

216

DEITZGEN
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THE ENGINEERING SOCIETY

ENGINEERS'
FIELD BOOK

No. 403

216

Book No. 1.

Note:

If this book is
lost, finder please mail
immediately to

John W. Caro

Walker Minn

and receive a liberal
reward. Please send

by Registered Mail

Aug 17-1917

John W. Caro

Note: To-day June 18-1925 I received this
book by registered mail. Insured. From

Lawrence Metivier Park Rapids Minn.

3 or 4 years ago I loaned this book to Guy Todel
then a runaway at Park Rapids - he died 2 or 3 years ago.
J.W.C.

See Book

No 204. Used for

4.

The 1st of Nov 4 is in
Park Rapids Now

or should be

John W. Caro

Walker Minn

Feb 2-1925

See 204

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First Nat'l Bk Pegoot-5-135-29-Pg 118-

April 11-1917 Wed
 141-29 I am surveying for
 Mr Robert Atkins who owns
 Gout Lot 5 Sec 18
 N $\frac{1}{2}$ of NE $\frac{1}{4}$ " 19 } T 141-R 29
 NW $\frac{1}{4}$ of NW $\frac{1}{4}$ " 20 }

L. Walker 9-30 AM - Ft. Cyphers
 L. Cyphers 11 A.M. Via 2. horse team
 with Robert Atkins to H. Atkins house
 @ 2-PM - (with my wife and baby)

At 2-30 PM. we go to the cor. to
 Secs 13-18-19-24 Bet

T 141-R 29 T 30 where US marks
 call for post to BTS V.ig

Torn 12" N 66° E 26 LKS = 17.16 Ft

Cedar 5' N 67° W 37 " = 24.42 "

Torn 7 S 25° W 18 " = 11.88 "

Cedar 20 S 11° E 16 " = 10.56 "

We find a new 3x3 Cedar post set by

H. Surveyor Mr. M. A. Kemp for the line
 section corner. We also find the
 old US. BTS plainly marked which
 check out perfect for measurement
 from the center of the new stake to the
 face of the "BTS" marks on the
 John W. Curo

(2) April 11-1917

old US. B.T.s except that the old stump
of the SW-Tam is .68 of a foot to close

From the new stake old B.T.s stand $0^{\circ} 3'$

old Tam $12^{\circ} N 65^{\circ} E$ 17.16 Ft = stump 4th hi
" Cedar $5^{\circ} N 65^{\circ} 20' W$ 24.42 " = green tree
" Tam $7^{\circ} S 26^{\circ} W$ 11.20 " = 5 inch stump
" Cedar $20^{\circ} S 11^{\circ} E$ 10.56 " = green tree

We find new B.T.s on fallow $0^{\circ} 8' 40''$

Now Cedar $10^{\circ} S 36^{\circ} 10' E$ 13.50 Ft

" " $8^{\circ} S 40^{\circ} 30' W$ 18.10 "

" Elm $5^{\circ} N 30^{\circ} 40' E$ 20.85 "

" " $10^{\circ} N 6^{\circ} 40' W$ 30.25 "

Stake sets 12. Ft South of creek
which runs East

From this new stake
we chain East on old cut out transit
line run by M. H. Kemp:

Ht 182 Ft E cion 4 ft creek which runs N.
@ 300.-600.-900 set cedar stakes

@ 1164.60 a new 3x3 square cedar stake
from which a cut out line runs North

Ht 1200 E set stake

Chain 3300 ft East and quit for
night. Run by transit - 300 ft
Chi steel tape. Cross chain & transit
Ale Larson Ch & Ax. Geo Larson of
Robert Atkins Ax

Over night with Atkins (with Alma
and Reed)

John W Curo

Time Sheet workings Robert Adams April 1917

	10	11	12	13	14	SUN 15	16	17	18	19	20	21	SUN 22	23	24	25	26	27	28	SUN 29	30
John WCuro		1	1	1	1	0	1	1	1	0	1	WCH bone	0	0	Cane Block	0	1	1	1	0	1
Robert Adams		Team P.R.	1/2 PM	1/2 AM	1	0	1	1	1	0	1	Team P.R.	0	0	Team P.R.	0	1	1	1	0	1
Old Larson		1/2 PM	1	1	1/2 AM	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
Geo Larson		1/2 AM	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
Ray Parker		0	0	3/4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Joy Parker		0	0	0	1/2 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(W)

5

141-29- Secs 18-19

April 12-1917 Thurs

John W. Curo, Hurley liantit 300' left
Old Larson ch & c. Geo Larson his son asRun E bet 18 & 19-141-29 running a
little South of Kemps liantit line to miss
a fence, further East

At 300, 600, 900, 1200 stakes set with
liantit. At 1213, E. nail in rotted cedar stump
1368.18 Temp 416. at 1400. Lo heavy green tan
& cedar sup: 1500 stake: 1565. Lo nops
1626 nail in ground: 1800 stake: 1950
enter meadow: 2100 stake: 2110 Lo meadow
2200 stake in low: 2400 stake in low land
2445 hay road N & S 2475 enter
meadow. 2620 Lo same

At 2688.18 F+E East look for 1/4 Cor.
bet sec 18 and 19-141-29 where as water
call for post and: "K to W @ 6" 141-29

Birch 4" S 32° W 29 Links
" 4" N 78° W. 13 "

All are gone and we continue East
@ 2700 - & 3000 stake @ 3032, 90° E, nail
in dir new road N & S on top of
hill: at 3038 West end of new fence
built on Kemps old liantit line
by Ashner lies North 2 feet
John W. Curo

(5)

141-29

Secs 18-19

7

April 12-1917 Continued

Hskinn house lies South about
110 feet Ht - - nail in old log;
at 3232 cross new wagon track
N + S; 3300 stake; at 3375 enter wet
land NW and SE

P.M.

Same crew with Robert Hskinn &
@ 3600 stake in swamp; at 3700

Lo: 3900 stake; 3912 nail 6 ft S.
of E + W wire fence one wire

4123.80 nail At about 4154 an
old stake set South 128. feet (about)

Ht 4194 enter Pine Lake

Solid rocky shore. at 4200
- 4500-4800-5100 stake on ice

Ht the corner to Secs

17-18-19-20 T 141 R 29

comes on the ice in Pine Lake
and as this corner has been
previously established by a
Surveyor - Mr M H Kemp we
re-establish the point for cor on
the ice as follows: Walk half a
mile South to a stake set by Kemp
for this 1/4 between Secs 19 and 20
John W. C. McC

April 12-1917

T 141 R 29 where U.S. notes
call for a post and

Maple 12 S 82° E 17 LXS =

" 10 S 4° W 10 " = 6.60

We find stump of the old B.T.S
and find a new $\frac{1}{4}$ stake previously
set by Kemp with new B.T.S but
as we do not have Kemp's notes
we take his stake which sets
on the North side of a new post
which marks the South end of
a line of new fence posts running
 $\frac{1}{4}$ mile North

From a pt on S. edge of $\frac{1}{4}$
post. being N. side of fence post
chain North along fence posts
(No wire yet) set in swamp
300-600-900-1200 set stakes
at 1259 feet intersect 2" I.M.
(No cap!) being Temp N $\frac{1}{16}$ bit
Secr 19 & 20 set by Kemp in
cen of E & W graded road
there are new B.T.S here but we
have not got Kemp's notes. I set
limit over this iron Temp $\frac{1}{16}$ -back right
gabw cur

April 12-1917 Contd

⑦ 141-29
secs 18-19

9

South on red flag at $\frac{1}{4}$ Cor-liant
lighthouse and run North on line with
fence - still in swamp Vor reads
 $8^{\circ}20' E$ @ 300 stake: 471 set stake on sand
beach on S. side of Pine Lake: At about
480 enter Pine Lake: 600-900-1200-stake
on ice: @ 1259 set stake on ice for limps
on to secs 17-18-19-20-141-29 or where it
should be if Kemp established his
corner correctly, which he did not

Ex finding our random line
 E : @ 5189.10 E the Cor to 17-18-19-20
sets South 157.20 Ft @ 90° to E & W
random and at point of inter-
section of E & W random line with
the line running South, the S W angle
reads $90^{\circ}17'20''$

Correcting back West

5328.18 ft US Chain -

5189.10 " my " "

• 139.08 short being

.026103 of a foot short in each

foot of random Still with
Arkins

N.B.: This correction
changed later
Curo

John H. Curo

10

141-29
Dec 18-19

Ashins Survey

Friday Apr 13-1917

John W. Curo transit & Ch. Ole Larson
Ch-Flg-ae: Geo Larson (his son) &
Robert Ashins the Mc Lake anglers
on ice on Pine Lake at On 16-17-18-19-20
141-29 and about 9-30 AM Roy Parker
comes to help us as a man

Correcting

Each hat goes .026703 W (.0261 about)
and .030294 (.0303 about) South

Hub 300 E goes S
600 " " S
900 " " S
1200 " " S

Noli: This
correction
not used
see pg 32 to
34 curo

1368.18 E goes 35.71 W to 1332.47 E
1332.47 E " S 40.37 W West
1/16 bet 18-19-141-29

1500 E goes S
1626 E " S
1800 E " S
2100 E " S
2200 E " S
2400 E " S

Noli: This
correction not
used see pg
32 to 34 curo

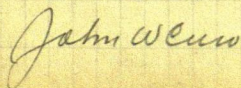
2688.18 E goes West 70.17 W to 2618.01 E
2618.01 E " South 79.33 To lamp
1/4 on bet 18-19-141-29

2700 E goes South

John W. Curo

All random plates were set on
line with the transit

11



Apr 13-1917 cont'd

141-29

Correcting bet Sec 18-19

3000 E goes S
 3032.9 E " S
 3300 E " S
 3600 E " S
 3900 E " S
 3912 E " S

Nali: This
 correction
 not used
 Curo

all random stakes were
 set on line with the
 transit

4008.18 E goes W 104.63 to 3903.55 E
 3903.55 E " S 118.25 to Temp E 116
 bet Sec 18 and 19-141-29

4123.80 E goes S.

We walk West to stake 2700 E and chain
 West 81.99 ft and set hub @ 2618.01 E from
 which we turn 90° from random to chain
 South 79.33 and drive hub for limp 1/4
 Cor bet 18 & 19-141-29 Then
 transit level scope and run North
 chaining from limp 1/4 in E. edge
 of meadow

Nali: This 1/4 to be
 changed later
 Curo

300-600 set cedar stakes with transit
 in E. edge of meadow

At about 750 LV meadow

@ 900 N set stakes with transit

1110.10 N Hub 1200 stake

From limp 1/4 Cor bet 18 and 19. Cut a
 line a few hundred feet South (90° to random)
 to Parker field

John W Curo

April 13-1917 Cont'd 17-18-19-20-141-29

I learn crew ^{not} figure corrections and while I am away someone sets fire to Parks meadow in SE $\frac{1}{4}$ of SW $\frac{1}{4}$ Sec 18-141-29

Ray Parks says he set the fire. Smoke too thick to work in and the crew comes in early and all take dinner with Ashkin

While we are at dinner fire burns Parks hen house and a ton and a half of his hay P.M.

Ashkin stays to back fire - rest of crew go to $\frac{1}{4}$ Cor bet 17th and 18-141-29 where US notes call for a post and 1375 U.S.

Brick 5" S 78° E 21 LKS

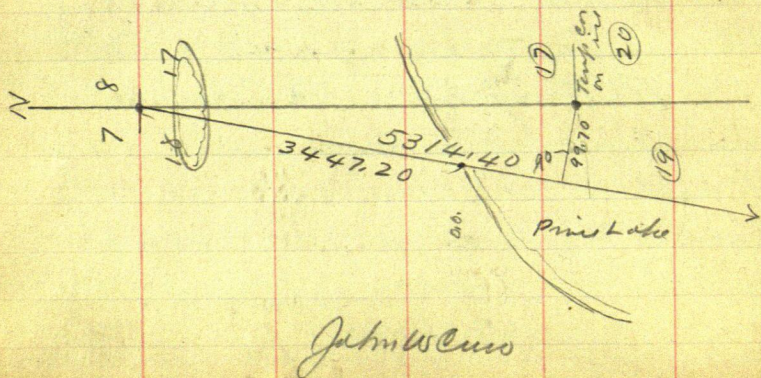
Oak 7 S 13° W 33 "

Larson shows me a stake with iron marker also two bearing lines about 5 years old, well scribed - marked for the $\frac{1}{4}$ cor. Stake and lines set about 2 rods west of a line run two years ago by M. F. Kemp

As Kemp has established this line. I re-trace his survey in order to find

John W. Cunn

his stakes. We walk North along
 Kemps transit line but are unable to
 get across a small lake just South of
 the cor to sec 7-8-17-18-141-29 and
 walk back to N. bank of Pine Lake where
 I drive a hub in Kemps random line about
 20 ft N of water and mark same o.o.
 Focus theodolite on Kemps line South across
 Pine Lake at a pt a mile away and run S.
 on ice Beg @ 00. chain S. on ice
 At 1867. 20 ft S. turn 90° and run 99.70 ft E
 to small cedar stake set in ice for Temp
 cor to sec 17-18-19-20-T141 R 29
 Ashkin does not work on survey in PM
 Quit for night over night with Ashkin



April 14-1917 Sunday 17-18-19-20

John W Curo - Transit & Ch. Guley Transit 300'
Ch's tape. Ashwin Ch-Flg. - Hke

Ole & Geo Larson &

Begin @ Hat 1110. 10 N and continue N on random
thru cen of Rec 18-141-29 Hat 1200-1500-1800

N set stakes: @ 2046.70 N Hat. 2100 - stake

2261.80 Hat; 2400 stake; 2442.50 Hat; 2700
stake foot of hill on N. side. 3000-3300 - stake

@ about 3376. Hat? 3600 stake Hat about

3625 old logging road E & W Water drain
West - good place for ditch. Hat 3900 stake

3964.50 cen main wagon road in curve
corner SW and SE Hat 4006.40 Hat

4200 stake P.M.

Ole Larson goes to Twp meeting in
P.M. and Loy Parks works. Continue N.
At about 4375 N. we are 20 ft E of 8 foot
creek coming up from the West
Rapid current - 8. inches deep

John W Curo

April 14-1917 Could

See 7-18-141-29

solid bottom

Ht 4418.20 Hub on sharp point coming from East: 30 ft E of creek. @ 4500 slabs
4584 cm of same creek about 40 ft W. of bridge on old main lot road which runs S. about 10° E and NW. Creek runs E. at 4700 cm of same old road - runs SE & W. at 4742. Ht. 4790 dead creek - drains E. 4800 slabs Thence up hill: 5100 slabs: 5220 about, old crooked road E & W: 5287.50 wire fence (crooked) E & W.

Ht 5303.50 old $\frac{1}{4}$ post sets East 2.00 feet.

Ht this point being the $\frac{1}{4}$ on but see 7-18-141-29. US notes call for post and "I 1/2 X at 6"

Paplar 5" S 73° E 26 LKS =

" 4" N 76° W 5 " =

We find the old post plainly marked and what I believe to be the roots of the old bearing lines. Geo Larson says his father has been here 8 years and the post was here when

John W. Curo

April 14-1917

Sees 7-18 141-29

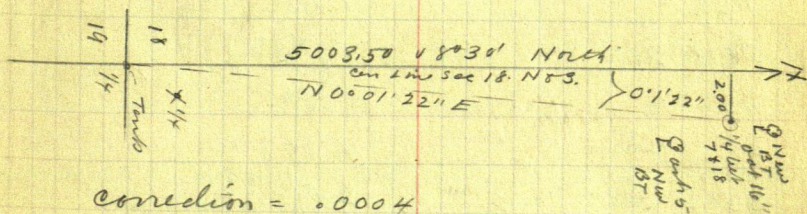
they came - It is a very old post 4" x 4" x 5 Ft
above ground from which a new oak bearing
tree probably marked 15 or 20 years ago,
faces the post and is 16" N 17° 28' E 50⁵⁰ ft distant.

I put a new spot at base of tree in which I drove
a nail. Also mark another tree as a new bearing
after which New BTS are as follows

Oak 16 inch N 17° 28' E ~~50.00~~^{50.50} Feet

Arh 5 " S 17° 18' E ~~51.70~~^{52.20} "

Var turned from random which reads
at this point about 8° 30' E



corredim = .0004

Correction figures:

300 N goes E	.12 of a foot
600 " " "	.24 " " "
900 " " "	.36 " " "
1110.10 N " "	.44 " " "
1500 " " "	.60 " " "
1800 " " "	.72 " " "
2046.70 " " "	.80 " " "
2100 " " "	.84 " " "

Note: This
correction
changed
in page

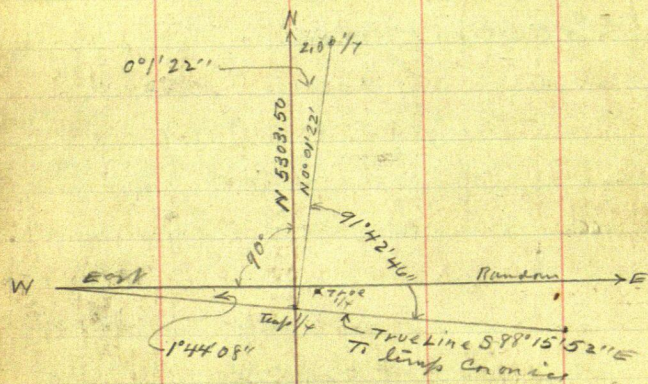
cur

John W. Cur

April 14-1917. Cold Secs 18-141-29

Correction on NTS Can line 18

Hub 2201.80	N gas E	.88
2400,	" " "	.96
2442.50	" " "	.98
2700	" " "	1.08
3000	" " "	1.20
3300	" " "	1.32
3376 ?	" " "	1.34
3600	" " "	1.44
3900	" " "	1.56
4006.40	" " "	1.60
4200	" " "	1.68
4418.20	" " "	1.77
4500	" " "	1.80
4742.00	" " "	1.90
5303.50	" " "	2.00



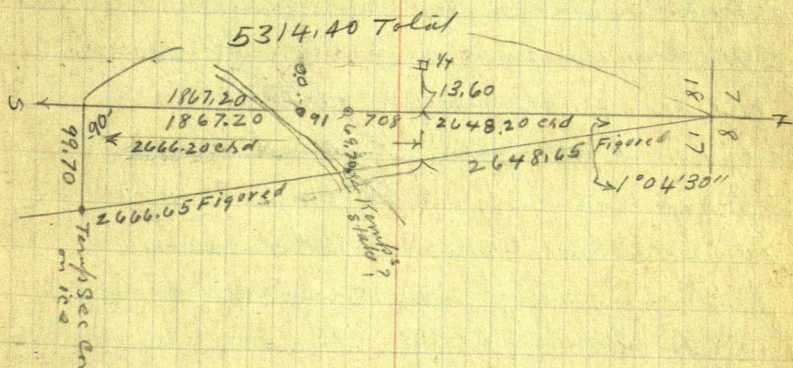
Still with skins

John W. Cline

April 15-1917

141-29

Sunday. I and my wife and baby
all staying with Ashkins
on NW 1/4 of NE 1/4 Sec 19-141-29
No work to-day



Correction = .0187603 E P. 15

Sine = .0187603

cos = .99983

Note: Correction on this
Page Not used
emo

Jahn W Curo

7.8, 17, 18
141-29

April 16-1917 Monday

Still working for Robert Ashkins

Curo-Ashkins-Larson & Son-Gurley Transit
 300 ft steel tape Beg at Hub 90' on N
 side of Pine Lake on Kemps random transit
 line running South from the center
 7-8-17-18- Chain N. on old transit line:
 @ 91.00 an old stake-probably set by some
 one lies on the ground 69.70 ft E. of
 random @ 90° angle: I stand the post
 up and drive it in the ground where
 point of stake comes Old Bearings
 probably set by some cruiser stand
 as follows $\cup 8^\circ 30'$

NP 24 S $22^\circ 15'$ W 89.20 FT5" Oak which has turned out by the
 roots appears to have stoodS 18° E 15.15 feet to face of figuresKemps transit line appears to
 run on about $8^\circ 30'$. Continue North

@ 300 stake-cross marsh- 600 stake.

