220 (402) Var 30 1/2 £ 400 " . Avail. (423) 600 2 on 30 E · Road 10.301 M 635 (Spruce Swangs 40 P. L.) 200,70 E (388) 800 Var 3/2 E (390) 1000 2 an 5 of (383) 11.64 1385 1200 Cedoa Siv armys. 10.55 A.M. (372) (372) gar. 4/2° L 1347 1400 1545 Im Slathon gs 400 0 m 3 1/2 E Poplars. 1.648. (380) Van 4/2 E Lake. 182,0 12.23-Sec. Im approximately, 12.45 (918) Corner of Sec. in Sahre Sturch See line 25 = jacus E of S.E. Com Sect 12 B. M. 406.30 Americal: 418.

Li / Im 8 T. 14 R 3/ S. 12 380 (390) (3/8) 124 (425) Marsh 9 (402) 437 438 423 (4:2) 420 430 (430) (420) 423 + 3 425 388 (392) +0 (404;68) 8 12

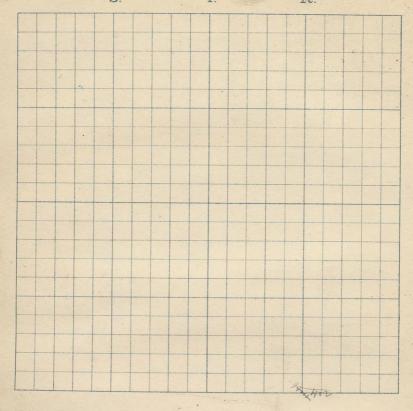
E18 In JoseA. 12. Beginning at. 8. Line 1.05:0 M. BM 40468. America set 28.98 = UPT Poplar brush. (3041.68) Box 8. E . . . 0 Spruce & Tamarach ru any 100 Var 6 % 1385 200 220 Lean Swamp. Top of hill Poplar underbrush (415) Var 50E 306 399 Broken witht of lake 2.35 RM. (390) 3.49 20 Paus L. Lake. Var. 12 E 385 460 Jahr. Var. 2. W. " Sprosite Shore 580 (420) \$00 Buch. Prine scharlings 700 700 Offer 15. Paus to W. A avoid Lapu (430) . Jop of Mul. \$500 W. (320) 850 Late 10 Par en to 923-Oreturned to Line 122 ar. 21/2°W. Under binsh (430) 0 1000 Brut Rom I under beach 17337 1215 (445-) 1266 (432) " " " " 1400 75 Down W. Marsh 1470 Bant gime & underbush (425) 8ar. 1. W. 1400 21737

10

S.

T.

R.



44 1/8 12 R. 31. S. T. 4.16 (405) 394 (382)10 (393) 206 27 33 3389 (370) (36-) 37 (360) /3 7.60 (200) 600 (395) 66 700 3,68 358 358 (343) seler mary. 740 390 180 80 94 378 (370) (402) 409 100 (208) 12 (920) (00) 18 408 40 160 150 李

Not magnite compas . Sun clouded . 1/8 Im of sec 1. 44 31 Beginning & I'm of Set 1. Bunt jone of under bash 3.400 m (402) Enal Parent pro sclashings (209) 132 27.3 (370) 330 March. End of march 1390 3.60 (390) Burn John. 600 (380 660 Althe swamp (350) Leave swamp 700 13587 Hill 740 (33:0). \$ 800 - 7 an 1/2 0 hr Sun came out Dial oungas used. 940; 393 Bunt gone . 5:40 P.M. -1000 (400) Float. /200 Suller (360) 1312 (370) 11/4/60 1530 (398) 1/600 (375) (382 gargow 1600 Struck N. sect I'm 120 Oaus Ed E/s Pert B. M. 450,34 Anenid 432 5.12. 0. M 4/8.

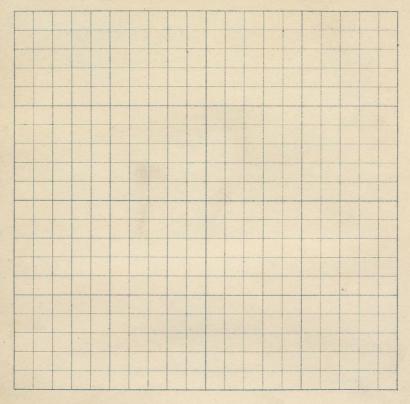
Amend not compared with coming anumal 15 In Im of Sect 2 4431. Osegronning N. Ime. B. M. + 1/2 stake contol not be found pubably burned Started 300 ga us Woff /8 slathe 4.3 Set amond same as Jum 15/81 as B M was not The be found. 28.98 = 0 O. Brund gine Flat (480) 200 19 (505) 2 m2 W 275 1008 to Morsh (375°) 570 Gulley . (500) Hemloth & ciclan Der Crays. (490) 245"h . >25 Offerto 40 to Edge of An enrys 100 th avrid lake 1090 End of Effort. 1090 Edge of swamp (370) var. 5°21. 1268 Not Hoh (3-23) (540) 10.18 AM 1223' Mighter of sixt timber 1500. Open seplar underburk (320) 2001/2W (510) 2 an 00

16

S.

