

Township 44 north, ranges 32, 33, and 34 west, specimens 31316-31346. No. 227 June 26 - July 8, 1891

Brooks, A. H.

[s.l.]: [s.n.], June 26 - July 8, 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 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 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 arting-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.

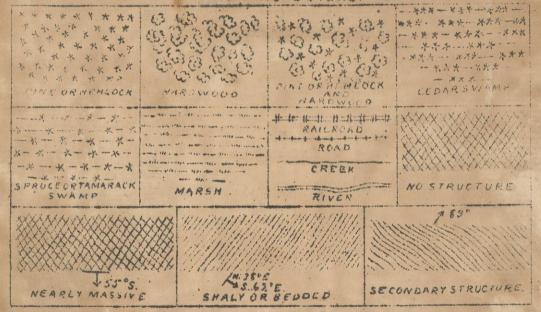
Denote the ledges of rock, when no structure is made out, by cross-hatching, making the cross-hatching cover as nearly as possible the areas occupied by the exposures. If the rock is a massive one, but still more or less plainly bedded, use the same sign with a dip arrow and number attached, showing 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



EQUATION OF TIME FOR 1891.

Day	Min.	Day	Min.	Day	Min.			
JUNE.								
Add to watch time.								
1-6	2	7-11	1	12-16	0			
Subtract from watch time.								
17-21				27-31	3			
		JU	LY.					
Subtract from watch time.								
1-6				14-31	6			
		AUGI	JST.					
	Subta	ract from		time.				
1-7	6			14-18	4			
19-23	3	24-26		27-29	1			
30-31	0	22.30	~	21-20	_			
00.07								

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

de

No 2 June 2/4, - July 1/4, 1 A. A. Brooks." Geologist, Ira. B. Willer. Compas man. Dial (2/ compas No. 8. Aberil. No. 2. N. B. So account for most of the wild closes it is only necessary to state That no 8 is one of Gurler's chal compares to is there fore eatiely unrediable J. 44 N. B. 32 - 34 W. The line sum are beween the town line 44, 45 The bench line line this miles S of that. They are inthicked Setween the 1/4 lines Sett 6, 44, 32, 7, 44, 32 J I /st line Set 5, 44. 34. 5,44.32 SPECIMENS: 1316-1346 2 - 13/65 also a 1316 in Book 2/2- ERU.

2 /4 line R. 32 T. (534) 532 (530) 318 J30. 12/2 846 330 533 1/4

26/hm/2/ . 14 lim Sect. 6, 44.3.2 Boxmung N Let Ine running S. B. M 394.41. Athersted 29.34 = 0 pt O. Burned timber. (330) Var 00 B40) 2000 4 ov Hardwood Good maple 320 March (530) VarloE 700 Hadrow gors Ce dar Hembsch North Magde (3.65) (370) Jan 00A 1100 375) Van/2° L 1300 8,30AM 13.70 (368) gar /201 1760 1932 Short seit line 72 pares Wof 1/4 port 2,10 Am (353)

4 /4 Em 44 S. T. (33) 14(343)

1/4 I'm Set 7, 44.32 beginning at 11 1/4 port rimme 9 O . Hardwood Maple bir ch ste. (555) 200 (335) gon 0 400 535 (535) Var/0F (330) 2m 0. (333) 1200 (530) Van 1/2 E (320) 32377 1700 1900 1980 About Set line 97 gares E (343) B M 305.43 Anual 333.

6 W/A S. 7 /2 hat 7340 R. 32 000

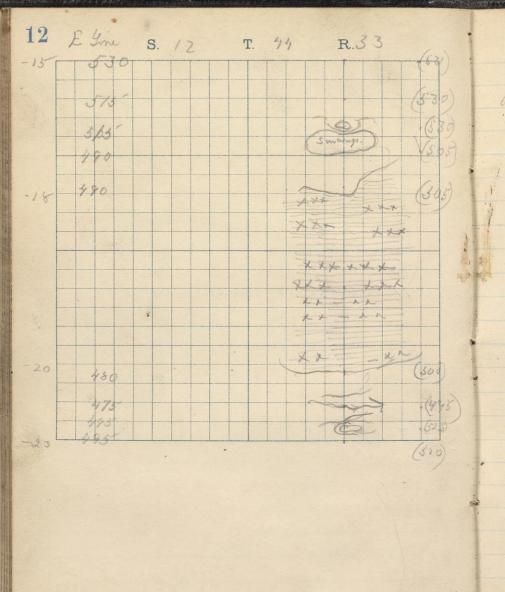
W/4 H & Set 7. 44.32 begin mys S. W/g stake & running No 121360 M B.M. 43.8.3) Annied set 29.23 = 0 O. Mind Thunber considerable (358) Bar O var yo E (480) (320) (4937 Van /2°E 400. Good maple (3'03) van /2'/ (500) Soul gov smit me good. 20 2° E (490) * Hardwood. Va 2/2° E 2100 (320) 1130 (325) 1200 (gar 21 E) (503) (320) 1600 200 30 E 1730 vor 21/2E 1800 (373) 2030 Struck law Syncer Wof Yett port 2.15P.M

8 W. / & A lm S. R. 32 - 19

W/5 H lim J Sect 6, 44.32 beginning S. W forthe sect 6 uning N. O. Hardrood Mostly good neple (370) van 40 F 160 (550) Ban/4. I 200 (330) Van 1/4 (555) Van 1/4 (555) Van 4/2°E (3.45) Van 20/E (3.45) Van 20/E (543) Van 20/E 41575 600 740 Sor 800 1083 12 vo Mille jun good (1283 1400 1600 Brond timber 1700 2034 Aluch lim 38 paces Eg & M good B.M 536.82 Animid 550 14

