93

FIELD BOOK

360

Send this book to
Co Surveyor Com. Co
Walker
Minn

+ 33.75 W.T. MC No 6 - 10 ft N of true MC
Tower W.T. MC site N on flag at true Cor - 23-24-25-24
Called N. take ties
N.P. 1H N 44°33' W 26.15
twin W. Oak - 5.5 are S 17½ - N 67°28' E 17.30
R.D. on bank. 9 S 67°30 E 15.80

105.5

Spains I M at cor.
to Sec. 23-24-25-26
is 8 inches or 6.5 off to the
N E of true point for cor.
we set 60d spike at true pt
Tower 60d spike sets S on
true pt for M.C. and
set hub 10 ft N of M C ±
at 57.55 S of cor set I M
which is 33 ft S of ℄

Spans iron set .10 to close to steel spring
+.55 to close to N.P. stamp N E 83.45
Tower true pt for cor S.1/4 S. on True
pt for M.C. No 6 called South
set Wit MC 10 ft N.

Ties to Sec 23-24-25-26
R Oak cluster of 2, one 4" one 9 use Sane
= 9" bears N 47°56' E 54.23' Bottom Blaze
R. Oak cluster of 3 trees 5-6-9" use 9"
tree East one. bears. N 5°06' W 41.75'
Bottom Blaze

from 33 ft K/w hub chain S at 105.5 true
bod a spike + 99.15 hub + 70.25 hub on Tow +

—STATEMENT—

Walker, Minn., Nov. 19th 1954

M. Roy S. Johnson

Longville Minn

In Account With

HAROLD CURO

COUNTY SURVEYOR

CASS COUNTY

Surveying and Platting	
Sunny Acres in lot 2 Sec. 23	
140-29	$ 350.00

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2) Walden Twp ① 137-29.

July 9-1914

Walker & Price Reuer on P.M. freight after looking up notes

July 10-1914 Bert and Merrill G. Wideman take the team and drive me to iron bolt set by Ramzy and I for 1/16 N. of Sharp stone @ Cor 1-7-8-17-18 137-29 over which I set transit and put in new B.T.S. viz

Oak 6S 47° 53' E 47.27 to nail head
" 6N 64° 04' E 62.15 " " Bent
by Merrill Wideman in driving

Back sight on red flag @ Cor 1-7-8-17-18-137-29 run North thro iron 1/4 bet 7 & 8 - thence on to intersection with old Govt toll road set tubes and stakes marked "Road Cen - Sec Line"

July Time Sheet 1914

	8	9	10	11	12	13
John W Cuts	0	1	1	0	0	0
Expense	0	$1	$1	0	0	0
Merrill G. Wideman	0	0	1	0	0	0
" " Team	0	0	$2	0	0	0
Nick Hohman	0	0	PM 1/2	0	0	0
Adolph Anderson	0	0	PM 1/2	0	0	0
Bert Wideman	0	0	1	0	0	0

John W Cuts

140 - 30 Mackinaw

Established my camp as Head Qrt. for Survey of Base Line. It being my first Day.

July 8. 1911.

Left Sylvan at 9 AM. Survey Team arrived Bedford at 11 AM Left Bedford Via M&I at 2.25 PM Arrive at Tremont at 3.30 PM R.R. Fair Bird to PR .90 L Left Pine Ridge at 5.20 PM Via Levy Team enroute to Twp 140 Rg 29 to establish sec corner. Found at Mike Smith's 7.00 PM One day for Geo. Stobel by night. Sunday July 9. Mike Smith Via Bird to Mackinaw. No Surveying for the Day. Over night at Mike Woods.

July 10 Monday Sec 30. 140-30.

Received Hand B. Transit and a 100 ft steel tape. Left Pine Ridge with Harry Shaw Chainman. The usual Field Same Team to break roads and carried a camp to the 1/4 post between sec. 19-30. Set mound and stake called for "N.P. 10 S19 W 23"., "M.C. 12 P.O. 4 W S 19". Links. We find the stumps of both old corners badly broken and rotted. From which we

Robert Phillips

found a wood hub previously established by Sears for the true ¼ corner. We put in the 4th hub and place 2" + 4' galvanized pipe in a bed of cement for the true corner.

Sears to the ¼ corner between Sec 19-2 Gov't notes call for "N.P. 10 S 68 W 80 lks N.P. 10 S 27 E 285 lks.

We find a wood hub previously set by Sears for the true ¼ corner. would we drill up and put in its place a 2 inch galvanized pipe 4 ft long set in a bed of cement for the true ¼ post. Went for sight Stayed with Chas Hood Sears and I got a bill for Sears Exp. Horse Grain and team getting ½ day in the P.M.

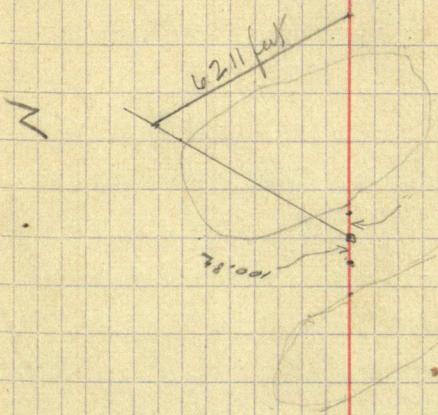
July 14. 1910.

Went a foot to the corner of Sec 13-14 23, 24, and North to the corner of 1-2-11-12- Established the corner and drove a wood hub. Gov't notes call for N.P. 13 W 89.24 75 Br Oak 7 N 23 W 21 L., Ash 8 S 9 W 21 2. I find two trees N.P. and Br Oak but the ash pin there is no trace of.

Bob Phillips.

14A-26

5



(6) (1)

Nideman and Bowman Levels

Pine River Minn July 10-1914

Beg @ Pine River near 1/4 on N. side of 7-137-29 run N. 1/4 mile to marsh

BM	+S	HI	-S	Elev	Remarks
				100.00	Top of water in Pine River
	10.44	110.44			
TP	6.11	115.15	1.40	109.04	
TP	4.09	116.68	2.56	112.59	
TP	4.78	116.63	4.83	111.85	
			3.63	113.00	on ridge
			11.35	105.30	Edge bog

This shows that the water in so edge of marsh is 5.30 feet above river Geo Bowman Rod Cuno Level

Going to NW end of big open bog in Sec 6-137-29 we take line West across road

Top of water in bog E of road 100.00

" " " " " W " " 101.40

John W Cuno

140 - 27 (A) Island Lake (7)

Mon. Nov. 13 1911

I leave Backus with Henry Vanesps as driver arrive out to Mark Snells at 5 P.M. Paid Henry Van $5 on acct. Over night with Mark Snell.

Wed. 14 1911

Beg @ 1/16 cor. West of 1/4 cor on North line of Sec 10 - 140 - 27 run South on true meridan Mag. Var 11° 30' @ 206.85 Hub. 500 cross road bears N E & S W. 986.20 Hub. 1320 temp. 1/16 cor. 1668.80 Hub. 1785 S W. cor. of Mark Snells Log house bears East 10 ft. 1935 cross barn w of about 6 ft from West end. 2400 enter swamp 2400 Lv. same. 2640 set temp 1/16 corner. 4070.10 Hub. 4929.40 Hub. @ 5289.50 true 1/16 cor. as established by me bears West 10.50 ft.

Quit for night & rest night with Mark Snell. Wm. McVay and Mark Snell assisting in survey.

Recorded
Harry Todd

140-27 (B) 2. Orland Lake

(8) Nov. 15 1911

We go to cor. to secs. 9-10-15-16 -140-27. This cor. has been established by J. Curo and an iron monument set here. We run East from here Mag. Var. 8° @ 220 enter Swamp 830 Lv. same 424.40 Hub 600 enter Swp. 1160 Lv. same 1322.21 Hub. Temp 1/16 cor. 1340 cross N+S survey line 1771.70 tack in log. 1840 cross wagon road. bears S 45° E. 2000 enter swamp 2100 Lv. same 2250 cross wagon road bears N 60 W. 2616 Hub. 2644.42 set temp 1/4 cor. on S side of sec 10-140-27. We look for Bts. here but find none so continue line E. 3070.70 Hub. 3130 enter Jam Swamp 3900 Lv. same. 4223 Hub. 5000 Hub. @ 5326.95 true cor. bears South 80.20 ft. This cor has been set by Curo too.

Quit for night. Overnight with Mark Snell.

E. G. Williams, Mark Snell
Walter Williams. W M McVay.
Assisting in Survey

Recorded

140-27 (C) 3 Cleland Lake (9)

Nov. 16 1911

We go to cor. to secs. 14-15-22-23 - 140-27. This cor. has been established by J Curo and an iron monument set here. We run west from here @ 8° V. @ 399.40 Hub. 7.72 enter Jam. swamp bears N 10° W 15.92 Ld. same bears. S 60° W 1779.25 Hub. 20.53 enter Meddow bears. N & S. 2647.24. temp 1/4 cor. Nothing here so continue. 2650 Ld. Meadow N & S. 3223 Hub. @ 5294.48 set temp cor. to secs. 15-16-21-22 -140-27. Here the Gov. notes call for Bts as follows.

BASSWOOD 7 & 6 7° 30' E 29 MAPLE 6 S 2° 15' W. 17
MAPLE 8 N 83 W 49 MAPLE 10 N 7° 40 E 5.3

We look for B.Ts here but find nothing so quit for night over night with M. Snell.

E.G. Williams Walter Wilbraim
Mark Snell Wm McVay, Pete McVay
assisting

Recorded

140-27 (D) (4) Okland Lake
(10) nov. 17 1911

@ Hub. 5294.48 continue West same Var. @ 6104. Hub, 6529.30 Hub 7005.70 Hub 7915.50 Hub 7915.50 Hub. 7915.50 Hub. 8403 Hub. This Country there here is hilly and bunby. Quit for night. E. G. Williams, Walter Williams Mark Snell Over night at Marks,

nov. 18 1911

Mark Snell & I go to Remer

nov. 19 1911

Come back from Remer.

Recorded

140-27; (E) (S) Island Lake (11)
Nov. 20 1911.

@ Mnd. ~~Mn~~ 8433 continue Transit line West.
@ 9620 enter Marsh bears N & S. @ 9777 leave Marsh bears S 20° W. @ 9828 enter swamp. @ 9903 leave same bears N & S. @ 10590.34 set temp cor to secs. ~~20~~ 16-17-20-21. where Govt notes call for

Birch 12 S 34° W 25 lks.
N Pine 18 N 66° 30 W 33 lks.
Spruce 8 S 75° E 54 lks.
Birch 12 N 89° 30' E 49 lks.

We looks for Bts here but as the country has all been burned over and most of the trees down we do not find anything

Quit for night.

E. G. Williams Mark Snell
assisting

Recorded

140 – 27 (P) (4) Cleland Lake.
(12) Nov. 21 – 1911
Continue Transit Line West
same Var. @ 11487.30 Hub.
11526.50 enter heavy cedar
swamp. 12000 Hub on little
point of high ground on old
logging road bearing N & S.
We cut line the rest of the
day and quit for night
E. S. Williams, Mark Snelf
assisting

Recorded

140-27 (6) (7) Okland Lake (13)
Nov. 22 1911

continue Transit line West @ same Var. @ 13 237.5 0 true
1/4 cor on south side of sec. 17
-140-27 bears South 44.50 ft
We search here for Bts. and ~~find~~ find none, but after searching awhile find old Gov. stake still good. We check up to find Bts. and find old stump in the moss. After setting cor. We ~~finite~~ in the following Bts to it.

cedar. 6 N 4° 22' W 26 ft.
cedar 6 N 53° 35' E 23.60 ft.

We then go back and check our line back at the cor to secs. 13-14-21-22-140-27
quit for night over night @ Mark Smells.

Walter Williams, E. Gwilliams
Mark Smell,
assisting

Recorded

140 - 27 8 Island Lake Twp.
(14) Nov. 23 1914.

We go to 1/4 cor. between secs. 15-14-140-27 previously established + set by Cuno run S. @ 8° W. @ 35.7 Hub. 960 Hub. 1050 enter Swamp bears East + West. 15-12 old R.R. Grade. bears. S 45° W. @ 2300 Hub. @ 2645.50 Cor corrected for E. + W. bears. E. 50.88 ft. We check our line back to Hub 15-12 at the old Grade going East. 29.03 ft. making the distance from 1/4 cor. between secs 15-14-140-27 to old R.R. Grade 15.05 ft. Quit for night over night with Mark Snell.

E. G. Williams, Walter Williams
Mark Snell assisting

Recorded

140 – 27 9 Cleland Lake Twp.

(13)

Nov. 24 1911

We go back and finish checking over our line between 15 – 16 – 140 – 27. We then check over our E + W. line on S. side sec. 10 – 140 – 27. also set the 1/4 cor. west of the 1/4 cor. on South side of sec 10 – 140 – 27 quit for night

Mark Snell E. G. Williams

Walter Williams

Recorded

140-27 (10) Cleland Lake.

(16) Nov. 25 - 1911

We go to Lot on S. side sec. 14-140-27. run South @ 8° W. @ 33 enter Cleland Lake, 1604.30 Hub on high ridge between Lake and Tam Swamp. E & W. @ 3770 Leave Tam Log bears S 75 W. @ 3874.70 Hub. 3925 enter Marsh bears E & W. 4025 leave same bears E & W. 4275 Hub.

quit for night Over night With Mark Snell.

Mark Snell, E. G. Williams Walter Williams assisting

Recorded

140-27 11 Leland Lake (17)
Nov. 27 - 1911

@ Hub. 4275 continue South at.
Same Mag. V. @ 4913 Hub. @ 5280
Set temp 1/4 corner on S side sec. 23
140-27. We search for Bds but
but can find nothing so continue
transit line south same Var.
6 4 L 8. 20 Hub. 5576. Enter Lake
70 68 Leave Lake & Enter marsh.
quit for night as it is storming
Mark Snell, E. G. Williams
Walter Williams, Frank Daniels
Over night at Mark Snells

Recorded

140-27 12 Orland Lake,
(18) Dec. 4. 1911

Continue Transit Line south from Hub 7068. @ 7222 Leave Marsh. bears S 80 E 7270 Cross old Tote Road on sea wall bears. E & W. 7275 Hub on Sea Wall 7290 Enter marsh. 7570 Leave same. 7774 Hub. Hub. @ 8111 Enter Marsh. bears E & W. 8400 Leave same. Quit for night.

Mark Snell. E. S. Williams
Walter Williams. Frank Daniels

Recorded

140-27 13 Arland Lake. (19)

Dec 6 1911

Continue Transit line South
Same Var. 8400 Leave Marsh
8500 cross old tote Road bears
E & W. 85-66.50 Hub. 7756 enter Tam
Swamp. 9600 cross creek bears
S 25 E. 10250 cross creek bears
S 85 E. 10560 set stump ¼ on
South side sec. 24-140-27.
We search the rest of the day
~~night~~ here for cor. but find
nothing. The cor sets in a
cedar swamp and we can find
no trace of any gov. survey.
So we abandon survey line
here Quit for night.
Over night at Mark Snell
Mark Snell, E. D. Williams
Walter Williams. Frank Daniels.