T.

R.



1/4 I'me beginning A. I'me of beit 18 R. 3/ S. /1 24 371 301 Pond 501 456 (503) 466 (35) 491 466 (340) 1711 (520) (543) 499 (560) 300 B.M

14 Im of Sect 11, 45 31 beginning Al line 5 Kinning S, o. March with alder (100) you o (505 325 Edgi of march 370 /fill (30) Var 00 383 - Hill 502 Marsh 500 Stream Jost wide flowing SW 19801 665 (505) 250 Edge of march. 1140 Hall 1155 Edge of Ma slow Fint of hill slashings 1600 Baloem Hembo ch 1173 Un der baarh slashing 1841 Pin slastning burnell. 1500 1965 Almoh Sim Spaces W/ Port (350) ver B.M. 312.98 Anemal 560 gx. 12.15 AM

20 T. R. 37 441 23 441 (470) 488 (480) 1/An (432) 440 18 (449) 478 (439) (929 12 400 (403) (440) 430 (448) 433 424 (430) 395 (300) (400)

21 W 18 9 71. 44.31 beginning Slim / Sect 7 summing A. B. M. 408.75 - Anomal wit 28 84 = U TA 1.13 P. M. O. Pyple ridge 7 Malram 40 (420) var 10 W. 400. 40 (430) Var/ 0)0 (240) (445) 2 ar 10 E 400 9, an 107 D.55 P.M (440) 6ver Var 10 F 800 Awarags March 880 Endo (925) 1 ovo Bunt Pine sleshings (420) 1080 1450 22 50 James ach & spring swing (330) Var 1300 Stram 10 pr mile flow W. yen 2.35 P.M. (440 var 30 F 1100 2003° (232) 2003° E 1800 Leone Swingings (460) 1800 1230 (we jaus W. lake) TSprin Alarsh 1990 Struck Nem set 11 10 W. 18 states 3.15 P.M

18

12

22 44 R.3/ T. (475) 424 412 (3 75) 427 (495) 447 44 (385) 437 (825) 481 4198 (340) (300) 464 (4) 439 (470) 435 (395) 1 (4.75) 440 =31 (485) 450 (483) 450 (470) 4460

23. W/4 feet 2 34, 31. beginning with 730 I lime for a running 11 to 16 FM 0. Poplar Old boring. 6 470. Var 2" 5 (485) Var 20 15 44 soor July " (423). (490) 7 ans 0 = 593you Marsh: (470) var 20 E 810 Leave march 137 goo Herry cha birch 880 990 JUSU 505 490 Ja joj 3/1. 1023 Hardwood 12 or h EJ-2. 1385 11 283 (322) Sou Jot 1450 1500 Pine Rommas 1650 Marsh . (475) 80120E 1700 Jahr 1775 - Oda of mais 480 Var 20 E 1790 Buhit Oline 1828 March (475) 2 023 Shows Se of lines 11 by pos status B.M. 328.37. Speried 426. At. 5.P.M.

24 V N. Grave of Se of Osegon may 1. 8. 3/ 37 2 36 8 (395) 390) 36%

but made to low Jum 1/21. W. Set Im of 2 4431 tegmming N. W. Come but? V running S. " 1.40. A. M. B. M. 1205. 65 Arend set 28.73- 2001 O. Bund O'me slashings Bread (395) 1390 035 Boad & bridge " Orner 25 Paus broad (370) 400, Hardwood There in 390 570 One 20 Paras Misacle (360) 610. Hemloch " (383 800 385 948 Old /4 Status 1000 Hemboly 3957 " 0 (395) 9.15 AM 1365 1630 adaa Swany 1730 1980 Swany Spance Needloor 2074 Alm A lun 2 gaves W. He statu (363)

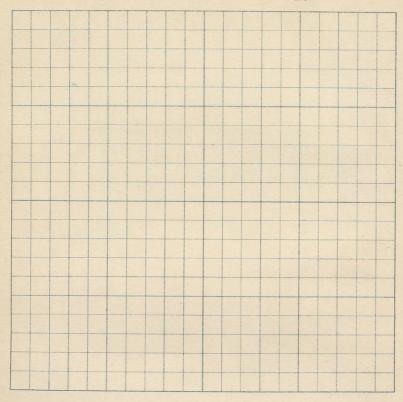
26 W. red lines 44 R. 31 T. 37/ (283) 381 (370) 376 314 371 Hower ! 37) (300) 356 371 394 411 466

Show by midle van 10 W. 27 0 Sect 11. 10 34 31 Algoring Nx ronning 8 o. March Ohner 100 PW (375) 215 Open nM pylars 300 Swarmy Tamura VA ciden For Lean swarmy. 750 Beach swan (373 860 Creek Jop Wide flooring WO 750) " march 1000 Leave march. 1100 Phron 25 Cares 11,25 AM. 1375 Praver By chal ver to W. (375) Var 304V 1706 Bunt Jum 398 Var 50W 10280 Marsh 2012 Stoneth sett line 12 paces Warme (470) B.M. 388.83 Anniel 391 gs 1.P.M. 28

S.