@ 799. N the old $\frac{1}{4}$ post bet sec 17 & 18

141-29 sets West 13.60 FT New BTS on

Maple 8" N $65^\circ 45'$ W 23.40 FTIron wood 5" S 58° E 3.85 FT

John W Curo

April 16-1917 Cont'd

Continued N: @ 1130 stake: 1133 cen of main wagon road EXW; 1200 stake 1400 enter E. edge of green Tarn and Cedar swp: 1500-1800-2100-stake: 2460 cen of 8 ft creek runs N.E. 6" water-swift-current-solid bottom

2700 stake: at 2880 set stake in snow on S. side of lake in swp near m @ N^o 35. where US notes call for post and

Tam 6 S 72° E 19 LKS

" 6 S 13° W 24 "

All appear to be gone and we chain across very dangerous ice Mr Hskins going on the ice At 3180 station on ice: At about 3517 L^o Lake @ 3447.20 intersect old stake set by Kemp for the cen line 7-8-17-18 T141-R29 (At 3480 set stake then chain back 32.80 ft to Cen)

At Cen li: 7-8-17-18 US notes call for post and

Poplar 6" N 52° W 34 LKS = 22.44 Ft

Birch 5" N 30° W 6 " = 3.96 "

" 5 S 24° W 4 " = 2.64 "

" 5 S 72° E 6 " = 3.96 "

John W. Cress

April 16-1917 Cont'd 141-29

We find the old original US stake also a new stake set in the same place - by Kemp but the US surveyors got their notes all balled up as to bearing lines. I find 3. old BTS which I positively know to be the old US BTS but they recorded 'Poplar' for 'Birch' and 'Birch' for 'Poplar' and courses reversed etc.

From the line corner old B.T.S. are

Old Pop Stump 10"-4' H N 36° E 7.30 FT

" Birch 6" ^{high} S 17° 30' W 22.80 "

" 6" N 50° W 22.44" 8° 30' U

New BTS set by Kemp @ 8° 30' U are

New Ash 5" S 88° E 12.50 FT

" Birch 10" N 16° 20' E 18.50" 8° 30' U

At MC N° 38, US notes call for Post &

Tam 3 N 22° W 18 Lks = 11.88 FT

" 3 S 75° W 12 " = 7.92 "

We find the tall stump of the two 3 inch Tam's but they do not check for course or distance and stand just 4 feet apart. The one stump stands SE 61.00 ft from sec cor post and the other SW 61.50 ft from the sec cor post of 7-8-17-18-141-29

John W. Curo

April 16-1917 Cont'd 141-29

Chained to the scrib marks on the South side of the 3. inch laminarac stumps

We ignore this meander corner as it is so close to the sec cor

We walk around West end of small lake - cross 10 ft creek running West - and walk South half a mile to the old stake set for $\frac{1}{4}$ bet 17818-141-29 from which we run West @ 90° Var:

@ 101.90 W Hub 300-600 stake: 649.40
Hub: 900 stake: 932.40 Hub: 1037 dim
road NW and SE: 1050 pin: 1200 stake
1350 Hub 1405 Cen of main wagon road
NE x SW - 1500 stake: 1604.40 Hub
1800 stake - enter S edge of alder swp
1900 L same: 1929.80 Hub: 1950 stake
2100 - 2250. stake 2296.90 hub on high
hill 2300 stake:

At 2393.90 W intersect transit
line from the south 2600.40 N
NW angle reads $89^\circ 47' 20''$

Continue West 2400. stake 2580 swp
2600 stake in swp 09° . Still with
H. skin Storm begins at dark
John W. Cuss

April 17-1917 Tuesday

Ashkins Survey - Curo Ashkins - Larson & Son

Continue W on cur-random line of Sec 18

141-29. At 2900 stake L^o dead l^{am}-ent^o

open wet bog. 3200 stake: 3366 creek 3'

wide 3' deep and bottomless with an 8 ft
flag pole. Creek runs N. then NE

@ 3500 stake: 3508 Hub L^o open wet bog

ent^o Tam swp 3800 stake: 3989.60

Hub in swp near some big green cedar

trees: 4100 stake: 4384.70 tack in

log in swamp v 8'30': 4400-4700

stake: 4937 Hub: 5000 stake L^o swp

foot of big hill-East side

5022.50 ft West the 1/4 cor sets

North (90° to random), 85.00 feet

At this point being the 1/4 cor bet Sec
18-141-29 and 13-141-30 US notes call for
post and

Cedar 16 N 31°30' E 33 Lks = 21.78 FT

WP 30 N 47°30' W 23 " = 15.18 "

We find the solid sowed off stump of
the N.P. plainly marked - also the cedar -
down but plainly marked. and
from a point where the figures

April 17-1917 Contd

of the cedar would come if the line was stood up we drive a stake and set the $\frac{1}{4}$ cor by flat chain from face of BTS after which the position of the lines are as follows

old W. Pine N 45° W 15.18 ft to upper spot

Old Cedar N 36° E 21.78 to original position of old "BT" marks

We put in a new bearing being a nail in flat spot on shell of 40 inch WP Stump bears S $28^{\circ}30'$ W 23.30 ft U $8^{\circ}30'$ E in Sec 13-141-30 Dimulati P.M. We walk East on ice in Pine Lake to random line running E bet secs 18th and 19-141-29. and

Reg @ stake 5700 E we continue same line E. on ice Random bet Secs 17 & 20 At 5400-5700-6000-6900-7200-7300 stake on ice At 7400 about enter S. end of small Island @ 7500 L. same! 7600 Hub on ice + 238 = 7838 Hub on sea wall 50 ft E of E. edge of Pine Lake - Marshy shore. 7900 stake in swamp! 8100 leave swamp

John Weiss

141-29
But Secs 17 and 20

April 17-1917 Cont'd

8100 L. Sup: 8200-8500-8800
set stakes.From Hub 7838 E. on seawall
fence post bears S $25^{\circ}31'E$ 244.80 Ft
and another small stake set by
some one sets S $18^{\circ}43'E$ 280.30 FtBy figures $25^{\circ}31'$ { $\sin = .43077$
 $\cos = .90246$ Sine 105.45 Feet / $\sin = 220.92$ feet
At 7943.45 E fence post sets South
220.92 feetFiguring $18^{\circ}43'$ { $\sin = .32089$
 $\cos = .94712$
Sine = 89.95 feet. $\cos = 265.48$
At 7927.95 feet E sets South
265.48 feet.

John W. Curo

April 18-1917 Wed

Cuto-Hskins-Aro Larson continues E. on
random bet Secs 17-20-141-29. Ole
goes to Cyphus with a team Beg @ Hub
on sea wall E. side Pine Lake (Cuto Spears
17th Muskie with flag pole) Beg to chain
from stake 8800 E. @ 9092 E cross wire fence

North of $\frac{1}{16}$ post on E & W fence
line where - - - Swearingen put
in a post from the notes given him by
M. F. Kemp who said each forty was
27 feet short E & W, M. Swearingen says
9100 Hub; 9200 stake; 9224.70 Hub; 9475
new wagon trail bear NW and S. 9500
stake; 9675 ent small swp; 9800 stake;
9825 L. swp; 9900-10,000 stake, 10,200 Hub
10.410.00 E set hub in new N & S graded
road, from which the cor to Secs
16-17-20-21- sets $\angle 0^{\circ}51'E$ 275.60 Ft

Figuring $0^{\circ}51'$ { Sine .01483
Corin 99989

Sine = 4.09 E. feet. Corin = 275.57 S

At 10.414.09 E the cor sets South
275.57 S. At this point being the
cor to sec

Apr 18-1917 Cont'd

Sec 16-17-20-21-7141 R29 US nalis call for

Oak 5" N 68 E 5 LRS = 3.30 Ft

Maple 6" N 66 W 7" = 4.62 "

Oak 10" S 62 W 25" = 16.50 "

Birch 5" S 67 E 6" = 3.96 "

We find the 10" Oak standing green plainly marked from which we set a small stake in the cen of the N & S graded road @ 8°30' U from face of figure

All other bearing trees have been graded out. Another B.T. probably 10 years old - being an 8 inch Dead Oak bears N 58° E 21.50 Ft Two new BTS set by Kemp are as follows:

Tam 12 N 39° W 68.30 Ft

Dead Oak 7 S 34°30' W 38.80 "

The old support has been set West in order to grade the new road - and bears S 86°30' W 20 feet. The new graded road runs N 0°40' W - and @ 8°30' U

We cannot see the graded road so on account of a hill

At 1/4 bet Sec 17-20-141-29 US nalis

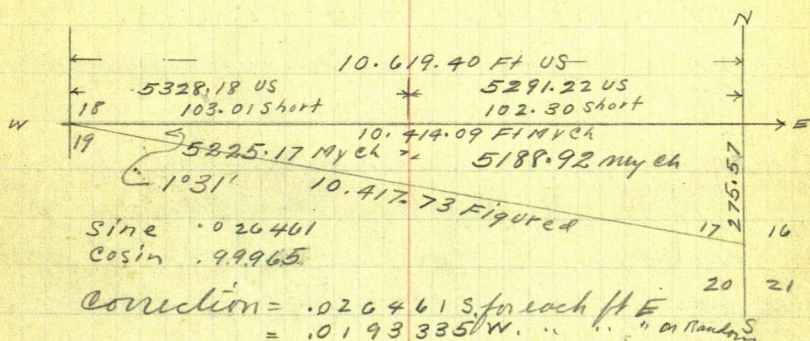
Apr 18-1917 Cont'd

141-29

29

call for port and Pop 3 inch N 21° W 21 LKS

" 4 " S 13° E 7. all anyone



10619.40 US (= 10414.09 MYCH via random line)

= 205.31 short in total 2 miles (via random)

P.M.

From Kemps iron N 1/4 cor bet sec 19 and 20 West
 to about where Kemps transit line crosses the
 E & W graded road is about 123.4 feet as
 near as we can tell without the transit
 and from his 1/4 cor West to his transit
 line is about ^{147.3} ~~148~~ Ft and from the
 cor 19-20-29-30-West to his transit line
 is about ^{196.1} ~~198~~ Feet taken by eye
 without the transit. Rough chain
 from 1/4 So. chain 2518 feet
 Still with Ashkin

John W. Curo

141-29

April 19-1917 Thurs

Ole & Geo Larson comes but it rains
all AM - I figure corrections - Larson gets
lunch with Atkins and go home - Rains all day

13 88

5328.18 US

1368.18 OS

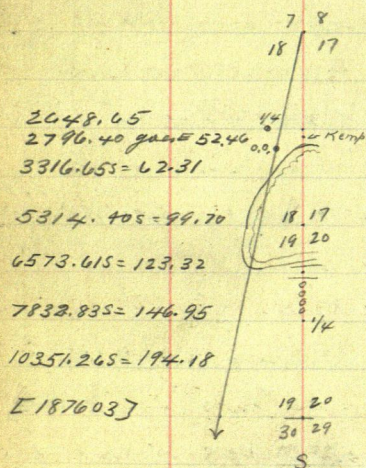
1320 US

132005

132005

→ E

24 19



Note: This correction figured
for a line straight thru but
we did not use it
CURVO

E.026461 = sine

5189.10 E = 5137.33
= 157.20 MY CA

7927.95 E = 5209.78
= 265.48

7943.45 E =
5210.18 = 220.91 MY CA

Note: I figured straight
for the total two miles
This correction not to be
used.

275.57
21

April 20-1917 Friday

Curo-Ashins-Ole Larson & Son Geo

Reg @ Temp E $\frac{1}{16}$ bet Secs 18th and 19-141-29

We begin at random stake 3900. E and chain East 30.69 to 3930.69 E and put hub on random Turn 90° and cut line N on random thro cen of SE $\frac{1}{4}$ of Sec 18-141-29. The lake shown by the US map is not there We run N. about $\frac{1}{2}$ mile -- cross a point of lake and place hub on random line running West at 1183.50 West of the old $\frac{1}{4}$ post P.M.

Set transit on hub 1183.50 telescope on random South and chain South the 20. ft enter wet bog. at 3451.40 set hub 6 ft N of water - marshy bank on N. side of Pine Lake

Cut brush around West arm of lake

Then walk a mile S. to Kemps $\frac{1}{4}$ cor bet Secs 19 & 20 where US notes call for Post and

Maple 12 S 82° E 17. LKS = 11.22 Feet

" 10 S 4 W 10 " = 6.60 "

We find a post set by Kemp for the line $\frac{1}{4}$ cor with new BTS

Jatm W Curo

April 20-1917 Contd

and from which a new line of fence posts with no wire runs N. nearly 80 rods to E+W graded road

We check Kemps liarsuit line as follows

Set liarsuit over Kemps hub 147.30 ft West of his $\frac{1}{4}$ cor - back sight a mile North across Pine Lake and run South on Kemps old liarsuit line and at 2518.80 to the cor to Secs 19-20-29-30-141-29 sets East 196.10 ft @ 90° angle. Hskins & Curo chain with Plumb-bob

At cor to 19-20-29-30-141-29 US notes call for Potomac

Maple	12	N 52°	E 10	LKS = 6.60 ft	-
Oak	10	N 62½°	W 13	" = 8.58 "	
Pop	8	S 43°	W 23	" = 15.18 "	
WP	17	S 59°	E 45	" = 29.70 "	

We find all the old B.T.S. except the NE Maple - The oak is down - also the poplar. The WP stump is only a shell but plainly marked. We find the stake set by Kemp for the true corner

Still with Hskins

John W Curo

April 21-1917 Saturday 141-29

Geo Larson reports for work - he and
Haskin cut brush all forenoon along W
shore of Pine Lake

I figure notes and decide to go to
Walker for more information and to check
up my US notes

P.M.

Haskin and team take I and my wife
and baby to Cyphers where we
catch P.M. train to Walker

April 22-1917 Sunday
All day in Walker

April 23-1917 Monday all day in Walker

April 24-1917. I ship 15 I.M.S. via
freight to Cyphers and go with them
Haskin meets me with team and
takes me home with him

Over night with Haskin

John W. Curo

April 25-1917 Wed 141-29
 Ashkin Survey

Two inches of snow fell last night
 I figure corrections all a.m.

P.M. Correcting

Our temporary corner which we have
 been using on the ice to see

17-18-19-20-141-29 must go North 74.10
 Ft to a point 83.10 ft S. of hub 5189.10 E
 on our random line coming from the West.
 Thence East 36.07 feet to 5225.17 E.
 which will fix it. line position by flat
 chain proportionally made from the
 the nearest known US corner N-S-E-W

4008.18 E goes W. 77.49 Ft to 3930.69 E

Then S 62.51 ft to East $\frac{1}{16}$ bet Secs

18 and 19.

Hub 2688.18 E goes West

51.97 ft to 2636.21 E Thence S 41.93

to line $\frac{1}{4}$ bet Secs 18 and 19

Hub 1368.18 E goes West

26.45 ft to 1341.73 E Thence S.

21.34 ft to line West $\frac{1}{16}$ bet 18 & 19

Correction = .0193335 of a foot West
 for each foot East and .015904 of a
 foot South for each foot East

Sine = .015904

Cosine = .99987

Snow all day & May in
 John W. Cunn

141-29

Apr 26-1917 Thurs

Arthur Sweeney

To correct random line bet Sacs 18-19-141-29

= .015904 S for each foot E

300 E goes S 4.77

900 E goes S 14.31

600 " " S 9.54

1200 E " S 19.08

OK, 1341.73 E goes S 21.34 To W $\frac{1}{16}$

1500 E goes S 23.86

2100 E goes S 33.40

1626 " " S 25.86

2200 E " S 34.99

1800 " " S 28.63

2400 E " S 38.17

Set 2x48 I.M.

OK 2636.21 E goes S 41.93 To $\frac{1}{4}$ bet 18 and 19 Normal No cap

2700 E goes S 42.94

✓ 3000 E " S 47.71 Set Hub

✓ 3032.90 E " S 48.24 " "

✓ 3300 E " S 52.48

✓ 3600 E " S 57.25

✓ 3900 E " S 62.03

OK 3930.69 E " S 62.51 To E $\frac{1}{16}$ (Bet 18 & 19 Set 2x48 I.M. In Mound, No cap)

2x48 I.M. No cap and then E 49.80 To I.M. on

✓ 4123.80 E " S 65.58 Sea wall 10 ft W of wall

5225.17 Coroner would be S 83.10 feet

✓ 3800 E goes S 60.43 To wood hub on line line

✓ Beg @ 2700 E chain W 63.79 To 2636.21 E Then S 41.93
and set I.M. being 2x48" boiler tube in mound
for $\frac{1}{4}$ bet 18 & 19 N = BTS

✓ At 2818 E chain S 44.85 ft and set hub on line line

✓ At 3930.69 E " " 62.51 " and set I.M. being 2x48"
Boiler tube in mound - for E $\frac{1}{16}$ bet 18 & 19
and✓ At 4123.80 E chain S 65.58 + set Hub on which I set transit
back sight on I.M. $\frac{1}{16}$ & run E 49.80 ft to 4173.60
E. When we set I.M. being 2x48" boiler tube set
in a mound on sea wall. W. side Rice Lake
10 ft from water

✓ At 2636.21 E I put in Oak Hub on random

Note: Points A & D have been
checked over and Hub on
shown set. Curio

John W. Curio

Apr 26-1917 Contd.

To Correct Cur lines of sec 18-141-29

The temporary 1/4 cor bet 18 and 19 is 18.20 ft

too far West and 37.40 ft too far South

On N & S. Random

✓ Stake MK4 300. N = 26 2.60 N - goes East

✓ 600 " = 56 2.60 " " "

✓ 900 " = 86 2.60 " " "

✓ 1110.10 " = 107 2.70 " " "

✓ 1500. " = 146 2.60 " - " "

✓ 1800 " = 176 2.60 " " "

✓ 2046.70 " = 200 9.30 " " "

2100 " = 206 2.60 " " "

✓ 2261.80 " = 222 4.40 " " "

2400 " = 236 2.60 " " "

✓ 2442.50 " = 240 5.10 " " "

✓ 2700 " = 266 2.60 " " "

3000 " = 296 2.60 " " "

3300 " = 326 2.60 " " "

3376 ? " = " " "

3600 " = 356 2.60 " " "

3900 " = 386 2.60 " " "

4006.40 " = 396 9.00 " " "

4200 " = 416 2.60 " " "

4418.20 " = 438 0.80 " " "

4500 " = 446 2.60 " " "

4742 " = 470 4.60 " " "

5303.50 " = 526 6.10 " " "

N
26 1/4
Bet
7418

2 16.2 0 1/4
18.2 BT
18-19

3740

Temp 1/4 00.0

Correction = 10030762 of a foot + 2 ft E for each foot
each hub is South of the N 1/4 cor

Note: Points checked off
✓ thus have been corrected
over curs

Jalm W Curo

Apr 26-1917 Contd

	3 00	N =	262.60	N =	5003.50S 90CS E	15.39 + 2 = 17.39
	6 00	"	562.60	"	4703.50S "	14.47 + 2 = 16.47
	9 00	"	862.60	"	4403.50 "	13.55 + 2 = 15.55
	11 10.10	"	1072.70	"	4193.40 "	12.90 + 2 = 14.90
IM	13 39.07	"	1301.67	"	3964.43 "	12.19 + 2 = 14.19
	13 39.52	"	1302.12	"	3963.98 "	12.20 + 2 = 14.20 IM.
	15 00	"	1462.60	"	3803.50 "	11.70 + 2 = 13.70
	18 00	"	1762.60	"	3503.50 "	10.77 + 2 = 12.77
	20 46.70	"	2009.30	"	3256.80 "	10.02 + 2 = 12.02
	21 00	"	2062.60	"	3203.50 "	9.85 + 2 = 11.85
	22 61.80	"	2224.40	"	3041.70 "	9.36 + 2 = 11.36
	24 00	"	2362.60	"	2903.50 "	8.93 + 2 = 10.93
	24 42.50	"	2405.10	"	2861.00 "	8.80 + 2 = 10.80
PI Random	26 00.40	"	2563.23	"	2703.10 "	8.32 + 2 = 10.32 IM
IM	26 40.74	"	2603.34	"	2662.76 "	8.19 + 2 = 10.19 Con
	27 00	"	2662.60	"	2603.50 "	8.01 + 2 =
	30 00	"	2962.60	"	2303.50 "	7.08 + 2 =
	33 00	"	3262.60	"	2003.50 "	6.16 + 2 =
	33 76	"		"		
	36 00	"	3562.60	"	1703.50 "	5.24 + 2 = 7.24
	39	"	3862.60	"	1403.00 "	4.32 + 2 = 6.32
	40 06.40	"	3969.00	"	1297.10 "	3.99 + 2 = 5.99
	42 00	"	4162.60	"	1103.50 "	3.39 + 2 = 5.39
	44 18.20	"	4360.80	"	885.30 "	2.72 + 2 = 4.72
	45 00	"	4462.60	"	803.50 "	2.47 + 2 = 4.47
	47 42	"	4704.60	"	561.50 "	1.73 + 2 = 3.73
	53 03.50	"	5266.10	"	000.00 South	0.00 + 2 = 2.0

Correction = 1.0030762 + 2.00 feet E
for each foot S.