10 E &m T. 44 R. 33 535 3 xx (530) 520 13/6 (330) 533 1317 820 333 (37.5 -

Jun 2/91 Form Sect 1. 44.33 beginning N. E corner section running S. 17.21 AM B. M. 321.24 Jurn Abet 29.28 = 0 O. Cellar & Tamarach surany (521) 130. Burn Truba (340) (333) 500 Tamarach sinning (530) 860 Old barning (330) 1316 N. 1000. W. O. Honglomate looking very much like a parhyritu greenstone 1170 Tamarach & Edonan angloso 1317 740NOW. Mitamorphice shist 13418 " Shirt containing justes. 1317 seurs to grade into 131/8-1600 adas y jim (360) . 1800 Good Jim 373 2817 Alm h Set line & Comer good. 03. M 331.49 Animel, 585. 7.03 AM.



E Set line Sect 12, 44.32 beginning N. E com running S. E. 55 AM. B. M. 331. 48 Annie st 29.08= 100p O. Soud white pine thankund (33) (330) 390 Swams 470 Good given & Manchined (305) Boo Cedar Divernis. Gos Tamaruch Swerings 1640 Goodfrom & hardwood. (300) 1770 Alder smorness (395) 1840 Cruh 10th woodle (320) 2010 Struck line & corner port (320) 03. m. 497.23 Juniel 320,

14 E /8 M R. 33 T. 44 S. 12 -92 \$60 380 -46. 480 500 450 (305) (Color

E/8th sext 12 44 33 beginning at SE/stapport V running N. U 10. 23AM B: M. 476.32 Anino(2.13 = 0 (456) Da 3/2. W. O. Alder swerry. 10. Crep 10 g/g mich So lider sorcumps ven 20 W 2 or Pine of hardwood (490) 1540 340 varyow. 305 480 Tarmarack surveys. 650 Pint hardwood (305) Mark mic 775 Ora (370) (520) 940 1540 1130 1330 (373 1340 1750 1900 2000 Shows Settling 18 paws Wof /5th port (563)

16 E 1/8 44 B. 33 S. T. 5 33 Lake --(0) 733 (640 155 933-92

5 /8 Th of Sett 1, 44, 33 beginning N. 12 BORM 0. While prin proor quality (365) 80 Cedor swermys (550) 225- White grin good (635) (550) Milater (630) 600 Dead Timber Cherry un mobilersh. (640) 200 1460 Tamarach swamp (680) 1600 Jahr (710) 1875 Pin birch T balown 7.33 1933- 1 2051 Struck Set line 14 paces Effett prost. B.M 37.5.83 3.10 PM. America 760 N. 2000 W. 600, Stri me N. (?) A so oh looking like a gros july sitie greenstom probably a conglomerate I Ledge too st lyng & How the

18/4 Im 08.70 44 2 S. 5-40 540 330 (500) 5-60 (570) 355 X 850 530 530 540 530

Jun 2 / 91 14 Ly Set 2. 84. 33. be youring at 11 08.30 AM /4 statue remming 5, B. M. 534, All Anewill al 18,70,0 (334) gan 75A O. Burning 845 var 30W. 200 Hardrebul. (350) Van 5°W 400 (36 8) Var 30 pl 900 (370) Vandow. 1100 Old farming (543) Van 40W. 1180 Tammach Grangs \$220 Old bring 1400 Mysell Arrangs (330) 1425 Som u of a couch flowing to (333) Var 60 W. 1620 Burning 1700 Tamarack Swamp. 1825 Brums (370) 1873 1900 Streath line 3 per un W 1 /4 State. This quarter steels was deter set by The surveyor of The C.T N. W. PR.R. 10.30 Am.

1/4 lm 20 /4 Ine R. 33 S. // T. 44 5:30 × X -48 (335) 300 132 (380) 530 (565) 500

14 In Js. 11, 14, 33, beginning at N / Mah Verning S. 10.30 Am (560) Var 5/2W. (343) Qu 5 W. 30 Termarach Swenny 200 2 m 50/2 W 400 800 / W 600 (3-53) Van 30 W van 30 W. 1065 C+11 W. A.Br. bromb Jon Cystal Fealls the Hernlock. Conglimorate as shown by we athering 1321 Weathered sprimmen of the above (300). can offset about 100 poers W. 1300 Ola lanning (360) Lango M. 1600 1530 Tormanach swamp. \$ 960 Almon Set line Vy port (563) var 20 W B.M. 501.01 12. M. Aninel, 565, -

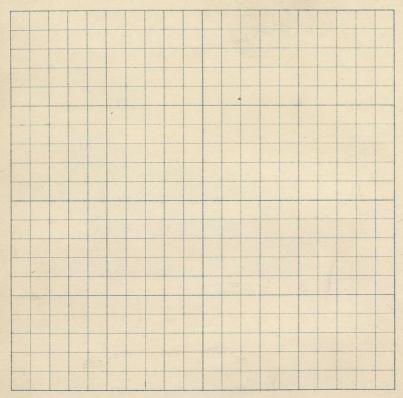
22 W/sA S. // T. 44 R. 33 # 23 468 a di 505 (340) 360 +13 543 330 13 ()//325 530 516 302 13 13

W/ 1 Jest 11, 44, 3.3 beginning at S. W 18 HA State mining N. 12.1502. m B.M. 302.17 Hamil set 28.64. = 0. 30. Odd burning (302) Var 40W1 200 (518) Var 31/2W 328 200 30 W. 1217 N. 360 W. 1360 Stuhi N 70°W. 1323 conglormer ate. Metamorphic schirt 1324 Conglomerate. (There three seem to grade 1325 520 N. Y500 W. Conglower ate. (310) SH 723 - Cellon swarnys. \$60 Old Jaming (310) 1326. N. 900 N /500 W. Conglomerate 1327. " " Coarser "

S.