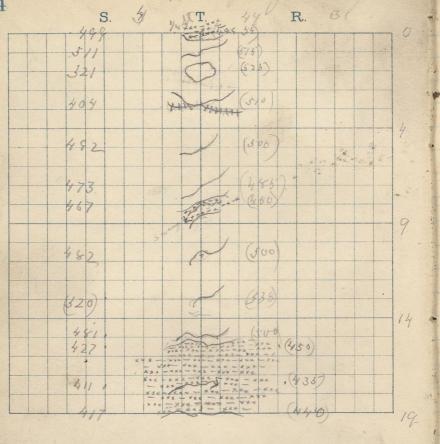
T.

R.



18 Ime of Self of 4431 Beginning S Set Im 1.20 Pm & running N. B. M. \$384.33 Aunil Aut 28.74 = 200 (384) gar 24°W 13. Ower 25 Daris wich. 200 Bank pine slashing 260 Marsh (320) (380) (385) Goo Brunt jum slashing 385 Marsh (334) 284 Leave marsh (374) Mark 2 15. 1200 1395 Burn Somm slasting. 1370 1500 10 gares & much 17000 Ann cerrie out. Farration moved The be 50 W. instead do W. Covacted Olive Thou (390) gar 50 W 1860 2041 Shungh low 146 E of the Cost 3. 130 M

E 1/2 th of Sec 3 34 3 (beginning & t 12:00 Run birt medle at variation of 50 W O. Bundpine slarling entagglais (378) 100 Balsam a popular 200 400 Geore Balson & popular 300 Sun came ant Variation ground to be 30 W Correled Anediontin (360 Va2 1/2 W \$30 Hardwood-1375- Marsh (330) 1310 March, 4,430 m 1500 Hardwood. (330) 1600 1700 . Prail (350) 8 Apales E Yx Stahe 1987 Abuch Sed line 4.5 B. M. 428.71 8 5 8.15 P. M Awrid. 330



1/4 Ine of Set 9.44.31 Beginning N. Lim Trumming S. No sun. Our be mulle yar 50 % o, Cedar swarp Sun came out Var grand to be 2 " E Es Odge of Swamps 300 Agrobbood (460) (460) 10.30 AM 900 Poplar & Springe (400 1000 Drowny. (440) Ja50E 1030 Leave swamps 1000 1175 Alder Swamy (445) Var 50 E 1300 Leave merrys 1800 John Money 3,20) Van 3.0 E 2032 Struck Seit line & 1/4 State Var 50 LB 03. M. 402.93 August 440. 11,25 A.M 38.

38 8.1/4 9 T. 44 R. 3/ 10 (500) (490) 458 (479 454 451 451 400 250 469 (473 3 (475) 469 465 (470 si Beginning S & mining No

W 18 of Sell 2. 44. 31 Begin ung S line & runne N. 480. 66 Sunid att 29.06 =0 / Handword 420 Dan 80 F Herula th 475 0 a 70E 400 Harchind \$75) Vayor 540 (450) Va 9 E 800 (460 gar 7 % Old Propost 990 Amale na gupe undertrant talsarm 1/70 1200 1300 (470) 0008°E Hardwood 1470 1890 VangoE 1600 1700 2084 Smithen & gous W 4 th Post (460) 1.3.00 20

40 W/200 S. 3 T. 59 R. 31 495 (5/3) 493 500 500 13: (473) 474

Beginning & Solline & running N 21 240 m no sun Run by needle Var 80 E (100) Sou 81 E o Harellowel 35 Sun come ont (435) 130 allow thangs (440) 200 . Cruch 4/4 will 25.0 End of somany 15: B88) 300 Burnt gine slashings (490) 300 Hardwood (305) 640 12 (423') 230 @ M 8 60 Small Crub 3/9 wich (500) Var 12° E 1000 Bunt grow (320) you got (520) 10 1525 Marsh 1852 End & March. (320) 1982 Struck Seit ling 3 P. Wof Y's Malha Said of the alove lim was run by needle at Elyperent variations & part dy chal B. m. 509,09 3,300.m Arond 530

42 W. Jed line 44 R. 3/ T. 506. 504 504 549 (546) 519 321 311 (30) 496 (399) (329 1301 496 9 (370) -30 4,5 sett eme 130

3 Jame 3/81 West set low of sett 4, 44 31 Begin ming N. M. Corner & running "S B. M. 1510.66 Journa soll 8.93:0 .7 40 AM (500) 20 fox o Marsh 250 Elgy monsh (323') Van 2/2 E 4 or Burn trales (3-20) 20021/2E (370) 000 (895) Ven2/2 (350) 2 an 40 E gov 100 8.27 AM. 630 Vans 1/2 E 1250 Burn a don mamp. 890) Var 30 F 1340 Estar of swamp (440) 1.301 1500 N 130 W Stirte & Aj mit opporent. rell (sramt (?) with granty versis & hematite antry about 100 pt ling + 40 mile. 30pt high. 1302 Same Eatings course grant front more Aldraan: 1900 Hardmord (550) Var 302 (370) var 4.5 2010 Shorth Arth lim 10 paces W Coungest (3:70) for 40/5 E 130. 4. m.