Recorded

140-27 14 Island Lake
Dec. 7, 1911

Beg at M.C. to Fractional sec. 23-21
140-27 Run East @ 7°54' Var.
@ 1635 Leave Lake We look for
for Bts. to M.C. but find Nothing
so continue East 1784.70 Hub.
@ 2100 Hub in N+S. Survey line
@ 2249.61 set stone ¼ cor on S side
sec. 23-140-27. Nothing here so
Continue East. @ 2490 enter Muskeg
swamp. bears N+S. 2804 leave
same bears N+S. 3345.40 Hub. Hub
3471 crosswire fence bears N+S
enter tam bog bears N+S.
@ 4585.9 true cor to secs. 23-24-25-26
bears N 49.35° ft. We look for
Bts here and after digging down
in the moss find old Govt Marks.
from which we set the cor.
With new Bts as follows set
@ 8° V.

Tam 3 N W. 13.50 ft
Tam 3 N E. 54.40 ft.

we go back and set the ¼
cor on south side sec. 23 140-27
With new Bts. as follows
Pop. 4 N E. 7.30 ft
Pop. 4 N W. 6.50 ft.

Recorded

(21)

quit for night over night
With Mark Snell. Mark
Snell Walter Williams
E. G. Williams Frank Daniels

V Recorded

140-27 (22) 1/4 cor. Island Lake Imp.
Dec 8 1911.

Using 1/4 cor on south side sec. 23 - 140 - 27 as Station 00 for angletion of island Lake. Angles taken @ 8°30' E.

Sta. no 00 South 321.40 ft to Sta No. 1
Sta. no 1 S. 75° 12' E 323.70 ft to Sta No 2
Sta. no 2 S 27° 23' E 219.40 ft to Sta No 3
Sta. no 3 S 11° 16' W 336.40 ft to Sta No 4
Sta. no 4 S 26° 05" W 517.60 ft to Sta No 5
Sta no 5 S 41° 35' W. 208.50 ft to Sta No 6
Sta no. 6 South 146.60 ft to Sta No 7
Station no 7 being a point where 1/4 line intersects old E & W Tote road. Quit for night over night with Mark Snell Work Snell Walter Williams E G. Williams Frank Daniels assisting

Recorded

140-27 (23) 17 Orland Lake Twp.

Dec. 12 - 1911

Beg @ N. post West of S.E. cor sec 14 140-27 previously set by J. W. Cuvo Using 1/16 cor. for station 00. Run as follows

Sta 00 S 64°38' W 288 ft to Sta No1 — 188 ft Swamp.

Sta 1 S 10°15' W 401.70 ft to Sta No2 High Land.

Sta 2 S 41°30' E 154.40 ft. to Sta No3

Sta 3 S 77°43' E 90.85 ft to Sta No4 all swamp.

Sta 4 S 40°53' E 187.90 ft. to Sta No5 — 160 ft swamp.

Sta 5 S 55°30' W. 320.30 ft. to Sta No 6 — High land

Sta 6 S 66°30' W 221.60 ft to Sta No7 —

Sta 7 S 35°25' W 869.80 ft to Sta No8 — Cross Narrows 591 ft from Sta 7

Sta 8 S 6°05' W. 372.45 ft to Sta No 9 all swamp.

Sta 9. S 29°10' E 776.60 ft to Sta No10 464 ft swamp.

Quit for night Mark Buell. E.G. Williams Walter Williams Frank Daniels. Discharged Frank Daniels + Walter Williams.

Dec. 13 - 1911

Continue Angleation of Lake.

Sta No 10 S 52°22' W 328.30 ft to Sta No 11 High Land.

Sta No 11 S 22°30' W. 774.90 ft to Sta No 12 — 225 ft Swp

Station No 12 being connected by line thru sec. 23 on Sea Wall of Lake.

Mark and I go home and make a lot of pins for chaining one day for Mark Buell E G Williams

All angles taken at 7°35' Var.

T 140 - R 26 - 141 - 26 Island Lake Twp

(24) Dec 14 - 1911

We go to N.E. cor sec 1 - 140 - 27 previously established and set by J. W. Cuno. Here we chain West 100.32 ft and put in S.W. cor sec. 31. - 141-26. We found no Bts. here. We then run a line East true Mer. Mag Var 8°30' @ 264 leave Meadow bears N+S. @ 453.60 Hub. 663.90 Hub 690 enter bog bears N+S. 1890 enter Lake N+S. We tried to get a hub across the lake but it was snowing so hard we couldn't see. So quit for night Mark Snell. J H Munch Chas Sandford E. G. Williams assisting

Over night at Mark Snells.

140-26-141-26 Island Lake Twp

Dec 15 - 1911 (25)

@ Hub 1890 Continue transit line across Laura Lake Same Var. 8234 Leave Lake enter Tam Bog. 9344 Leave Bog N+S, 9360 Hub. 9620 Enter Tam swamp. 10025 Leave same bears N+S, Quit for night. Over night at Mark Snells. Chas Sandford E.G. Williams Agmen Mark Snell Chainmen

Dec. 16 - 1911

Continue transit line east. @ 10409.50 Hub. 10510 cross county road bears NE+SW. 10560 set temp S.E. cor sec 32 - 141 - 26 Nothing here so continue. 11,934. Hub. Quit for night Over night with Mark Snell.

E.G. Williams Mark Snell Chas Sandford assisting.

141-26-140-26 Cleland Lake

(26) Dec. 18 1911

@ Hub 11,934.80 continue transit line East same Var.
@ 12150 enter tam swamp bears N.+S. 12400 leave same bears N+S. 13880.80. Hub 13200 set temp 1/4 cor on S side sec. 33 - 141-26 We look for Bts here but find nothing so continue 135°23,60 Hub. quit for night.

Chas Ummun, Chas Sandford Mark Snell. arsenting over night at Mark Snells.

141-26-140-24 (27) Cleland Lake
Dec 19 - 1911

@ Hub 133 23.60 continue east
Same Var. 14°95' Enter bog Bears
NE & SW. 14700 Leave same
bears NE & SW. 15117.20 Hub
15-T40 set temp. S.E. Cor sec. 33
141-24 Nothing here no contam
16448.20 Hub, 16798.80 Hub,
16912 Cross County Road bears
N & S and enter Tam swamps.
17379 Leave swamp and enter lake
We look here for M.C. but
find nothing of any so quit
for night. Mark Smell.
Geo Flanigan Chas Clinman
Chas Sandford. Over night With
Mark.

140-27 (28) Cleland Lake

Dec. 20 1911

Beg at a point 1 rod N of S.E. cor sec 1-140-27 where State road No 5 crosses Range line and running same for Station 00

Sta 00 S E 270 ft to Sta No 1

Sta No 1 East 233 ft to Sta No 2

Sta No 2 N 59° 15' E 261.30 ft to Sta No 3

Sta No 3 S 74° 40' E 316 ft to Sta No 4

Sta No 4 N 72° 52' E 334.3 ft to Sta No 5

Sta No 5 N 47° 15' E 269.50 ft to Sta No 6

Sta No 6 East 562 ft to Sta No 7

Station No 7 being a point in curve angalation of Bass Lake,

Put for night over night with Mark Snell.

Chas Sandford, Mark Snell E G. Williams, Geo Flanigan Chas Clinman

140-27 (29) Elsland Lake
Dec. 21 1911

Using a point in State Road No 5 396 ft. West of Range line on East side Sec 1-140-27 as Station 00 Run as follows.

Sta No	Courses	Distance	Sta No
Sta No 00	N 18° 48' E	401.10	Sta No 1
" No 1	N 85° 30' E	272.20	" No 2
" No 2	N 46° 11' E	235.80	" No 3
" No 3	N 53° E	499.10	" No 4
" No 4	N 35° 57' E	381.80	" No 5
" No 5	N 49° E	578.50	" No 6
" No 6	N 29° 53' E	193.60	" No 7
" No 7	N 13° 05" E	373.40	" No 8
" No 8	N 2° E	360.70	" No 9
" No 9	N 7° 10' W	300.90	" No 10
" No 10	N 21° 38' W	398.80	" No 11
" No 11	N 36° 57' W	322.90	" No 12
" No 12	N 65° 30' W	471.60	" No 13
" No 13	N 75° 25' W	402.20	" No 14
" No 14	N 59° 41' W	136.60	" No 15
" No 15	N 38° 51' W	1515.45	" No 16
" No 16	N 27° 12' W	480.40	" No 17
" No 17	N 39° W	754.70	" No 18
" No 18	N 33° 40 W	260.70	" No 19

140-27 continued

Island Lake
Dec 21 1911

Bts to angle post no 8
Cedar 8 N 62° 45' W. 5-8 ft.
Bt to angle post no 12
Red Oak 6 S 10° 30' E 37 ft
Bt to angle post no 17
Birch 5-S 75° 25' W 46.50 ft.

Mark. Snell chas Sanford
E. Williams assisting

140-26 - 141-26 Cleland Lake (31)

Jan 2 1912

Chas Sandfo- J. E. & Williams
Mark Smell & I go to the
end of the line and look for
B.T. 20 M.C. on town line
between towns 140 - 141 Range
26 on west side of Big
Rice Lake. We find nothing
and then Mark & I go to
Cedar Camp and get a boarding
place. All get in a day.

140 - 141 - 26 (32) Clearing Lake
Jan 3 1912

We go to end of transit line and set witness a cross Big Rice Lake. Chaining as follows 17379 leave Swamp and enter Lake N+S. 24675.45. tack on log on the dec. 24700 leave Lake and enter Willow and alder sw amp. 25,500 Hub in Swamp. Marked T5- refering to No of tape lengths from S.W. Cor of township 141-26 quit for night over night at cedar camp. Mark Snell J H Mauch, Leo Flanigan Chas Sandford. E G. Williams

140-141-26 (33) Island Lake.

Jan 4 1912

Chas Sandford, Mark Snell & I look for corners all day but find nothing

One day for all of us

Jan 6 1912

Chas Sandford Mark Snell & I look for corners along Sask line but find nothing so we go to end of line and cut line until quitting time full day for all three

Jan 7 1912

Mark left at for Simpsons Cedar camps.

Jan 10 1912

Got a letter from Chas at Snowball Post office and go ~~to~~ to Bonar Mark Snell Chas Sandford worked hunting corners.

140-26-14-26 (34) Orland Lake

Jan 11 1912

Got word from Curo to bring in outfit so Mark Snell & Chas Sandford help me bug it in.

One day for all of us.

140-141-26 (35) dsland Lake 2wp.

April 12 1912

Mark Snell & cl take C. McVays team and drive from his place to old log School House on S side of Big Rice Lake We look up a crew in P.M.

April 13 1912

We get no crew but Mark & cl look up corners on East side of Rice Lake. we follow a blazed line east from the lake and come to the N.W. cor of sec. 1-140-26 There are both trees standing green & plainly marked and also the old stake is here. About 160 ft West of this corner we found another cor. that is supposed to be the S.W cor of 36-141-26, but the trees are marked wrong and also the stake we find. The trees will not check out with the field notes. We leave this cor and pace back ½ mile Here the notes call for two W.P trees but they have been

all Burned so badly
that no marks can be seen
So after a long search we
give it up and go to East
side of Rice Lake and look
for M.C. but find nothing
Quit for night
Mark Snell & cl.

April 14 1912
Mark Snell & cl search all
days for corners between
Laura & Big Rice Lakes
on the 2nd line. but
find nothing. Every thing
has been burned so badly
that it was impossible to
find any marks.

April 13-14-1912
Land up at Mark Snells

140-141-26 Island Lake Twp (37)
April 17-1912

Beg @ Hub 25500 "Marked 85"
continue our Transit line
East @ 25900 Leave Sup. bears
N 60 E @ 25949. 30 Nub. @ 25955 Cross
road bears N 25° E. 26400 set
temp. SE cor. of sec. 35-141-26
Nothing doing so continue. @ 26630.50
Hub. 27200 Enter Tam. Swamp bears
N. 78. We cut brush the rest
of the day.

Lloyd R Boswell
Mark Snell

140-141-26 Cleland Lake Twp.
(38) April 18 1912

Continue transit line East. @ 29040 set temp ¼ cor. on S side of sec. 36-141-26. Nothing doing so continue 29300 Hub 30556 20° Hub 31465 leave Swamp and enter high ground. 31650 set temp S.E. cor of sec. 36.-141-26. We search here for Bls but find nothing, so setting the transit upon Hub 31650 We turn a 90 angle from our line and run a line south 1330.35 ft.

Quit for night

Floyd R Boswell
Ed Barbeau
Fred Boyd.
Mark Snell.

140-141-26 (39) Island Lake Twp.

April 19 1912

We go back to the end of our Random line and finish cutting our line south from our random line.

We find a corner that might check out with the field notes but the tree isn't marked right and we cannot find the other tree. We dig up a lot of trees but can find no marks on any of them. We then take a compass and run & pace a line west ½ mile to ¼ cor on S side of sec. 36-141-26. We finish up the day looking for that corner but find nothing

Quit for night.

Ed. Barbeau
Mark Snell
Lloyd R Boswell
Geo. Livgard
Fred Beyer.

Henry S Todd

Backus Minn.

June 6-1912 Sidewalk grades

I am working for the Village of Backus in Hubbleshing Block corners and to establish grades for a side walk.

Gerald and I Lv Walker at 9.37 A.M. Ar Backus at 10.22 RR fare 63¢

Ivy Parks and I adjust levels in A+B. new bench by peg method 300 feet life.

W.E. Tilbury stake man

Joseph Van Kirk Axman.

Parks Rodman + Chainman

P.M.