T.

R.



2.300, M. (530) 1075 1075 1328 N. 1075 W. 1500, Metamorphic greenstine, 14 vo Bunt Timber (485) Van/ E 485 1530 C+ 12. W. Q. D. 1800 1950 Cedar Dramys 2010 Stand Sett line m /4 tot post (463) 3.30 pm.

26 W/8 M S. 2 R. 33 +35 530 520 (485) 320 +33 (490) 525 (420) +30 500 1329 (445) +27 510 Tomara M. swanys.

W/s At Det 2. 114 33, beginning SW Ya to State (2) running N. 410. M (B1837) 0. Tamerach Manys. 130 Old buring (480) (485) 850 Ont crys 1329 850 N. 13:00 W. Suhist (2) Strike EW. Dip 800 N. (2) (470) var 30W. 1030 Hardrovol. 130 o Barnt Krinber (490) 1300 Ontery sam or 1329. (323) 1535 1660 (483) Van 30 W. 1830 1960 Struckline 18 pieces Wy 1/8 th stake B.M. 530,35 4.50 P.M Anema 1 495.

28 E Seathm S. R. 33 T. 🐬 (32) (3:23) 530 580 1330 (570 1331 (370) 1.3 (378) 363 365 530 660 (360) 13 (360) -16

2, 3 Jun 30/91. I Set line of S, 3. 84 33 beginning at N.E Cornel Alemany S. 7.28 AM. B. M. 325 / 8 Aunicl set 28.88 20 (325) O. Mix ed Timber 74. Harchwood-585) 1.330 1600 N. 300 W. Oploritie Shut (3.85') (5-90) (3-75) 8,234 M (373-) Outerp. 1331 1200 N. SOOW. Conglimerate 1450 (360) 1800 1980 C+1 W RR 1995 Atmoh line & Cornerport

30 E Set Ine S. 10 44 33 T. 603 (623) 1332 3-70 133410 (560) 535 350 505 6170 ovin (3.40)

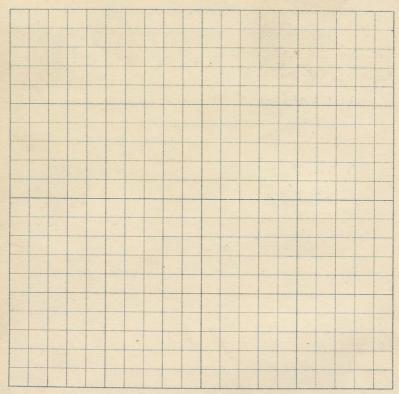
31 E Set em D. 10. 14 33, beginning N. F. Currer gut luming S. J. HM O. Old Danning (360) 130 " N 1886 W O. Fine & course conglosser ale seen best on weathering 223 Outerys. 1333 N 1775 WO, Strike N860E Schrothre rock 323 Outerys. 1334 N1475W30. Conglomisate. 600 Onterprofunglomente Ceder (560) 8 00 (560) 1000 1060 (370) 1200 (5-60) 1300 allow many (340) 14,00 Old binne

32

S.

T.

R.



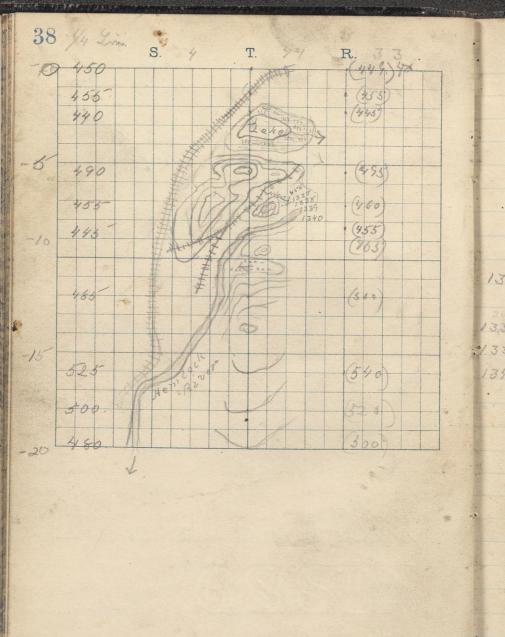
1480 Cedar Anany.
1500 Old borning
1725 Outleys of conglowerth
1900 Cedar Brangs.
2030 Ston ch Sett Im 30 paces & come state
B. M. 488.82.
tresvict 5'40. - 11.25 AM.

34 E /8 M lm 1/0 At. T. 1/4 R. 33 S. /o + 20 (5/) 493 13 +14 LXX 483 303-+ 10 490 480 (510 305 +5 493 (5-10) 370

aund varieting 40 W. E/8 At line of S. 10, 44, 33 beginning at S.E / 18 th State somming N. 12.30 B.M. 522, 73. Aneron of sett 28.8120 1335 NOWO. Conglomerate. (322) 12.35 P.M For 210W. sor Dead adam (370) 200 -300 Rumerons outergs Dimelar to 1335 (330) 400, (300) 930 (370) 320 600 Spence snewy. (300) Too Gard of sweenings Old lanning with Therry under growth (490) (490) (300) (373) Out evon of con glomer ate 1300 Chlu ssborny (310) 16:2 Mixed timber. 15/0 17 50 Swamp. 1830 Ceder Strobenohooll 2003 Struck set line 100 Paus Wof 1/4 A put (503) 2310.0m