44 N. N.T. R. 31 S. T. (540 w e e'se +

46 E/8# -530 -5 (455) (45) 1303 O.N 470 E Strike & dig not apparent. general Thench N. 10° E. Grant with much normblend. Outrong extends some chisterne 5 / Set line. About 30 pt bwall & 20 holy

W/4 A of Sur 9. 8.4. 31 beginning 5 line of set & runing No 128.7620 B.M. 472.57 Admid 2 29.03 = U 10 m (472) Ver 11/2/5 × 0 Bun edon (450) var 70 E 900 Ceder swanz (233) 806 (473) Ver 80% 605 Gean Amongo (200 0 an 70 E 1304 735 N 500W Strik N. (5) Homblendie so In thrending offents a grant. Outenf 75 27 ling 7 30 mile 730 825 ada Swamp - (4 4 0) 132 Nosvar min by mudle at Ja Hariatoro (490) 1500 Tament Awar p. (503) 2110 Struck to 2 line 24 6 /8 th Stake Last ber joins rem with meelle Var 50 E

Y W 48 上 水积 5. T. -40 508 310 -33 \$26 -30 326 509 -23-1 1 - 20

5 /8 th Set 5. 44 31. begmming 8 line 7 mining W. O. Tamarath Der any 500 Dead is chan an arrays 750 Leone Amongs & Stalm old forming No sum Prin by van alin of 70 L (560) 1600 . Own by ranithon of 3 % 560 15 ov Ceder swarys Sim: variation groved to be 8° E 1705 Terman de su engo 4.130. M (330) D. 37 Shuch Irm 42 W / At Mahe 4.30 P.M 03 m 321.68 Animi d 560

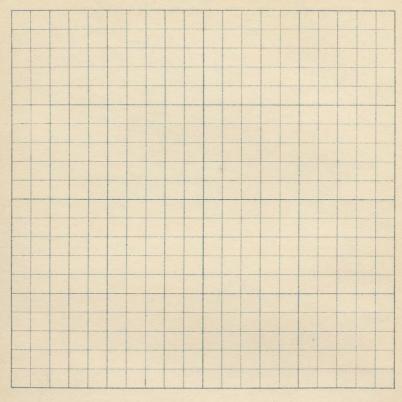
Jum /91 14 Im of Det 4. & 14. 31 beginning N 03 M. 301 04 Armid sit 28. 73-20 (300) Cidar swerrys Ouch spr mille 7 an 20 E 250 Burnt Ceder 300 Brut gime slashing (510) 400 Cedar shamp & Damasach Jan 20 = 21 an 2. I 570 7 an 13 W 642 (51.5) E1.40. 2 m 10 1 700 your 2°E 8005 (375) 950 Cruh 89 mich you 2º E 1100 Tom on the Am anys 8 m 00 7100 20 F 1380 (830) var fox 1540 Cuk 30 mile 1700 Town with - chiler ym JUE 1305 775 N 1000W. Very wasse grinsoid with with large maring humblened. 2098 Strink line /4 stake humed.

52

S.

T.

R.



1/4 Lme T. 44 54 R. 3/ S. 7 350 W.

55 14 Im of Set 7, 34,31 begin wing N line of set at the goint when theyeline we ran unter siched the Set line The yes and Stuhe grobably burned, 11,30 Am Thering S. (370) 2 cm 4 / -U. Burnt timber 370) Van 40 E Or Cedar Many 12.30 P.M (368) Dango F 635 Parts grow & New Sh 1360) Da 706 800 Cedan Aways (388) Va 60 1 11 100 Pine Startings (380) Van 60 E 1500 (30) Van (0) 2023 Struck old blazed E & W line 70 pares Wo of another old bleged line running N + S. The leveled link not to be found probably burnet (660) (2.P.m)

N/8 # 8 6,44,31 Starting at 14 to statu (3) burned, remnite N. 3.20 P. M. o Brunned has those of (535) 2003° E (SYD) faisot 300 N/500 W. 120 strike apparent Course grant 1306 400 500 (600) 873-73-79 4. P.M 1000 (330) 1165 (3.85 1327 Sweep. (370 \ 00 12/2°E 1600 Bunt tunder 1328) box 5. E 1830 2000 2060 on Shuch Am 30 gares to 18 A 2 4.300.ne Conjured June 19 9 (580) Aversid (530) (530) The sext line burned. Determined /8th just by Alicing from Corner port.