At PI Hub mhd ~~2600.40~~ N = 2493.90 W W chain E
10.32 ft and Set Hub on line E & W random over
which I set transit. Sig ft N. on a
flag Set 10.01 ft E of the stake mhd "27.00 N"
and chain N. along the line on line
40.34 ft where del set on IM, being 2 x 48
inch boiler tubes in big mound of dirt
with 4 pits NE-NW-SE-SW
Pits are 2' square and 3' from stake

41.23 T.
2604.23 N.

NAL: Points checked off thus "✓"
in this book I have been
checked over sure

Apr 27-1917 cont'd

Hskins and Cues finish correcting the
X to S cen line of the S half of sec 18
put in all stakes and iron cen then
find that we have dropped 100 ft in
chaining W from stake 1800 West to
the center of sec 18 and that the total dist
from $\frac{1}{4}$ on E side West to the cen is
2483.70 feet and the total dist to the
 $\frac{1}{4}$ on West side is 5122.50

We make the correction but do
not erase any figures from this book
We put in the $\frac{1}{4}$ cen in cen of
East half of sec 18 as follows

Reg @ Hub 1350W and chain
East 108.15 ft to 1241.85 West where we set
transit and turn 90° and run N20.61 feet
and set 2X48 inch I M boiler tube
in mound of dirt

We correct all hubs from the
cen of 18 east to the $\frac{1}{4}$ bet sec
17 and 18 T141 N29 where we take up
the old U.S. stake and put in its
place an iron monument being
2X48 inch boiler tube set in mound
of dirt

John H Cues

141-29

April 28-1917 Saturday

Curo and Atkins working to correct
the N & S cen line of the SE $\frac{1}{4}$ of sec 18We begin at IM being E $\frac{1}{16}$ cor bet
secs 18 & 19 141-29 & chain N. along
transit line Ht 62.51 Hub on EXW
random ruled "3930.69E"Ht 300 slake, 468. Hub 600 slake, 900 slake
916.60 Hub 1200 slake 1250 50 Hub on
sea wall Pin Lake Lake runs NW & SEFrom a slake ruled 0.0, across
lake on sea wall of N shore theIM $\frac{1}{16}$ in cen of E. half of 18 sets

366.30 ft North along random line

Thence West (90°) 59.65 feet

Not being able to chain across

lake I figure the total length of this
line is 2598.16 feet so that at

2598.16 N the IM sets West 59.65 ft

Correction = .02295855 of a foot West for
each foot North

Correcting random

Ht 62.15 N set a hub W 1.43

468 " " " " 10.70

916.60 " " " " 21.00

1250.50 " " " " 28.70

setting transit on Hub 1250.50 N

John W. Curo

April 28-1917 Cont'd

Turn 90° to random & run N. 28.70 ft
and set hub on line line which by
figures is 1250.50 N via line line

Sine figures	.022959
Corr "	.99974
Angle "	1°19' Left

Set transit on corrected hub 1250.82
back sight on 1250.50 on random - turn
90° to Left - then 1°19' to Left = 91°19' L
and cut back North to the lake
till I can see the iron monument in
cen of E half of sec 18 - wire in transit
almost cuts the corner

Focus on corner and continue North
on line East 1116 lin of Sec 18-141-29
chaining from Hub 1250.82. At 48.26 set
Hub 1299.08 N which we pull up and put
in its place a 2x48" boiler tube
I.M. for line 116 cor in cen of SE 1/4 of
Sec 18-T141-R 29 with good mound and
pile - At 76.80 set hub 1327.62 N set on sea wall
of Pine Lake 10 ft W. of water edge - rocky
shore - At 160 = 1410.82 N on water
edge 10 ft East of sea wall; at 1460 we are
2 ft E of water edge & 12 ft E of sea wall
John H. Cress

Apr 28-1917 Cont'd

rocky shore - Ht 250 = 1500.82 L^o water
edge 10 ft E of sea wall on bank
at 300 = 1550.82 set stake 5 ft W of water
and 5 ft E of bank. Ht 333.00 = 1583.82

set hub on outer edge of sharp bank on
sea wall 10 ft from water edge - still
rocky shore. Then follow along East
side of sharp edge of bank or sea wall
10 ft W of water edge

at 400.80 = 1651.62 N set Hub on sharp
edge of bank 10 ft west of water
thence along sharp bank and at
418.38 = 1669.20 set hub on sharp

edge of sea wall 10 ft West of water

Here the lake turns NW and from
Hub 1669.20 N we run N 14° 53' W 258 ft
and set hub

From hub 1669.20 course hub to be set on
N. bank of lake on line line 6 ft from
water in edge of cranberry bog

Begin @ hub 1669.20 chain N 14° 53' W

@ 35 ft L^o sharp edge of sea wall and
follow along stony beach 5 ft from water and
5 ft from sea wall and at 258 nilmet
hub on sand and stony beach 5 ft from
John W. Sun

April 28-1917 Cont'd

water and 5 ft from bank 20' from base of hill

Then run $N 22^{\circ} 28' 30'' W$

@ 20 ft enter edge of water on flat sand shore

@ 60 ft in edge of water 25 ft from foot of hill

@ 141. set hub on low point - coming up from the south. Hub sets 5" from water - Low shore sloping up to the south

Thence $N 60^{\circ} 47' W$ at 20 ft touch

water edge. at 40 ft to edge of water.

at 74.80 set hub in marsh at water edge.

Marshy bog runs S 100 ft

Thence $N 50^{\circ} 19' 20'' E$ following in

edge of water 103.70 ft to Hub 5 ft W

of water. Thence $N 36^{\circ} 47' E$ @ 55 ft touch

water edge 113.30 ft to hub 5 ft from water

and 20 ft E of West side of swamp that runs about $N 40^{\circ} E$. Thence $S 77^{\circ} 27' E$

111 ft to Hub on line line over which I set transit. Then as a check focus telescope N on line I.M. and the hub. I just left bears $N 77^{\circ} 28' W$ (Guess this was some check - only one minute off!!)

Thence North along line line

at 240 to bog - bear E E & SW

at 343.70 indirect I.M.

John W. Carr

April 28, 1917 Cont'd

We pull up the wood hub on N. shore
of lake on line line 343.70 ft S. of
I.M. at $\frac{1}{16}$ in cen of East half of sec
18 and put in its place an Iron Mon
being 2×48 " boiler tube driven half its
length into the ground and from here
North we set 4 oak hubs along the
line line being one hub about every
hundred feet. The bog appears to be
solid and 4 ft above the water
except that there is a natural ditch
along the West side. Bog is about
200 ft wide at the lake. 300 ft long
N + S and 125 ft wide in center

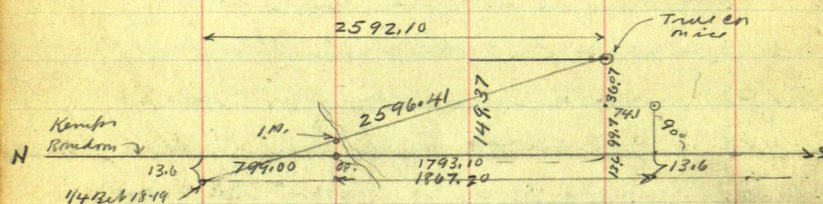
We drive a row of oak hubs along
the line sec line bet secs 18 & 19
141-29 near Atkins house which
sets --- feet South of the line
about --- ft East of the iron $\frac{1}{16}$ in
bet 18 & 19

Quit for night still staying with
Atkins and working for him. Sleet and
snow begins to fall about bed time

John W. Carr

141-29

April 29-1917 Sunday
 Snow and sleet. I figure corrections
 Correcting the sec line from the
 1/4 Cor bet 17+18 T141 R29.



Correction is 149.37 feet off in 2592.10
 Being $\frac{149.37}{2592.10} = .0576251$
 Being 4 feet East for each foot South

$$\text{Sine} = .0576251 = 3^{\circ}18'12''$$

$$\text{Cosine} = .99834$$

Begin @ a point on Kemp's random line 775 ft
 South of the 1/4 Cor bet 17 and 18. T141-29 from
 which we chain E 31.06 ft 90° to random and set
 hub (= 44.66 from figured random 13.60 West
 of Kemp's line). Set transit on hub 31.06
 back sight on hub 775. turn 90° to Left --
 then 3°18'12'' more to the Left and run S. along
 line sec line 14.40 feet and set I.M.
 being 2x48" boiler tube set on line sec
 line bet sec 17+18 on N shore of
 Pine Lake feet

141-29

Apr 29-1917 cont'd
 north and --- feet West of edge of
 bank on sea wall

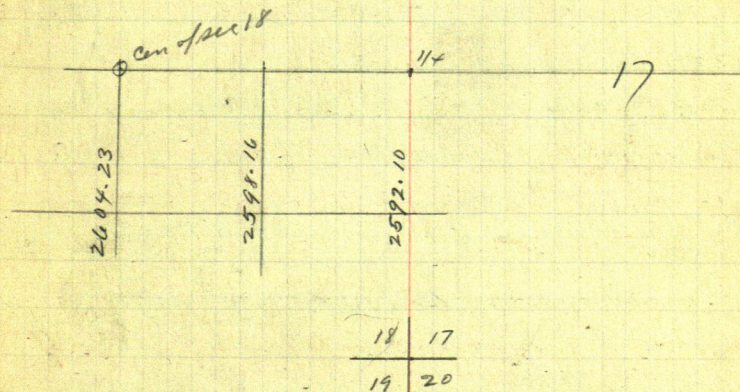
Bts Viz N.P.m. 20 S 73° E 4.00 feet

" " 14 S 8° W 12.20"

I work alone in setting this I.M.

but do not get it mounded

Atkins and I will mound it later
 Tresler took me across an arm of the
 lake in an old scow and shot at loons
 while I set the corner and we walked home
 together Still with Atkins



in cor of sec 18 the NW angle of the N & S
 line line with the E & W random reads
 $89^{\circ}40' = 0^{\circ}20'$ to L of N

John W. Carr

Aug 30-1917 Could

Noli: As the iron Mon we have set for the N $\frac{1}{4}$ bet 19th and 20th corner 37.05 ft N. of the cen of the new E & W road which runs a mile West to the $\frac{1}{4}$ cor. there would be a strip of land 4.05 feet wide on the East end bet the NE $\frac{1}{4}$ of NE $\frac{1}{4}$ Sec 19-141-29 and the road and as Mr. Hskins owns this forty and would like to know how far West this wedge shaped piece of land would run to cut him off from the road, I make a rough estimate as follows:

1st I assume that the road runs straight West a mile to the $\frac{1}{4}$ cor

2nd I assume the length of the lateral mile to be the same length as the North boundary of sec 19 which is 5225.17 feet

Figuring thus the result is

$\sin = .00709061$ dividing 33.00 by 709061 gives 4654.04 being the number of feet East where the line would run out leaving the 571.13 ft long

Road	
4.05	571.13

John W. Curw

Apr 30-1917

At the iron N $\frac{1}{4}$ cor bet 19 and 20
we take the following bearings
Tape 4 S 86° E 2.40 feet

" 6 S 17° E 17.95 " This was marked
by Kemp. Askin and Cuis meet
Mr Cassius H Case with his horse, starting
for Walker and as we want Mr Case for a
witness to the $\frac{1}{4}$ cor bet 19 & 20 he goes with
us and points out what he says is the
old original US $\frac{1}{4}$ Cor post at the S. end
of a line of new fence posts--no wire

Mr Case says this post has stood here
at least for the past 8 years and longer
He also shows us one of the old bearing
lines US notes call for "St B @ 3"

Maple 12 S 82° E 17 LKS = 11.22 feet

" 10 S 4 W 10 " = 6.60 "

We find the root of the old SW stump
and the stump of the SE line under
a brush pile and they check out
for course and distance

We take new BTS dig

Dead Balsam 10 N 75° W 8.10 FT

John W Cuis

Apr 30-1917 Cont'd

green WP in tie 10 inch diam bears
S 41° W. 35.75 feet to face of ties

The W. Pins appear to have been marked
for a new B.T. within the last 10 years
probably marked by Kemp.

As the fractional E $\frac{1}{2}$ of SE $\frac{1}{4}$
Sec 18-141-29 is all in Pine Lake & except
a thin strip of land along the SW
edge and another block of land along
the N. end we get the acreage of the
thin strip along the SW cor by chaining
East to the lake shore which is quite
even and uniform

We begin at the E $\frac{1}{16}$ cor bet 18 & 19
at stake 300 N. the lake lies E 238 Feet
@ " 600 N the lake lies E 202 " "
@ " 900 N " " " E 181 " "
chained from line N to S line

John W. Curo

March 2 - 1944

Mrs Nettie Askins called on me at C.H. Walker
She lives at Rt #2. - 3 miles N + W from
Bemidji. They stayed 3 to 5 PM.

May sell her Pine Lake farm to Bill Bailey
or a man associated with Bailey \$1200. + -

May 1-1917 Tuesday

All day in Walker with Horst and Greene in the office. Look up field notes of 135-29 for the survey of Goat Lot N^o 3- of sec 4 T 135 R 9 29 Can Co. Contains 37.75 acres US survey

Filed on as a homestead about 60 days ago by John Alfred Lundeene of Mpls. Wife and two small boys. Mr Lundeene cannot find his lines and particularly wants to know if he gets a certain spring situated on the upper end of Upper Gull Lake and on the main stage road

May 2nd 1917 Wed

Lo Walker 9-35 via M + I Ry.

Fr Pequot 10-58 AM. RR fare 88^c

Meet Jim Ingram - & Mr Lundeene - dinner at Pequot. Mr & Mrs Lundeene takes me in auto with owner and driver of car. we break down $1\frac{3}{4}$ miles from Pequot and get Mr _____ and _____

John W Curo

May 2-1917 Continued Landeen Survey
his team to take us on - Drive to cor of
5-6-7-8-135-29 where we find an I M
set by Deep Co Surveyor E B Horst for
the line corner where a graded road
runs E & W and South

We find some of the old US BTS here
but do not have time to check up on
the I M. but run a compass line half
a mile East and look for the 1/4 bet
rees 5 & 8 - but do not find it

Then drive to NE Cor of Sec 4 where
Mr McDonald tells us all BTS are gone
We drive a mile East to NE Cor Sec 3-
135-29 and find two old stakes and
stumps of old BTS Mr McDonald
says one of these stakes was set by
W H Hallett and the other by Louis Knudsen
both surveyors - We will find out
which is right in the morning

Drive back to Pequot

Over night with Krueger - proprietor
of hotel

John W Curo

(3)

136-29

135-29

Lundeen Survey

55

May 3rd 1917 Thurs

Lundeen with his wife and 2 boys
move their H. H. goods to a house near
their land Roy Anderson and his auto
lakes Curo - with Andy Johnson and Albert
Schmidt of Pequot to the NE corner Sec 3
135-29 This is the cor of sec 2-3-34-35
bet 135 and 136-1129 Crow Wing Co
where US notes call for a post and the
following bearing lines

Pine 12° N 57° E 66 Links = 43.56 Feet

" 30 N 47° W 50 " = 33.00 "

Tam 12 S 71° E 53 " = 34.98 "

" 10 S 88° W 79 " = 52.14 "

We find the stump of all 4 bearing lines
the NW stump being plainly marked
The stumps check almost perfect with an
old stake set by W. H. Hallitt The distance
bet the SE & NW stump being 0.20 of a foot
too short and the dist bet NE & SW stump
being 0.30 of a foot too long Chained from
the face of where the "BT" marks come.

I proportion the measurement and set
a stake 3x36 inch for line corner after
which the old B.T.S stand as follows
@ 8°-30' var

John W. Curo

May 3-1917 Contd

Old Pine Slump	12 N 56° E
" "	30 N 44° W
" Tam "	12 S 69° E
" " "	10 S 70° W

We mark following New BTS

Tam 4 N 42° 40' E 30.40 Feet 8° 30' S
 " 3 S 62° 50' E 18.80 " "

An old post being across arm from a telephone pole and evidently set for the corner by Mr. W.H. Hallett as it bears his initials & scribe mark "H" sets NW half a foot. A stake and small iron 3/4 inch gas pipe rod sets West 13.20 feet but this iron is not the corner. Start transit line West @ 8° 30' sa - then transit telescope East to cen of M & I RR track from which we chain West back center on top of high fill using Plumb-bob Curo & Johnson chain

at o.o. track cen - at 38. foot of fill - enter swamp; at 81.20 Cen of transit - over sec corner in low wet land.

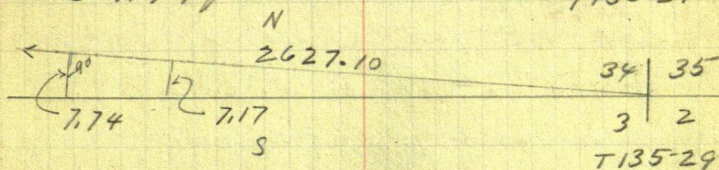
From the sec cor chain West bet sec 3 & 34 - 135-136-29 @ 8° 30' S

John W Curo

May 3rd 1917 contd

@ 240 W. to swamp NW of the solid
"sink hole" on the M & S RR. @ 300 set
slake; about 575 enter swamp - 600 slake
in swamp: 825 W swp 870 Hub in JP
900 slake 1087.30 Hub 1175 ent swp 1200 slake
1350 W swp 1500 slake; at 1797.70 set
transit on double cen pt mhd by 2
matchers from @ 90° to random the cen
of the chimney in Borst's house bears
1° 43' W about 800 feet distant
at 1800 slake. 1806.70 Hub 2065.90 Hub
2100 slake 2400 slake; 2432.70 Hub
At 2627.10 W. the 1/4 cen bet 3 & 34
sets S. 7.74 feet

T136-29



Correction = .002946 of a foot S for each
foot West.