We begin at wales edge E ends of Pine Mountain lake and chain E on South line of Sec 30-139-30 along Washburn Ave of Washburns Addition to Backus. We hunt up Block corners. Go down RR track to US Bench mark and chain North 3/4 of a mile to Ch Makin dinner supper and overnight for Gerald & I at Fairview Hotel

RR fare .63¢ Hotel Exp. 1.00 Tim 4. = $5.63

Cross 12 for

Bockus sidewalk grade

June 1912

	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
John W. Cuto	1	1		1								1	1	1	1
Ivy Parks	3/4	3/4										0			
W. E. Tilbury	3/4	1							1			1	1	1	1
Joseph Van Kirk	3/4	1					1	1	1	1		1	1	1	1
M. A. Kemp							1	1	1	1		1	1	1	1

(41)

Sta	BM.	+ S	HI	- S	Borchure Elev
"	1.				1340.864
6	TP	4.50	1345.364	3.80	1341.564
12	TP	4.75	1346.314	3.50	1342.814
18	"	4.46	1347.274	3.71	1343.564
24	"	3.62	1347.184	3.99	1343.194
30	"	3.70	1346.894	3.82	1343.074
36	"	4.78	1347.354	4.83	1342.524
	BM 2	4.915	1347.439	4.705	1342.734
	BM 3.			4.385	1343.054
BM	4	3.390	1346.444	4.110	1342.334
"	5.	3.565	1345.899	3.760	1342.139
"	6	2.330	1344.469	2.015	1342.454
	7	2.560	1345.014	3.240	1341.774
	8	2.255	1344.029	4.830	1339.199
	9	3.900	1343.099	4.634	1338.465
	10	5.145	1343.610	5.255	1338.355

(43) Backus

Old.
P.B.M. at Backus is "a pipe at brow of hill sloping E. 26 meters East of center of track of Brainerd & Northern Minnesota Ry, 41 meters South of wagon road, and 37 meters North of North end of station house Elevation of Cap of pipe is 408.6916 meters or 1340.864

Being a spike driven in So side of telephone pole at south end of Sta

Being a Spike in So side of telephone pole at S.W. Cor of Bailey's Store
Spike in tel pole at Reynolds Store
spike in tel pole at Kinkle Saloon
Spike in tel pole at Hayes' Corner
" " " " S.W. of P.O.
" " opposite "

Bachus

Going West

	+ S	H I	- S	Elev
BM N°2				1342.734
" 11	2.570	1345.304	4.644	1340.660
" 12	2.480	1343.140	6.435	1336.705

Going E

BM N°3				1343.054
13,	4.715	1347.769	3.813	1343.956
14	4.043	1347.999	4.040	1343.959
15	4.020	1347.979	4.210	1343.769
16	4.080	1347.849	4.310	1343.539
17	4.195	1347.734	4.014	1343.720

Bears Spike in tel pole at Ed Seibuds Co

allen

on a

Spike in tel pole Sec Cor

36
33
30
27
24
21
18
15
12
9
6
3
3 To 0

N 1 1/4 W

P.B.M. Elev 1340.864

46) ①

Jenkins Minn
July 11 - 1914

Lilac Av - Going West

BM. Sta	+S	HT	-S	Elev	
2	5.45	1274.15		1268.70	(101)
0			4.32	69.83	
+ 56			4.65	69.50	
+94.20 −90			4.00	70.15	
/			470	69.45	OK
"			460	69.55	
"			360	70.55	
"			323	70.92	
"			4.60	69.55	
+30			3.10	71.05	
2.			4.75	69.40	OK
"			4.90	69.25	
"			437	69.78	
TP.	4.27	127399	4.93	1269.72	(101.04
2+25			2.85	71.14	
+25			3.95	70.04	
+50			2.98	71.01	
+50			4.05	69.94	
+60			3.15	70.84	
3			4.68	69.3	
"			4.27	69.7	
"			4.87	69.1	
			5.10	68.9	

OK

Street Levels

John W Cuno Levelman H & B Transit Adjuster
Frank Bryant Rod. Chicago, Illinois

On Cement ¼ Corner 22-27-13-29
Cen of M & I Ry on sec line E & W road Cen
N. line R of W
= NE Cor Blk 4.
BM 40' L. 101.43
Cen
on ground 32' L
on side walk 40' L
door jamb Burchett Co
40' R.
40' L back door jamb Burchett Co
Cen
40' R
40 L. on side walk
Tel pole 34' L @ 3+ = BM. No 6
40' L. door jamb Ritchie Bldg
40' L. sidewalk
40' L door jamb
40' L sidewalk
40' R door jamb Hudson Saloon
Cen
40' L on sd walk
" " on ground
" R. " "

48 ③ Jenkins July 11-1914

Lilac Av going West contd.

BM etc	+S	HI	-S	Elev	
		1273.99			
4.			4.87	69.1	OK
			5.25	68.7	
			4.90	69.1	
			4.15	69.8	
5			4.50	69.5	OK
			4.80	69.2	
			4.50	69.5	
			3.85	70.1	
			3.02	71.0	
TP.	4.18	1274.74	3.43	1270.56	(101.86)
+67			4.85	69.9	
6			4.90	69.8	OK
			5.20	69.5	
			5.50	69.2	
7			4.95	69.8	OK
			5.65	69.1	
			5.25	69.5	
8			4.90	69.8	OK
			5.25	69.5	
			5.60	69.1	
TP	4.85	1273.93	5.66	1269.08	101.38 ? 100.38 ?

OK

Cen
40' R on gd
40' L " "
40 L " Side wall

Cen
40' R. on ground
40' L " "
40 L " Side wall
on Low ground Kings Ranch 60' L

Cen
40' R gd
40' L "

Cen
40' L on gd
33 L " "

Cen
33' R
40' L
BM 33' R @ 8+40

50 (9)

Jenkins July 11-1914

Lilac Ho going West

BM Sta	+ S.	HI	− S	Elev	
9		1273.93	5.90	68.0	= 69.0
10			5.65	68.3	= 69.3
11			5.35	68.6	69.6
-75?			4.40	69.5	= 70.5
-"			4.85	69.1	70.1
"			4.70	69.2	70.2
12			4.50	69.4	= 70.4
13			5.00	68.9	
14			5.40	68.5	
15			5.30	68.6	
16			5.20	68.7	
17			5.40	68.5	

Note: Stations 9-16-12 re-numbered Correctly Sta. 1 to 17 Inclusive

Note: Stations 9-16-12 re-numbered Correctly Sta. 1 to 17 Inclusive

F. Bryant ½ day AM.
PM

Lost hot 15 work Cur goes back to Walker 3:36 PM Lion

OK

Cen
Cen
Cen
Cen
40'L Cen grvrs. Mrkr
40'R grvl
Cen Twp road
Cen
Cen
Cen
Cen
Cen Twp road 1700 ft W of RR Cen mon

52

Jenkins Mine July 18-1914

	R.R.	Back	Gong	South		
BM	Sta	+S	HI	-S	Elev	
1					1268.70	100.00
		5-38	1274.08			
	0			4.20	69.9	
	1			4.45	69.6	
	2			4.70	69.4	
	3			4.85	69.2	
	4			5.10	69.0	
	5			5.15	68.9	
	6			5.20	68.9	
	TP	3.67	1272.87	4.88	1269.20	
	7			4.00	68.9	
	8			4.10	68.8	
	9			4.05	68.8	
	10			4.30	68.6	
	11			4.65	68.2	
	12			5.65	67.2	
	13			6.60	66.3	
	14			7.50	65.4	
	15			8.50	64.4	
	TP	1.31	1265.96	8.22	1264.65	
	16			3.00	63.0	
	17			4.30	61.7	
	+25			9.30	56.7	
	18	OK		5.20	60.8	

Remarks ⑧ 53

Cmo Levelman Roy Bryant Rod + Ch

100' Chain Chicago rock H+B Trains

On cement 1/4 West 27+34-137.29

On RR. Crossing Cen main E+W road

Top of water in swamps S of Jenkins

54

(9)

Jenkins Minn

July 18 1914

BM	Sta	+S	HI	-S	Elev
1					1268.70
		5.63	105.63 1274.33		
	0			4.50	69.83
	1			4.70	69.6
	2			4 70	69.6
	3			4.70	69.6
	4			4.60	69.7
	5			4.45	69.9
	6			4 40	69.9
	7			4 35	70,0
	8			4.20	70.1
	9			4.15	70.2
	TP	3.83	1274.31	3.85	1270.48
	10			4.20	70.1
	11			4 00	70 3
	12			4 00	70.3
	13			4.00	70.3
	14			3.75	70.6
	15			3 60	70.7
	16			3 60	70.7
	17			3 45	70.9

OK

Remarks

Going North up RR track from Crossing at sec line in Cen of road ETW

On top of cement 14 Wet 27+34-137-29

On RR Crossing on sec line Cen of road

56

(11)

Jenkins Could

		+S	HI	-S	Elev
TP		0.50	1271.69	3.12	1271.19
	18			0.75	70.9
	19			045	71.2
	20			0.35	71.3
	21			0.30	71.3
	"			13.00	1258.7

OK.

(12)

- Remarks -

Going North up RR from crossing
Curb Levelman H+D Transit
Roy Bryant rod & Chain

On pilaster creek on RR track
50' 1½ R. on top of water in creek

58

(13) Front St

Jenkins Minn July 18-1914

BM	Sta	+S	HI	-S	Elev
2		5.00	1273.70		1268.70
			Front	Street	
	0			4.25	69.5
+	40			3.08	70.6
+	40			2.80	70.9
	1			4.50	69.2
	"			2.90	70.8
	"			2.60	71.1
	+90			2.90	70.8
"	"			2.60	71.1
	2			4.65	69.0
	+50			3.45	70.3
"	"			2.90	70.8
	+90			3.30	70.4
+	"			3.00	70.7
	3			4.50	69.2
+	50			4.85	68.9
	4			4.90	68.8
	5			5.00	68.7
TP		4.13	1272.79	5.04	1268.66
	6			4.50	68.3
+	80			4.50	68.3
	7			4.30	68.5

- Remarks -

Going South. W. of track

On lip of Cement 1/4 Cn bet 27 & 34 - 137-29

0' - Cen Lilac Av at N. end of Front St

40' R. on side walk

40' R. bottom of door Ritchies Corner

Alley Center

40' R. On side walk

40' R. door at Riddle's store bldg

40' R on side walk

40' R. door of Geo Newman's Restaurant

Cen of Alley

40' R. On side walk

40' R. door of Barn

40' R. on side walk

40' R. door Blacksmith shop

Alley Center

40' R in Central Avenue

Cen

"

Cen

40' R. @ SE Cn Blk 7.

In Pine Tree Back Front St

(13)

Jenkins Continued

July 18-1914

BM.	Sta	+S	HI	-S	Elev
			1272.79		
+	20			4.50	68.3
	8			4.45	68.3
	9			4.20	68.6
	10			5.05	67.7
	11			5.60	67.2
	12			5.90	66.9
	13			8.70	64.1

01

(16)

- Remarks -

Going South along Front St

90' R @ S. side of Pine Tree Alley
Street Cen / Front St
Cen
Cen
Cen
Cen
Cen
Cen

(17)

Jenkins Minn July 18-1914

BM	Sta	+S	HI	-S	Elev	
		2.84	1273.38		101.86 1270.54	BM № 7.
	0			3.50	69.9	
	1			4.30	69.1	
	2			4.05	69.3	
	3			4.50	68.9	
+	20			3.95	69.4	
"	"			4.60	68.8	
"	"			4.50	68.9	
	4			4.70	68.7	
+	30			3.54	69.8	
	5			4.60	68.8	
	6			4.60	68.8	
+	90			5.05	68.3	
"	"			5.05	68.3	
	7			4.95	68.4	
	8			5.00	68.4	
	9			5.15	68.2	
	10			7.00	66.4	

O.K.

-Remarks-

Running South on Cottage Street

On Spike in Telephone Pole BM @ NW Cor Blk 4.
Cen Lilac Av and N. end of Cottage St
Cen of St
" " "
" " "
40' L. on side walk @ SW Cor Blk 4.
40' L. on ground
40' R " "
Cen
50' R on top of cement slope BM (101.40) ? at Ritchie Res

40' L. @ SW Cor Blk 7
40' R @ SE Cor Blk 6
Cen
Cen
Cen
Cen

Cottage Street

64 (19)

Jenkins Minn July 20-1914

Summer Street

BM	Sta	+S	HI	-S	Elev (101.90)	
1		3.35	1273.95		1270.60	BM No 9
	0			3.45	70.5	OK
	+40			4.10	69.8	
	" 40			4.20	69.7	
	1			4.70	69.2	OK
	2			5.00	69.0	
BM	+70			4.14 (101.12)	1269.81	BM No 11
	3			5.00	69.0	
	"			4.90	69.0	
	"			4.80	69.1	
	+80			4.80	69.1	
	4			4.70	69.2	
	5			4.80	69.1	
	6			490	69.0	
	-80			5.40	68.5	
	7			5.45	68.5	
	8			5.40	68.5	
	9			5.60	68.3	
	10					

(20) K.

(20)

- Remarks -

Running South from Lilac Ave
Roy Bryant & Cuno
Telephone pole N of road near NW Cor Blk 5
In road Cen Lilac Ave and Summit St
40' L. at NW Cor of Block 5
40' R.
Cen of St
Cen
BM. Spike in S pine 40' L Elev 101.12
Cen
40' L @ SW Cor Blk 5
40' R.
40' L. @ NW Cor Blk 6
Cen
Cen
Cen
40' L @ SW Cor Blk 6
Cen
Cen

66

(21)

Jenkins Minn July 20 1914

Central Avenue

BM	sta	+S	HI	-S	Elev (101.12)	
1		4.14	1273.95		1269.81	BM No 11.
	0			4.80	69.1	
	1			4.70	69.2	
	2			4.80	69.1	
	3			5.00	69.0	
TP		4.85	1273.72	5.08	1268.87	
	4			4.80	68.9	
	5			5.00	68.7	
+	85			4.80	68.9	
"	"			5.30	68.4	
	6			4.80	68.9	
+	65			5.00	68.7	
"	"			5.00	68.7	
BM 2				3.85	1269.83	BM 12
	7			5.00	68.7	
	8			4.50	69.2	
	9			4.15	69.6	
	10			4.55	69.2	
TP.		4.77	1274.14	4.35	1269.37	
	11			4.90	69.2	
+	38			5.00	69.1	
"	"			5.00	69.1	
+	78			5.00	69.1	

Going East from Cen of Sumner St

Ap from P.C. @ SW Cor Blk 5.
W side Sumner St and Central Av
Cen
Cen
Cen

Cen
Cen
40' L @ SE Cor Blk 5
40' R @ NE Cor Blk 6
Cen
40' L @ SW Cor Blk 4
40' R @ NW Cor Blk 7
100' R @ Sta 5+70 abt N. Richi's door step MK 101.14
Cen
Cen
Cen
Cen

40' L @ SE Cor Blk 4
40' R @ NE Cor Blk 7
Cen of Front St

68 (23)

Jenkins Minn July 21 1914

Central Av.

BM	Sta	+S	HI	-S	Elev
	12		1274.14	5.60	68.5
+	18			5.60	68.5
"	"			5.15	69.0
	13			6.30	67.8
+	50			5.10	69.0
TP		2.85	1272.16	4.83	1269.31
	14			4.80	67.4
+	50			4.70	67.5
+	50			4.70	67.5
	15			5.00	67.2
+	15			4.70	67.5
	16			5.60	66.6
+30	"			4.80	67.4
"	"	"		7.60	64.6
	17			5.60	66.6
	"			8.00	64.2
	"			4.30	67.9
+30	"			12.40	1259.80
	18			4.20	68.0

(24)

- Remarks -

Going East

Cen

40' L. @ SW Cn Blk 3

40' R @ NW Cn Blk

Cen

Cen RR track

on rail

Cen

40' L. @ SE Cn Blk 2.

40' R.

Cen

40' L. @ SW Cn Blk 1.

Cen

40' L @ SE Cn Blk 1.

40' R.

Cen

40' R

40' L.