58 W/4Th T. 44 R. 3 (S. 6 (363) 1308 * (340) (530)

W/8 to of 6.34, 31 beginning 5 & N. 10.25 AM. The 14th ford barned graced (3.30) 2 ant 12 O. Burned timber (340) gar 70 F 160. 300 (350) garsof 1307 900 N 1500 W. Stulm & oby mot apparent (340) Wardo B (330) Jas 512 Outenop of granua (?) 1370 129625 1308 1120N 1500W. Granit (3)31 130 Swary. (330) (360) 1500 Burned trunder 1350 OnThongs 40 paus W Granit 1620 Awarys Deder & Tormarach (565) 1940 Stuck sett line 44 gaus W. 1/4 sta B.M. 504.12 12.45 P.M Augurd 560 c The last 1/2 mile of the above line was ran by andle with volitation 5 %

60 Range In 31.32 T. R. 31 490 488 493 - XX - XX - X 489. 480 (xx (490 480

Renge line 31. 32 W. In 1 set 1. 4432 begin ming Not ramming S. BJM 307.31. Aneroid set 98, 70 = 051 Im by nedle with variation 30 E (502) O. Tamar ach swamp 550. Old burning (493) 830 1040 Swarp. Cedant Nis ch 1300 Old Burning 1540 ader ownings (496) 1960 Abanh line Space E Comer port (400) 3,05 P. M.

62 / 1/2 91 R. 32 (330) s. / 44 T. 3 09 539 339 -12 360 cy 1309 (\$60). 550 141 920

Mi.

E 18 A of Sett. 1. 44. 32. beginning S 0) 11: O. Burnt timber (350) 2 4 SE (360) 2 mg of (3.45) Dan 70 E 300 Swamp (340) Fran 87 600 Bount Amber Ver 8º E (560) Var 7 5 1309 900 N 500 W. Gatery of grand (5) Very extension out eyes but in time the examine (5:30) 960 Crick 4 H wide por Jeave Marsh. (380) var 82/5 (366) Var70E 1300 Hardwood (560)0 m 8/2 E (540) Var 7/2 £ 1730 Cedar In crups (330) 1930 Struck Line 38 E of 18th Just B. M. 313.03 Amoral 330 5.30 P.M. 30 de 1/7.

64 E//8 M T. 44 R.32 S. /2 (30) -6 360 348 326 50 D 1/3/10 300 (3-33) -32 499 () () (460) 414 -40 436 (940) 800 (4 53) 390 3.9.

June 20/81 Sunday. 65 E 1/2 to De 08 12, 44.32 Deginning Ny running 8 6.23 Am (850) O Ammed rut 28.88= 0 (550) (430) no sun. Pour et vanation 302 O. Se ion of gur th from & training (\$3-0) (460) 0 (3/20) (170) (350) (450 gov Brint thater 1310 1123 N 300 W. Outerys of granit very extensive (395) (393) (400) (300) 1500 Avamp Vaso Creek 30% mile (440) (340) 1750 Bunt Cidas 1910 Struck lim 28W of 18th post . 50 BM. 396.13 Anenid \$55

66 Elfing R. 32 T. S. /2 -66/6 (300) (565) 150 498 -16 48 (530) (33) 513 (520) 1313 (450) 528 -33 1311 (30) 522 1311 (30) (490) 500 1312 470 400 13 (320) 300 # 16 F80) 460 A 418 (920) The above is the line from 300 years The 1200 partes plated to a larger Diali.

Elin of Sect 12, 44, 32 beginning SE Come Set 12 V raming W. B. M. 413: 1/2 Orumin set 28.80 2 60 no sun run at variation 40 E' 2.10AM-(413 o. Old barning, 200 Hardwood & (5-20) 490 600 Cedar (280) 640 ONTus. 720 Creek 4 pt with 720 NOW. Very extensive out cross of grownt + Hornbland noch, chip of foliation ?) 656 1312 1312 agg avently underlies 1312 (350) 8 crs Old Marning (330) 1200 Cedar swanys 1640 Burning 1873 Anoly. (360) 1980 Minch Set line 12. of Corner W Extension 484 12.13 mm

68 /1/4 Line 9 S. R. 32 T. 423 420 (450) 440 (460) 420 372 28 (386) F34

2, 9m of Set 2, 1.4.3.2 beginning N 7. 57 AM running 8. B. M. 439.00 Anemil set 28.79 =0 FE (438) o. Cedara severyo. 120 Ruh 8 pt wich (430) (39) Van /1/2 1 (400) 300 Var/KE you promys 525 Hardwell 923 Tota ward the Crystal Falls (460) 13 00 Hardwood barring 200 / Too 1385 1800 Pine barning 1960 Stuck line To paux Wof Ja Stabe 408 9.03. P.M.

