

208.

FIELD BOOK

361

N^o 8

Note:-

If this book is lost
finder please notify
John W. Curo Walker Minn
and receive a liberal reward

It is very important that
Curo be notified immediately

John W. Curo

Brainerd Minn April 4-1918

Maple Grove Twp
T 44. R 29. 4^{PM} Crownwing Co Minn. ①
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Addresses Pg

Time & Board Sheet 3-5:

$\frac{1}{4}$ 30-31-P2-4-

Town Line S. 5-6-31-32 P6-11-

" " W. $\frac{1}{4}$ Sec 31 P8-23

" " S $\frac{1}{4}$ " 31 P11-15-26-

Twp Cor P11-15-24-25-

17-18-19-20 P12-17-19-21-31-

$\frac{1}{4}$ -18-19-P17-19-

8-9-16-17-P18-

Town Line W. 18-19-13-24 P20-47-48-

$\frac{1}{4}$ -17-18-P22-27-32-33-34-35-36-37-

M.C. 17-18 Pg 27-28-

M.C. 8-17-Pg 29-

T.L. ^W 25-30-31-36-30-31-

$\frac{1}{4}$ -8-17 P31-37-44-52-

N $\frac{1}{16}$ -17-18-P33-34-35-36-

S $\frac{1}{16}$ -17-18 P33-34-35-36-

Town L. W. 7-12-13-18-P41-42-51-

M.C. T.L. W. 13-18-P49-50-

N $\frac{1}{16}$ line Sec 18-Pg 50-

Maps - 28-31-32-44-46-51-53-54-58-60

65-66-70-78-79-80-83-86-87-91-

92-94-100-102-107-112

Crow Wing Co Minnesota
 Maple Grove Township
 T 44 N R. 29 W 4th P.M.

April 3rd 1918

Wednesday: We are working for
 Maple Grove Twp T 44 - R 29. Crow
 Wing Co Minn in survey of two wagon
 roads.

Lv Bert Sabin's farm 21. miles
 North of Brainerd See Field Book No 6

Lv Brainerd about noon after
 calling up Nels J Nesheim Ch.

Met Nesheim & his son Fremont
 Nesheim and Ray Stalk and drove
 6 miles South to

1/4 Cor bet 30-31 T 44 R 29.

Where US water call for.

Sugar 10 N 15° W 35 LKS =

Elm 10 S 54 W 24 " =

We do not look for these as we do
 not have the above US water and get
 them and fill them in later

Nels J Nesheim shows me a stone
 with a cross "+" marked in the tip in the
 center of the N & S graded wagon
 John W. Cullen

[illegible]

173 T44-R29
4 April 3rd Cont'd Maple Grove Twp

road where another poorly graded road
runs West and a fence runs East

Mr Nesheim says he has watched
this stone $\frac{1}{4}$ corner for years and
that it was set by Whitely approved by
Co. Surmyn Garrison & others

I accept it and mark new BTS by

Look N. on graded road $\angle 9^{\circ} 15'$

Elm 24" N $64^{\circ} 30'$ W 90.80 FT

Elm 10" S $38^{\circ} 30'$ W 74.00 "

Elm 26" S $70^{\circ} 43'$ E 117.08 "

Elm 20" N $66^{\circ} 15'$ E 89.30 "

To flat spot at base of trees

SW. Cor Post of Fence East 33.90 ft

to nearest side of Post $\angle 9^{\circ} 15'$ E

True $\frac{1}{4}$ Bet 30-31-T44, R 29 in

South then cor. See 31

along graded road @ 8° about

Ht 204.20 Hub 1320 Hub

2640 S Hub 5280 stake in N edge

of E & W graded road 5303.10 S

Hub 50 of E & W road

Harold Curo-Hurley Transit

300 steel tape set stakes every

300 feet not lined in with transit

with Clark & F. Nesheim works in

John W. Curo

Board Sheet Working For Maple Grove Trip

SUN

3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

Boarding With H.M. McCall - McCall's Resort

John W Cure

Harold J. Cure

Nels J. Nesheim

SL	DB	SL	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB
DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL
DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL
DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL	DB	SL