To correct back

Hub 2627.10 W. guess S 7.74
" 2432.70 " " S 7.17
" 2065.90 " " S

Jahm W. Curo

May 3-1917 Cont'd

Hab 1806.70 W goes S

" 1313.55 W " S 3.87 { To E $\frac{1}{16}$ cor
bet 3-34

" 1087.30 W " S

" 870.00 W " S

At the $\frac{1}{4}$ cor bet 3 & 34 - bet Twp

135-29 and 136-29 US notes call for a post

and the following B.T.S.

Prin 7 N 5° W 45 LKS = 29.70 Ft

" S 5° 36 E 10 " = 6.60 "

We find both trees standing dead but plainly marked from which we set the point and drive a $3 \times 3 \times 12$ " Hub with lock in center line $\frac{1}{4}$ cor.

We find the old post lying on the ground at this point and stand it at this point

Curo - using Gurley transit. Double corner hubs - 300 ft Chi steel tape and plumb-bob. First class chain

Redy Johnson flag & chain

All cut brush - Quit for night
Lo trailers with Wm McDonald
lines on NE $\frac{1}{4}$ of NE $\frac{1}{4}$ Sec 4

135-29 " Johnson & Schmidt quit
and walk into Peguot. Curo gets
supper with Lundeen - then walks to
Peguot and sleeps at Kruger -
takes night train to Walker
John W Curo

60 Lindquist + Jacob
 survey of Lots.
 April 9th & 10th / 25

E. B. Miller T+chain
 E. M. Zeller - chain

176	Point of beginning	
15	70°39'R	1014.4
14	23°23'R	682.5
13	17°47'R	121'
12	106°32'R	810.2
11	0°29'R	258.5
10	1°10'R	146'
9	4°07'R	125.7
8	4°15'R	125.2
7	0°31'R	101'
6	0°44'R	213.3
5	2°18'R	226.1
4	14°48'R	75.2
3	20°15'R	45.7
2	3°58'R	84.3
1	3°50'R	400'
1	3°58'R	360.2
0	19°20'	360.2

1/4 line

33'6"

1/4 Cor.

1/4 Cor.

Langworthy Survey

Lot 6. Sec 2- T135 R28

US Notes

East True line But 2-11-12-135-28 10°30'

NP 10 S 46 W 11 =

40.00 Set 1/4 BP 8 N 6 W 26 =

80.00 Cor 1-2-11-12-135-28

ASP 8 S 73 W 14 =

" 10 N 58 W 19 =

Lynn 10 N 37 E 22 =

" 8 S 75 E 76 =

East True Line But 1-12-135-28 10°40' E

1600 ? ent marsh NE-SE

40.00 Set 1/4 WP 22 N 45 1/2 W 9 1/4 =

4500 Marsh Pond 12 A. N-SW

58.80 Over same N-SW

Lynn 14 N 67 W 109 =

6350 Ent Lake MC, " 16 S 52 W 114 =

South But 11-12 10°30'

ASP 8 N 59 W 72 =

413 MC. Oak 6 N 24 E 100 =

North But 2-T135 R28 11° E

NP 20 N 19 E 25 =

40.00 Set 1/4 WP 20 W 57 =

SP 8 S 15 W 48 =

4186 = () MC, " 8 S 21 E 76 =

N. But 2-3-Vn 11°

2160 = Potegama Road E-W

BP 6 S 41 W 48 =

2450 Pelix MC, " 6 S 54 E 31 =

Meanders

In Sec 2- FROM MC ON Pelican Lake

S 7 1/2 W 2100

S 62 1/2 W 1500

S 15 W 770

S 52 E 1550

N 57 E 1350

S 15 W 1800

135-28 - Meander In Sec 2 Cont'd

S 52° W 2370

S 71 1/2° W 9.30 =

To mc. on S. side of lake bet 2-3 Th.

In Sec 3.

S 80° W 1800

N 93° W 2650

N 69° W 860

N 61° W 2650

N 37 1/2° W 570

N 4° W 760 To mc

Bet 3-4 on 20 side of lake

Aug 5-1925 Wed Alma and I with Reed
 L. early for Brainerd O'Brien lical
 again postponed

I met Richard Lindenhahn and
 got contract to survey Gout L. &
 Lee T 13 K

at \$350 total \$35 a month till paid
 I am to pay for everything except
 taxes &c

Aug 6-1925 Thursday

Alma-Reed and I go to Mpls.

Take Geo Newman to Mayo Lake
 and he starts cutting line on the Lindenhahn
 survey. auto wreck at St Cloud

Rena Alders 260 Aurora St Paul (Head Banded)

Rebecca Eurist 127 S Wash. St Paul vs. 90 W 17th

Sally Cahler 911 Goodrich St P. driver

Saunders and Anderson St Cloud Capt

A. Coler in St Cloud Hospital? C. Malley?

Fearing Garage F. Krenhoff driver

Aug 7-1925 Fri in Dept HPaul

" 8 " Sat " " " "

" 9 " Sun Mpls to Red - See Lew Garrison

" 10-1925 Monday 8/18. T. Ben Kramp in full
for work on Quinn Survey
PM

Ben Kramp - Reed and I cut line on
Lindenbaken survey. 8/12 To Samoilan Lodge
Oden Forestwood

Aug 11-1925 Tues. Ben Kramp cuts line
all am alone on Lindenbaken survey
I take Jimmie Nichols - Dwight and

out to Rush Lake to buy my land @ \$2580. I
have \$705 against it and will pay \$55 and get
1/3 interest. Meet Banker TURNQUIST?
and party and give them a note to the armstrong
at Peg Lake PM.

Ben Kramp and Reed cut line on Langevachy
survey while alone and I draw 1-Red and
copy Deeds

Lot 6 - Sec 2 - 135-28

BOOK 34 Deeds Page 336

" 48 " " 630 } same description
" 48 " " 631 }

Lot 1 Sec 3 - 135-28 STEVENS PARK

37 Deeds Pg 542

27 " " 447

72 " " 28 ← Platted

75 " " 52

NW-NW Sec 3, T137-R28

Bk. E " Misc Pg 151 Fee Title

" J. " " 246

Lot 6 Sec 19 T137-R28

Book "E" Miscellaneous Pg 151

" 31 of Deeds Pg 120 Tract 61, outflow

Langworthy Survey

34 Deeds Pg 336. Pt of L⁶ Sec 2-135-28
Dec 11-1907 \$100. Ed Morton and Wife Total To
To Ralph E Rose

- ① Beg @ SW Cor Th East 230 ft Th @ Right angles
North to Bank of Pelican Lake Thence
West 230 ft to E of public highway Th @
Rt angles South to Place of beg NW 2-1907

48 Deeds Pg 630 L⁶ 2-135-28 Oct 4-1915-

Edward Morton Widower not married To

Carl C. Wilson \$850 All that part of L⁶ Sec 2-
135-28 acc to US survey bounded by land of

- ② Commencing at Pt where West body line of lot
strikes the shore of Pelican Lake Thence
running northwesterly along the shore of
said lake 500 feet to a point which is taken as the
Place of beginning
Thence so parallel with said west line of said lot
to so body Thence East on so body to SE Cor
Th North on E Body line to shore of said Pelican Lk
Th South westerly along the shore of l. place of beg

48 Deeds Pg 631 Oct 20-1915 \$1200

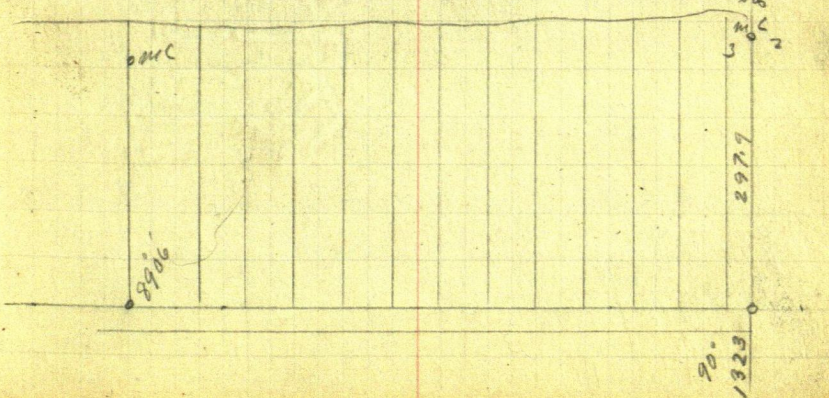
- ③ Carl C. Wilson Singer To Lester R. Badger
Same description as above.

Note: The strip of land between No 1 and 2
is what is to be surveyed by the man who wants it
surveyed Alh W.E. Langworthy Banker
Box 343 Seward - Seward Nebraska

Summer address

Brainerd Minn R #5 (Pelican Lake)

He is to pay me \$30. for survey



Sec 3-13



No. 1323.8 my ex

1323

1629

1325

1

2479

2005

210

1240

2

1325

12"VP55"E31
6"VPN45W30

1615.5-

1321-

3

0.664

11. 4. 90

13276

73.36

1325

1301.7

1329.25

1329.25

937

4

6

Aug 12 - 1925

Pelican Lake

67

Hole in Sand

130.7
Feet

90

230

244.16

176.6

05 m L
18.30

500 N 71.30 E

297.9

9.9

90

244.16

90

25.5° IM

90

230

387.15 E C-road

474.16

from P 8805

71.30

18.30 =

$\sin 31730 \times 500 = 158.65 N$

$\cos 94832 \times 500 = 474.16 E$

Find IM at SW C.R. Look - See 2-135-28

Ch S 25 ft of hole from hole 25. BS 80 or so. soon see C.R.

at 230 Hole no of wheel track + 244.16 = 474.16 Hole no of road

from 474.16 Turn 90 and set a line of hole North to Pelican Lake

from 230 Turn 90 North to line of hole to Pelican Lake

Hole 25 is 25 ft of IM called "1323" N, but it is 1323.9 N my ch and 9.80 N of hole

in E road

Reg @ Krumpholtz IM. ME Ch N 176.6 Hole on sand 130 ft 20 of water Turn 90 m

E-W 230 feet off on sea wall road

474.16 distance from hole

Woman - Krumpholtz Road 2 weeks this way in PM.

Langworthy Survey
⑦ Pelican Lake

Aug 12-1925 Wed

Alma Reed and I take Geo Newman to Mayo
Lake where we find Ben Krump cutting
lime - we work all AM here and eat
lunch near Mayo Creek. Lindenham's to
PM

Two cows drive 10 miles E and finish
driving out Langworthy's survey

Ben goes home in his car
we bring Geo home via Buzzy Point
all night

James Taylor Jr sends me Ch \$ 75 which I
put in Pelican Bank

Nate in evening I hand Andy
\$ 25 to deposit for me at Junction Nat Bank

Aug 17-1925

I take vellum plat and my bill for \$30
to Pelican Lake and see Ch on

First National Bank of Beaumont in full
for surveying signed W E Langworthy
Ree and I get him at 8 PM.

Lindenhahn Survey

Aug 6-1925 Thurs

Geo Newman cuts brush all day slack survey

Aug 10-1925 Monday

Ben Krampf and his car meet Reed and I and we cut line all PM - 1/2 day

Aug 11-1925 Tues

Ben Krampf and his car all AM. cutting brush Reed Alma & I bring his dinner and we finish out PM over on Pelican Lake

Aug 12-1925 Wed

Ben Krampf & his car at Mayo Lake cut line till I come with Alma - Reed & Geo

Newman T over Iron pipe at NW cor Sec 27 136-29. Focus a mile East on rd plog at NE cor Sec 27 (Note 5 INS here) ROK

East on line line bet Secs 22-27-136-29

43.3 Toek in N. Edge 4" oak stump 300
slake 309.2 Tall slake for hub on line
 $300 + 100 = 400$ slake 550 (about) Foot of hill
 $400 + 300 = 700$ slake 741.20 Tall slake for hub
on line 10 ft E of old road NW-SE
 $741.2 + 108.8 = 850$. E. Stake Foot of hill
in li bottom 875 soft bottom
 $741.2 + 218.8 = 960$. Slake in bog 3 ft
West of water Geo and Ben get back
and we chain down creek.

70 Aug 12-1925 Cont'd (2)

$960 + 300 = 1260$ E Stake over river

$- 140 = 1120$ Stake 3 ft E of water

Solid Sand bottom 2 ft water runs South
1160 L₁ river bottom 1260 stake. (1282.8 stake)
 $1260 + 70 = 1330$ Stake E. line

$1260 + 137.6 = 1397.6$ Tall stake for Hut on line

$1260 + 287.5 = 1547.5$ E Hut 3 ft W of
W. Wheel track

Eat lunch PM all go 10 miles East and
finish survey for W.E. Longworthy R.H.S. and
Home to Berlin via Fausch

Ben Kramp went home in his own car

Aug 13-1925 Thurs

Clara Dolan Starts work Alma sick
Ben Kramp and his car come and visit
break till noon at Lindenhofen store
I figure notes when take Ben's lunch
and go meet Ben at 11-30 and we work
till 1¹⁵ PM.
T@NE Cor Sec 27-T136 R29 take

SW Angle of True line

O.O. Plate

Focus a mile west on line sec 27
Suring Left $89^{\circ} 21\frac{1}{2}'$ Twice; $89^{\circ} 22'$

O.O. Plate

Focus W. Swing to line true so need
 $89^{\circ} 22\frac{1}{2}'$ Turn
Eat lunch
PM.

Reg@Hut 1547.5 E Continue

E ork + $207.5 = 1815$ Stake

+ $209.8 = 2024.8$ Hut E

$1815 + 285 = 2100$ Stake + 200-

2300 Stake + $174.3 = 2474.3$ Hut

T@SE Cor using plate O.O. Focus N on line to
Turn Left $90^{\circ} 49' 15''$ red flag on line line W. (about)
then random shot 14,90 N of line cor
N.W. angle reads $90^{\circ} 58'$ and $90^{\circ} 57'$

NW Angle = $90^{\circ} 48\frac{1}{2}'$ O.K. True
S. to Clara

1925 Time Sheet Lindenbahr Survey (some time spent in Longworth Survey)

Gov't Lot	8	Sec	27	7	186	R. 29							
August	6	10	11	12	13	14	15	17	27	28	Sept	2	3
John W Curo Jr.	-	1/2 PM	1/2 PM	1	1	1	1	1	1	1	1	1	1
Auto	-	1	1	1	1	1	1	1	1	1	1	1	1
Reed Curo Jr.	-	1/2 PM	1	-	1	1/2 AM	1	1	1	1	1	1	1
Ben Kramp	-	1/2 PM	1	1	1	-	-	-	-	-	-	-	-
N. Extra Auto	-	1	1	1	1	-	-	-	-	-	-	-	-
Geo Newman ch.	1	-	-	1	-	-	-	-	-	-	-	-	-
Alma Curo	-	-	1/2 PM	1	-	1	-	-	-	-	-	-	-
Clara Doland ch.	-	-	-	-	-	1	-	-	-	-	-	-	-
John Bryant	-	-	-	-	-	-	1/2 PM	-	-	1/2 PM	1	1	1
Frankie Bryant	-	-	-	-	-	-	-	-	1	-	-	-	-
Tom Newman	-	-	-	-	-	-	-	-	-	-	1/2 PM	1	1

Aug 14 - 1925 Fri

5389.5 \times 19.30'

1347.37	1347.38	1347.37	1347.38
2694.75		2694.75	8922

5319.62 Fri 50°49'W

1°49'

50°46'W

50°43½'W

50°41'W

50°38'W

0°38'

5303

5406

90°49½'

59.1

$$0.38 \sin c - .01105 \times 5303 = 59.00 \text{ ft}$$

cos in

5°46.5'W

5389.5 W

$$5319.62 \sin 75.5 = .014192 = 0°49'$$

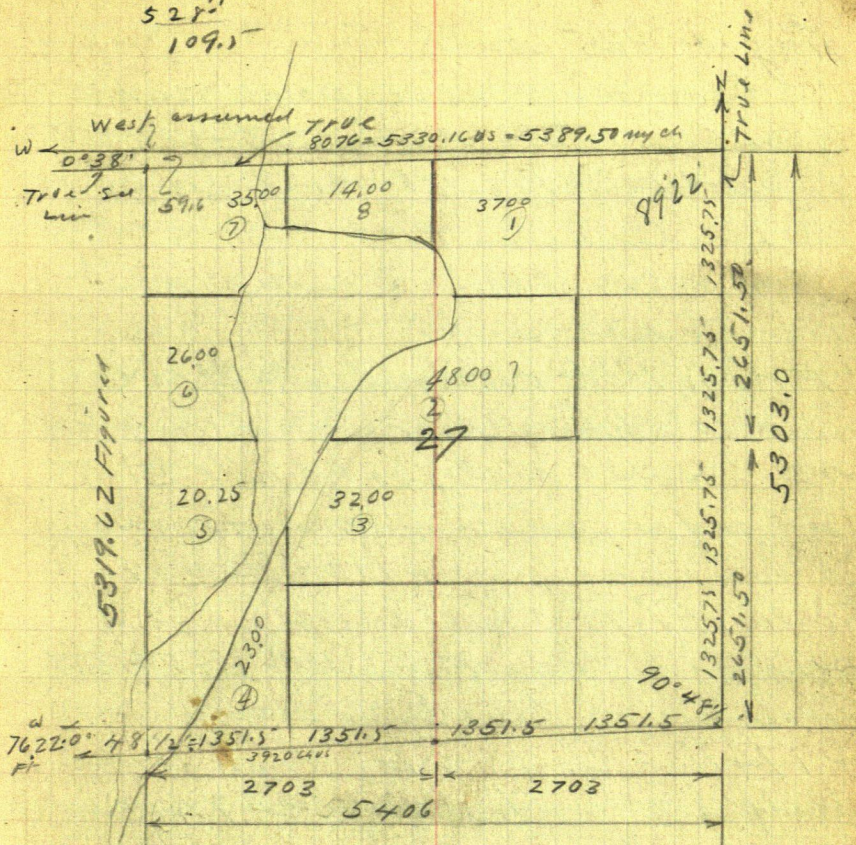
$$0°48' = .01396$$

$$0°49' = .01425$$

5389.5
521
109.1

⑤ 136.27

73



$0.481/2 \sin = .01410 \times 5406 = 76.22 \text{ Ft}$
 $\cos = .99999$
 $0.381 \sin = .01105 \times 5389.5 = 59.6$
 $\cos = .99994$

Aug 14-1925 Contd

Alma-Rud Clara Dolan and I
 Lv Jenkins 10-30 Fix are $35-50 = 85$ ft
 Super \$1.50 at Pequod Cook lunch
 at Lindenbahn Plat
 P.M.

I cut brush East.

From Hut over marsh Clara
 and I Chain West Road
 NE-SW 100. stake foot of hill E
 Edge of meadow $+300 = 400$ W
 stake in meadow $+100 = 500$ W
 stake at foot of hill West edge of
 meadow Then From Hut 2474.3 E
 Continue on line line East
 $+174.0 = 2648.3$ E. Took in 80
 half of 3" oak stump 2474.3
 $+298.4 = 2772.7$ stake "500"
 W. end of bog
 $2772.7 + 400 = 3172.7$ E
 stake E edge of meadow $+100 =$
 3272.7 Hut on ridge near by
 35. E of road.