70 // Ju June S. 11 T. 44 R. 32 350 442 430 438

44 9mi g 11, 44 32 beginning N line . 03-AM. d. Pine barning (395) (370) (378) 700 (365) (355) 9.40xm 1200 Swarms. 1241 Cruch 8 ft wich flowing W. 1300 10 an 20 1 2.031 Stench low I 8 ga us Wof /4 statue B.M 412.47 Americal 350. -67

y_vM S. 72 N/4 M R. 32 11 +3 +22 4/6 +4 + 156 349 (380) 13+11 +6 +20 1/4相.

W. 4. My sect 11, 44, 32 beginning & Sill ton B. M. 12120.29 Amend get 28.80:098 O. Brunt your starting (420) now Dead term on a ch. (395) Var 2 1/2° L 800 Swennys Farners In 390 1030. Creek 8gs will flowing W. (380) 12 hr later after lumin 1340 Le che many. Dead Taranon A 13 or Bunt gime 1980 Stuck Set line 31 E of 1/4 th slaho (320) 12.30 0.m

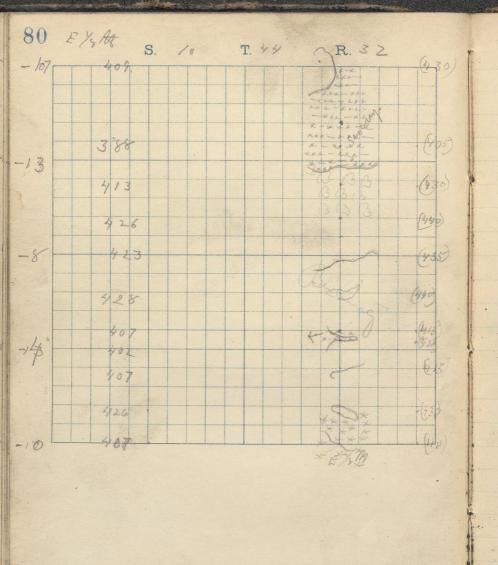
74 W.//8 M. Im. S. T. 49 R. 32 +33 435 (410) 30 440 (415) (423) 25 410 + 22 Y+ Ax

W/4 to line 1 S. 2. 44, 32 beginning S. Set Ind running N. 12.350. M. (360) 3 and I O. Bunt timber 400) 200 CO)= 130 200 14 10 Van 60 E 400 (430) Dar 60 + 7.33 9 m Toto road to C. FI (430) 1000 (413) Jan 40 I 1200 1300 (430) 1450 (423) Var 3/2 1300 1700 Awany. (410) Ban 30 E 1875 Cruh 16 pa mile. 1960 Leave swamp 1980 Struck line I gaws W. of 1/8 Dahu B.M 443,32 Durviel 410. 1.530 m. 38

76 W. Seit Ine of S. R. 32 (35) (430) (2,5-5) 16 B 5-9) 426 (433) 22 (430)

78 W Sett Sime of S. 44 R. 32 408 Bernone 38 (175) (4 80) 100 68

W. Set Ime f 11. 44, 32 degrang Not recoming 9. 1 m o. Old burning (460) var/1/20 F (473) Van JUF 300 (460) Am 10 E 425 Tamarack swarp 600 1 643 Old borning (373) Var 10 E 1000 9.30 AM 1313 Mixed Auft word June Landers (480) (480) Var/1/2 1 1330 Marsh 1350 Old brunny 61937 Ver/02 1700 guaro, 1800 Hederbe chargove (515) Van/1/2 F 2010 Stuck I'm & corner port (300) B.M A/ th State 411,63-America 490 79



5 1/8 18 10.49 32 beginning 5 5 morning N B. M. 411.65 28.86 = UM O, Heaploch (good) Vers E (911 (4304) Jas / E 163 Burnt himborg (815) Barlot 536 Swamp Tamarach (410 600 Old burning 3m30% E (415) Van/1/2 # 800 440 14335 Inns (440) Var 2.7 1200 Hardward Jan 1/2E 330) 1370 12/80 Parmara Sh zade sworing (405) gar 1º E 1595 Van lot 1700 2031 Struck line 100 gares E of /4 th state (435) 12.23 0 M.

82 F 1 1 S. T. 4/4/ 3. R. 32 -67 433 (460) 422 (43 0) (43 0) 4/2 406 (133) 414 (430) 409 1439 409 40

E/s M / Next 3. 44,32. beginning & set. Come + Nurring W V12.250.M. (430) Bar 30 E O. Decicl timber. 130 Tomara Me swamps (430) 184 (430) Zar 30 F 310 Creek 15 H will 460 Pate wad to On stal Fealls Van 31/2 E 600 Old burning (430) Var 305 " (Just jugilars 235 9,00 30 F (330) 875 1) on 50 /-950 1030 March nor Dead Timber. (3160) Van 21/25 1345 Bindfot 3/2 mille (380) Jan 40 E (430) 1 800 Tormonach swarmys 1880 Old barning 20,2 Ston it Set the 22, jares SV. / M state B. M. 429, 87 2.25 P. M America 440