36 E/6M 44 R. 33 S. 3 T. +34 525 XX/336 (5-18) 330 533 +27 335 ·WW. 5-20. (300) 420 133

E /6 A / Sect. 3, 44, 33 beginning of S.E. / At state wining N. W. 30 pm (303) o, Harehovell 95 Moarh. 130 Bunt timber (500) 375 08 N.W. RA (305) · Hardwood. (515) 600 (315) 893 - adas many (500) 940 Old barning (305) 1030 Cellar Swarms. 1110 Leave swamp · Mary 1160 Handwood. (305) (500) 1330 Cellar swamp 1400 Hanhoord. (375) 1100 . 1875 Ont com 1336 Not 675 W.O. Conglominate 1800 2022 Struck the low 18 ft & 9 /8 At Make B.m. 324.60 Anum N. 490. -4, P. m.



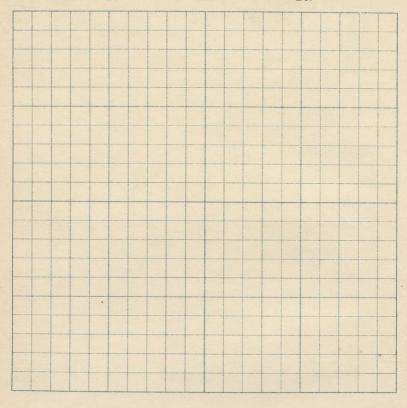
July 1/91 1/4 low Sect. 4. 44, 33 beginning at N. /4 statu running S. 7.26 AM B. M 449.28 farm of set 28.88 + 100/2 O. Cedar swarys (449) 120 C + 1. W. RR. (453 (445 220. Swarrys & Lafre. 350. Though Supe. 424. Chopymas (4950) 1332 1337 1361270 W970. StirheN 5°E Days 60 NW. Jarney shirt There your with are bound within 3024 of each ofter 1338 1337, 1339, 1340 sum to grade into :1/338 each other. 1338 May be a clothe cutting the former. (400) 715 Brad. 830. Hembeh mor 15 paus will (435) 900. On ever of Whist ranglomerate (460 950 Cellar swamp. 1073 Ceder (500) 1200 Amohinol 1383 555 16 50

40

S.

T.

R.



42 /4 line S. 9. T. 495 -22 1320) 500. -25 500 (323) -30 (520) \$80. 500. -35

43 16 km Set 9, 44, 33. Deginning AN. 1/4 port running S. 90. Proud from Hembort to Crystal Frells. B 5-400 (320) 8100 (3-25) 800 1060 1200 (325) 1300 1400 (320) day 11/00 1800 1850 1960 Struck Set line 32 paces W/AM (525) B. m. 500,94 America 535

44 W /8# 1/8. 9 (490) T. 44 R. 33 11 1 1 1 1 1 1 Coco 12 463 Sugary. (400 400. 455 (46 5) 475 XYX 480. XXX 443 N 43-9 2 430.

W/8Th Set 9, 44.33 beginning of S. W /st state summing M. 111.07AM B.M. 442.99. Animice set 28.95-=0 O. Cedar Swarys. (440) Van 3/2/E 460 Crus Sgs wire (2,30) Von 2/20 E 635, Old banna 1100 Ceclas swamps 1235 Old Aming (470) 7003×°E 1400 Cedear stevenings 13 to, Movel Timber 1690. Swary 1770 Handword. 1970 Mad the Crystal Falls. (490) Test girls 2048 Showk lim 12 years £ (440) 1.130.m.



46 W 1/5 M T. 44 R. 33 S. 14 (3×01) -31 1490. (300 54. 13 455 -23 4160 1480 430 201 ne. (450) Test pat. 日日

W/8th Sect 4 44 33 . Verming S. W. 1/5 M stake running N. 1.350.M. (4857 Var70E O. Cleann! 1370 323. Hernlock now Bpaus mide. (450) 380. R.R. switch. 320. Schaft of Hemloch more 1341 Specimen of good are from the Hemlock him 1342. Specimen of lean one from the Herolock mm. N 730 W 1860. Stripe N 450 E 1343 Silvistore so the containing public of yarpar. N. 740 W 1460. Greenstone. 7.75 (180) V. 2/2°W. 1100 Hardwood. 1300. (300) (300) V, 3°W. 1400 (3:15-) Var 5°W 1710 1210 Tam mach swamps. 1860 Cedar hardword 2020 Struck set lim 18 paux Eg/8/ pm (520) B.M. 489,60 Aumel 520. 3.250, m.

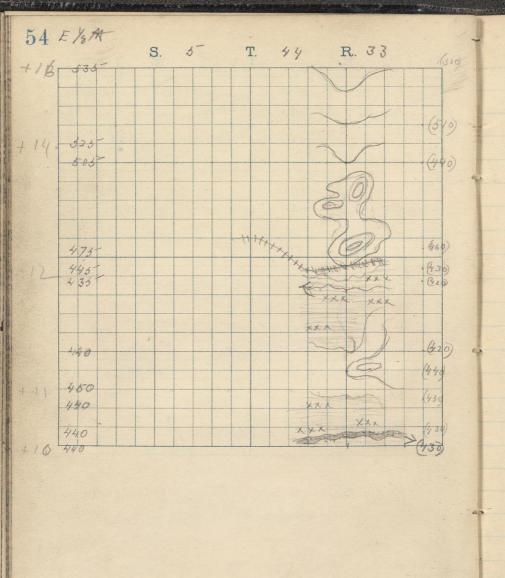
48 E Settline R./ 33 S. 3 T. - 2 450 460. 430 (435) ·XXX XX -16 430