I cut line E Reed and I Ch
 Hut $3272.7 + 114.3 = 3387$ road
 NW-SE $3272.7 + 300 = 3572.7$ st

+300-3872.7 slak

Then go E and from Hut on hill ch
 E at 300 + 125.4 = 425.4 added
 to slak 600 West = 1025.4 West
 Hut on hill

From 1025.4 W Chain down hill
 West 300 + 191.4 = 491.4 T. slak
 3872.7 E Therefore Hut 1025.4 W
 is 4364.1 E. + 1025.4 = 5389.5
 Total Quid at 6 pm 81 to clear

US Notes N. bet 27-28 110° E
 From apt onies for Cor 27-28-33-34 T 136-29 7 MC.
 So side of lake 30 Lks S of Cor in lake
 1492. N. MC BP 65 84 W 65 = 42.90
 BP 8 N 2 E 121 = 79.86
 BP 8 N 72 W 18 = 11.88
 40.00 1/4 NP 18 S 86 E 77 = 50.82
 8000 Cor 21-22-27-28- 136-29

East random bet 22-27-111° 15' 990. FT
 1500 Creek SW Th South 50 Lks Flag on ch
 Bur N 74° 45' E
 1683 giving 183 run with (120.78)
 = (1110.78 05)

4000 Ternup 1/4
 4150 marsh N-S
 4900 L. NE-SW
 6980 Leech Lake Road N-S
 8076 Intersect 62 L N of Cor

West on line line

4038 = 1/4 Oak 4 N 45 W 15 (0-75) = 9.90
 NP 105 4 E 448 = 295.68 FT (2665.08)
 US

8076 Cor 21-22-27-28 (= 5330.16 F + 05)

5389.50 my ch
 5330.16 US
 59.34 Long

2694.75 my ch
 2665.08 US
 29.67 Long

John W. C. mro

Aug 15-1925 Sat

Clara Nolan comes @ 7:30 AM to help Alma wash
Reed and I go in my car to check chain N line
see 27-136-29 Find same OK. 5389.50

Correcting

1347.38 = W $\frac{1}{16}$ 2694.76 = $\frac{1}{16}$

4042.14 E = E $\frac{1}{16}$ 5389.5 = Sec Cor

I take Clara's picture 6 lines and need in
the roll 35° + 25° 60° also 50° east Clara
in full

John Bryant and I L. Jenkins @ 5 PM
and at Hub 1330 E. Wech E 17.37 T.

1347.37 E Set West $\frac{1}{16}$ Cor bet 22-27
136-29 and drive 2x24" pipe for Ties
 $\frac{1}{16}$ over which I set π focus west
and line S 0°49'W and set Hub for
to body of road 33.0 ft so. Continue
300 ft so and quit for mile 7 for 35° 1-
John Bryant in full.

Aug 16-1925 Sunday

Alma - Reed - Clara Nolan & I
to Hankenburg's resort. Buggy for
both to Jenkins. Clara goes home
with "Daisy" Wilson. Alma kicked up
and got occidentally hurt her face in the car

August 17-1925 Monday

Reed and I L. Jenkins 11-00m Blowout
 so of Pequod. drive to West 2648.3 ChE
 46.40 To 2694.75 E and drive 2 1/4 x 24"
 Iron pipe for True 1/4 Cor Bet Sees
 1/4 22-27 T136-R27 from which we cut in
 S 0° 43 1/2' W on line C sec 27-
 @33.00 so set hub for So Edge R of W Co Road
 continues 350 ft and quit for mile

Aug 27 1925 Thurs

Reed goes for Frankie Bryant and we to
Jenkins @ 9⁵⁰ AM. I deposit \$50. Quinn's
Ck in Fst Natl Bk and see Julius Nelson
about Murray's road on Quinn's tract then
go to Mayo Lake and cut East Line Lot
As to water. Back to Jenkins for dinner
PM.

Reed - Frankie Bryant and I to Jenkins
2-30. make stakes. Tower Hut 2024.8 E
E. Focus East on line line Local Bldg

NE Cor S 9°03' E 132.3 131.3
Toilet NW Cor S 6°45' E 132.3 131.3

NE Cor S 33°26' W
Toilet NW Cor S 34°39' W 55 + 181.2 = 235.2

Run S @ 90° - 33.00 ft set Hut

Run S 7°50' W 220 ft set Hut

Tower Hut 220-

Dahm Garage SE Cor N 51°0' E 57.3 10.3 X 18.2
SW Cor N 39°55' E 42.3

Dahm Cottage NW Cor N 29°50' E 49.7
SW Cor S 66°53' E 56.7
NW Cor S 89°30' E 41.8 20.2 X 24.2
NE Cor N 82°04' E 60.7

Lindenbahn Toilet NE Cor N 49° W 49.0
SE Cor N 53°15' W 46.8
Garage - NE Cor N 53°15' W 22.90
SE " N 79°40' W 19.10
SW " N 83°10' W 37.30

Cottage NW Cor S 21°25' W 51.5
NE " S 0°35' W 39.4
SE " S 9°00' E 62.3

18.2 X 10.3

24.3 X
20.3

234.4
102.6
337.0

(11)

234.4 234.4
90.6 57.6
225.0 292.0

79

H. Boessenroth Aug 27-1925 continued

Cottage: NW Cor S 45° 12' W 117.2 18.3 x 20.3
NE " S 41° 43' W 100.0
SE " S 32° W 109.6

Note: H. Boessenroth

4253 Columbus Ave Nppls

We then cut the West line of Lot 8
NE 1/4 of NW 1/4 Sec 27-T136-R29
= 14. acres Quit at 6-15 PM.

Aug 28-1925 Friday

Reed goes for Frankie Bryant but
he has gone thrashing. I work on map
till 9 am. Fix chain
PM.

John A. Bryant and E L Jenkins
@ 2-10- get 9 gals gas & oil at
Bryant. @ 2-30 PM. Beg @ Int
NE Cor Lot 8 - Sec 27-136-29 Ch
South on line E (S 0° 43' 1/2 W)
33.00 stake 56. C road E-W, @ 94.
red flag foot of hill 234.4 S. Hub
on Knoll. + 57.6 = 292 stake in path
E-W. 234.4 + 90.6 = 325.0 foot of
seawall. 234.4 + 102.6 = 337.0
stake in sand 2 ft N of water edge
NW-SE

Aug 28-1925 Continued

Beg @ I.M. NW Cor Lot 8 - Sec 27-136-29 -

50 ft W. of West Brink of hill Ch 50 on $\frac{1}{16}$ line @ 33. Hut on ridge - runs 100 ft W @ 65 S. we are 20 ft E of bottom land which runs W and SW and are 50 ft W of W Brink of hill @ 100 we are 35 E of bottom land and 40 ft W of W Brink @ 160.80 S Hut on top 10 ft S. of Brink and on point of land running ^{land} S ^{about} 70° West (about) 150 steps 1 - run back 7, Note @ 100 ft West - this ridge seems to be 100 ft wide and my branch out NW - too much Brush to take?
@ 224.9 S. Hut 3 ft West of W Brink of hill which runs SE-NW. Hut is 75 ft E of NE Cor of Bottom land
@ 300. stake in side hill 20 E of 009 and 70 ft West of West Brink of hill which is general level of up. land
At 330 S Hut in edge of swamp NW-SE
416.7 S. Stake on line in swamp 40 ft West of foot of hill
493.4 S Hut on narrow ridge 5 ft SW of swamp which extends 50 ft
520 stake in edge of soft mud Lake shore - NW-SE

Aug 28. contd

13

81

@ 350 S West Branch of hill lies E 90 ft

@ 420 S W Branch lies East 130

Edge of swamp 35 E

at Hub 493.4 S chain about E-W

@ 40 L 67 @ 120 West Branch hi hill
which is general level of up land

at pt 100 ft about N of lake

From 120 th hill bears S 45° W 40 ft
also NE 50 ft or more

\$ I. T. John Bryant in full

Sept 2nd 1925 14

Jess' Reed and wife arrive - they
stayed last night at Gilman's hotel

I and John Pequet to Jenkins at 10
AM. - 10-30 set hut on Bee line 33745-

78-minimum Tang 16° E 2756 X 33. = 9.1

78-9.10 = 68.9

114 IM 1/16 NW Cor. Lot 8 Ch Ent 68.9 ft 70
set Hut on line see line Run S 14° 33' E at 337
35 in set. line hut @ 300 stake + 221.6 ft
red flag for Hut 45 to 50 ft N of water (channel
down steep hill) Nat: John and I come here
to dinner at Jenkins Nat. Last day of Pequet
fair Hat day. PM. to Jenkins 2-30 PM.

Pick up Tom Newmann and grind axes at
3 PM. Tower Hut 521.6 S. Small Island
Bear Vg R. E. dy of grass S 10° 53' W - Main land R.
E dy S 10° 20' W E at edge S 5° 20' W 60 to 80 Rods
away. T @ Hut 521.6 Run N 64° 20' E line
cuts so of Mags Top of bank bears S 80° W 100

N 64° 20' E 315 ft left stake

5'00 Sine 087116x
Cosine 99619 X 75.3 = 75.0
Tang 08749x

75.3 + .15 = 75.45 adding .2 in 100 ft

Sept 3-1925 Thursday¹³

Jahn, Bryant and I Lr Jenkins @ 9.30

Pickup Tom Newman at 10- Cart brush on
N. shore Mays Lake @ Hat 292. So of NE Cor Lot 8

Sec 27-136-29. BS N $0^{\circ}43\frac{1}{2}'$ E and run N $70^{\circ}10'$ W 247.5'
to hill flag Hat 30 ft from water $19^{\circ}10' + 0^{\circ}43\frac{1}{2}' = 19^{\circ}53'$

$19^{\circ}53'$ Tan = 36167

Sin 34001 X 247.5

Co. 94039 X 247.5

Chain SE Cor Dahm Gorey to NE Cor Lindenbahn
garage - dist 48.8 set stake 24.7 halfway dist
bet garages Newman goes to Jenkins to
dinner with me. Jess Reed and his wife left
at 11 AM today for Pine River

PM

at 2.30 I Lr with JB and Tom. Run 247.5
BS S $70^{\circ}10'$ E and run N $82^{\circ}03'$ W 200.5 ft to hill
red flag. 35 ft from seawall Note Hat 247.5 is
30 ft from sea wall and 35 ft from water Van leads 9°

Hat 315 (Pg 82) we set South on Right. 2.00
ft Changing the course so as to read viz
315 into 2.00 635 = $0^{\circ}22'$ As Chat Niles
read viz. Beg @ Pt on sec line 70 ft E of NW
Cor Gort Lot 8 Run S $14^{\circ}33'$ E 521.6 Hat Thomas
N $64^{\circ}42'$ E Keeping 50 ft from lake and on top
of hill @ 300 alt 315 Hat @ 386. = SW Cor of
Lot. + 75.15 =

461.15 SW cor Richard Lindenhahn Lot
on brink of hill 55 ft from water

461.15 + 75.15 = 536.30 SE cor Lindenhahn

Lot at Hammock + 75.40 = 611.70 SE cor

Mrs Dahm Lot set tall flag in brush pile 10 ft
so of Brink 50 ft from water (2 ft beach)

and 171. ft from Hut 200.5

Note Tower SE cor Lindenhahn Lot BS S 64° 42'
W to Transit telescope Turn 20° 30' R and run

N 67° 12' E 75.4 + 171.0 = 246.4 to Hut 200.5

Tower SE cor Lindenhahn Lot BS S 64° 42' W

Turn 90° R = N 25° 18' W Turn 5° still to the R and run

N 20° 18' W 185.00 Hut on line bet. Lindenhahn and

Dahm + 109 = 294.00 to Hut on Sec Line

93.6 W of Hut 2024.8 E or 1931.20 E over which

I set Transit Focus half a mile E and read

SE angle along lot line S 70° 22' E = 20° 18' E

Close check 109 + 185 = 294. — 33 ft road way

20° 22' Sine $34908 \times 35.21 = 12.25 E$

Cosine $93748 \times 35.21 = 33.00 S$

Tang $37123 \times 33 = 12.25 E$

" $\times 1000 = 371.23 + 1931.2 = 2302.43$

25° 18' Tang = $47270 \times 1000 = 472.70$

20° 22' Sine
Cosine $93748 \times 80.01 = 75.00$
adding 0.15 = 80.16 (80.15)

Check to Tom Newman \$6 in full ^{\$1.50 Quinn}
Cash to John Bryant \$4 " ^{\$4.50 Lindenhahn}

(17)

Sept 4-1925 Friday

On plat. Figuring: From Lindenhahn
 stake chain $504^{\circ}42'W$ $75.5 + 75.5 = 151.00 + 75.5$
 $= 226.5 + 75.5 = 302.0 + 75.5 = 377.5 + 75.5 = 453.0$
 $+ 75.5 = 528.5$ Then set tall flag 7.80 E of

To change E. line Lot 1 - East v. 2

$521.6 \text{ in.} \div 7.7 = .014 = 0.48' \text{ S } 14^{\circ}33' \text{ E } \times 47'$

$= 815.20' \text{ E}$ Nix Not changed

$7053' = 1907' \text{ sin } 32749 \times$

$\text{cosin } 94485 \times 75. = 70.86$

" " $\times 32 = 30.24$

Alma Reed and I drive to Lindenhahn
 college at 8-30 PM. Storm comes up

Sept 5-1925 Saturday

Commissioners meet at Breinert
 I call Nuptz and Lindenhahn will meet me
 at Red @ 4 PM. I file plat. Plat not yet
 staked but will file it and settle same later

Alma Reed and I to Nuptz @
 2.45 PM. Pick up Mrs. Henrietta Lindenhahn
 at Red 4 PM. 4-30. He agrees for repl.
 and we file plat which I take home
 \$50.00 to Nuptz Rain at night

Sept 6-1925 Sunday

Rainy. Alma & Reed run off with my car
 no breakfast

Sept 7-1925

Alma Reed & I drive to Lindenhahn
 \$100. Nov \$110

Dec 6 \$140 = \$350 in full

1925

Sept 8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

Dec 10-1925 I send Lindenhahn
Receipt in full \$350.

September 26-1927-Monday
 Working for Wilson Twp - West
 Half of T137-R29 Cass Co Minn
 Note: Wilson Twp is a part of or
 the East 3x6 miles which used
 to be Walden Twp

Geo Newman

Geo Mohs

Albert G^{generous} Anderson

I. J. Cottrell, Clerk

Chas Jokla Treasurer

PR Bank

Twp Road

I am to survey a township Road

Note: My regular lawful pay in
 Crow Wing and Morrison Counties is \$15.
 a day and all expenses. But as the law
 in Cass Co only allows \$7.50 a day
 and expense \$7.50 a day and expense
 is all I can charge.

Lo Jenkins in my Ford @ 8 am.
 pick up Geo Newman and drive
 to notify Cottrell Town Clerk who
 follows us an hour later in his own
 Ford. Notify also Geo Mohs who

Sept 26-1927
Continued

② Wilson Trwp
Road

89

also follow in 90 minutes later
Drive to res of A.G. Anderson who is
away - notify his wife and drive to Pine
River - Let Fannie Ellis off at P.R.
High School then drive back and
look for NW Cor Sec 7 137-29 Then
walk back to our car near W. $\frac{1}{16}$ bet 6-7
find Catrell and drive half a mile SW

At turn of state road on So side of
Pine River we set small peg in $\frac{1}{2}$
22 ft bet shoulders BS South over
half a mile along $\frac{1}{2}$ of road and cut
a line and picket same about 150 ft
to So bank of Pine River Then drive
back to our car near bridge Leave a
note for Mose and walk 80 rods up
N Bh of P. Riv where our picket line
points us to $2\frac{1}{2} \times 48$ " Galvanized
Iron Pipe 11 ft N. of N Bank of Pine
River in meadow Mose arrives
shortly and with \times over I.M. BS. So
on picket line At this Cor

1-6-7-12-137-29-30 US Nalis say

Aspen $5^{\circ} N 41^{\circ} E 77 Lks = 50.82$ Ft

W Pine $20 N 34^{\circ} W 140 " = 92.40$ Ft

Paplar is gone but we check the

90 Sept 26-1927 (3) Secs 6-7-137-29
continued. COSSCO

old N.P. stumps perfect - marks now
burned off. Turned perfect from Range
Line looking South. Van reads $7^{\circ}10'$ on
both sides of Pine River. We all walk
80 rods East from 3. cars where I take
the crew in my car and drive to Pine
River and eat dinner at Crommets
Restaurant where I pay for the 4. dinner
82. 4:00 PM

Back at 1 PM - Focus S on Range Line
(about 7) Turn 91° SE angle and run
East on random bet 6-7-

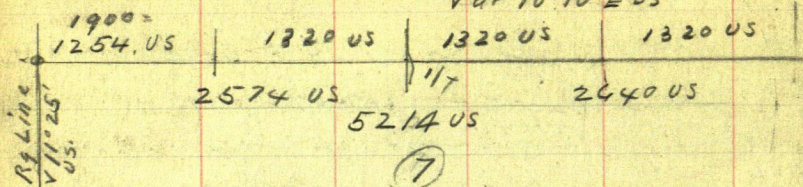
137-29 Van $8^{\circ}10'$ IM is 11 ft N of N.Bk
@ 65 ft cross old N-S. Fence 5 ft N of Riv
bank and 14 ft so of an old stake under
fence @ 193. Hit N. Bank of Pine River
Course Flag to be set about 40 Rods
East over River. Then run along N
Bank $2^{\circ}14' L$ on N $87^{\circ}46' E$ using our
random as a meridian 210 tall stake
 $+ 235 = 445$ Tall stake. N.Bk. at
310 on our angle line enter N Bank of
Pine River @ 375 River bank so go
3 ft N From 445 Chain SE along
N Bank 132.8 to picket on line
random and 3 ft N of river bank

92 ⑤
Sept 26 1927
continued

137-29 US Notes

⑥

Var 10° 10' E US



⑦

US Notes

ASP 5N 41° E 77 = 50.82 Ft US
NW Cor Sec 7 WP 20N 34W 140 = 92.40 Ft US
NP 18N 65E 81 = 53.46 US
1/4 N. Side BR 9S 70E 68 = 44.88 US

5-6-7-8

Elm 8N 58E 150 = 99. NP 10S 70W 252 = 166.82
" 7N 34E 215 = 141.9 Wit Cor South 25 LKS = 161.5

W.C. 25 LKS South also Elm 5S 63E 100 = 66.

Gurley T 300' Steel Tape

DBL Cn Hubr - PB Ch. Geo Newman Ch.

Jahn W. C. Curo

Sept 27-1927 Tues

5 gals gas 2 cts at Take Road to school
Still cold and cloudy w wind L
Jenkins 8 am. Pick up Geo Newman
and drive to Pine River Bridge. Find
Adelard J. Trudeau (French) Road Boss
and his Ford also Albert Lunnors
Anderson - also I. J. Cotterill and his
car. I get 2 Final Road Orders and
"borrow" 2 Twp. Road Petitions

Take Hub 1246.6 Take ties w
Oak 8" N 58° 24' W 49.65 to lock in flat
spot at base. NW Cor of Bridge
= end of cement S 1° 20' W 64.5 in line
with Iron rail whole W side of rail
continues S 1° 20' W

5" road fence post N 80° W 0.80 of foot
to lock. Frank Marsh drives by also
Frank Hill. Charles Glover and
Ernest Fordyce are hauling long
timbers some 50 ft long 19 miles
5 to 7 at a load. Glover says he has
400 more. Variation here reads 10°
probably on acct of Iron Bridge So
1246.6 Newman and I continue
along N edge of river bottom. Solid

(94)

Sept 27
1927 cont'dSecs 6-7
137-29

⑦

East on random bet 6-7-137-29

+300 = 1546.6 stake in swamp 15 ft
N of N bank of Pine River sharp bank 1 ft
Hi - wild rice in river - low water

1750 To 1790 Touch N.Bk Pine River 1846.6 Stake
4 ft N. of River - Bank 1 ft Hi - still in bottom land

Cotterell quits at noon and goes home in
his Ford. Trudeau and his car takes Newman
I and my Ford with Anderson drive to Pine
River Village - eat dinner with MC Cromett
and I give him a ch. for the 4 dinners
82. on Farmers St. Bk Pequot.