240' R. @ 17+30 in big hole SE of Blk 1.

Cen

70 (25)

Jenkins Minn July 21 1914

Pine Tree Avenue

BM	Sta	+S	HI	-S	Elev	
14		5.46	1274.39		1268.93	100.230
	0			5.85	68.5	
+	40			5 80	68.6	
	1			5.20	69.2	
	2			5 20	69.2	
	3			5.20	69.2	
	4			5 20	69.2	
	5			5.20	69.2	
+	85			5.90	68.5	
	"			5.90	68.5	
	"			6.10	68.3	
	6			5.90	68.5	
+	65			6.10	68.3	
	"			6.10	68.3	
	7			6.00	68.4	
TP.		4.48	1273.41	5.40	1268.93	
	8			5.00	68.4	
	9			5.20	68.2	
	10			5.10	68.3	
	11			5.20	68.2	
+	48			5.00	68.4	
+	48			5.30	68.1	
	12			5.10	68.3	

-Remarks- (20)

going East

Spike in JP
W. side Summer St 2nd Cor Pine Tree 17 L
40' L @ SW Cor Bk 6
Cor

Cor
40' L @ SE Cor Bk 6
40' R.
Cor
40' L @ SW Cor Bk 7
40' R
Cor
Spike in JP 40' R
Cor

40' L. @ SE Cor Bk 7
40' R.
Cor

72 (27) -

Jenkins Minn July 21 1914

Pine Tree Ave Continued

BM	Sta	+S	HI	-S	Elev
			1273.41		
	+28			5.00	68.4
	" "			5.40	68.0
	13			5.40	68.0
	14			5.40	68.0
	+86			5.40	68.0
	15			5.40	68.0
	+26			5.40	68.0
	+62			4.60	68.8
TP		4.15	1272.96	4.60	1268.81
	16			—	
	+18			5.80	67.2
	17			10.20	62.8
	+50			5.70	67.3
	18			12.00	61.0
	+6			5.40	67.6

ok DWC

(28)
-Remarks-

40' L @ SW Cor Blk 8
40' R @ NW Cor Blk 9
Cor
Cor
40' L @ SE Cor Blk 8
Cor
40' R. @ NE Cor Blk 9
on RR
on RR
E end of RR
at Wire fence E line of R of W
E of RR
280' R @ SE Cor Blk 9
E. of R.R.
280' & R. on RR. On line with S. side Blk 9

(29)

Jenkins Minn

July 22nd 1914

Bench Marks

BM

No 1 U.S. Temp B.M. Elev 386.6816 Mtrs
= 1268.652 feet
This is Temp BM. wire nail in
J P Stump 11 miles West of Cen
of M & S track and 9 miles
North of Cen of Water tank
Elev 386.6816 Meters

No 2 BM Established
Cement 1/4 Cor between Secs
27 & 34 - T137-29
Elev 1268.70

No 3. BM. Established
Top of cement pear or
block under NW side of
Water tank and feet
East of Cen of M & S track
Elev 1271.34 feet

No 4 BM Established
Top of cement block or pear
under SW side of water tank
and ft E of M & S track
Elev 1271.33

Jenkins Minn

July 1914

Bench Marks

BM. Established

Top of cement door slip at North Ritchie Residence

On lot ____ Block ____ of

Plat of Jenkins Elev

(31) 1168.7 ft

Jenkins Minn July 22 1914

Checking Bench Marks

BM	+S	H I	-S	Elev	
No 1	6.06	1274.71		1268.652	
" 2			6.01	1268.70	
" 3			3.37	1271.34	
" 4			3.38	1271.33	
" 5	4.25	1274.38	4.58	1270.13	101.43
6	3.94	1273.66	4.66	1269.72	101.02
7	3.51	1274.05	3.12	1270.54	101.84
8	3.98	1274.04	3.99	1270.06	101.38
9	3.78	1274.38	3.44	1270.60	101.90
10			4.48	1269.90	101.22
No 9	3.79	1274.39		1270.60	
" 11			4.58	1269.81	101.12
No 7	3.32	1273.86		1270.54	
12			4.03	1269.83	101.14
13	4.50	1273.59	4.77	1269.09	100.35
14			4.66	1268.93	100.23

Geo Lowelman H+B Chainm
Roy Bryant Rod. Chi rely needed
JP Stamp U.S. BM
On Cement 44 Co
Top of NW Cement Support of water Tank near track
" " SW Concrete Support of water tank
Spike in telephone pole at NE Cor Bk 4
" " " N. side Bk 4
" " " NW Co Bk 4
" " " N. of road N side Bk 5
" " " N of road N of NW Co Bk 5
" " " N of road and 280' W of Bk 5

Spike in 4' JP Stamp @ SW Co Bk 5

Top of Cement door step Rec on Lot 1. Bk 6
Spike in Stump @ NW Co Bk 7.
Spike in 4' JP 80's of SW Co Bk 7

(78) (33) 11.65.T.

Jenkins Mine July 28 - 1914

Bench Marks Cuero's Addition to Jenkins

BM	+S	HI	−S	Elev	
№ 2	4.61	1273.31		1268.70	
15			3.92	1269.39	101.69?
16			3.73	1269.58	100.85
№ 2	4.84	1273.54		1268.70	
17			3.08	1270.46	
	July 24 - 1914.		A.M.		
№ 16	3.48	1273.06		1269.58	
18	5.28	1274.62	3.72	1269.34	
19			5.42	1269.20	
№ 2	3.12	1271.82		1268.70	July 24 1914
20	3.93	1271.87	3.88	1267.94	
21			3.45	1268.42	

On cement 1/4 Cor bet Secs 27 & 34 - 137 29
Spike in Tel pole at SW Cor Blk 1. Cuio's Add
Spike in Tel Pole @ SW Cor Blk 2. "

On 1/4 Corner bet Secs 27-34-137-29
On lo of log Cement steps on front of Bank

Spike in tel pole @ SW Cor Blk 2.
Spike in telephone pole on R/W. N. side 3rd Av Cuio's Add
Spike in telephone pole W. end 4th Av Cuio's Add

On telephone pole @ SE Cor Blk 1. Cuio's Add Spike
Spike in tel pole So of road near SE Cor Blk 7 Cuio's Addition

80

(35)

Jenkins Minn July 23 - 1914

Lilac Ave Going East

BM	Sta	+S	HI	-S	Elev
2		4.98	1273.68		1268.70
	0			3.90	69.8
	1			5.00	68.7
	-4			4.60	69.1
	+05			4.20	69.5
	+27			5.00	68.7
	+27			3.88	69.8
	+54			4.27	69.4
	+80			4.44	69.2
	+90			4.75	68.9
	+80			3.32	70.4
	+80			3.75	69.9
	2			6.10	67.6
	1,			5.40	68.3
	3			6.45	67.2
	4			5.60	68.1
	4			7.10	66.6
TP		6.10	1272.13	7.65	1266.03
	+40			3.10	69.0
	5			4.40	67.7
	+10			5.00	67.1
	6			4.50	67.6
	7			4.50	67.6

On Cement 1/4 Sec 27-54-137-29
On RR track

33' R on side walk
40' R on door of Baker Shop
33' R on side walk
40 R on door step Rush & Lee
48' R door of Bryants Kitchen
40' R door of Bryants Hotel
Cor of Porch floor NW Cor Bryants Hotel
50' L door Cure store
33' L side walk SW Cor Blk 1 Cure Add
Cor
33' R on side walk
Cor
33' R on side walk
Cor

50' R on door of Rex Lewis
Cor same as K
33' L @ SE Cor Blk 1 Cure Add
Cor Same on both sides
Cor + same both sides

82

(37)

Jenkins Minn July 23-1914

Lilac Av Long Farm Cuts Add

BM	Sta	+S	HI	-S	Elev
	8		1272.13	4.20	67.9
TP		3.15	1271.33	3.95	1268.18
	9			3.10	68.2
	10			3.40	67.9
	11			4.00	67.3
	12			4.50	66.8
	"			4.80	66.5
	"			4.60	66.7
	13			4.50	66.8
	"			4.80	66.5
	"			4.50	66.8
	13			2.76	68.6
	14			4.50	66.8
	"			4.80	66.5
	"			4.80	66.5
	15			4.40	66.9
	16			3.20	68.1
	17			3.70	67.6
	18			4.70	66.6
	19			4.90	66.4
	20			5.40	65.9
	21				

Cen and name on both sides
Cen Name on each side
Cen Name R and L
Cen
33' R
33' L
Cen
33' R
33' L
65' L on door step Bill McClains Res
Cen
33' R
33 L.
Cen
Cen
Cen
Cen
Cen
Cen

84 (39) 1607

Jenkins Mine July 23-1914

First St Cuts Add. Going North

BM	Sta	+S	HI	-S	Elev	
2		4.61	1273.31		1268.70	
	0			4.60	68.70	
	"					
+	15			2.98	70.38	
+	30			3.19	70.1	
	1			4.95	68.4	
	+05			3.45	69.9	
	+05			2.85	127046	PBM No. 17 Elev 1270.46
	+60			3.19	70.1	
	+50			3.96	69.4	
	2			4.70	68.6	
	2			3.90	69.4	
BM						
16		2.73	1272.31		1269.58	
+	50			4.00	68.3	
+	50			3.30	69.0	
-	50			4.00	68.3	
	3			4.00	68.3	
+	27			3.70	68.6	
+	27			2.85	69.5	
+	27			3.50	68.8	
+	50			3.40	68.9	
	4			3.85	68.5	

¼ Cor Cement post Bet Secs 27-34-137-29
South of First Ave in Cen of Lilac Ave
40' R on side walk SW Cor Blk 1.
40' R on Steps Cen of Store
40' R door of ware house
Cen
40' R lower step of bank 2" above Sidewalk
40 R. top step of bank = door bottom
40' R saloon door
Top of scales Cen of Ave
Cen
40' R on side walk

Spike in Tel Pole @ SW Cor Blk 2
Cen
40' R on walk NW Cor Blk 1 Cuno's Add
40' R on ground " " " "
Cen
Cen
40' R on walk @ SW Cor Blk 2
40 R " ground " " "
Cen
Cen

86 Jenkins Minn July 23-1914

BM	Sta	Ouro's	Add	First	St Geog N.
BM	Sta	+S	HI	-S	Elev
+	50		1272.31	5.00	68.3
	5			4.40	67.9
	6			3.40	68.9
TP		5.27	1274.20	3.38	1268.93
+	27			5.30	68.9
+	27			5.60	68.6
	7			5.40	68.8
+	04			5.70	68.5
	8			5.00	69.2
	9			5.00	69.2
	10			6.20	68.0
+	04			6.50	67.7
+	81			7.70	66.5
+	81			7.70	66.5
	11			7.30	66.9
				7.7	

Cen
Cen
Cen
—
Cen
40' R on ground NW Cor "Blk 2"
Cen
40' R on ground SW Cor Blk 3 Cen's Add
Cen
Cen
Cen
40' R NW Cor Blk 3
Cen N side of "
40' R N. side of "

John W Cen Lewisman H+B Transit
Roy E Bryant Rod
Work all day

88

(43)

Jenkins Minn July 24-1914

4K. Av Ouros 1744 Going East

BM	Sta.	+S	HI	-S	Elev
19		5.42	1274.62		1269.20
	0			4.4	70.2
	1			6.60	68.0
+	74			8.00	66.6
"	"			6.80	67.8
"	"			8.00	66.6
	2			7.00	67.60
	3			5.70	68.90
	4			5.30	69.3
+	74			5.70	68.9
"	"			6.60	68.0
"	"			5.60	69.0
TP		4.20	1273.42	5.40	1269.22
	5			8.40	65.0
+	51			8.00	65.4
+	51			7.80	65.6
+	51			8.20	65.2
	6			8.20	65.2
+	25			7.20	66.2
	7			5.30	68.1
	"			3.15	70.2
	8			5 80	67.6
	9			8 40	65.0
-	28	Quit for time		8.40	65.0

John W Cuns Lueleman H+B hamt
Ray E Bryant Robinson Self reading rod

Spike in Telephone pole on R of W @ N. end 4th Av Cuns's A44
On RR ties W. end 4th Av Cuns's A44
Cen 4th Av
Cen 4th Av
38' R @ NW Cor Blk 3. Cuns's A44
38' L.
Cen 4th Av
Cen 4th Av
Cen 4th Av
Cen 4th Av
38' R @ NE Cor Blk 3 Cuns's A44
38' L
Cen 4th Av
Cen 4th Av
38' R @ NW Cor Blk 4
38' L
Cen of Av
Cen of N+S road on N bdry of Blk 4
Cen
50' L Door of Creamery 50' W of Blk 4
N edge of Blk 4'
E of NE Cor Blk 4

Jenkins Mann July 24 - 1914 PM
3rd Arm Cano's Add. Stony East

BM	Sta	+S	HI	-S	Elev
18		4,00	1273.34		1269.34
	0			3.50	69.8
	1			4.00	69.3
+	74			5.00	68.3
"	"			4.70	68.6
"	"			4.90	68.4
	2			4.80	68.5
	3			4.70	68.6
	4			4.40	68.9
+	74			4.30	69.0
	"			4.80	68.5
	"			4.50	68.8
	5			4.60	68.7
+	51			5.50	67.8
+	51			4.80	68.5
	6			4.80	68.5
TP		4.72	1272.81	5.25	1268.09
	7			4.70	68.1
	8			5.00	67.8
+	51			5.15	67.7
+	51				
	9			6.50	66.3

Spike in telephone pole on R of W. N side 3rd Av
on back walk end of 3rd Av Cuno's Add

Cen
38' R at NW Cor Blk 2 Cuno's Add
38' L at SW Cor Blk 3 " "
Cen 3rd Av
Cen " "
Cen
Cen
38' R @ NE Cor Blk 2 " "
38' L @ SE Cor " 3 "
Cen
38' R @ NW Cor Blk 5
38' L @ SW Cor Blk 4
Cen
— on Blk Cor
38' R Ash stk 4 ft
38' L " " "
38' R at NE Cor Blk 5
38' L. at SE Cor Blk 4
38' R.