49 I set Im 5 44, 33 beginning at N.E corner unning S. 7.26 HM. B.M. 523.35 Animal set 28.882 = KM O. Hardwood. (3-23) (490) 1, an 60E (463) Van 11.E 3 00 Burned Marking 1,005 652 Crush 5 pt mice Sow Cleared Come 815 Good wall. magin 900. Norgen word 100 Celle swamp. How Cleaned land. (40) Var 20E 1200 1590 Certhan smaryp. 1640 Clemed land 1640 - Clemed Land 1955 Stanch line 14 gans W of Commy good (343) 8.48-1 Me

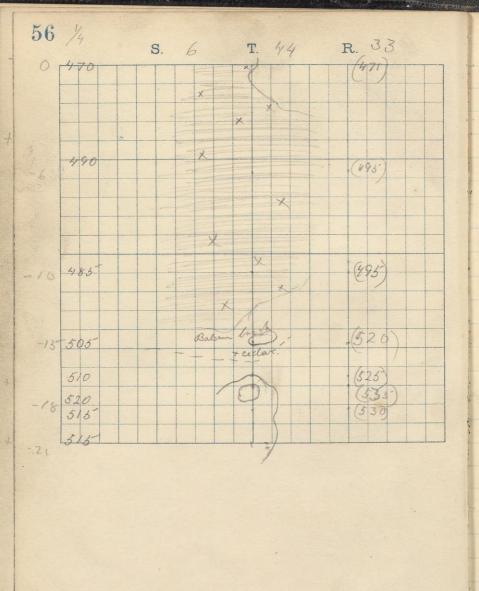
50 £ In S. 8 44. R. 33 T. -16 435 J. Swedne -1180 430 (430) 430 450 w 2 774 P 460 (\$80) -20 na restin (49.5)

I set line of 1. 8, 44 33 beginning at 0 9,05 AM NE comer lunning S. O. Cleared land (430) V. 2% "E ivo Dirany (440) 200 Herelock niver Dopaces wide (445) UGE 407 (450) 362 Bunt land 625 Cedlar Swarmyr. (45.0) 885 Cruck 5 th mide (450) 1000 Hardhovel. (513) 1250 Marsh. Var 2/2 1 1625 Bundt. Com. A. 2020 Shuch Set I'm 11 your Wof Is A post (510) B.M. 479.27 Ahenrich 510. 10.12 AM,

E 18th Sect. 8. 44, 33, beginning at S. E 18th state of lumming. N Amini d st 28.85-20 B. M. 450.34 O. Bunt land. (450) V. GOE 200 (470) 500 500 (470 700 Hardwood. 455 900 1160 H 340 1160 Cedar swams. 1200 Bunt timber 4639 1320 (480) 1500 (500) 1560 (480) 1800 470 1200 1945 Cedar swamp. (430) 2008 Shuch Set line 3 paces & of 14th ground (230) 11.45 AM.



E/8th. Set 5, 44, 33 leginning at SE glights. of Sext 5 running N. 11.30 x M. Cedar Swanys. (430) 64. Hendoch swer Topaces wiche. (230) 270. Burnt slashing (430) 400 (440) 500 Cechar swamps (320) 815 Cruh 5 po wiche 940 Wagen wach. (430) (360) 1030 1270 Hardwood. (440) (490) (510) 1944 Struch set lim 27 paces Ey 15th state a. m. 536.88 April d. 5-20. 1.15 P.M. +16



1/4 Im Sect 6. 44 33. Negening at N/4 post running S. 13 AM B. M 371.13 Aperidat 29 = 0 Var 3/2 F 240 380 1100 2500 40 E 1220 1300 Balsam Virch + ccdir. Van 4/2 E (520) Var 50 F 1473-1520 Maple 1640 1770 1820 2015, Atuch Sil line 75 passo Wof Jugart

58 /4 In S. R. 33 T. 44 5-10 510 (320) 500 480 320 -24 495 (3/5) 490 Buch 485

1/4 Lim Sect 7. 44 33. beginning at N/4 good summy S (333) o. Good On aple Star Sat 30. Nagon word. (330) 23.5 (530) 400 V. 60 E 1320 600 680 Cedar swamp (305 975 Houchword & sprun (305) (326 1100 1/30 1200 V. 6°E 1400 1800 Brich Mayle + cedear (813) 1937 Struck line & /40 port (373) B. M. 482,81 Aneroid 5-15-0. 11,55 AM-

59

60 W. 1/8# S. R. 33 (525) ± 5-35-465 BW (460) 0473

W/s the lime of Sect 7. 44. 33 beginning at S. W. 16 Altstatu running N. 12.101.M. B. M. 473,06 Aundald. 28.85 = 100 A. (4.73) V. 6/2 E o. Old burning. 125. actor swarp. 475 Old Running 300 750 Maple 900 (498) (505) V70E 1300 (515) Anniel fullang the after should (300 t) 1960 Alm h Seit Im Epaus Wy 1/2 th port Wagon wall. (530)

W/s to line of Sect 6.44.33 beginning S. W. 1/2 spert running N. 2.15 1 O. Muyle good,) 330) V. 8° E 833 V 9'E 200 330) V 90F 373 800 Gedlar & birth myl (535) (335) U 80F 807 (30) 860 2,300m (303) 900 500 V. 905 13837 1070 1120 Tamarach swamps (880) 12 or Hardword. (490) 3037 1250 1330 (485) 1300 V. 8/2 H (490) 1600 1675 Termer och In very (480) 2 80E V. 8/2°E 1800 2030 Show in Set line 17 grans E of 18th port Americal 475 03. M. 474.97 402 111.