84 /4 2mi S. R. 32 0 16 480 (443)

Run at variation 10 E 1/4 Line / Set 4. 44. 32 beginning. Ju port & running S. 7.05 4 1. B.M: 539.08 Hound ret 29.0820 7. US- A M. o. Hardwood (540 (513) 250 (540) (2) 400 600 (330 800 1350 3-30 12,00 1600 Old harming (500) 13/35 2000 Sext line Samuel no close. 8.30 AM

R. 3 2 22 (433) 38 440) 380 73 386 90 * 1813. N. 1000 W. 1000. Strike N 450W Dy 4505(23) iknot of soft chloritie so the grading into 1314 to much Giarder & clarker colored such. The Anot is cut by a chiphe of charite (2) 1315 Outerup 75 pacis long 36 mide + 30 pt high.

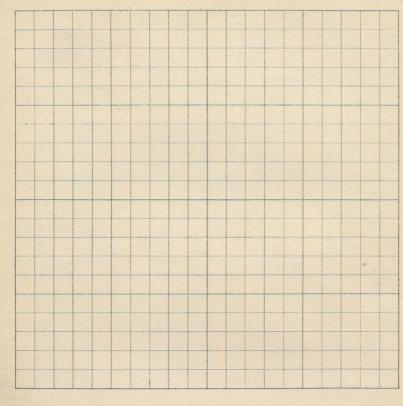
14 of Sex 9.44. 3.2 bigming N Set. Sin(3) running S, 8.50 AM N.B. The sect life has been post determined by our last line, o. Old barring (445) (430 m J. E 625 Odd hummy 300/6. W (430) Jan 1.80 M 925 (370 \ LaTo E 1000 1315 1300 (480). (370) 1380 Tamara ho Swarms 1800 Old Carring 480) 1016 NSOW1000 Stuhe N60°W Dip 60°SE. Schistore so in. 2060, Struck lim 22 pures W. 1/3 post · B. M 380.96. 1125AM Animil 470.

88

S.

T.

R.



90 W/str. like R. 31 (43) 433 4 -7 419 (430) 403 410 444 (435) (4/3)(3) 106 2 (380)

W. X+TA Sut 10,44,32 ligning Smits 12:131 De m line & rumming N. B. M. 377.28. Animal set 28.88=0 (377.) Jun 4 E O. Cellow swerrys so Old barrens (380) (380 7 w 40 L 300 Swary. 470 Cruh 10th mile 340 Offent 180 gans I the and Sahn - Too You you you I [415] (?) 790 Swamp gov Old Carming (35-) 10030 Burnt white birth (413) 1200 March 1230 OMpt back to Ine 1.3.3 0 Bann Thruber (430) (345) Van 60E 1700 1940 Cruh Ltt wich (440) var 60E (460) Jar 60 E Set line barned no to blage The be 1.450 m Sound.

92 W/ H. S: 4 R. 32 -16 -183

93 w/ 1/2 th line Just 4. 44.32 frommy 5+ running D. I'm M port + ret line barned.) (460) Var 60 E U. Burned Timber (360.) Van 6 E 400 Swarmp Cedar (470) Var50 E 800 Burnt timber (475) 1020 Swany Cedove 1100 Creek 3 pt mile 1300 Handhrood. 190 Van 50 L 1300. 1800 1850 1800 Swarmy ceclasse. 2102 Struck line & opener Wof 1/8th stake BM 15 7.36 Survey 520. 3.13 P.M. 03.m. 497.36

94 W. set hu T. 44 S. 4 R. 31 300 460 W. Settlin

W. Set Im Set 4. 44.32 beginning NT B. M. 342 81. Amenida 129.13=0 O Hardwood Good (320) (3/5) 600 1200 (490) (483) (478) 1808 2013 Struck Se It line & Corner port (470) 9,13 AM 96 W. Syst line S. R. 32 39

W. Set line 10, 4432 beginning 7. 13 VAM. Set line running o O. Ciclarsmanyt 300 650 Cruh spr wich 443- 71020 F 800 7257 VarziE (4/3) Var2. E 1600 1720 Swamp 2010 Stouch Set line 10 paus & Corner. 10,20 AM. B. m 377.29 Anniel 400, 23

98 相次和 S. R. 32. -13 436 -3 -10 E /4 AT

IE 1/4/ Sext 8. 44. 32 beginning S Sect 0/0.3371m line & running N. B. M. 399.84 (Anniclant 29.11=0 pt. (300) 8 an 2 1/2 1. O. Ceder hemboth. Go. Parus 30 pt mille (350) En2º E 120 Cedar Swany (390) Um 2/2 E 360 Old Faring (120) 500 Awary Cedar U2" Pard 30 pours and. (443) Van4. E 770 Heralich Manys. (930) Van 40 E 1000 Old Anny 1050 Color Swangs Ja 3 % o E (470) var \$0 E 1360 Bunt Celar 1430 (490) How Sord celleng majole. \$950 Shuch line szpaces Wof Tatt grost 303-) 1.25 P.M.