(47)

Jenkins Mine July 24-1914
Third Fl Gony East

BM	Sta	+S	HI	-S	Elev
	9		1272.81		
T	28			8.00	64.8
"	28				
TP		4.93	1272.59	5.15	1267.66
	8				
+	51			4.90	67.7
	9			5.70	66.9
+	28			6.70	65.9

John W Curo Levelman H & B Transit
Roy E Bryant Rod Self reading

Curo's Addition to Jenkins

38' L.
38' R. E. side 3rd St
38' L. E. side 3rd St

38' L. at SE Cn Blk 4 Curo's Add
38' L
38' L. on E. side 3rd St

(49)

Jenkins Mine July 24-1914

Second Ave - Going East

BM	Sta	+S	HI	-S	Elev
16		3.57	1273.15		1269.58
	0			3.50	69.6
	1			4.70	68.4
+	74			4.90	68.2
+	74			4.30	68.8
	2			4.30	68.8
	3			2.90	70.2
	4			2.90	70.2
+	74			3.50	69.6
+	74			4.20	69.0
	5			3.80	69.3
+	51			4.50	68.6
+	51			4.80	68.3
TP		2.73	1272.64	3.24	1269.91
	6			4.70	67.9
	7			4.40	68.2
	8			6.60	66.0
+	51			8.70	63.9
+	51			8.10	64.5
+	51			9.60	63.0
TP		2.76	1267.70	7.70	1264.94
	9			4.30	63.4
+	28			4.50	63.2
+	28			4.80	62.9
	10			1.80	65.9
	11			→	69.0

Spike in telephone pole at SW Cor Blk 2. Runs N 44
On RR Cen of Second Avenue

Cen
38' R @ NW Cor Blk 1
38' L @ SW Cor Blk 2
Cen
Cen
Cen
38' R @ NE Cor Blk 1
38' L @ SE Cor Blk 2
Cen
38' R @ NW Cor Blk 6
38' L @ SW Cor Blk 5

Cen same both sides
Cen " " "
Cen
Cen
38' R
38' L @ SE Cor Blk 5

Cen
38 R
38 L

(5)

Jenkins Minn July 25-1914

Second Street Curbs Addition

BM	Sta	+S	HI	-S	Elev
No 20		3.47	1271.41		1267.94
	0			3.40	68.0
+	20			3.80	67.6
+	40			4.30	67.1
+	82			4.15	67.3
	1			4.30	67.1
+	59			4.30	67.1
	2			4.00	67.4
	3			2.80	68.6
	4			1.80	69.6
TP		3.82	1273.20	2.03	1269.38
+	59			4.50	68.7
+	59			3.60	69.6
	5			4.00	69.2
+	36			4.80	68.4
+	36			4.40	68.8
	6			4.80	68.4
	7			5.00	68.2
	8			5.00	68.2
+	36			5.40	67.8
-	36			4.60	68.6
	9			4.40	68.8
+	13			4.60	68.6
+	13			4.50	68.7

On Lilac Avenue and Second Street

38' R @ SW Cn Blk 7
38' L @ SE Cn Blk 1 Curb's Added
38' R @ NW Cn Blk 7
Cm
38' R @ SW Cn Blk 6
Cm
Cm
Cm

38' R @ NW Cn Blk 6
38' L @ NE Cn Blk 1
Cm
38' R @ SW Cn Blk 5
38' L @ SE Cn Blk 2
Cm
Cm
Cm
38' R @ NW Cn Blk 5
38' L @ NE Cn Blk 2
Cm
38' R @ SW Cn Blk 4
38' L @ SE Cn Blk 3

98 (53)

Jenkins Minn July 25-1914

Second Street Curo's Addition

BM	Sta	+S	HI	-S	Elev	
	10		1273.20	4.20	69.0	
TP		2.05	1271.25	4.00	1269.20	
	11			2.80	68.4	
	12			4.60	66.6	
+	13			5.40	65.8	
+	+13			3.40	67.8	
	13			6.30	64.9	
		Turned to Right Lower				
	14			4.70	66.5	
	15			7.20	64.0	
TP		1.14	1264.93	7.46	1263.79	
	16			4.10	60.9	
	17			6.30	58.6	
	18			6.50	58.4	
	19			7.50	57.4	
	20			9.00	55.9	
	21			10.20	54.7	
+	30			9.00	55.9	
+	30			14.50	1350.43	Creek

Going North

Cm

Cm

Cm

38' R @ NW Cn Rh 4

38' L @ NE Cn Rh 3

Cm

Cm

In Corrod NE

" " "

Corrod

In Corrod running NE

" " "

" " " " "

" " " " "

On hill over creek

Top of water in creek

100

(53)

Time Sheet

Working for Jenkins Village

John W Cuns

Time Sheet

Working for John W Cuns at Jenkins

John W Cuns
Roy E Bryant
Frank Bryant

Note: Frank Bryant and Cuns work the first of June 13-1914 for Lewis at Jenkins

(56)

Time Sheet

Working for Jenkins Village

July 1914

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Time Sheet

Working for John W Cuso & Jenkins

July 1914

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
										1								1	0	½	½	½	1	1	1					
										0								1	0	½	½	½	1	1	1½					
										1								0	0	0	0	0	0	0	0					

102 Jenkins Mine July 30-1914

Lilac Ft Gong W Second run

B					
BM 8	+ S	HI	- S	Elev.	
	5.63	1274.33		1268.70	
0			4.48	69.85	
		Brought Leveling to first point in circuit			
1			4.20	70.13	
2			3.37	70.96	
3			4.93	69.40	
			4.91	69.4	
			5.09	69.3	
			4.57	69.76?	= 69.72
TP.	5.06	1274.78		1269.72	No 6
4			5.80	69.00	= 69.10
5			5.32	69.5	OK
BM			4.22	1270.56	BM No 5 1270.5
6			5.08	69.70	
7			5.04	69.80	
8			5.21	69.6	
TP			4.68	70.10	1270.06 No 8
BM 8	4.26	1274.32		1270.06	
9			5.21	69.11	68.0?
10			5.15	69.2	68.3?
11			4.44	69.88	68.6?
BM			3.70	70.62	= 70.62
12			4.40	69.93	

Frank Homer Levelman
Roy Bryant Rod
Cemo - book keeper

¼ Co
on RR.

BM - N° 5
Lon on Co

Johnson Cem

Jenkins Minn August 2- 1914
Sunday
3rd St going North
mile

BM	Sta	+S	HI	-S	Elev
21		4.08	1272.50		1268.42
	0			4.60	67.90
	1			5.30	67.20
	2			5.30	67.20
	3			5.60	66.90
	+ 25			5.90	66.60
TP		3.60	1270.99	5.11	1267.39
	4			4.40	66.6
	5			4.80	66.2
	6			6.10	64.9
	+ 25			6.40	64.6
	7			8.20	62.8
	+ 02			8.20	62.8
	8			8.00	63.0
	9			4.60	66.4
	10			3.60	67.4
	11			3.60?	67.4

John W Cuco Lewelman H & B transit
James W. Killin Rodman self reader
On telephone pole man SE Cor Cuco's Add

Cor Lots on E & W side 3rd St
on W side 3rd St
" " " "
" " " "

@ SE Cor Blk 6
W side 3rd St
" " " "
" " " "
" " " "

NE Cor Blk 6
W side 3rd St
SE Cor Blk 5 "
" " " "
" " " "

NE Cor Blk 5

13729 ① Aug 6-1914

Thursday

Waldin Twp Ls Wacker @
9-37 A.M. K.R. Jct. A. Perkins
11 AM Andrews and Abbs take me
to Parsons farm in Sec 13729
where I get dinner
P.M.
Geo Newman - Pallock's team and
I go K-H on bet Secs 30-31
13729 where we pull up the wood
corner set by me and put in its place
a 2×48" galvanized iron pipe no
cap or anchor.
We dig a hole 2½ feet deep by 2 ft
long and 1 foot wide into which we set
the iron and drive it one foot into
the black mud - gravel and rocks
in edge of small meadow
We then pour in 1/3 sack of pure
cement or we have no sand.
We then pour in water and mix
the cement and fill up the hole
with gravel and black dirt and
on the iron then stick a foot board
we pack mud and pile a mound of
dirt to top of iron and stick a 2"×6"
pole in top of iron to keep teams from running into it or the work is not complete

Aug 6-1914 Continued Walden

As Mr Gale has established the 1/4 bet secs 30 & 31-137-29 we decide to check his chainage as to E & W.

Beg @ 8x8x36" stone at SW Cor of 30 we chain East along meaded wood @ 1273.14 set limp 1/16 @ 2593.14 set limp 1/4 @ 2614. find limp 1/4 Cor set by Gale @ 5233.14 set limp Cor to 29-30-31-32-137-29. the line 8x8x36" cement post sets East 8.46 feet making the total distance 5241.60 on chain.

Coming back-

We find the 4x4. oak 1/4 Cor set by Gale sets 16.67 feet bis for East.

By proportional chain the west half of S side of sec 30 gets 4.19 feet and East half 4.27 feet so at Gale Hub-2614. we chain West 16.76 to a point 2597.33 on a East when we set a 2x48" galvanized iron pipe-No cap. with swiveled thin bottom set 45 feet length in the ground in a bed of concrete and mound of dirt for the line 1/4 Cor to secs 30-31-137-29.

East ¼ S.E. Cor of 30 is 2640+4.27 = 2644.27 and
North ¼ S.W. Cor of 33 : 2593.14 + 4.19 = 2597.33
2597.33 + 2644.27 = 5241.60 our Chain

Re tracing line run by Gale from
¼ on N side of 30-137-29 South
@ 4425 S. Hub @ 5000 Hub @ 5285.
about the line run ¼ on N side of
30-137-29 pts West 50.11

Couching North (009434)

5285 goes west 50'
5000 " " 47.17
4425 " " 41.75 where we drive hub
and lath stake marked Tree road
Cor. N+S Cor line

Quit for night dinner coffee and
over night with Parker

Walden Twp - ①

Friday August 7-1914

Leveling -

Adjusting level

BM.	Sta	+ S	HI	− S	Elev	
	0	4.02	104.02		100.	assumed
	3			4.25	99.77	
	3	4.69	104.46		99.77	
				+4.46	100.00	O.K.

peg method used 300 ft apart

To get elev of swamp

BM.	Sta	+ S	HI	− S	Elev	
1					100.00	Assumed
	0	6.55	106.55			
	0			7.99	98.56	
	0			6.40	100.15	0×69
	"			7.82	98.73	
	"			9.35	97.20	5.10
	"			7.70	98.85	
	"			9.19	97.36	4.94
	"			10.10	96.45	
	"			9.80	96.75	
	"			11.15	95.40	
	"			11.12	95.43	
	+50			5.90	100.65	
	1			3.80	102.75	

John H Cuno Level - H+B Transit (1)
Geo Newman Rod Left reader

Frank Loomis Level Checking
Geo Newman Rod "

Final level O.K. H+B transit in
perfect adjustment as per above

On 12" pine stump 25' W of Sta 0.
On fill over creek 180' W and 10' N of Sta 10+37.39
" " " "
on top of N end of culvert
" bottom of culvert @ N end
" Top of Culvert @ S end
Bottom " " "
bottom of creek bed at N end of culvert
bottom of creek bed at S end of culvert
bottom of dog nail hole @ N end of culvert
" " " " " S " " "
Centre of road = of Sta 0

BM	+S	HI	-S	Elev	
		106.55			
40			4.60	101.95	2.49
2			3.10	103.45	
3			2.30	104.25	
4			2.60	103.95	
T.P.	6.45	110.46	2.54	104.01	
5			6.50	103.96	
6			6.30	104.16	
7			6.30	104.16	
8			5.30	105.16	
9			5.00	105.46	
10			3.70	106.76	
11			4.30	106.16	
TP	7.53	111.31	6.68	103.78	
			9.35	101.96	2.50
			9.10	102.21	2.75
			9.30	102.01	2.55
			10.30	101.01	1.55

ab 1/10 cm

200' Rest 10 in Wasser
400 " " 10 " "
800 " " 10 " "
150 " " 11 in doch sah Lösung trocken

BM	Sta	+S	HI	-S	Elev	
1		7.46	107.46		100.00	
	0					
	+10			8.00	99.46	0.
	10			7.2	95.46	4.00
	10			7.25	100.21	
	10			5.95	101.51	
	+75			9.66	97.80	
	"			8.00	99.46	
	"			7.12	100.34	
	"			6.85	100.6	
	1			10.15	97.30	2.12
	"			8.27	99.2	
	"			6.87	100.60	
	+30			9.63	97.83	
	"			7.40	100.06	
	"			6.30	101.16	
	"			8.00	99.46	
	"			6.80	100.66	
	70			9.00	98.46	
				7.30	100.16	
				6.10	101.36	
				7.95	99.51	
				6.00	101.46	
	2			9.55	97.9	1.60

Runn S 40° W

on Pilcher creek
40' W of Pilcher creek in woods 40' R
10' L in hole in creek Hole
15' L on bank
20' L
Cross creek
10' L creek bank
15' L upstream
20'

2' L
10' L
Cr creek
3' L
20' L
2' R
10' R
Cr
2' L
20' L
2' R
20'
Cr + Creek

116

BM	Sta	+S	HI	-S	Elev	
	2		107.46	7.95	99.5	
	"			7.65	99.8	
	"			7.85	99.6	
	"			7.70	99.76	
				6.00	101.46	
			S 35° W			
	3			9.85	97.6	1.90
				8.00	99.46	
				5.	102.46	
				8.00	99.46	
				5.00	102.46	
	+50			8.50	98.96	
			S 70° W			
	4			7.88	99.60	0.20
	"			6.80	100.66	
	"			6.00	101.46	
	"			6.75	100.7	
	"			5.60	101.86	
			S 30° W			
	+20			8.60	98.86	
	"			6.70	100.76	
	"			6.70	100.76	
			S 60° W			

2' L

5' L.

4' R

10' R

25 R

Cr. creek

5 L.

10' L.

2' R

4' R. mile edge of marsh meadow

Cr. of marsh 100' Long & 60' wide.

Cr. of Creek N end of meadow

2' L

10' L

2' R

10' R

Cr. of creek

2' L

2' R

BM Sta	+S	HI.	−S	Elev	
+70		107.46	7.25	101.2	
5			8.07	99.46	00
			7.20	100.3	
			7.20	100.3	
		S 20° W			
+75			7.50	100.	
			6.40	101.1	
			6.40	101.1	
6			7.20	100.3	0.84
TP.	+6.00	108.96	4.50	102.96	
7			7.05	101.9	2.44
			8.30	100.7	
8			6.70	102.3	2.84
11				1P 2.3	2.84

General course of creek bed from road culvert to meadow is S 50° W 600 ft to meadow

Cross road and pace up creek while Dome stays in one spot with H & S head (transit) in perfect adjustment and shoots rod readings to cross P.M. Weed dinner at 2 P.M. in stable and drive to Pinkies in rain. Calib 5:36 P.M. Home to Walker Lee Newman dinner.

John W Cross

in Fig. 1 are the
Creek beds
2' L
2' R

Creek en
2' L'
2' K
Con. of Creek

outlet across the
Creek in
in meadow

①

Hiram Twp 140-31

Oct 26-1914 Monday

Working for Hiram Twp

Ls Backus at 7 2-00 PM.

At Hack on morning Hiram Bed and breakfast with Chester Garrity 85¢ Pd

Ls Hackensack at 8 AM and walk around lake to Victor Markins in Sec 14-140-31. At 9-30

At 10 am. Victor Markin takes his launch and we go to Hack- and get survey tools and back to Markins for dinner

P.M.