P.M.

Trudeau and his car take Newman and Anderson
back to work while I have Lon Fields show
me 25th I.L.P.R. @ 1.05 and find the crew
cutting East (Tanner is not dead)

Still cloudy + cold 2146.6 sth + 225 =

2370 L. Swamp NW-SE 2146.6 + 300 = 2446.6
stake + 131.5 = 2578.10 Hub under T

20 ft E of road - NW-SE

2578.1 Iron 1/4 Cor bear S 3° 13' W

85.75 Feet var roads 7° 40'

2878.10 stake in field + 274.7 = 3152.8 T

^{18.40}
Hub in field 3452.8 3752.8 sth +
148.4 = 3901.2 Hub under T 10 ft W

1927 Time Sheet Working For Wilson Twp Coss Co Minn Road Survey

⑧ Wilson
Twp. Road

95

Sept 25 26 27 28 29

John W. Curot

0 8H 8 collid
30M # 4H

Auto @ 10¢ mi

0 21 16 20

Expense

0 2.00 2.00 25¢

Geo Newman

0 8H 8 8
30M

Exp

0 25¢ - -

Geo Mohs Chairman

0 8 - 8

Mohs Auto

0 1 day - -

Albert G Anderson

0 1H 8

I. D. Cotterell Ck

0 8H 4H 8

Cotterell Auto

0 1 day 1/2 day -

A. J. Tradeau Road Boss

0 - 8 -

Tradeau Auto

- 1 day -

(96) Sept 27
1927 cont'd

secs 6-7
187-29

(9)

of N-S narrow road 3901.2 IM $2\frac{1}{2} \times 48'$
galv capped bear S $3^{\circ}35'W$ 129.8
Home at 5.40 PM.

Corrections

$$3^{\circ}13' \sin 205611 \times 85.75 = 4.91 W$$

$$\cos 99842 \times 85.75 = 85.61 S$$

$$2578.1 - 4.8 = 2573.3$$

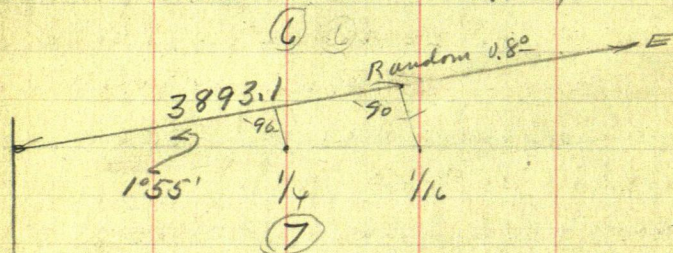
$$2573.3 E \frac{1}{4} IM \text{ Sels } S 4.81$$

$$3^{\circ}35' \sin 06250 \times 129.8 = 8.12 W$$

$$\cos 99804 \times 129.8 = 129.54 S$$

$$3901.2 - 8.1 = 3893.1$$

$$3893.1 E. IM \frac{1}{16} \text{ Sels } S = 129.54$$



$$129.54 \div 3893.1 = .033274 = 1^{\circ}55'$$

$$3893.1 \times 33274 = 129.54 \text{ OK}$$

$$2573.3 \times 33274 = 85.62 \text{ OK}$$

$$1^{\circ}55' \cos = 99944 \div 3893.1 = 3895.28$$

= 2.17 Longer Via True Line

$$1254 + 2640 = 3894. \text{ US}$$

$$1254 + 1320 = 2574. \text{ US}$$

$$3894 \text{ US} = 3893.1 \text{ My Ch Via Random} = 0.90^{\text{short}}$$

$$3894 \text{ US} = 3895.28 \text{ " Via True Line} = 1.28^{\text{Long}}$$

$$3894 \text{ indr } 0.90 = .0002311 \text{ short via Random}$$

(10)

1254 short. 0002311 = 0.29 short on Random

2574. short. 0002311 = 0.59 " on random

3894. short. 0002311 = 0.90 on Random

Correcting

1254 E. goes W 0.29 to 1253.71 E Then
South 41.72 to W $\frac{1}{16}$ Bet 6-7-137-29

2574 E. goes W 0.59 to 2573.41 E Then
South 85.62 to $\frac{1}{4}$ Cor Bet Secs 6-7-

3894. E. goes W 0.90 to 3893.1 E Then
South 129.54 to E $\frac{1}{16}$ Bet Secs 6-7-137-29

OK. All Irons check perfect (Except
that we did not look for Cor of 5-6-7-8
137-29 which is in Norway Brook.

Note: By way of True line the $\frac{3}{4}$ mile is

1.28 Long in 3894 ft $\frac{1}{16}$ sec = 3894 + 41

3894 mile 1.28 = .00032871 Long

3894 x .32871 = 1.28 + 3894. = 3895.28

1320 x 32871 = 0.43 + 1320 = 1320.43

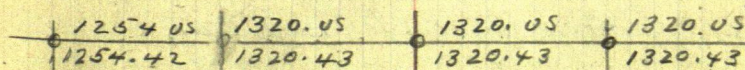
1254 x 32871 = 0.41 + 1254 = 1254.42

But 31528 E goes S 104.91

Home at 5.15 Figure 7.11 8-30 = 10 H 15 m

Aut: 18 miles Charge for 16. @ 10¢ = 1.60

(6)



Var about 6"

(7) John H. C. W.

Norway Brook

Sept 28-1927 Wed

Cloudy-Light rain I take Reed to school
8. AM L. Jenkins in my Ford. pick up Geo
Newman. Stop at Moes farm-- he will meet
us later in Pine River. Pick up Anderson
and drive to Pine River Village, Callon.

Gladys Moultrie to get map of Fred's Heron
Fred is at the Armory and he sends us
to Farmers State Bank but they have no
map. E. L. Forbes also has no map

S. P. Hanson says Fred Moultrie has
one at his house. I leave Mose - Newman
and Anderson at Gilbert's store. then
get Moultrie and we dig up an old plat
at his house. I borrow the plat to copy
and as it is still raining Mose goes home
I take Anderson home with Newman where
they get their dinner then drive home to
Jenkins. Reed takes his first noon
lunch at school House and he says
his mother has gone to Walker with Mr
and Mrs Jack McNaughton

Mr and Mrs E. J. Durham of Gallatin
Gateway Mont and Mr E. J. Oakins of
955 Cramwell Avenue St Paul who
Mr Durham introduces as his father.

(12)

come to my house with a note from Mr.
C. J. O'Connor of Idaho Falls Idaho
with a request for me to show them his
land. I go in my car and show them
Sec 13-137-29. back home at 1:30 eat a
lunch and drive to Acersvornan farm.
PM

Pick up vevnman and Anderson and
drive to res of Town Clerk Cattrell where
we find Mahs waiting still raining

Copy Piltition in part

Nilson Trwp Cass Co Minn Road as follows:

Com @ IP of E. line of Pine River - Pillager Road
with So line Sec 6-137-29 thence East
on sec line -- 16' SW cor of SE $\frac{1}{4}$ & SE $\frac{1}{4}$ Sec 6
thence South on West line of NE $\frac{1}{4}$ & NE $\frac{1}{4}$
Sec 7-137-29. to plat of Fred's Acres
thence East on N. line of Fred's Acres to
NE cor Lot 2 of Fred's Acres thence So
on W. Line of Lot 3. of Fred's Acres; Thence
East to the SE (or SW?) cor of Lot 4 and
thence terminating
Owners of Land:

S $\frac{1}{2}$ SW $\frac{1}{4}$ Sec 6- Ed. R. Brastad

SW $\frac{1}{2}$ of SE $\frac{1}{4}$ Sec 6. Michael Smith Estate

N $\frac{1}{2}$ NW $\frac{1}{4}$ 7- UNKNOWN

Road Petition Continued

Fred's Acres Fred S. Moulster, Farmers
State Bank of Pine River, Chas Rounds et al
Signers

H.C. Person

Albert V. Smith

Mary V. Smith

Nelly Hamman

John H. Norman

Fred S. Moulster

Fred Hamelin Farmers State Bk
of Pine River By Fred A. Rush Cashier

L. Kennel?

A.C. Hickel

H.A. Hasser

Des allowed Sept 3-1927

I.J. Cotterill clk

Motion & Carried to reconsider and
allowed Petition Sept 12-1927

signed I.J. Cotterill Clerk

Copy Varified Acct

Town of Wilson Cass Co Minn

To John W. Curo - Dr. Engr work in
survey of road thro secs 6 and 7 T137R29
Sept 24-26-27-28 1927 = 3 1/2 dys @ \$8.75 = \$26.25
Hotel Exp = 12 meals @ 50c = 6.00
Auto with crew and tools = 3 1/2 dys @ 1.50 = 5.25
One File 25

Surveyors Report

37.75

1.50

\$ 39.25

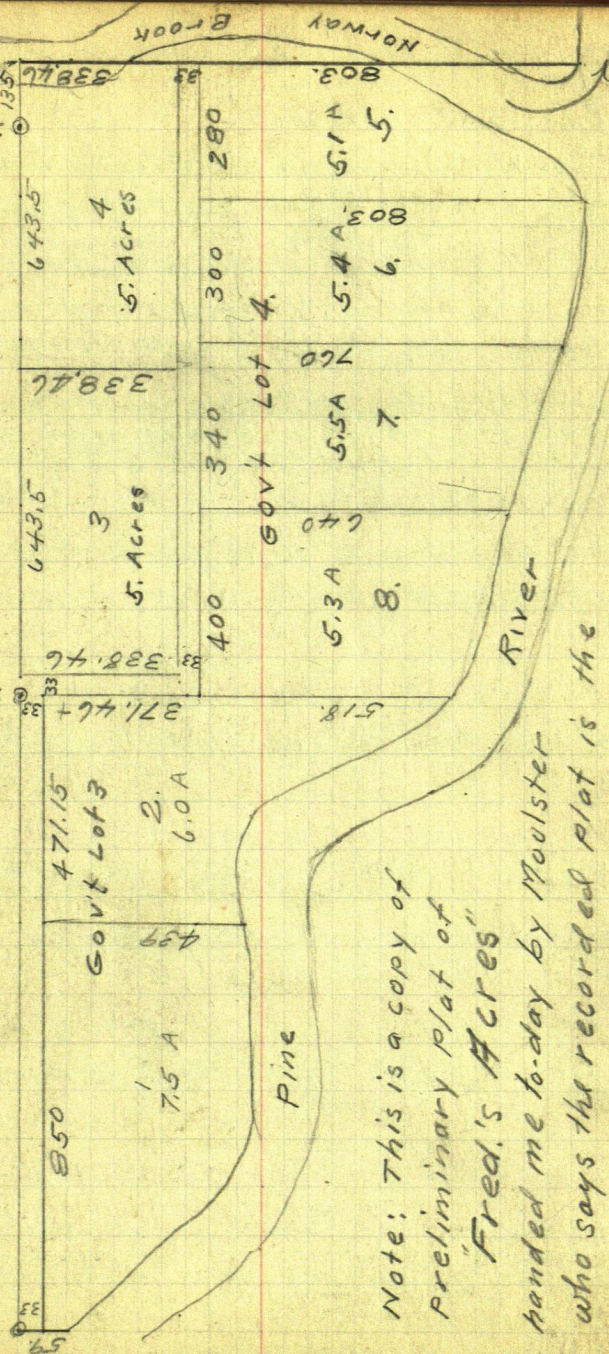
Signed John W. Curo
Sept 28-1927

Note: Above Bill allowed but not to be paid
until after we finish the survey probably
to morrow.

J.W.C.

Lots 3. & 4 Located
of the N. E. 1/4
Cass.

in the North 1/2
of Sec 7 - T137 R29
Co Minn



Note: This is a copy of preliminary plat of "Fred's Acres"

handed me to-day by Moulster-
River who says the recorded plot is the

same Sept 28-1927 John W. Cress

Sept 28-1927 continued

Town Board meet at Clerks house and because it is raining and they are too busy farming they have their meeting today while it is raining and we expect to finish the survey tomorrow but we get no more money if it takes us longer

Alma went to Walker and back
10 am to 4 p.m. with Mr and Mrs
Jack McNaughton of Brainard
Rain all day.

Note: I pay Newman 25¢ for the file cabinet and have charged it in my bill

16

W 1/2 - 137-29 Cass Co

Muni

Sept 29-1927 Thurs

Still cloudy almost rain - cold

7-90 2.00 Take Reed to school
L. Jenkins in my Ford 8-15 AMPick up Newman and Anderson
drive to Fred's Acres - find Mohr
and his Ford. Catwell and his Ford
arrive shortly and we

From E 1/4 IM Bet Secs 6-7 - run
South on what seems to be 1/4 line ? on
West boundary of Lot 2 of Fred's Acres
371.46 ft rough ch to old stake See Plat
on Page 101. This Book Field Book N-216
Then 90° E on N line Lot 8 - to old stake
450 ft checks 2/10 short Then continue
E 340 ft still 2/10 short to old stake
see Plat Pg 101. We find 2 1/2 x ? Iron
pipe for so corner of Plat Lots 3 & 4 in
its place. Turn over old Hub at NW Cor
Plat Lot 8 - viz

SP 7N 14° 40' W 96.55 FT To spot at
NP 12S 60° 20' E 61.65 " Base

At N. Cor to Plat Lots 6-7

SP 4S 29° 15' W 38.60

SP 7S 39° 47' E 65.35

Iron Pipe N 62° 33' W 71.65

John H. C. new

(17)

Figuring: Iron Pipe N $62^{\circ}33'$ W 71.65'
 $62^{\circ}33' = 27^{\circ}27'$

Sine $4617 \times 71.65 = 33.08$ N

Cos $88701 \times 71.65 = 63.55$ Ft W

Close enough OK. This is Cor Iron
 Pipe at Lats 3 & 4. of Plat

From Cor to Lats 6-7 Chain West 63.55'
 set iron pin then 16.5 S set Hub for
 S. Bdry of 66 foot road and from
 iron Pin chain N-16.5 set Hub and
 tall stake marked E Road-E-W

From Iron Pipe Chain N-16.5 set
 $2 \times 2 \times 30"$ Pin stake for New Corner
 of Plat Lats 3-4. no line

Walk West and bet Lats 7-8 set new 2×2
 $\times 30"$ stake 16.5 ft so of old stake to preserve
 the line as the new 66 foot road will
 wipe out all of the old stakes; set also
 flag for Nbdry and hub & flag for E

NW Cor Lot 8 run north 16.5 and
 set $2 \frac{1}{2} \times 2 \frac{1}{2} \times 24"$ pin Hub for E & H road
 road N and E Then to mark R of W Bdry
 chain SW 46.7 and NE 46.7 set tall flags

E 1/4 IM Bet Secs 6-7-137-29 T1S

JP85 $29^{\circ}45'$ W 76.31 JP65 $26^{\circ}50'$ E 53.55

JP75 $83^{\circ}43'$ E 31.35. Pin at SW 46.7 ft

Wilson Twp
= W $\frac{1}{2}$ T137-R29 105

(18) Cass Co Minn

Sept 29 1927 continued

Dinner at Crocuments cafe \$2.50 pd by me. PM. Correct Hat 3152.8 on section S104.90 to line E & W See line then run bath ways E-W set 2 road stakes

$\frac{1}{4}$ IM Bat 6-7-137-29

J.P 12°N 26°50'E 34.50

To spot at base
turned from true
line E-W

Twin NP 18 at base S 89°W 26.50

J.P 18 S 55°E 60.50

Run & road

N 55°W 303.7 Hat & proposed new road

N 87°50'W 300-600-900 stakes - 52 = 848

Hat: 900 stakes @ 1030.3 under guard fence E side state highway on curve .40 S. of fence post @ 1049.5 under fence on W side .10 S. of Post

Angle pt at Hat 848 run N 64°W 180 ft to E State Highway N° 19 intersecting at right angles to state road at this point turned from state road with π roughly

Quilt at dusk. Board all her hand me my twp warrant \$39.25 and I like Newman and Anderson home amid lots of pretty compliments on both sides for the "good work" and

John W. Cross

Sept 30 - 1927 Friday

Alma and I drive to Pine River and
I get my Twp Warrant cashed \$839.25
Home all day. Gauthier and Pond call
R.W. Pond seems to be District Manager for
Manhattan Woolen Mills Factory Distrib-
utors of Woolens Duluth Minn--

They have charge of 11 Counties and
want me to sell goods for them.

Nov 3 - 1927 Thursday

Reed and I batching Alma at Bachus
since Sunday P.M. I work on Final
Road Order and plat of "Fred's Acres"

Twp Road: Figuring

$$\begin{aligned} \text{Sine } 8192 \times 303.7 &= 2481.79 \text{ W} \\ \text{N } 55^\circ \text{W } 303.7 \text{ Cosine } 5736 \times 303.7 &= 174.20 \text{ N} = \text{Sta } 3 \\ \text{Sine } 9993 \times 848 &= 8474 \text{ W} \\ \text{N } 87^\circ 50' \text{W } 848 \text{ Cosine } 10378 \times 848 &= 32.05 \text{ N} = \text{Sta } 2 \\ \text{Sine } 8988 \times 180 &= 151.78 \text{ W} \\ \text{N } 64^\circ \text{W } 180 \text{ Cosine } 4384 \times 180 &= 78.91 \text{ N} = \text{Sta } 1 \end{aligned}$$

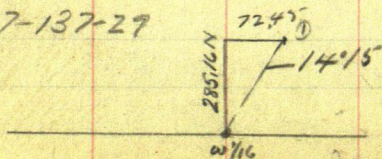
W

N

$$\begin{array}{r} 248.79 \\ 847.41 \\ \hline 151.78 \\ 1247.98 \text{ W} \end{array} \quad \begin{array}{r} 174.20 \\ 32.05 \\ \hline 78.91 \\ 285.16 \text{ N} \end{array}$$

$$\begin{array}{r} 1320.43 \\ 1247.98 \\ \hline 72.45 \text{ E } 1/16 \end{array}$$

Sta 1. is 285.16 ft N and 72.45 E of W 1/16
Bet 6-7-137-27



Road Svy
6-137-29

Wilson Twp = 107
W 1/2-137-29 Cass Co.
Minn.

14°15'

(20)

$$\begin{aligned} \sin 24.615^\circ \times 294.21 &= 72.42 \\ \cos 17.96923 \text{ mi. } 285.16 &= 294.21 = 285.16 \text{ N} \end{aligned}$$

0 = 1/16 Cor In State Road	1320.43 W of 1/4 Cor			
0 N 14°15' E 294.21 =	285.16	72.42		Sta
151.78 E	78.91	151.78		1
1 S 64° E 180 = 78915	206.25	224.20		2
	32.05	847.41		
2 S 87°50' E 848 = 847.41 E	174.20	1071.61		3
32.055	174.20	248.79		
3 S 55° E 303.7 = 248.79 W	00.00	1320.40		
174.205				

Nov-21-1927

①

Monday I am to survey and plat a cemetery \$20. only. They are to furnish helperr. I take Reed to school-- send him like to M W & Co. L. Jenkins in my old Ford about 10 am. Drive to Berger Olson's- pick up Berger- miss my spare tire and drive back to Jenkins no find and we drive to Jacob Johnson's then to Emil A. Erickson farm where we eat our lunch and take Erickson and some wood drive a mile E to Church where we meet Andrew Ruigh who helperr PM At Cor to

28-29-32-33-137-30

There is an Iron Mon Set by me 20 years ago and from which N.D. Gorman my Deputy- with Berger & Olson once run a road North.

We dig for the Iron but find it too hard so set spike in E of intersection of 4. road - narrow sharp grade N-S-E and W This viz

NP 12S 43° 08' E 64.08 Flat spat at base
SW Cor Church Cem Foundation Main Bldg
N 50° 58' E 150.85.