= 13

= 17 1/2

= 1/4

Continued

April 1918

May 1918

SUN	21	22	23	24	25	26	27	28	29	30
DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB
SL	SL	SL	SL	SL	SL	SL	SL	SL	SL	SL
DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB
SL	SL	SL	SL	SL	SL	SL	SL	SL	SL	SL

John W Cure

Harold J. Cure

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148 T44 R29
6 April 3rd 1918 Cont'd Maple Grove Trip
Road Survey

crew while John W Cress and N J H
work in another crew with Ford Car
and shovel diggin up corner posts

We drive to the home of Herman
Fleischer who accompanies us to
the SE cor of sec 31- T44. R29
where he says there is a buried stake
in the cor of the E & W-graded road
where another good graded road
runs South and a fence runs N.

This is the cor to Sec 31-32-5th & 6
Bet T 43rd & 44 N. R 29 W

Fleischer says this post was set by
Law Garrison former Co Surveyor of Crow
Wing Co. Fleischer says Garrison also
set a 1/4 stake on the South side of 31

Bet 31st & 6- Bet T 43rd & 44 R 29

and show us the place where to dig

He also shows us an old NW oak

B.T. at the SW cor of 31 T44 R29

but says there is no stake

Harold Cress and crew set monument

on Hub 2640 S. @ Temp. Cor of Sec

31- T44 R29 and turner 90° to

N & S random & starts two lines E & W

Harold & I play with M^{rs} Cull - Rest walk home
John W Cress

T44-R29

1918

Maple Grove Twp. Roads
Crow Wing Co. Minn

7

April 9-1918 Thursday

N.J. Nesheim & I with my Ford Car drive
to Brainerd where we stay all day searching
records for previous surveys

I pay for our dinner at Restaurant 75¢

I try to call up Geo McCulla
of Oak Lawn Twp T 45 R 30 who
was looking for me Tuesday to make
a survey

Meet Mrs E.T. Fleener

514 Juniper St Brainerd Minn

Tel 914 J.

She wants $\frac{1}{2}$ mile of line run west
along the North boundary of her
land which is SE of SW $\frac{1}{4}$ and
Goat Lot 5 of Sec 18. T 44 R 29

The line is to be E and W thru Cen of
SW $\frac{1}{4}$ of sec 18 She says Lewie
Knutson subdivided Sec 18 and
set an Iron Mon in Cen of Sec.

I Lv my car @ Woodhearts
Garage and pay 25¢ storage

State Engr

arranges with me to start work for
the State Highway Commission
John W. Cress

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8 April 4th 1918 cont'd T 44 R 29 Crow Wing Co.
Maple Grove Twp

@ 85. a day and expenses when
away from home. I tell him I expect
to live in Beaumont

Nesheim and I Lv Bed @ 4-20 PM
and drive to Norton's Town Clerk
and he promises to try to help us tomorrow
We drive back to McCalls where I stay

Harold J. Curo and his crew with
F. Nesheim and Ray Stick Beg @ limps
cen of sec 31 - being Hub 2640 S.

Turn 90° to N & S random and run

West on cen line of sec
31 - T 44 R 29. random line

@ 875 W end of open meadow

1046.60 W Hub 1305. ft W. Lv meadow
NE & S. Stakes 300-600-900-1200 W
Not lined with transit

1320 W Hub Temp $\frac{1}{16}$ in cen of W $\frac{1}{2}$
@ 1933 W Hub @ 2640 W Hub Temp $\frac{1}{4}$
on W. side of sec 31 - T 44 R 29

They then walk $\frac{1}{2}$ mile E & set
and set over limps cen of sec 31 & run

East on random cen line of
Sec 31, T 44 R 29, back righting
on cut out line West. and cut line
John W Curo

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T 44 R 29 Crow Wing Co

April 4th 1918Maple Grove Twp Roads Minn 9

continued

East 445 ft to top of raise and quit
for night Harold and Ray catch a ride
home in some one's auto Young Nesheim
drives his dad's horse home and picks
up Ray & dad at McCally They get home
@ 5-20. Nesheim & I get in later

Norton comes over after supper and says
he can't work.