A. Victor Markin & launch go up creek to Anton Linnibergs with Johnson and Johnson assist us in survey Aloe transit & 100' tape

Beg at ¼ cor bet 11-12-140-31 previously set by Cuno we run East 10.00 or about ¼ mile and quit for night

Roy Bryant

Time sheet Oct 1914

	26	27	28	29	30	31	Nov 1914 Sun 1	2	3	4	5	6	7	8
Roy Bryant	1/2 PM	1	1	0	1	1	1							
Vicks Martin	1/2 PM	1	1	0	1	1	1							
Launch	$	$2.00 1	$2.00 1	0	$2.00 1	$2.00 1	$2. 1							
Anton Linneberg	1/2 PM	1	1	0	1	1	1							
Harry Johnson	1/2 PM	1	1	0	1	1	1							
(RP) Bob S. Johnson	1/2 PM	3/4	1	0	1	1	1							
Mrs Martin Board	Cuno Bry't	00 IIL	00 IIL	00 IIL	00 IIL	00 IIL	1 11							
Roy Bryant Expense		85			pd by Cuno 35.00		$50.							
John W. Cuno				0	1		1							
Harry S Todd				0	1		0							
NJ - Grain team				0	allow $2.		0							
Johnson Bros Board Bryant							1.00							

(1)

121

122 Hiram Twp ③ 140 – 31

Oct 27 – 1914 Tuesday.

Continue East thru cen of Sec 12 140 – 31 @ 10°v also transit Martin Flag Bryant transit Man Johnson Limberg & Johnson Appleman Run one mile to East side Sec 12 & quit for night still staying with Martin. Johnson loses ½ day in a.m.

Oct 28 1914 Wenesday.

Same Crew Begin at an old post near ½ cor Sec 7 – 12 140 – 31 and run south at 8°30' v not Chained run to bunch lake and quit for night All get in full day in Hiram Bryant – Martin – Limberg & Johnson Bro work

Oct 29 – 1914 Thursday

Town Board meet and I am laying off Swalk & Hoch and take dinner with Cuss at Farrily's hotel Cuss pays 70° for our dinner.

Oct 30 1914 Friday.

Beginning @ N.E. Cor Sec 12 140 - 81

Iron Post @ 9.35 @ 1041.90 Hub 1320 Temp 1/16

1646 Cent Bridge 2570 Hub 2644 Temp 1/4

Brook 8 S 23 E 75 Lks = gone

US Naile Stg W Oak 14 N 72 W 80 Lks = gone At 3960 Hub

at 4822. Mc N 21 sets N 3.70 ft

4852.00 U.S. Chain = 4822.00 Our Chain,

Being 30 ft short. ← wrong

Correcting Back

{0.6183}

4852 gros East 30 ft to 4822.00 ft

3960 gros East 24.48 to 3935.52 "

2640 gros East 16.32 to 2623.68 "

1320 gros East 8.16 to 1311.84 "

Mistake see page 140 1/4 Twp Book Calc

Correcting North

3935.52 gros N 3.00 ft Set Iron 1/16 Cor

3626.68 gros N 2.00 ft Set Iron 1/16 Cor

1311.84 gros N 1.00 ft Set Iron 1/16 Cor

Beginning @ 1/16 Sec 12 - 140 - 31

Iron South @ 9.30 to 1/4 Line. Set

Hub @ 280.40 ft South 558.15 Hub Set South

1031.10 Hub Set South @ 1320 Set Temp

1/4 Cor @ 1575.30 Hub Set South.

2065.25 Hub Set South. 2590.50 Hub

Set South

at 2640 - Temp 1/4 Cor 2817.25 Hub

124 ③

Hiram Twp. 140-31 Sec 12

Oct 30-1914 Friday

Roy Bryant- Victor Mailin chainmen

100 Model Case + Plumb bob

Anton Linnibeg- Bob Johnson and

Harry Johnson making stakes

Begin at the 1/4 Cor bet 11-12

140-31 Chain transit line East

Hiram Twp (1) 140-31

Friday Dec 4-1914

I figure corrections of Surveys made in Hiram Twp 140-31 all am

P.M.

Roy Bryant - I trains horse & buggy and I the 5 iron Sec corners and Dist to Victor Martins place in Sec 14-140-31 back to Rock at dark $1.75 for trains horse No pay for Bryant or I.

Cuno right at home in Hackensack

I pay Bryant $2. he has just come from Cass Lake and is on his way to Spokane on a visit

Saturday Dec 5th 1914

Harold Cuno shakes me a canoe Buck Lake to Victor Martins where we get the transit and go with Victor and Elmer Blanchard to the iron corner To 10-11-14-15-140-31 previously set by me

I mark new bearings as follows:

Tam S 9°19'20" W 101.00 feet

" S 87°30' W 135.10 " To flat spot @ 9°40

Gurley transit 100' steel tape & Plumb bob

Run E on 9°40' Var

at 220 ft Ld swamp - enter Buck Lake Bay N to S.

John W Cuno

at 860 Lo Brich Lake Bay Brs N&W & S E @ 900 Stake 930 Lo swamp bottom Pond 1000 Hub. 1224.40 Hub on small hill @ 1300 West edge of poplar stumps @ 1340 Center of sea wall 1350 waters edge enter Brich Lake which bears N E and S W @ 2017.80 Stake on ice 2344.50 Stake on ice 2600 Stake on ice 2882 Lo Brich Lake brs N W & S E 2900 Stake 2981.65 Hub on hill 3000 Stake 3500 Stake 3518.70 Lock in Pop stumps

Quit for night Harold & I eat lunch with Victor Mains Shall home one mile from Victor Mains Over night at home in Hock Gurley transit double end hub 100' steel tape P.B. chain Victor & I ch- Blanchard cuts brush Me pay for Harold

Sunday Dec 6-1914 All laid off

Monday Dec 7-1914

Beg @ 3500 Continue East @ 3518.70 Lock in Pop stumps 3900 Stake 4200 Stake 4527.40 Hub 4809.60 Hub At 5178.50 the iron corner previously set by me for Cor 10-11-12-13-14-140-31 sets South 2.60 ft

James A Cain

Time Sheet Hiram Twp 1-40-31 Dec 1914.

	4	5	6 SUN	7	8	9	10	11	12	13 SUN	14
Jabnet Cuno	1	1	0	1	1	1	1	1	1	0	1
Victor Modin	0	1	0	1	1	1	1	1	1	0	1
Elmer Blanchard	0	1	0	1	1	0	1	1.	0	0	1
Harold Cuno	0	1	0	0	0	0	0	0	1	0	0
Spains horse	1/2 @1.75	0	0	0	0	0	0	0	0	0	0
Roy Bryant	1/2 PM.	0	0	0	0	0	0	0	0	0	0
Mrs Holm Cuno Board	0	11	0	1	1	1	1	1	1	0	1
Wiloss Carwin Blanchard	0	0	0	0	0	1	1	0	1	0	1
Anton Lindberg	0	0	0	0	0	0	0	0	1	1	1"
Mrs											

(W)

121

Corneling Back [000502]

5178.50	gass	2.60	4809.60	gass	2.41
4527.40	"	" 2.27	4200	"	" 2.11
3883.87	"	" 1.95	Set 2×48" Gal 1½ Cor. Capped not mkd- in mound		
3600	"	" 1.81	3500	gass	1.76
3182	"	" 1.61	2981.65	"	" 1.50
2589.25	"	" 1.30	To ¼ Set in ice		11-14-140-31 Spike

At 2589.25 set transit on line ¼ on ice turn 90° angle from line line and run North 60. feet + Set 2×48" Gal Iron pipe - Capped not marked - in 1½ ft mound N.C. to ¼ New BTS with Gurley compass @ 9°40' E

Birch 6S 55°30' W 19.70 ft } To Hot spot
N Pine 12 N 87°30' E 44.38 " } Wit ¼ Set 11-14 140-31
Berry 60 ft North of line ¼ Cor 90° to line line

At 1294.62 S. 0.65 { 2×48" Gal Iron ¼ Cor Not Capped
1224.40 gass 0.61 1000 runs 0.50

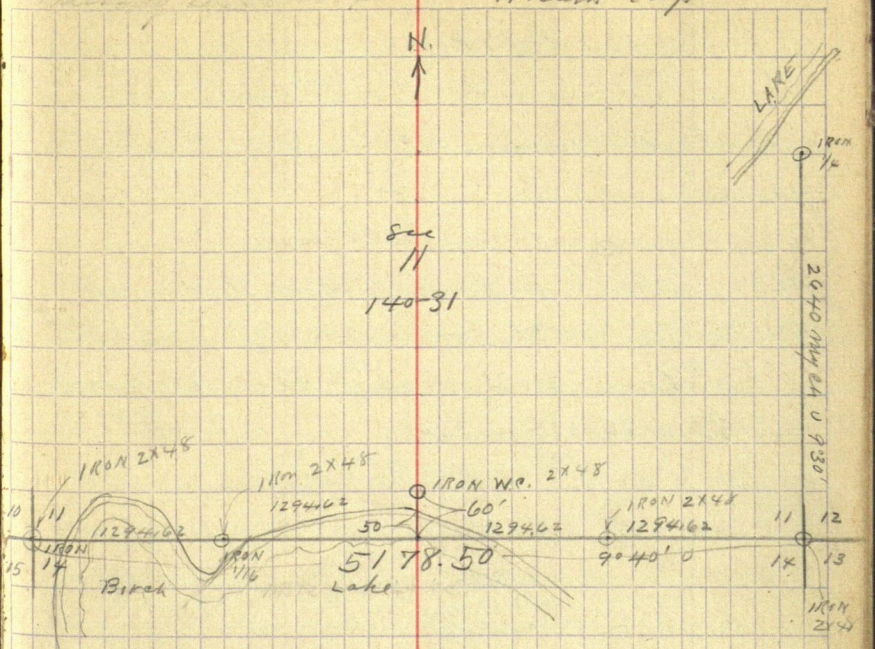
At all points set oak hubs and stakes marked "Road Cor" - "Tree See Line" - Set by Cuno"

Out for night Walk home to Hochmiller Dinner out with Violet Martin

John W Cuno

Tuesday Dec 7 1914

(5) 140-31
Hiram Twp



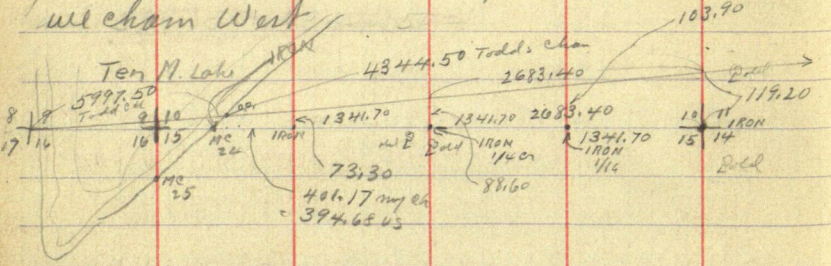
(14)
140-31

⑥ 140-31
Hiram Twp

Tuesday Dec 8-1914

Elmer Blanchard & - Victor Martin and John W Cass Chainmen 100' tape R.B. Gurley transit

Beg at a point in Todds old transit line 119.20 feet North of the mon corner to Secs 10-11-14-15-140-31 and 4344.50 ft East of a stake O.O. on E. bank of Ten Mile Lake we chain West



Going West: At 273. Tocha in big wh log 567. Hub 983 old hub. 1000 stake. 1300 stake 1540.60 old hub 2150 enlt to edge of meadow 2375 to same at 2547.40 find old hub mrkd "1795.30E" (This shows that Todd was not pulling his chain light enough when he chained E as he was off 1.80 ft)

At 2600 set stake: at 2683.40 The line 1/4 corner sets South 88.60 feet (90° to bearing of line) At this point, being the 1/4 Corner between Secs 10 and 15-140-31. U.S. notes call for a post and the following bearing trees:

John W Cass

Dec 8-1914 Continued

N.P16 South 72 Lks = 47.52 ft

W.P18 S 78°30' W 81 " = 53.46 "

We find the stump of the south line and the dry hill mile of the EW line dimly marked and from face of both trees we set the 1/4 corner by flat chain from face of trees after which @ 11.00 on the South old stump stands correct for course and distance and the EW old bearing tree stand correct for distance but stands S 41° W

This is correct as measurements hold over courses. We set a 2 x 48 inch galvanized iron pipe no cap or anchor rod - set its full length in a one foot mound of dirt for the line 1/4 corner between Secs 10 & 15 - 14 - 0 - 31

Going a quarter of a mile East we chain west on old transit line to 1341.70 Then chain South 90° to transit line 103.90 feet where we set a 2 x 48 inch galvanized iron pipe no cap or anchor rod - set its full length in the ground in a 6 inch mound of dirt for the line 1/16 corner West of the corner to Secs 10-11-14-15 - 14 - 0 - 31. Quit for night - over night at home - down out with Victor Martin

John W Cano

Wednesday Dec 9-1914 (8) 140-31 Hiram Twp

Still working for Hiram Twp.
Considering the length of the line bet sec 10 and 15-140-31 proportionally as compared with the East half mile U.S. Chain. I begin on Todds transit line 4025.10 feet west of the corner to sec 10-11-14-15-140-31 being 1841.70 feet west of the U.S. 1/4 corner bet 10-15-140-31 and chain South (90° to transit line) 73.30 feet where we set a 2x48 inch galvanized iron pipe no cap or anchor rod and set its full length in the ground in a 6 inch mound of dirt for the line 1/16 corner West of the 1/4 bet 10-15-140-31

Correcting lines. [.011403] S

273. goes South 116.09. 567 goes S 112.73
983. " " 108.00 1341.70 S. 103.90 To IRON 1/16 Cor
1540.60 " S 101.63 2547.40 " 90.15
2683.40 " " 88.60 To IRON 1/4 Cor bet 10-15-140-31

Chaining still West from a point 119.20 ft N of iron cor. to 10-11-14-15-140-31 following Todds old transit line back At 3382.70 find old hub marked "960.33 E" (This shows that Todd was not pulling his chain light enough when he chained East as he is off 1.47 ft)
At 4174.80 find hub at 4326.40 find hub

on lake bank which was set 18.00 ft East of Todds hut No 00. At 4344.40 Todds old 00 stake This total chain of 4344.40 my chain = 4344.50 Todds chain or 0.10 of a foot difference in the total run

At 4380 intersect waters edge of Ten Mile Lake which bears NE and SW

Todd's stake 00. on East side of Ten Mile Lake is 5997.50 ft East of the iron corner to Sec 8-9-16-17-140-31 as chained across this last year by Guy A. Todd and Deloss Orwin Blanchard.