110 Nov 21-1927 contd (2)

28-29-32-33-137-30 Spik Turnp Cor
ties Continued:

NW Cor Main Bldg $N 42^{\circ} E 176.45$

NW Cor of Addition $N 40^{\circ} 25' E 190.50$

SE Cor Main Bldg $N 56^{\circ} 14' E 170.11$

Church is $36-3 \times 24.2$ with add 14×14
on N end in Cen of Bldg 7×4 porch S. end

We have no deed and do not know the
shape of the Two acres. Jacob Johnson
is to go to Pine River tomorrow to get deed
Home at dark.

The Ev Luth Maple Hill Church of
Pine River P.O. Minn

Cemetery Association

Jacob P. Johnson Sec

Andrew Ruigh Ch?

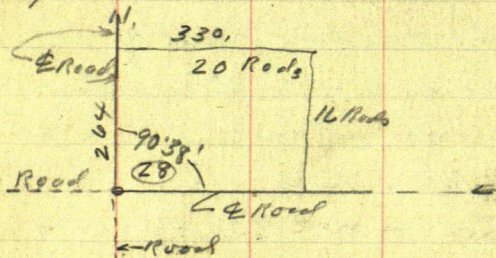
Geo Olson

Alfred Peterson

Berger J. Olson Treasurer

trustees

Christina Pederson



John W. C. C.

Time Sheet

Nov 1927 20 21 22 23

John W Curo ch.

1 1/2 PM 1

Exp

Gas 2.00

Car

1 1 1

Bergerd. Olson

1 1/2 PM 1

Jacob P. Johnson

- 1/2 PM -

Andrew Ruigh

1/2 1/2 PM PM

Emil A. Erickson

1/2 1/2 PM PM

James Reed Curo ch

- 1 1

Pine River Star Route July 10-1928

NOV 22-1927 Tucs

50* To Hjelmer Olson to tighten Transmission bands. Note: Chas Jodka found my Tire and left it at Olson's Garage where I get it Dinner at home P.M.

I and my Ford pick up Berger. J. Olson at his place. Arr at Church 2-P.M. No one in sight so we drive half mile so and wait for Jacob Johnson who returns from Pine River at 3.P.M. Farmers State Bank of Pine River copies land description only
20 Rods long E x W By 16 rods N-S
See Description Page.

Erickson and Ruigh meet us at church and we Beg @ SW Cor 28-137-30 run East along a road probably the sec line @ 300 Red Spikes @ 330 E Red spikes
To over 300 E Focus W on Sec Cor and look East = $S 89^{\circ} 22' E$ Then run North Parallel with West sec line @ 33 set red spike = road limit @ $33 + 29 = 62$ set $1 \times 12"$ Iron for SE Cor
Cem Lab. Call I.M. at 62 = 0.0. Ch
N 20-24-44-54-74-78-98-108
128-132-152-162-spikes @ 172 I.M. NE Cor

Nov 22-1927 Cont'd

113

(5)

Then stake so end of lots run
West 10-14-24-34-44-48. Set red spikes
@ 58 set 1x2" Iron Pin for SW Cor
Home lot

Nov 23-1927 Wed

Still about 4" dry snow - Bright sun
shin so wind not cold Reed and
I in Ford and lunch L. 10 am
Pick up Berger and find Emil
waiting at the Church - Alfred Ander-
son calls. We rake in the West
and N sides then eat our lunch
in the church. PM we finish
staking the lots and set 1x12 Iron
at NW Cor

Then over SW Cor I m. Take position of
some nice trees in the grounds

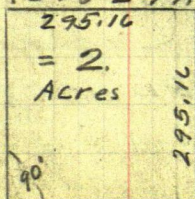
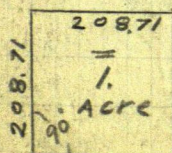
Ug: WP 16 N 3° 37' W 129.8

W. Pine 14° N 79° 40' W 59.

Oak 15° S 49° E 67.5

Norway P 12° S 78° E 77.5

Feet to
Heart or cen-
ter of Tree



Note

43.560 Sq Ft = 1 acre

78.120 " " = 2. "

John W. Cunn

Nov 23-1927 continued

We all eat our lunch in the Church P.M. Reed helps of course and we finish staking the grounds by driving 20^d spikes with red cloth patch at all lot corners. At NE Cor Iron

Chain 30 ft E and 30 ft N and set 2x36" pump point for TRUE NE Cor of the 2. acres; at 330 E Chain N 33 ft and square up stump of 1. inch Birch or willow tree for SE Cor and at 264 ft N of SE Cor Chain 33 ft E and set spike for line N.W. Cor

Short piece of lot set near all points so as to find them easily when stakes are set next Spring

Emil A. Erickson hands me \$20.

as payment in full and I promise to send plat and blue prints and to write Bergerd. Olson R#1.

Pegot Minn Reed and I get home to Denkins early and find Alma busily preparing

Thanksgiving Dinner for to-morrow
All O.K.

John H. Cress

Deed

8

"A tract of land 16 rods wide N and S and 20 rods long E & W located in SW Cor of SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 28 T137 R30 containing 2 acres of land more particularly described by metes and bounds as follows: Com @ SW cor of said sec 28, thence running North a distance of 16 rods along the section line on West side of said sec, thence running East at right angles with said line a distance of 20 rods, thence running South at right angles with said line a distance of 16 rods to the sec line on South side of said Sec 28, thence running West along said sec line a distance of 20 rods to the place of beginning"

Note: above is the crazy description evidently given to

"The Ev Luth Maple Hill Church at Pine River P.O. Minn" as this appears on their insurance papers

Note: As the NE angle of the sec Lines read $90^{\circ}38'$ I pay no attention to the "at right angles" wording of the deed,

John W Cuno

July 13-1928 Friday

Mr and Mrs Host of First Natl Bank
Pegroot drive to my home at Jenkins and
ask for cost of survey of W 1/2 NE 1/4 - sec
5-135-29 owned by First Natl Bk Pegroot
West line is what they want
I cannot tell what it will cost

July 14-1928 Sat

Alma Reed - Junior Babcock
and I drive there - stop at W H
Kraemp Farm and home to Jenkins

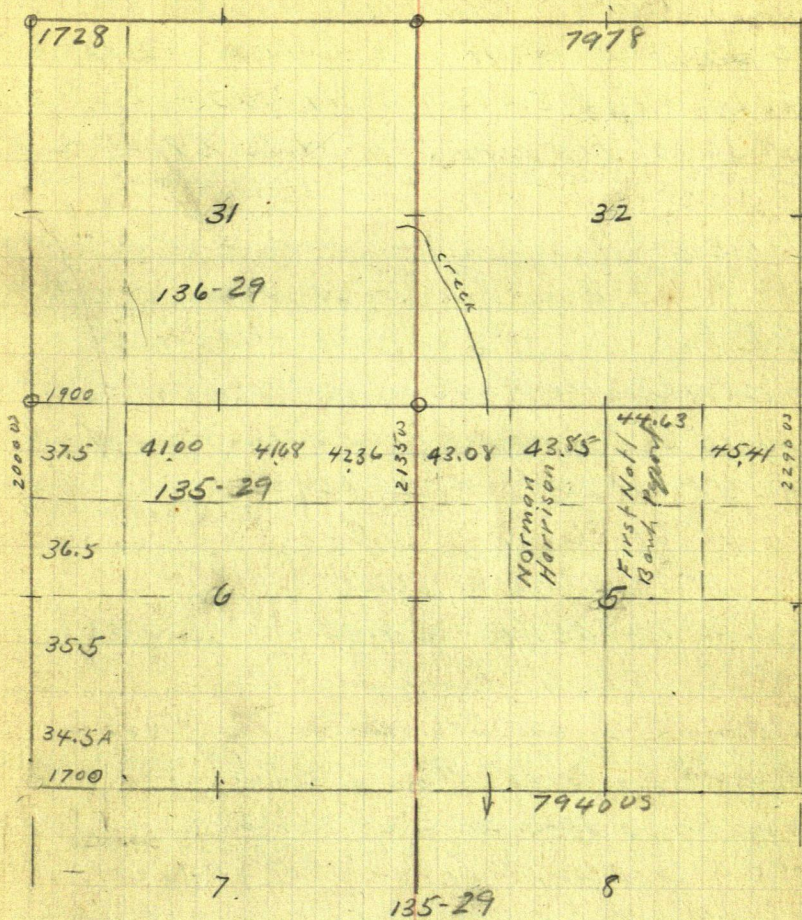
July 24-1928 Tuesday

Ilo - Doris - Foad McIntosh - Junior
Mary Curo and I go to Walker in
Burck. - view cemetery and copy
my old survey notes. Then drive
to Pt Rapids - Hubbard - Bochner
and home amid various blowouts

Addresses

Leola Splittstaszer 16 - Daughter of
(Georgie Estabrooks) - stays with
Wm Philstrom R H + Verndale Minn
gets 1/2 a week - 8 miles SE of Hubbard

(2)



July 27-1928

Norman Harrison of Pegvot owns and
lives on E $\frac{1}{2}$ NW $\frac{1}{4}$ Sec 5-135-29 and
calls at my Jenkins office and says
he will cut brush free of cost if the
First National Bank of Pegvot will
pay me for the Engineer work.

Note: I promise Mr. Hart at
the Bank that I will do the work for
\$30. flat and he says O.K.

July 28-1928 Sat

I L^v Jenkins 6:30 PM - drive to
Town Hall St Mathias Twp 43-31
Met the Town Board Got ch^{\$} 75.
and L^v my \$60. ch till I finish their
records. At midnight I wake
up Dennis Langevin and sleep
with Fabian.

July 29-1928 Sunday
Home St Jenkins

Addressee: Mr John P. Nash = Margie M.
Nash 828-7th St (Smith)

July 30-1928 Monday

Reed and I drive to Beaumont
cash my ch \$75. back to Cor

5-6-31-32-135-136-29

Reed and I work alone Set

20^d spike S. wheel track E-W Road
Old BTS viz

JPN 25°49'E 21.06 FT to 20^d spike in SW
Cor old BT mark at bore

7" JPS 59°58'W 36 FT to 20^d spike ^{New spot} at bore

7" JP (Now stump) S 53°51'E 54. FT to
20^d spike in side 1 ft. above old
BT mark

I take New BT = 12" JPN 47°13'E

56.52 ft to 20^d spike in new spot
at bore (sticks out 1/4 inch).

In setting a back shot we find top of 2" iron
pipe bent 3 inches West and 1/2 inch N of my
spike at True Cor 5-6-31-32-135-136-29
Var north 7°. C road

Looking 3/4 mile N - runs N 1°W

" 1/4 " W N 89°30'W

" East about 90° ?

Set line of picks to half mile E where
Norman Harrison will start cutting
brush in the morning Reed & I back
home at dark
S. to Reed.

Jahm W. Cus

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(7)

July 31-1928 Tues

Reed and I fix line eat at home

1-P.M. drive to work Find Norman
Harris cutting line Reed & I 300' ch
Garley & double center Hub PB line

5-6-31-32-135-136-29 run

East on town line & road

3-6- 656.6 Hub 900. about 1150 E Cross
Creek at end of Bridge Run S.

1200 + 188 = 1388 E Hub 1500-1800

21-2x 2640 Hub

1/4 Bat 5-32-135-136-29

US Notes call for

Pin 8 S 45 W 4 = 2.64
Pin 2 8 N 57 W 15 = 9.90 zone

2665.4 Hub 2700- 3000. stakes 301x Hub

3148 center S half of 5 ft center Hole 6' deep

3300 stake C E set hub and

Quit for night 6-P.M. Find chain
brooks. home to Jenkins

August 1-1928 Wed

Rain - Home all day Jack Work gives
Reed one of his good suits of clothes

⑧

Aug 2-1928 Thursday

1-PM Reed and I pickup Norman
Harrison and his two pairs rubber boats
Met "Bill" Kramp and we Beg @ Hub
 $3300 + 102.2 = 3402.2$ ^{Hub} Continue

East on random Town Line

Cut out yesterday by Harrison & Kramp
with only pickets 3600-3900 W Brink
3941.3 Hub under transit X on top
of long high hill 3960 Hub 3975 E
brink: ^{4400 Foot} 4200-4500-4551 Hub

4620 enter water of swamps N-S

4780 creek maby? 4800-4980

Low swamps. (I got bath feet wet)

$5100 + 109.3 = 5209.3$ Hub. 5280 Hub

4-5-32-33-135-136-29

Bears N 8° 39' E 31.16 Feet

We find my old 3x36 inch oak stake & Tack
set By me in Lundene survey May 1917
See Page 53 This book.

US Notes coll for

Pine 14 S 63 W 46 = 30.36 OK STA

" 12 S 12 E 12 = 7.92 OK. Root

" 10 N 30 W 90 = 63.36 OK Tack MK'd N 28° 50' W

" 24 N 75 E 70 = 46.20 OK stump
scribble by hand

New Old NP 15 N 21° 40' W 9.75

NP 18 N 8° 30' E 16.82

NP stub 12 N 27° 15' E 13.80

I spot new BT NP 15 N 81° 50' W 39.20 spot 3" up
 also above Hub 5280 E Bears 9° 37' W 31.16 V 9'

Time Sheet Working For First National Bank of Pequot, Minn.

July 1928 13 14 24 30 31 Aug 1 2 3 4 5 6 7 8 9 10 11

John W. Curo T

Expense

Cor

James Reed Curo^{ch}

Norman Harrison^{AK}

Wm H F Kramp ax

1/2 1/2 1/2 1/2

-

-

-

-

1

1

1

1

1

1

1

1

1

1

1

25

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Note @ 2602.35 set spike +10 E to 2602.45
 E at which point π turned 90° 20' L from
 Hat 1388 and put our random

South @ 90° To line Town Line at
this point

Harrison calc line So Reed and
 go home to dinner

P.M.

I go to Walker with Jack McNaugh
 for and Marnel

Aug 4-1928 Sat

Reed and I 9 a.m. Lv Jenkins Run

South on random & run 5

135-29 @ 47.8 old 2x2x24" slate

Set years ago by W H Hallett when he
 surveyed the NE Cor of school
 grounds 20 years ago with an old
 compass (Note he got his 'x about ok
 for E x W but pegged a rod so)

@ 256.5 Hallett's old 2x2x2x slate
 sets west 3 ft about. @ 300' slate

293.5 old fence E-W

First Noll Bank 129
Pequot

(12)

- @ about 416 So. NW Cor of house nls about
27 ft E @ 450 S - SW Cor Kitchen E 27 ft
- @ 474 to 484 small snake 1 to E 50 ft?
- @ 500 to 510 Corn Crib E 40 ft about
- @ 508 to 512 out to West 15 ft
- @ 570 to 584 Barn rd. E 12 ft
- @ 570 to 582 old Log Barn W 20 ft
- @ 600 stake in clown - 900 - 1200 - 1320
- 1500 stake in clown field 1552.5 Hub
in clown. 1560 Hub 1563 Fence E W
- L. Clown field 1800 - 2100 - 2131.6 Hub
- 2400 stake Set Hub and pick up ahead
for Harrison to cut on for road 80.
- 1.05 Quit

(13)

Aug 7-1928. Tuesday

4PM Reed and I by Ford in wood and
poach Trout half a mile or so E Sec5-135-29 Follow picket line cut
by Norman Harrison south

@ 2131.6 - 2400 slat. Conlunus

South on E Sec 5-135-29

2686.5 Hat = 2 small pins Double

Conlun - 2700 Hat 3000 - 3300

3600 slat. 3628 Hat Harrison's

picket line crosses East here and
we chain along it 3900 + 4200

4500 - 4800 + 200 = 5000 S slats

5033. = E. C. Road E-WQuit at 6PM. Drive to
Harry Parks Resort. Then to
Pegmat 50¢ for a handleGrind axes at Malson's Mill
Home to Jenks at darkNote: Alma has good supper
waiting - first in years!!!

Kroostoe just left

Aug 8-1928 Wed ⁽¹⁴⁾

Reed and I Lr Jenkins @ 8 am
Find Norman Harrison on line
Cut new line S @ 4200 Hub 4500
Hub @ 5000. Hub on new line

Note: The $\frac{1}{4}$ To Hub 2700 S is
Perfect P.B. Ch but from there
South we took only rough chain
which may be off 4 or 5 tenths of
a foot at 5000 so ? not our $\frac{1}{2}$ foot
and maybe correct.

US Natl survey W Side Sec 5 is 1.35 chs long
E side 2.90 chs long

$\frac{1}{2}$ = 2.12 $\frac{1}{2}$ lbs

South on $\frac{1}{2}$

5000 + 300 = 5300 slak

5420.25 US chain set stake

$\frac{1}{4}$ Bet 5-8-135-29 H-Y-5

US Natl ASP 6118922W 20-17.16

WP 9N 53E 14-9.24

Reed and I drive to Pequot 8 miles to
dinner Rd 85 Meet Mr Hart

PM

Back on the job and find Harrison - we
look for $\frac{1}{2}$ Cor Mr Parks corner
and show us where I set in London Survey
Cor to 4-5-8-9-135-29

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(15)

4-5-89-135-29 US Vales say
 Tam 4N13E12- Tam 4N23W15-
 BFir 7S52W23- BFir 4S14E21

5-6-7-8-135-29 US Vales
 BRN61W359 = 236.94 ASPUS4512W 299-190.74
 Only Two

We dig for stone or Iron in & of good
 graded road E-W-S- but find none.
 We find old scribed trees NE NW-S E

Set probably by old Surveyor
 WH Hallett but he is probably dead
 and his notes lost We set

Red Flag IP of Roads for Temp Cor

5-6-7-8-135-29 and drive
 East and start picket line Out
 at dark. Home to Jenkins

HAKrastue calls me out of bed at
 10 P.M. and wants Swarts or some
 one to plow one farm and sow
 Red Clover and Winter Rye

I pay Krastue \$5. on acct

$$\begin{array}{r} 65300.2813 \\ 718581.3 \\ \hline 1081.3 \end{array}$$

$$\begin{array}{r} 150.300 \\ 450 \\ \hline 76.8 \end{array}$$

$$\begin{array}{r} 300.1100 \\ 76.8 \\ \hline 223.3100 \end{array}$$

150810.51

Aug 9-1928 Thurs ⁽¹⁶⁾

Alma-Reed and I take lunch go to
Report where Mr Hart says he will pay
me \$20. more on a total of \$50 for my
part of getting his lines and says they
would have to pay \$75. if necessary

I find Harrison and his boy on
line. Cut line east and East to
lunch P.M. Reed &

56-7-8 135-29 Temp red flog Cor
East & good road. 1031.3 NW
Cor Iron Standard at NW Cor Cement
Bridge rail + 76.8 = 1108.1 E = 4 road
Turn NE + 400 = 1508.1 Hub on hill
= Tall stake 10 ft E of old N-S-Road

Buy @ 1508.1 continues 144.7 to 1652.8 E
Back stake on line + 297.1 = 1949.9 Hub
+ 124.1 = 2074. Stake 2374 stake
one foot E of E wheel track at
N-S-Road 2377 E cross line of
old posts 11.5 ft S of NW Cor old
fence 2374 + 93 = 2467 Nail in E Hub
10" green J.P. stump 12 ft S of old E-W
fence 2692 Hub 2767. Stake + 17.4 =
2784.4 E Intersect Random at
5422.90 S.

π over IP 5422.93 = 2784.4E
 NW angle reads 89°06' Continue

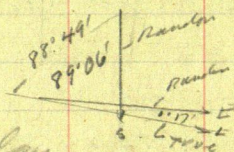
East on random (S89°06'E)

$$2767 + 247 = 3014 \text{ Hub}$$

$$3014 + 65 = 3079 \text{ Hub}$$

Quit at 7-30 alvin Reed and I home to.