(361) Ju 64 E. Ymi R. 34. T. 44 S. 670 570 585 (3 40) 580 (500) 560 550 555 545 535 (3/1) 540 Marine

Orange line bothown 33.34 N. 65 E Im Sect. 1. 44. 34 Regimning A N.E 08.30 AM. corner Muning S. 03. M. 559. & Auroidset. 29.1-0 pt. o. Good maple. (300) 370 V.71 200 600 (300) V.5"E 330) V40E 1800 2018 Shuch Sex low & corner port. (550) 9.30 A.M. Wagon wach

66 E Lim R. 34 44 S. 12 T. (559 550 (340) 540 5 35 5-25 (3.20) 520 (300) 500 Marchivas 495 (490) 490 Bearing (300 460 * ** 450 XXX 475 CO XXX 455 -6 (A)

Prange line televan 33.34 E Im of Sect 12, 44, 34 beginning at 19.30 AM. N. E. com post & reming 5. D. Sooil maple (330) 400 Variation accessory to Preny line 13237 1000 Cotton mugh & Winh. 10.20 AV (500) (395) U5º£ 1200 1400 Old burning. (460 1700 Cedar severy 1880 Old binning (475) 2018. Struck Seit line 12 paces Wy Corner Sport. B. M. 449.36 April 455. -11.03 AM

68 E/sM. Handword (520) R. 34 S. 535 533 525 (435) 435 425

I. 1/2 At Set 1. 44. 34 beginning at SE 1/8 At just running . N. O. Brack. Hehrhood. B20) V7ºE 338 V7°E 200 (343) V. 70E 400 365 VYOF V 7/2 H (370) 2,220.111 (3.03) 1200 1400 (333) V 80E 1600 (365) 2003 Struck Se Tiling + 18 At mit. B.M. 561,64 3.07000 Awwid. 570 -

72 W. /s M. R. 3 \$ S.

July 1/91 73 W/6 th Set 11, 44, 34 beginning at 07.20 AM. N.W. 1/8 M post running 9: Assured Elevation 510 29, 13 = 0 15 O. Road. Old Carring in the undulust (510). 300 500 Cedar swerrys. (500) For Old during 800 8. AM (300) 820 Wagen ward. 1000 Paint siver & Opaw, wich (425) 1200 Otal aming notes undulant (483) (330) 2055 Ahuch line 29paces L of 18th port Bm 453.87 Amrid \$35. - -68 8.45 AM. B. M 453.87 Corrected Juin 1857.

74 1/4 Line R. 34 T. 44 S. // KJL Y 460 (460) 455 485-(460) 430 390 (390) 420 425 430 453 465-455 0 444

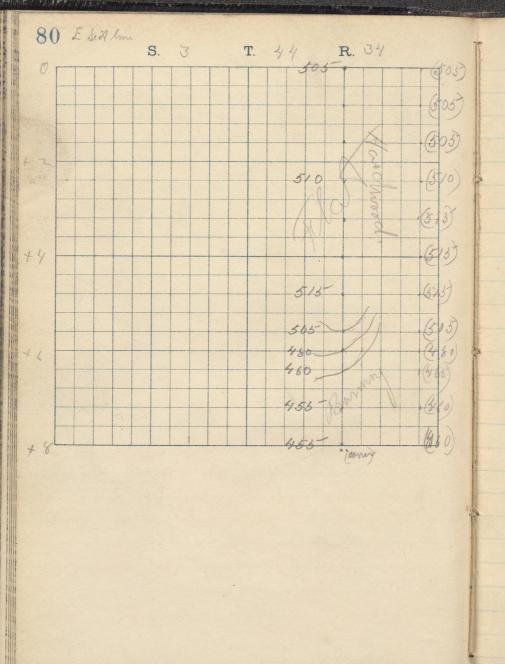
75 1/4 Lim / Set 11, 44, 34 bigining at 5 14 post runny N B. M. 444098. Aumal set 29.03 - 018 o. Old barring. · (444) 25 40 £ 200 (465) 325 (433) 400 (430) 4.30 (423) 23°E 600 (420) 190 Barnt mm 60 paro mides (390) \$ 7.3 9.35 AM. (430) 1245 Wagen wad 1.360 1200 1808 2040 thuch Set line 20 paces & of 1/4 port. (465) Nagon soad. 10.25 AM.

76 /4 Em T. 44 R. 34 S. 2 475 455 (475) 470 450 XXX 13 443 14/1345 460 430 (460) 其

1/4 I'm Seit. 2. 44, 34 begianing at 5 /4 port & summing N. (363) V4°£ O. Old Obarning. (160) 200 (4757 1005 1245 N. 880. W. 1000, Stripe N 60° ET. Dys. 65° antigital having a schister character in some places. -11.2374m. (3/20) 1080 De decl. cedar swarmys. (160) 1250 Outery some or 1345 (470) 1280. Old Anning (490) 1320 1400 Dead cedar swarms. (275) 1475 Old Curning (475) 1300 On upon sambe as 1345. N/600 W 1000 Stripe N 80° E Dys 80° N.W. Same as (1345) 1650 Dead certar Invery (4935) 1750 Old browing 1978. Shuch lim 12 paces Ef /uport. 05. M 467.88 Aprinch 490.