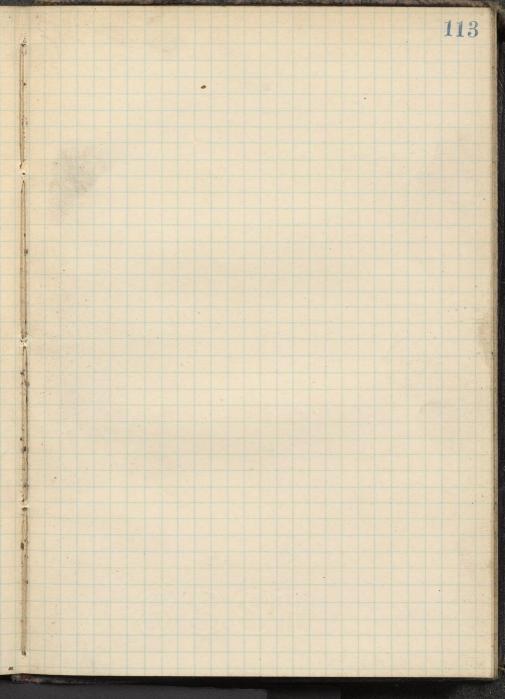
100 K 1/2 M 44 R. 321 5 T. S. -1159 830 337 (3-8to) 538 -18 (349 0 328 (550) (350) -17 (340) 529 -16 (6/10) 320 (503) 304 -15 1/8 A

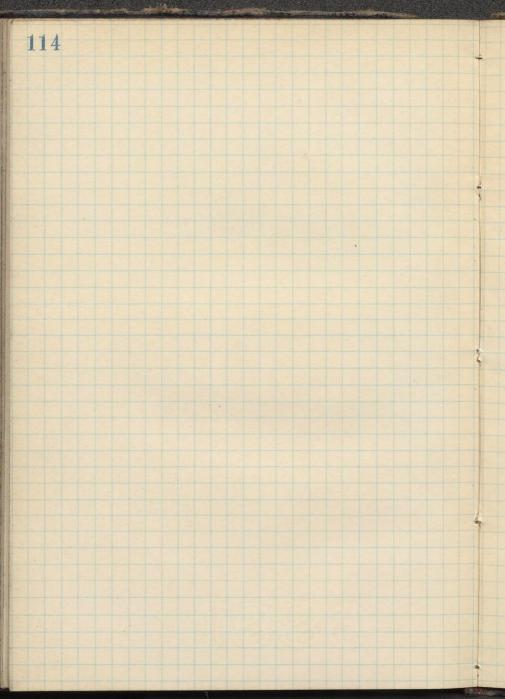
E 1/8 At Sect 5- 421, 32 beginning at s set line & running N. 10301.M. O. Certarbird + maple (505) Var Co2 (340) Vargot 173 400 800 (340 800 (530) gar 30E 1340 1630 2040 Thuch low 100 pares W, /gth post 1370 B. M. m/1 port. 501,24 320, - 2.550 m. Anisird

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102-111

Skipped





116 1313. Outery Knot of soft Meriches to the gracting into (2) 1314 a winch Marder Stribe N. 43 W. My 630 5 35 E (2) The Auro is cut by a gerbhoclyh. 1313-Onterps 185 pacer long + 30 mile 1396. Schrittere Mch. guy.
Abril N. 60° N. 5 60° 2 65° 30 N 1000 Wil

118 1310 1311 Oat ong of grownit very externine 13'2 Inclusion of soft Squen soch contaming Awardlende Goo N 73 ov W Let U 1313 grant opp 65 ° ± " Swin 45° E grant

119 1361 1362 1363 Maron on the apparent ratingant quarky veins + Hematite. 3000 N. Junid 380 130 W. + 1300 N from S & Com 5. 136 31303 Grand Stant with interior of no 1306. Seneral trend N. 7 S. Mys not hothinging Sharle 30 Paces to of 1/4 guit. 130 by one Shion shirters so it with your a me ist of great being grand themes No S 75 je long 7 30 Swade Seig. Soon & Soo Daw Wood Sto Corner 1305 course Come 1306 Coarse grained Comis or Grand 75 N + 1000 E Sex 9 about 73 gt long + 3 o brall. 1307 Grang 1309 1309 Grand 1310

8 2320 Sear lin 2 28 in prin stub 12 W comer comer in manys 386.88 18 Pm 5th 30 5 W Comer 384.33 . 06. m. W. Sime 1 ve pt & Carren 904.0 12 ye 8 pt w come 428 21 In HB M. S. /2 9. 7m Cals an Days W. Corner 313 314. 1/8 9. 24 in bors word 25- 12 Com 480, 50 S. Sett. 89 14 m ceder. 18 5. M. Comer 45196 VE 18 8 THAT 10 pt. NE Corner 472, 57 S.E 12. com Tamarach \$1137.42 1/8.th birth 396.03.