Coneeling West from 1/4 Sec 10-15-140-31

E 01 1/4 03 S]

2683.40 W. goes S 88.60 to iron 1/4 Sec 10-15-140-31

3382.70 goes S 80.63 "

4025.10 " " 73.30 { To iron 1/16 cor. at NE Cor of Govt Lot #1 Sec 15-140-31

4174.80 goes S 71.60 OK 4326.40 S 69.87

where we set transit - back sight on iron at NE Cor of Lot 1 and run west and chain from iron NE cor Lot 1 Sec 15-140-31

at 394.68 Temp Mg. thence probably west [01644 W] = 6.49 + 394.68 = 401.17 ft

At Hub 4326.40 we chain south 69.87 ft

James Cano

and set flog with bismit at iron
NE Cor of lot 1- Sec 15-140-31 Turn Theo-
cope on flog and run west on line line
10°20'S at 231.30 set hub on second sea
wall At 369.15 set hub close to small
house on line Turn 90° angle and run South
16.00 ft set mobile Turn 90° angle and
run west 32.02 ft to 401.17 west
thence 90° angle and run North 16 feet
to line line where we set a 2x48 inch gal
iron pipe no cap or anchor rod set its
full length in the sandy sea wall
for line N.C. N° 24. on East bank of Ten
Mile Lake between prochonal Sections 10
& 15-140-31 where US nails call for Post and
WP 24 N43°E 43=28.38 ft Asp 6S 10°W 20=13.20 ft
We find old roots of the NE B.T. which checks
in course & distance Mark new B.T.s viz
Birch 20S41°W 45.43 ft 1-8d nail in flat spot
at base. Oak 3S43°E 18.85 ft 1-8d nail
Cor of old house sets E at 9.00 ft. 2" grain
birch stump west about 1.00 foot U 10°20'
We connect line E and set hubs and tell stakes viz
3382.70 S 80.63 ft 2547.40 S 90.15 ft
1540.60 S 101.63" 983. S 108.00'
567. S 112.73" 273. S 116.09"
Deloss Carwin Blanchatt works in place of his father Elmer
Skinner out with victor Martin Over night at home in Bad

John W Cano

Thursday Dec 10-1914

Hiram Twp Beg@ cor 1/4 on West sub. of Sec 15-140-31 chain E on Sec to take out transit line ✓ 11° E

402.20 found Hub	931.20 Tacking by
1300 stake	1358.80 Hub
1663.70 Hub	1695 enter ice on lake N&E
2500 stake on ice	3230.70 found old stake
3400 cross solid ridge in meadow N&E	
3425 enter ice small lake	3710 L in ice NE&E
3740 L in meadow E&S	3776.80 found old stake
3900 stake to edge of marsh	4100 stake 100's of E end of meadow
4388.50 Hub	4400 stake

PM

at 4791.20 Hub	5200 stake
5218. Hub	

5215.00 ch. line cor 1/4 corner between Sec 14 & 15-140-31 sets

South 74.80 feet (90° angle ✓ 11°)

Correcting back [00143432] S on E and W Centr line of Sec 15. 140-31

5215 gals S	74.80 /✓	4791.20 S	68.70 ✓
4388.50 S	62.94 ✓	3900. S	55.93 ✓
2500. S	35.85 ✓	1663.70 S	23.86 ✓
1358.80 S	19.49 ✓	931.20 S	13.35 ✓
402.20 S	5.77 ✓		

DC Blanchard & Elmer B.

Elmer Cuno & Martin chainmen Carman & Travis dinner lunch with Martin & Blanchards house overnight at Hiram Hotel

100' lake P.B. Gurley

John W Cuno

136 (12) 140-31
Friday Dec 11-1914 Hiram Twp

Victor Marlin walks to Anton Linnsberg's to get him to help on survey. Elmer Blanchard and I begin at iron 1/4 Cor bet 15-22-140-31 and chain North along an old transit line run by Guy H Todd 9°30' E at 350 Lv cranberry bbg @ 740.20 old spike 1200 stake 1537.20 find old spike 2230.40 find spike. 2350 enter marsh 2600 stake in marsh 3550 Lv marsh 3600 stake 3900 stake. 3936.30 spike 4000 stake. I continue chaining North with Victor Marlin at 5200 stake 5212.20 find old spike 5280 spike At 5298.40 the iron 1/4 Cor bet 10-15 140-31 sets West 46.00 ft

Coming back [Q868187] W. N & S cen/line 1/4 sec
5298.40 goes West 46.00 ft 3936.30 W 34.18
3600 W 31.30 ft W 2600 W 22.60 W
2230.40 W 19.36 W 1537.20 W 13.37 W
740.20 W 6.44 W Elmer Blanchard - Victor Marlin + I work all day Anton does not show up. Marlin takes lunch for us both and we eat it at Blanchards house or we home every day since we started this last work. Overnight at home in town $3.25
from Jenkins Corner, Walden Creek

John W Enos

Saturday Dec 12-1914

Harold-Harold & I take hand sled and bring 3 iron corner accessories to Victor Martin where we meet Victor and walk to cen of sec 15-140-31

To put in cen of 15-140-31 I set transit on corrected hub 2230.40 N and 19.36 W and focus telescope on corrected hub 3936.36 N and 34.48 W Then set a line of stakes N & S on ice in marsh

Then

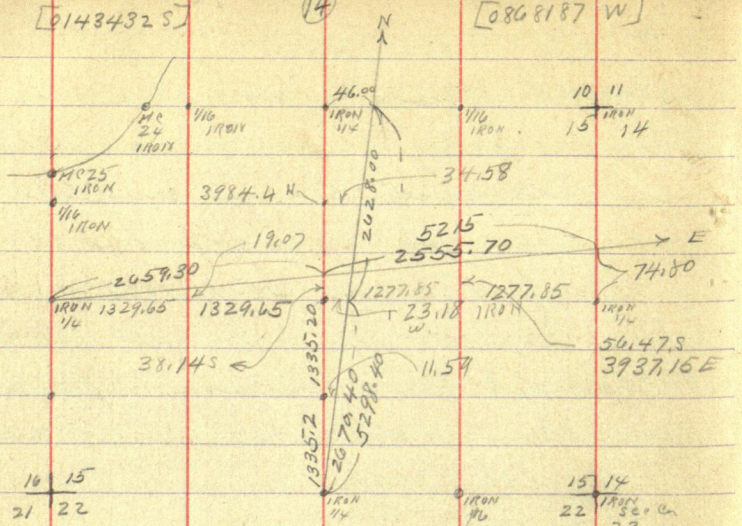
set transit on corrected hub 1663.70 E & 23.86 S. Focus telescope on corrected Hub 3900 E and 55.93 S and sight East along correct cen line to an intersection with line N & S line of small stakes where we chop a hole in the ice and set a 2X48 inch galvanized iron pipe no cap and driven solid over a 5 foot GP piling driven solid in bog and left sticking 2½ feet above swamp level.

At a point 2659.30 E. the Center [0143432] of Sec 25 sets South 38.14 feet

At 2670.40 N. the cen of Sec 15-140-31 sets West 23.18 feet

To put in the center of the West half

138 [0143432 S] (14) [0868187 W]



of Sec 15-140-31 we begin a Hub 1358.80 E. and chain West 29.15 feet to 1329.65 East Then chain South (90° to transit line) 19.07 feet where we drive a 2X48 inch galvanized iron pipe no cap or anchor rod set its full length in the ground for the true 1/16 cor in Center of West half of Sec 15-140-31 from which we start a picket line north @ 9° var. when we start Anton L Zimmerly and Delos C. Blanchard cutting North thru cen of NW¼ of 15-140-31 Victor Mailen and I walk to Hub 3986.30 N and chain still North from stake 3900 N we chain 84.40 feet

John W Cuno

to 3984.40 North then went (90° to line) 34.58 feet where we drive a 2x48 inch galvanized iron pipe in copper ancho rod set with top 1.0 above ground for 1/16 in cen of North half of sec 15-140-31

Quit for night Overnight at home in Hack Gould & Harold with me all day. Victor Madsen takes a lunch for my dinner and we all eat at Elmer Blanchards house in sec 15-140-31 Elmer is at Foley Delos works in his place.

We plan to work tomorrow but may not

Sunday Dec 13-1914.

Victor Madsen Batchen Calf. Too Cold to Work and I stay home all day in Hack.

Fabian Leninberg walks to Elmer Blanchards expecting to work but does not find us Cuts line a while and goes home. Delos Blanchard works with him.

Wind swings in nw. Cold.

John W Cuno

140 Monday Dec 14 - 1914

MISTAKE Brot from Page 123

Note:- When we set the iron along the North side of 12 and South side of Sec. we figured the U.S. Chain or 4852 but it should have been and is 4752. ft US chain See U.S. plat and is 4822 ft our Chain

Beg @ NE Cor of 12-140-31 run west 104.90 Hub 1311.84 iron, 1320 Temp 1/16 1646. Cen of bridge creek runs South 2570. Hub 2623.68 iron. 2640 Temp 1/4 3300 stake 3441. Hub 3935.52 IRON 3960. Temp 1/16 @ 4752.00 Temp M.C. The line M.C No 21 - 140-31 sets West 70.00 feet At 4822 intersect M.C No 21. on E bank of Ten Mile Lake bet Secs 1 & 12 - 140-31

4752. ft US = 4822 ft my ch or 70. ft long

Correcting back [00147 3064] O.K.

4752. goes west 70. ft & 4822. 3960 goes West 58.33 To 4018.33 to line 1/16

2640 goes West 38.89 To 2678.89 Tem 1/4

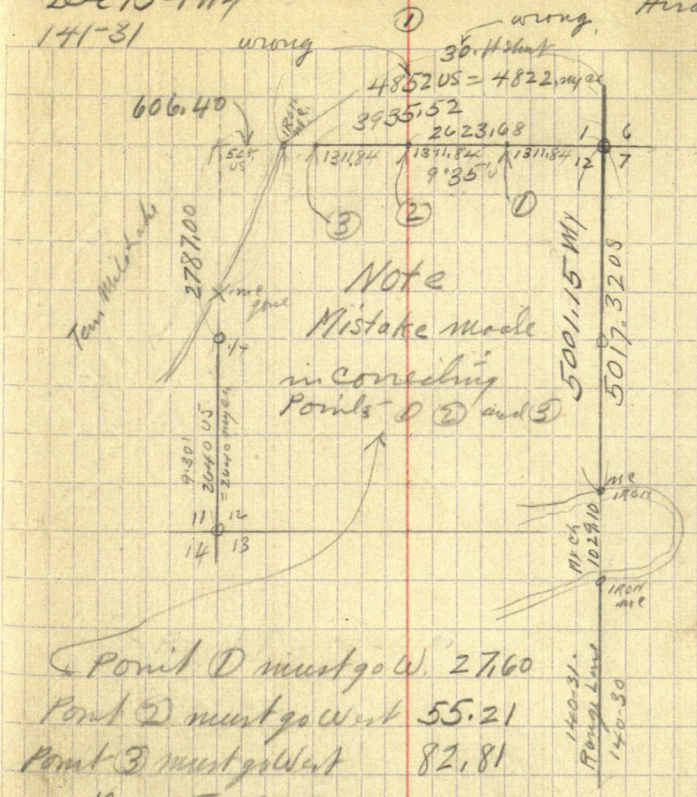
1320 " W 19.44 To 1339.44 Tem 1/16

John W Cure

Dec 15-1914

141-31

Hiram 141



Point 1 must go W. 27.60

Point 2 must go West 55.21

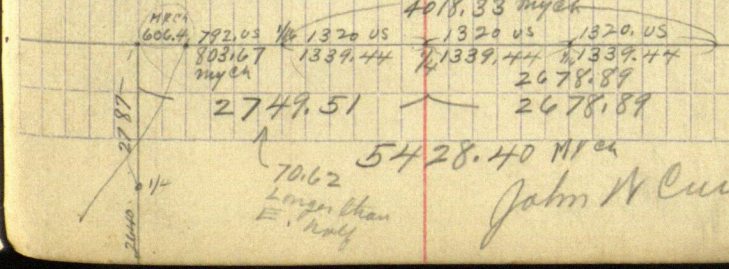
Point 3 must go West 82.81

Dec 15-1914

Corecting N. Boly Dec 12-140-31

4752.00 ft US Chain = 4822 ft my chain or 70.00 ft too long

Corecting [illegible] 1473.064) ok



142 140-31 ② Hiram

Saturday Jan 9th 1915

(Backus Notes of ④ G.E. Goins.)

August 25/15 I left Wacker at 9.27 A.M. on the Minnesota & International Ry & went to Backus having been informed by John M. Cree that the city Council of Backus, wished to have some grades established & surveying done. I arrived at Backus at 10.30 A.M the 25/15 inst & found Mr Reynolds & Mr Miller (both of the town Council) & had an interview with them regarding the work that they wished to have done. After going over what information I could obtain from Mess Reynolds & Miller I find that nothing can be accomplished without further information, so after going over the ground, I came to Walker on the 4 P.M. train Aug 25/15. to look further information & notes, which I obtained in the Registers of Deeds & County Surveyors offices on August 26th 1915

While looking up matters relating to the Village of Backus, I find that the Original Plat of Backus, was made up from certain surveys & certain platted carelessly. as I find a survey on record attached to the recorded Plat of the Original Plat of Backus. As to Washburns addition I found that this survey had been properly made & Recorded all monuments & descriptions, being properly noted on Recorded Plat on file in Register of Deeds Office in Wadena County.

August 27/15 I again left Walker at 12.37 Midnight via the M & I Ry and arrived at Backus at 1.40 A.M. the 27th after Breakfast I go around with Information & notes & see the Farm Brand & find that I am able to run on Mississippi Ry roads & Missouri, after

advising Messrs Nielsen & Reynolds of what I can do. Then obtain two helpers for me (1) Clyde Bundy & (2) Geo Fox, whom I secure, sister Alexander, Chairmen & Rodman & proceed to do my work as follows.
First I locate Corner Mon on E & W. Section line between Sections 30 & 31. T 139 N, R 30 W. and Centers of Front St & King St. after locating these points I locate all four corners of Block "B 2" Washburns addn. Then I proceed to establish Elevations for sidewalk around Block "B 2" Washburn addn. as follows using B.M. #3 on So side of Telephone pole (Arnold) located on So side of Washburn Ave & South West from Bailey's Store Elevation (1343.05) Took Elevation established by John N Evans. I find top of sidewalk at Bailey's Cor 5 N. on Washburn & Front St to be 1343.82 I then

established the Bick mark
Grade at the SE cor of Block
#2 Original Plat Elev 1343.65
for top of Bick mark. Then I
established Grade at all four
corners of Block "B2" Washburns
Addition for Bick mark as
follows N.W. cor Elev 1343.65
NE cor Elev 1343.65 SW cor Elev
1343.02 & SE. cor 1343.02 -
These are for top of mark as
noted by markings on stakes
I then placed 3/4" - 24" round
iron stakes & placed one at
each the S.E. & S.W. corners of
Block "B2" Washburns Addition
no stakes being placed at the
N.E. nor N.W. corners of said
block "B2" Washburns Addition.
as a building stands on each
corner one tapping by two or three
inches. I then set & tied the
S.W. cor mi of Block #2
Original Townsite, being
the S.W. corner of Reg nords

Stone. I find this corner established by a 1" Galvanized iron pipe. I measured along the West line of Front St. South 176 ft to the South line of Section 30 T139 N R30 W. Then I produced said Section line West to an intersection with the M & L Ry Main Line & find the Angle in the N.E. to be 90° 57' checking to within 3' of true angle of 91°
I now leave Backus at 4 P.M. August 28th & go to Walker.
(Field notes & Calculations Pgs 155 & 157 this Rec)

Time & expenses.