78 W/58 R. 34 S. 2 480 +12 460 +23 450 +30 470 465 \$35

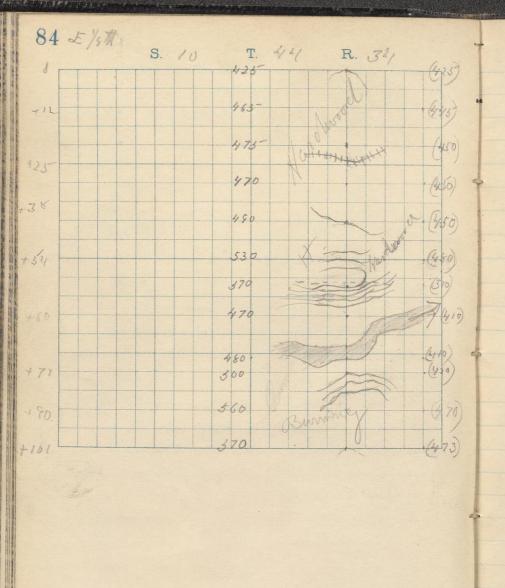
79 W/3 to of Set 2. 44. 34 beginning at NW/8 th post uning S. 16. (400? M. B.M. 487.99 Auch UNT 29, 61 = 0 0 O. Dead cedar swary (387) 316 Outery. Similar to 1345, 1346 Strike N. 850 E (470) 800 (450 1200 4,33 1600 (425) 1760 Aliles swamp. (3135) 1820. Crup Dogt mich. 1992. Struck Set lim + /stA nost (4/5) 3.02.0.11 Elevation 449 B. M. 327,37 127 4.020 m. Anniel 480. -47



July . 7. I Seit line of Seit 3.44, 34. Regimine at N. I com of Sert ranning S. B. M. 505.35 Amend Set 29.11 = 010. O. Mixed timber, (505) 24°E 200 230 400 Har Morrel Morth marke. sor (510) 600 1400 (480) N 40F 1505 16 er Otal lanning with (303 P160 1800 2035 Struchline 10 perus & of colour port. (460)

82 E Seit line 44 10 T. R/34 S. 446 460 435 +/6 460 \$60 380 390 +21 440 450 465 +27 465

83 & Sed lim Seit 10, 44. 34 beginning at N. E commensuring S. 8. BB-AM. O. Old barning rent andrews. (360) 2+ 31/2 E 10. Wagen Soul. (430) (430) 22/2 E 400 400 (425 8 or Wagen wal to dam 8.35 (423) (443 900 Doublinoon. 971 AM (4435 1000 1100 Paint noon 75 pares with (370) 1200 Old bring with underlook (378) U3° 5 (39.57 1405 (418 23ºE 1100 (4)357 1840 (440) 1940 Struck ern 21 paces Wof come post B.M. 467.98. 11.05 AM. Annie 440 -



85 E /staling Set 10, 44. 34 beginning at S. E /s th port of running N. 2 11.25 AM. B. M. 473.36 Amould set 28.29.=3/4 O, Old barning with under benta (473) V. 2/2 L 230E 108. (470 200 (426) 23°E 400 483 Parit min Gopaer miche (410) 708 (310) 23½ E 860, Hardword 10) (880) 1000 1300 1400 1510 Wagen wall (95-0) 1600 1445 1940 Ahnch Set Im yaan Wy 18th put (123) 1.35 P.M.

86 天 次 棋 R. 34 44 S. 3 +151 100/3) 600/2) 560 53-5 543 4127 350 340 520 Parks r From. 320

E/8 th Set 3: 44.34 beginning at SE 16th grit unning N. 0 1. \$100. U1.300. M (320) 2560F 200 (430) 400 (430) 600 (325) V6 F 800 (420) UGOE 1000 (330) 2 (335 3) V 8° E 1680 (300) 1800 2018. Ston An Sext line 22 paces W. of 1/5 th stail B. M. 554.73 0) Aunice Goo 2.450, m. + 154

1/4 Line of Det. 4. 4.4. 34 beginning at N. 1/4 postranning S. 7.450 AM. BM. 537.5). Ahmid set 29.08 = 200, O. Hardwood. (537) V. 5°E 230 313-(330) Low 980 1000 1120 330 1300 1330 14,00 1329 1600 (370) V20H 1800 (303) I was Struck love & /hyport 9. Hm.

90 1/4 Im S. P. R. 34 44 T. 465 460 470 400 - 30 (\$30) (370) 510 (365) 300 (370) -70

1/4 Ine of Sed & 44.34 be ginning at N /4 Stake + remain S 0 9. AM. O. Partly brunch Marchen of (303+ 2,205 190 Mortal (300) V. 2°E 300 Old downing for Alder swefrys. 450. Creek 3 pt mide. 500 Burnel Hamarch & cler :. (375) 5-15) V. 201 660 1 ove Partly land 9, 35 AM (5'50) Then chrowd. (550) (5 70) V 2/2 F 1600 1200 Mixed truber. (3-63-) 1800 1935. Struck line 107. paux Wof 1/4 post (570) B.M. 480,53. 10,15 Am Merrid 550,00