Jenkins at dock



Aug 10-1928 Saturday

Alvin Reed and I in old Ford
 take our lunch and @ 8 AM to Jenkins
 Grind axes and buy more lunch at
 Pequot Mr Hart will raise my
 money to a total of \$75. for my work
 in getting N and W Boley of his land
 W 1/2 NE 1/4-5-135-29-80

We find Harrison and his 7 year old son
 on line Continue

East 3079 Hub on E Bank of big hill
 @ 3300 E enter swamp N-S- 3379 slab

$$3679 \text{ stk } 3700 \text{ Lv boy } 3679 + 99 = 3778 \text{ Hub}$$

$$3778 + 244.7 = 4022.7 \text{ Hub. } 4030 \text{ Fence}$$

$$3960 \text{ Hub } 3778 + 182 = 3960$$

$$4078 - 4378 \text{ slab } + 158.9 = 4536.9 \text{ Hub}$$

(18)

4678 Stake + 222 = 4900 Stake 20 ft in bog
 (4880 earlier bog) NS - 5200 stake 5207.2 Hab
 5280 E Hab still in bog T over 5280 E cor
 4-5-8-9- 135-29 - bears

S 16° 40' W 27.3 Feet We find 2x48" Pys
 Set by J. A. Lundeen at the point where
 I set the Hab for the true corner 11 years
 ago May 1917 See Page 53 This book
 US Note Page 132 This book

Today we still find the stump of SW Tree
 plainly marked "BT" being B. Fri 7"
 S 52° W 23 Links = 15.18 Feet But using my
 random or a meridian old stump stands
 1' off being S 53° W 15.18 Feet O.K. as we
 still find roots of all four old BTS. and
 check for distance We probably set the
 cor by flat chain or used 1° different
 meridian

I find two of my old BTS, viz.
 15" Pine Stub 12 ft tall Took in spot of bore
 N 33° 56' W 24.90 Feet
 10" W. Birch S 85° 40' E 36.45 ft. New spot
 at bore - just above my old spot which
 is now grown over Guit at 7:07 PM.
 home at dark. Gaurley Transit 300"
 steel tape R.B. Ch. Jahn W. Cur

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135-29

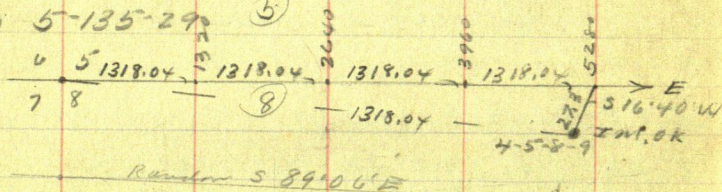
Sec 5

(19)

August 11-1928 Saturday

Reed stays home to go to Emily with ball team. Alma and I take lunch and

Go for 5-135-29 (5)



$$\sin 2868 \times 27.3 = 7.83$$

$$16.40' \cos 95799 \times 27.3 = 26.15$$

$$\frac{5280.00}{7.83}$$

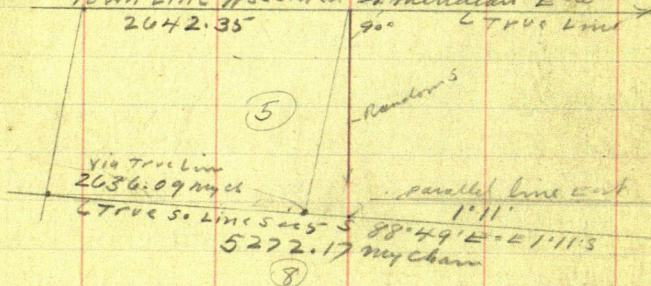
$$5272.17$$

$$+ 5272.17 \text{ E cor Sec 5 } 26.15$$

$$5272.17 \text{ into } 26.15 = .00496 = 0.17'$$

$$5284.70 \text{ my chain}$$

Town Line Assumed as meridian E-W
2042.35 90° True Line E



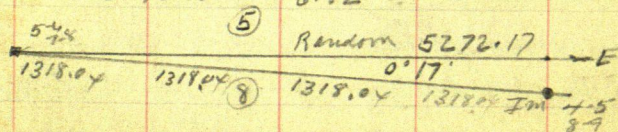
Correcting So Line Sec 5-135-29

$$5280 \text{ E } 95^\circ \text{ S } 16.40' \text{ W } 27.30$$

$$3960 \text{ E } \quad \quad \quad \text{S } 16.40' \text{ W } 20.47$$

$$2040 \text{ E } \quad \quad \quad \text{S } 16.40' \text{ W } 13.65$$

$$1320 \text{ E } \quad \quad \quad \text{S } 16.40' \text{ W } 6.82$$



20

Alma and I L.C. 10 AM and drive to Harrison
Res then to Stony Brook and cook coffee etc.
P.M.

Norman Harrison - wife & family come and stay.
With Alma Norman and I concert line

Correction

Bet 5-8-135-29 = .00496 S
 5272.17 E goes S 26.15 = 4536.9 E goes S 22.50
 4022.7 E goes S 19.95
 3954.12 E Goes S 19.62 To E $\frac{1}{16}$
 3778 E Goes S 18.74 3079 E Goes S 15.28
 3014 " " S 14.95 2784.4 " " S 13.81
 2692. S 13.35 2467 " " S 12.24
 1949.9 " " S 9.67 1652.8 " " S 8.20
 1508.1 " " S 7.48
 2636.08 E Goes S 13.08 To $\frac{1}{4}$
 1318.04 E " S 6.54 To W $\frac{1}{16}$

We check chain East From 1508.1
To 4900 E and find all hubs O.K.

Walk back and set π over Hub

2692 E Chain West 52. To 2640. E
 π over 2640 E run S $16^{\circ}40'W$ 13.65 To

True $\frac{1}{4}$ Cor Bet 5-8-135-29

2x2x 20" oak Burr oak 7N 47'10" E 52.36
 JP 8N 25'03"W 78'50"W 62.0 Pp 7N 14.38
 Burr oak 8S 60'05" E 29.36 T. sp. at base turned
 From true line 57d

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(21)

Town 1/4 Bet 5-8-135-29 run

N 53° E 9.24 set peg pt for old BTS.S 22° W 17.16 set PegOld Pine Slump 10 N 62° E 5.7 To Side of Slump

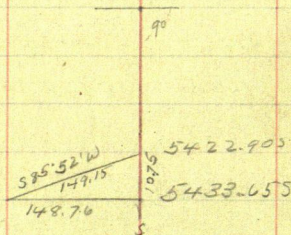
Flag @ IP Hub

N $84^{\circ}44'$ E 149.15 From Tree E-W Line about .

At 5422.90 So 1/4 Bears

S $85^{\circ}52'$ W 149.15 Feet

1/4 sec about 25 ft W and 13 ft
 So of old fence line posts mostly
 down

S $85^{\circ}52'$ W 149.15Sine $07208 \times 149.15 = 10.755$ Cosine $99740 \times 149.15 = 148.76$ At 5433.65 S 1/4 sec West $90^{\circ} = 148.76$ feet5433.65 into 148.76 = .027376 or = $1^{\circ}34'$

Correction N-S & 5-135-29 April

600 S 900 W 16.43

1552.5 " " 42.50

1560 S " W 42.71

Moved 1/4 on N side 5-135-29

Focus So on Flag 1552.55 Set Hub at 600 S
Xover 600 S Turn 90° W 16.43 Set Hub on line
line back limit so to Hub 1552.55 ch
West @ 90° 42.50 Set Hub on line line

X still at Random Hub 1552.55 split oak
Fence post bears N 78° 30' E cuts 1 inch N
of top of fence post just N of SE cor clover
field about 1000 ft East

X over corrected Hub 42.50 = 1552.5
S and 15 ft N of so edge of clover field Focus
N on correct true line and set Hub
about 25 ft so out of field

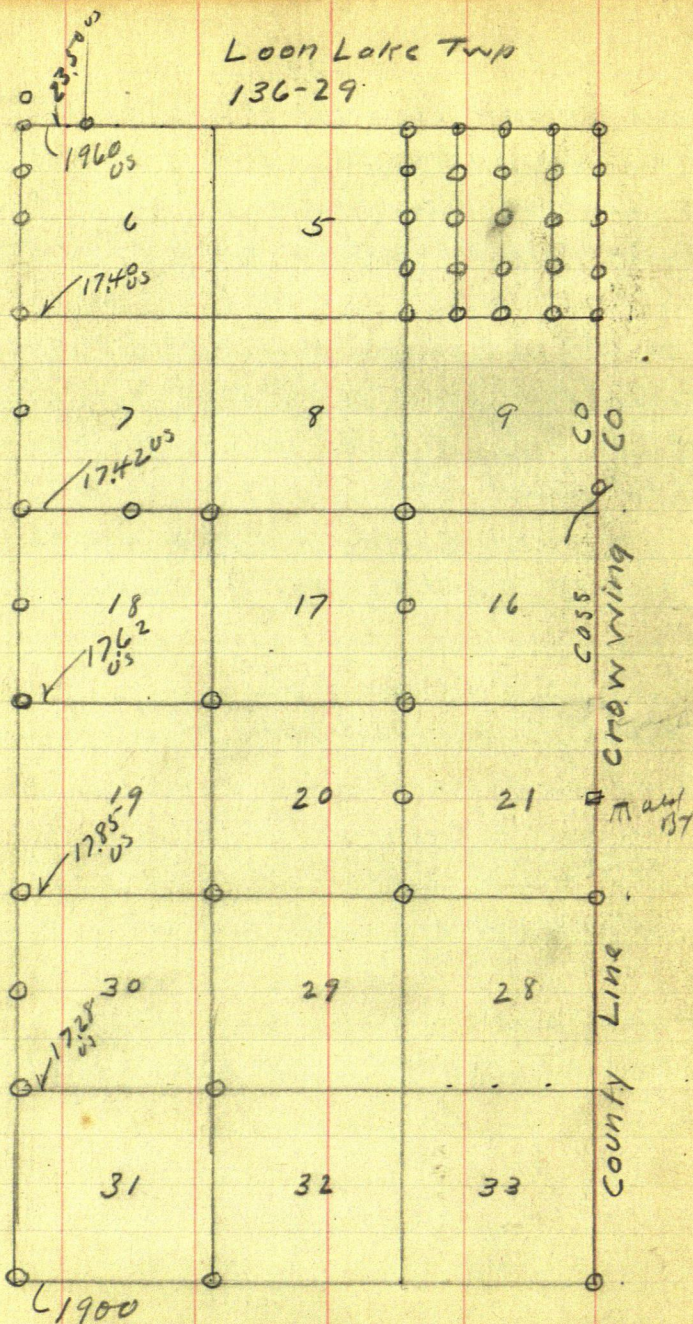
First fence post 1000 ft E bears
N 77° 25' E another fence post just so
May be SE cor post of fence bears
N 77° 45' E about 1000 ft

Focus N on line line and set
two ball stakes in clover Rake in
to Hub 600 S. Quit at dark and

Alma and I eat lunch at Pequot
then home to Jenkins

Jahm W. Cline

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Loon Lake Twp
136-29

136-29

141

Cass Co Crown	3	2	1
	10	11	12
	15	14	13
	22 m ^{old} BT	23	24
	27	26	25
COLIN	34	35	36

Feb. 1938

1) C. A. Ryan

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Lake Shore Twp Coss C. Minn

$W\frac{1}{2}NE\frac{1}{4}5-135-29 = 84.63 A. U.S$

Feb 25-1938 Friday

Reed and I and my 'V8' take
Carl Ryan all over hell to
get in to his 80- Snow too deep.

L. Sinkin about 10-30 AM

Back to Pequot 12-30 Carl buys
us all a lunch at Pequot & we
go by way of Sink Hole and
get within 80 rods of it

Back to Sinkin 3-30 and @ 4. PM

Reed - Emmie - Martha & I Lw
for Bid. Reed drives '85" mostly
23 minutes to 'y'. Mr Rhodes says
Reeds application for WPA work
O.K. & all happy. - Home to
Sinkins

Feb 26-1938 Sat-

Martha & I to Walker for dinner
Lewie Liske gives me Mr Bloom
Ch⁶³ 50 and I pay Lewie \$12 30
all square. we leave \$4.77
with McKewen to pay taxes on Remer
Lot 3 Bk 2-
John W. Orr

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② CARYAN

Feb 27-1938 Sunday

PM. Reed and Eunice still
sleeping Carl Ryan and
his Chew takes me to Reed
Lv car and

walk 80 rods thro soft snow l.

$W\frac{1}{2}NW\frac{1}{4} 5-135-28$

NW NE (or Lot 2) = 44.63 A

SW NE 40.00 "

= 84.63 A. US. We measure Bldgs

House 16 X 24 Frame Composition

(Tar paper) roof 2 Rooms 12 X 16

No chimney 4 windows + small one

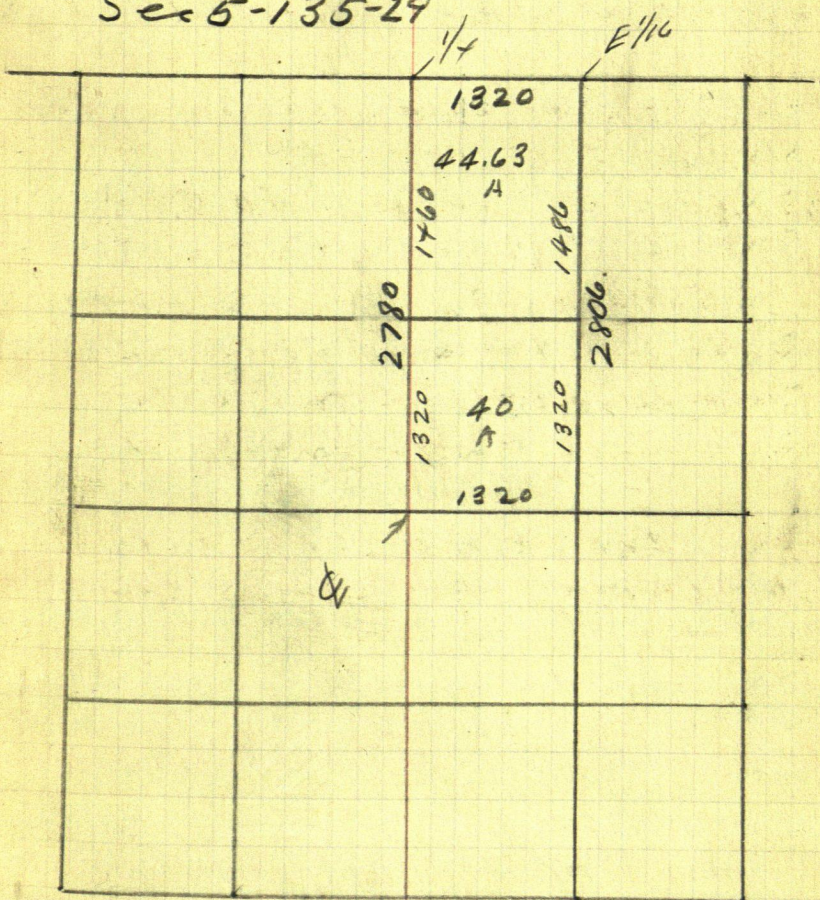
Barn: 22 X 22 with 12 X 22 Lean-to
Shingle roof. 1-15 Lv 3.15 Book

Make plat for Carl in evening

John W Curo

For Mr Ryan N. Copy

Sec 5-135-29



4000
4463
8463 A

Approximate
measurements
figured by Curo
Nov 12-1938

O.K. John W. Curo

5375.30 Fgd			
1321.52 Fgd	1321.52 Fgd	1321.52 Fgd	1321.17
2643.04 Fgd		2732.25 Fgd	
1318.04			
1322.81	1322.81 Fgd		1321.17
		5433.65 c4d	
2645.62		1323.65	1464.37 Fgd
1318.04		2788.02	
		1320.86	1321.17
		5461.53 Fgd	
	2646.91	5.23	1491.20 Fgd
		1324.71	
	2646.91	2815.91	
		1320.86	1321.17
1324.10	1324.10	1325.78	1518.02
		10.47	
	2648.20		2843.80

Ed. Turnberg
147 Sec 13 - 136-29
Monday Dec. 18, 1960

Ed Turnberg has been to see me at the office and called me on the telephone I decide to go do his work

I Lv Walker about 9 drive to Pequot Lakes then out to Ed's where I find Ed waiting for me with his man Walt

I follow Ed's car to milk farm where Ed stops and picks up Olaf Olson then drives on to $\frac{1}{4}$ Cor between Sec 12-13-136-29 To get a base line to run from I go $\frac{1}{4}$ mile W and from the NW Cor of fox farm fence I chain N 33 ft and set flag go back E to top of hill and work T on line betw flag and I.M. $\frac{1}{4}$ Cor set by Louis Knutsen in 1928. when He survey the fox farm I run according to his Plot. Over I.M. $\frac{1}{4}$ site N 89° 54' W and run S 2° 08' E cut line until dark Ed. takes us all to Pequot Lakes for dinner overnight at Pequot Lakes

Ed. Tumberg
149 Sec 13-136-29
Tue Dec. 19-1950

Breakfast at Greer's

Ed come at 9 I Lv a few minutes
later drive to $\frac{1}{4}$ N side sec 13
set in car file my brush hook,
Ed and Walt go on

Olaf Olson comes in his car,
we beg at IM and chain S, find
Olaf chaining from end of chain
which has 2 ft sholder. We cut
N+S & Sec 13. South until noon
Ed. takes us to Pequot for dinner
P.M.

Olaf and I beg. at IM $\frac{1}{4}$ N side Sec 13
chain S. @ 32 cross fox fence
@ 300 min @ about 332 cross fox fence
@ 490.4 hub on top of ridge between
two fox fences. + 300 = 790.4. stake
Ed comes back crew can not stay on
line in the hills so we Lv chain and
go cut line until dark, walk back
to car's go to Pequot Lakes supper and
over night at Pequot.

Ed Turnberg

Sec. 13-136-29

150

Wed. Dec. 20th 1930

Ed. & Walt cut line O'laft I continue
chaining South from hub 790.4.5

@ 1090.4 pin - 25.9 = 1064.5 hub - 60^{ft} spike

@ 1390.4 pin - 47.5 = 1342.9 old Wood
stake set for $\frac{1}{16}$ cor sets E 1 ft. +

@ 1690.4 pin + 2.9 = 1693.3 hub - 60^{ft} spike

@ 1996.4 S. pin + 284.0 = 2274.4 hub 60^{ft} spike

@ 2290.4 pin @ 2590.4 pin + 33.9 = 2624.3 hub

@ 2890.4 pin + 71.0 = 2961.4 hub 60^{ft} spike

@ 3261.4 pin + 219.85 = 3481.25 hub

@ 3561.4 pin @ 3861.4 pin @ 4001.7 hub

Temp Center of S $\frac{1}{2}$ Sec 13-136-29

according to Louis Knutson's Plat
of Sec. 13. as he run it in 1928.

Over Temp $\frac{1}{16}$ Cor. center S $\frac{1}{2}$
of sec 13. 136-29 K.S. N 2° 08' W and
run N 88° 26' E on temp S $\frac{1}{16}$ line

(NOTE) This work is all run according
to said Knutson's plat

N 88° 26' E @ 156.8 hub @ 300 pin

@ 592.25 hub @ 600 pin @ 900 pin

@ 944.8 hub @ 1200 pin @ 1331.5 pin

Temp $\frac{1}{16}$ Center SE $\frac{1}{4}$ Sec. 13-136-29

Quit goto Pequot where Ed Turnberg
gives me check for \$80.00 in full - out to see
Norman Robinson then to Walker Lake