Aug 25/5		Own	day	$5.00	Self.
" 26		"	"	5.00	"
" 27		"	"	5.00	"
" 27		1/2	"	1.50	Geo Fox
" 27		1/2	"	1.00	Clyde Bundy
Aug 25	Fare Walker to Backus & return			.98	
" 25	B. D. & Bed Walker			.75	
" 25	" Backus			.50	
" 26	B. D. & Walker			.75	
" 26	Bed Backus			.40	

Cont on page 149.

Aug 26/15	Fan to Buckus	49
Aug 27/15	B & D Buckus	50 ¢
" 27	S & Bird Wuckus	50
" 27	Fan Buckus & Wuckus	49
" 28	B "	

Backus st. grades.

June 16, 1921.
E. B. Horst, & Ervin McPherson establish street grades in Backus, Minn.
Begin at Miss. Riv. Com.
P.B.M. elev. = 408.6916 Meters.
= 1340.864 ft. 1 foot aboveground.

	+S.	H.I.	-S.	elev.	
B.M.	4.42	1345.28		1340.86	
T.P.			3.10	1342.18	N. on R.R.
T.P.	5.23	1347.41			
			4.50	1342.91	
T.P.			4.30	1343.11	
T.P.	4.00	1347.11			
			4.24	1342.87	
			3.48	1343.63	
	0.46	1344.03			
			1.74	1342.29	
			1.78	1342.25	
			2.33	1341.70	
			5.15	1338.88	
			5.30	1338.73	
			6.30	1337.73	
			8.15	1335.88	
			2.87	1341.16	

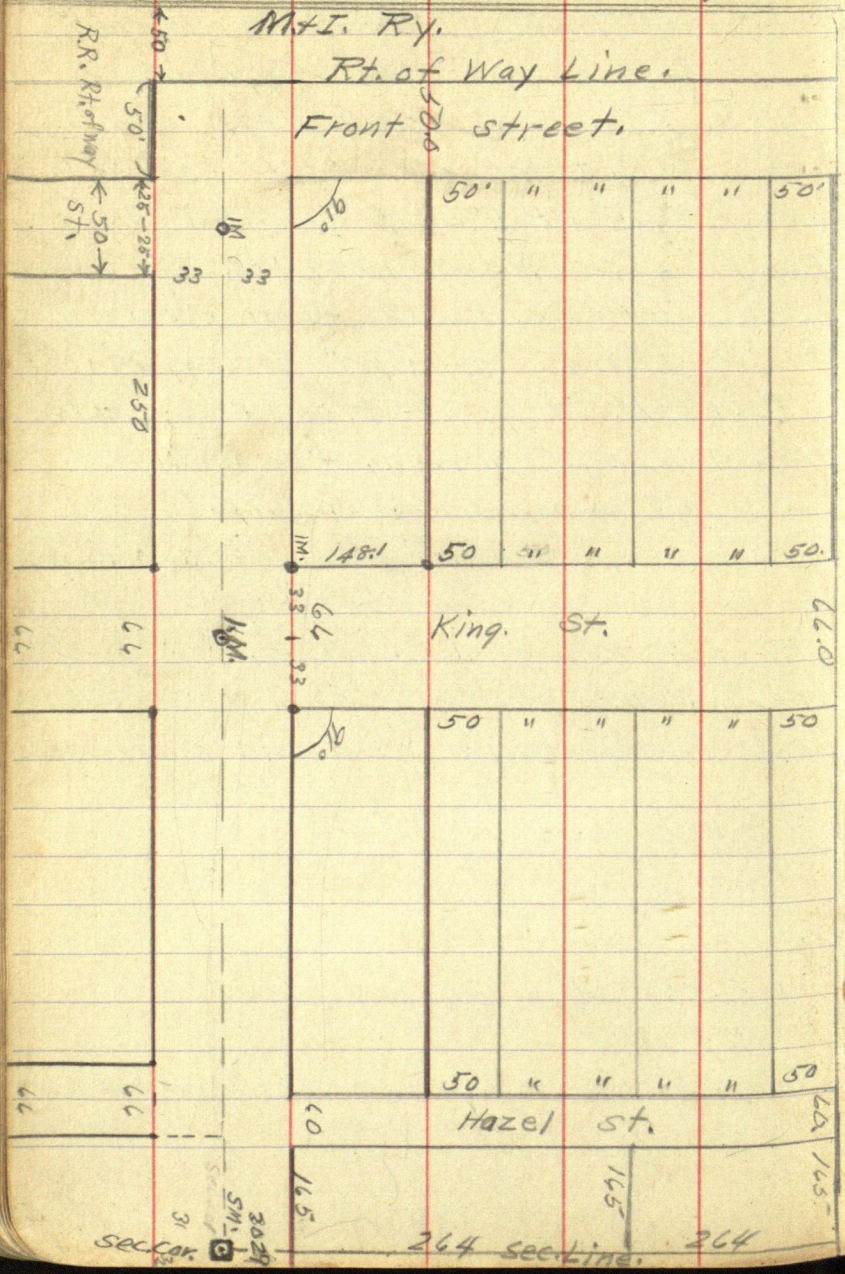
P.B.M. Ref. pts. June 16, 1921
by E.B. Hart. Deputy County
Surveyor, Cass County, Minn.
M.R.C.- P.B.M. sets 30 ft. W. of ℄
of S.R.H. # 80 Now State Road #1,
and 51.5 ft. E. of ℄ M.+I. Ry.
and exactly on line with the
Poles of the Backus + Pine River
High Line. An 18" Norway Pine
Bears N. 77°45' E. 109.0 ft. to tack
on Blaze. Norway Pine is on W.
side of a tamarack swamp.
On Base of W. Rail - in line with S. end. Brick Bldg.

E. of stock yard on Tie.
Top of W. pillar on N. side Water tank.
Top of side walk at N. end Baileys steps.

garage on
Bank.
S. crossing at R.R.
N.E. cor. Blk. 3 on walk.
S.E. " " " "
S.E. " " 4 at cor. on ground
N.E. " " 4 " " " "
M+I Top of Rail.

Backus sidewalk grades, and Blk. corners.

In Blks. 2 & 9. orig. plat.



May 18, 1922 Horst & Beach Levels for sidewalk
S. Side Blks. 2-9- orig plat.

+S	H.I.	-S.	elev.	(Top Baileys walk 1343.43)
3.80	1347.43		1343.63	Top of Baileys walk 1343.43

13-3

15-4 Backus 8/27/15-

1343.65
4.20
1347.85
1343.65

(1343.05)
+ 4.72
1347.77
- 4.75
1343.02
+ 0.10
1347.12
- 4.00
1343.12 Grade S.E.

Grade Backus cor.		1343.82
N.W. cor	Blk "B2"	1343.65
N.E. "	" B2	1343.65
S.W. "	" B2	1343.02
S.E. "	" B2	1343.12
S.E. "	Blk #2 Original	1343.65

Clyde Bundy.
Geo Fox.

On tile pole SW cor Front + Washburn

Hel.

Ground at SW cor Bk "B.2".

~~Boiling Spg 1345.59~~

~~King + Washburn 1343.88~~

cor Bk "B.2"

47.77 Hel
+43
43.34

5.90 Rod @ SE cor King + Washburn

4.90 " " NE "

47.8
5.6
42.2

47.77
43.02
4.75

4.7
0.6
2.5

5.6 cor. ground.

5.90 Rod

47.77
- 4.12
43.65

47.8
5.9
4.9

43.02
43.64
8.6 4
43.3

134777
4.12
13k365

43.02
+ 4.72
47.74
- 4.13
43.61

47.1
43.38
3.74

47.77
3.95
43.82

North 176' from Reynolds S.W. cor
S to the Sec Line between Secs 30 & 31
Gas pipe at the S.W. cor of Reynolds store
being the S.W. cor of Blk # 2 Original
Townsite of Bacon.

Backus

33.
140
20.
175.
40.
408.
37.5
445.5

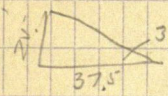
140.
20.
190.
37.5
33.
420.5

33.
140.
20.
175.
40.
408.
320.5
77.5

25
7
175

33
33
99
99
1089 (46.67
21 78
16
578
516
62 00
55 56
6 44 00
6 52 89

86.)
926)
9327)



330 22'

0.6667 (283.)
375) 250000
2250
2500

250
33

37
38
296
111
14062.5
1625. (45.0
2031.25
26
431
425
6250.0

4)
85)
900)

N
90°
57'
M+1.
Ave.
T+K
S
Sec
W

158

1.015
5
5.101
1015
10
5
1030
1301
1030
31
4
1062
2601
1062
64
2
8
1128
1211
6
1128
113

1.268

1.268
5.5.5
6340
6340
6340
703.740

20 years

$$A\left(\frac{1.015^{40}-1}{1.015-1}\right) = \$30\,000$$

370

.015 · 811 (3

811) 1500 (.0185
811
6890
6488
402

$1110

.5555000
32
37

811) 3000 (.037
2433
5670

37

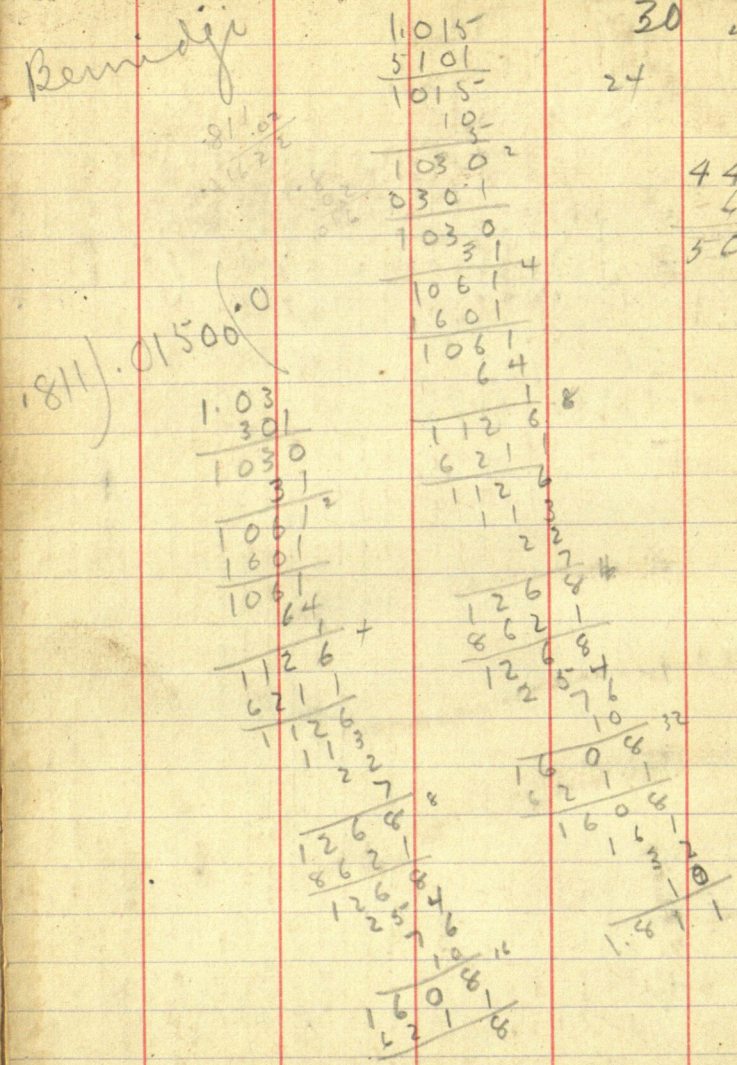
1.015
5 101
1015
10
1030
0301
1030
31
1061
1601
1061
64
1125
6211
1126
1132
2
1267
1266
8621
1264
23
76
10
32
1.6081
6211
6208
1601.2
1
3
10
1.8

160.

Feb. 12 Th. 4 P. M.

H

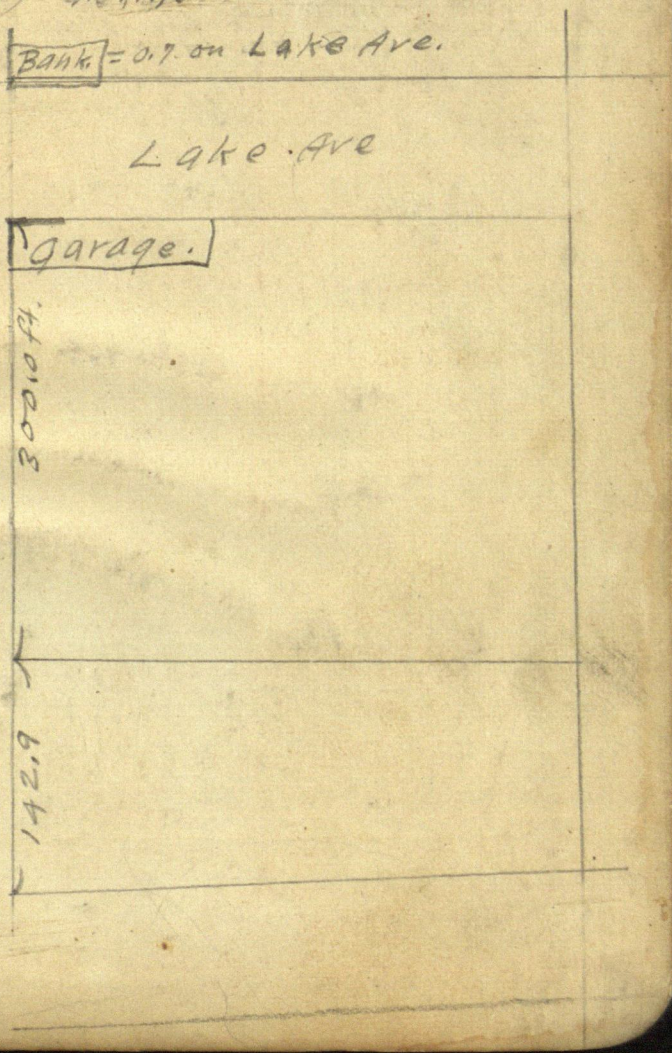
Bermuda



508.9

H-

Baileys store is 0.2 ft. S.
Dist. S. from Bank to Baileys cor.
= 508.2
Bank = 0.7 ft. S. on st.
garage No. line = ok. on st. Line.



39.37
37
27559
11811
145.69
121.39

4.65

3.62
85
63
60

X. 121 ft 4.65"

E. 85 ft 3.62"

145
60
225
17

2263
1745

1343.634.6

4.69

H.I. 1348.30
4.65
1343.65
1343.02
.63

3.14

3937
26
23622
7874
1023.62

1343.82
1.95
1342.07
1340.84
1.23

1348.30
1343.02
5.28

433 Thousand -

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44 2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.