92 W. /s # s. 8 44 R. 34 (485) 160

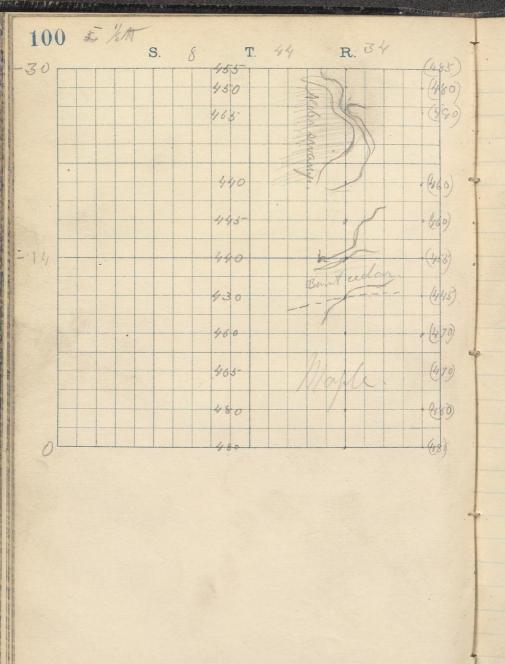
93 W/Att Set 4, 44, 34. beginning at S. W 1/3 At yout running N B. M. 505.34 Aremid out 29.12 - 10000 6. Handwood. (5.03) V. 4:E 200 + mixed timber 231 400 Path lamed has showers. (300) V3/20E 600 V 2/2 E 753-800 V. 4°E 900 Bund lamarath y cololer 13/20 1600 Alder smown. 1124 Crah 3# Mich. (470 11.25 AM 1124, 12. M. (885) V.5 L 12 or Burnel tomerach + colian (183) Bor God barring with underfrush, (negel in) : (495) V440 H 1600 1870 1990 Struck low 61 yours E of 18th post 12.400m. 94 W/5# 4 R. 34 S. (570) (366) 840 330 305 (310)

96 £ Yim T. 44 R. 34 S. 5 520 1xxx (\$ 20) 305 (493) (493) (490)

sprily 8/21 E Som Set 5. 44. 34 beginning at N. E. comma post & running S. B. M. 532, 34 Anniel St. 29, 33 = 0 8. 1 Henchwood (532) V. 4°E (530) (30) 25°E (323-) 600 Cedar swarms 800 Mixed hardrind . 830 AM. (325) B20 1200 1400 (495) (393) 1800 1973 Shuch Set lim + coner good (490) 9.07AM.

98. E Det Em S. 8 T. 44 R.34 23 465 (493-) 470 (500) 485 (495) 483-(329) 185 -34 (329) 483-(3210) 300 (3/0) 300 300 (300) 510 (550) 300 -48 (nowas)

E. Set line of Sea. 8, 44. 34 beginning at N.E. comer running S. 9. 10/AM. 0. Mixed herchrotel. (480) V.5"E 120. Burnel cedar tamarach. A 937 200 (500 400 (5-10 . 360 660. Cuch 3 pr mile dry. (493) (320) 800 9.46 (323) 0) 1100 Mixed timber. (320) 1200 1400 Maple. (540) 1340 1500 (340) 2700 2 vov Struck line 22 paus 5 of Corner (550) B.M. 502.33 10.20 AM.



101 I 1/8 M Det 8. 44. 34 beginning & SE 1/6 th post & euming N. V10,40 AM. B.M. 481,77 Audiclant 28.13 = 100/4 1. Maple. (181) U 5ºE (380) (370) 7 cedlow 800 Band ceder + tamarach. (445) 1000 11,107m. (4535) Anniel falling 1000 pprobably 15 gt lower thund ou 1030 Erech 37 mich day. (460) (460) 1530 Alder Stramp. (350) 1733 Barning (490) 1775 (480) 1930 Struck line & graces Wy 75th good (485)

102 E /8 M 10R. 34 14 T. S. 500 (20) Heremost 493-(5-33) 少处 \$80 (5° p5) 470 (503) (00) (183)

103 E/8 th of sect 5, 2, 4, 34 beginning et S. E 1/2 th port & remning N 12. m. O. Party burnel har thood. (485) V. 5°E (300) 200 400 (505) (3-23) 12,30 1000 (333) 1400 Hardwood Maylle 1600 Handwood gartly Kum N. B. 35) 2035 Strick Det line 6 paces & 1/8H just . B. M. 506.93! Anivil. 560 6

Blank Pages

104-115

Skipped

116 1337, Japeny Schrit 3°E of N. Dip 60° X. 1338 1339 1380. There four so the are found within 30 ft of the Stripping the harm the stripping the harm the make out 1338 Owbably a Dylu. The other Am 1337 1338 1320 grade mhe each other 1341 Specimen of ore Hernlook 1342. Specimen of lean a dal. 343. Suhishu with containing petter of far pan 730 N. 1660 W. Struke N. 432 1344. Greenton Marino Atribe. N. 45-E * 1332. Jayery Schrick 1338 Sehnt 1339 Chlowtic solver and Jarger 1340 Conglowerate 134 A Sohnt

117 + 1343 - N. 880 W. 1000 Stripe N. 30° 1= > N. 60 W. 650. Buch having as bathistor character 1346 N. 1600 W. 1000 N. 800 £ N. 80° 80°Dy

118 1318 A grouphyritic grunation apparently Short ru 0317 1318/ hopkosed 1319. 1320 1000N 1030N Blinge (5) N. Conglomerate shown by preattering Very leage boulders let for drawn for 1322 Slaty min Strik North Din to. S, (3?) 1323 (3 Conglosher at Atrich N. 70°W. Dy not appenent. 1322 1323 13221 Seem to grade into each 1322 Extends whom 100 pa un E 1324 EN 470 W, 1000. 1326

119 1328-1327 -Very extensive But crys this he is 1328 / 1328 1328 X.N. 1329 5 W, Days 801V 830 N. 13 you W. 1330 Conformate 1331 1332. Fine course con flomerate seen best m weathern, N. 1886 W. 1860 1333. Amethor so of Stripe 86°N. E N. 1773 WO 13340 Conglowrate showing weaking 1475 W. 30. 1333 Buch

120 5 1/4 7 12 mm Maple 10 ff N. Com 308, 43 W. S. 1/4 7. 19 m brich 9 ff N. Com 4 8 8. 37 1, 57. 25 32,33 /8 H. 476.32 14 por 6. 471.13. W./8# 6. 474.97

2.30 3.30