John W. Cress

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T 44 R 29 Crow Wing Co
Maple Grove Twp
Road Survey

April 5-1918

Friday.

Nesheim^{2nd} Son and Stark
with one horse buggy belonging to Nesheim
from McCall's about 7:40 AMThey should have called for Harold
30 minutes later I take Harold and
his mount + c. in my Ford and
take him 3 1/4 miles South to the
Cen of Sec 31 - T 44 R 29I wanted to wait for Joe Hillman
who telephoned he was coming in his
Ford to meet me at McCall's but
Harold could not waitI telephone McCall from Olson's
to send along when he comes Then
Nels and I in my car go to SE Cen Sec 31
T 44 R 29. where we fortunately meet
Mr M.D. Gorton Chairman of the Town
Board of Platte Lake Township T 43 R 29
whose Address is Brainerd Minn
Route #1. Tel Rural 9⁴⁴⁶Mr Gorton wants 3 miles of road
surveyed. He help Nesheim^{2nd} and I dig
up the old stake with a big stone on
the East side and we drive a new Hub
for the line. SE Cen Sec 31 - T 44 R 29

John W. Curo

April 5-1918 contd

T 44 R 29

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this is the Cor to Sec 31-32-5 and 6

Bet Twp T 43 and 44 R 29 where

US notes call for

Blk Oak 9" N 34° W 15 LKS =

Aspen 12" N 61° E 57 " = 37.62 Ft

" 10 S 67° E 43 " = 28.38 "

" 10 S 50° W 3 " =

We do not look for these as they are likely gone and with my car run a mile West and North to the Cen of sec 31-T 44 R 29 where I leave my car for Herald to come home in to-night

Then with Joe Hillman and his car which has just arrived Nesheim and I go back half a mile South and dig for the 1/4 Cor post on S. side of sec 31-T 44 R 29

Being the N 1/4 Cor of sec 6-T 43 R 29 where US notes call for

Blk Oak 18 N 61° E 14 LKS =

Wh Oak 10 S 2 W 22 " =

We dig for post find none and run 1/2 mile. Went to the SW Cor Sec 31 = Twp Corner

T 43 and 44 - R 29 - X 30 where US notes call for

Bar Oak 12 N 14° W 21 LKS = 13.86 Ft

Bar Oak 14 N 62 E 47 " = 31.02 "

John W. Curro

148 T44 R29 Crow wing Co
12 April 15-1918 could Maple Grove ^{then} Twp
Bar Oak 12° S 75° E 50 LKs = 33.00 Ft
Bar Oak 14 S 48° W 26 " = 17.16'

We do not find them and run in Joe
Hillman's Car to McCall's Resort where
Nesheim & I eat dinner with McCall Hillman eats
his own lunch P.M.

We use Hillman's new Ford and run
to the Co Secs 17-18-19-20 T44 R29
where MS males call for

Blk Oak 10 N 52° W 6 LKs = 3.96 Feet
Birch 8 N 64° E 39 " = 25.74 "
Aspen 10 S 62° E 49 " = 32.34 "
" 10 S 15° W 73 " = 48.18 "

We only find what may be stumps of
SW BT. As Norton is not at home and
Mrs Norton does not know where the car is
we drive a bit and run a least a line half
a mile North on 9° or 10° chain

Hillman takes me home and goes on home
with Nesheim. Heraldo J. Curo is in
another crew with young Nesheim & Ray
Stark. Continue East from 0.0. line
Car of Sec 31-T44 R29

East on car line

@ 385° E Hat 1320 E Hat Exit from
meadow - some small willow brush
John W. Curo

T 44 R 29 Crow Wing Co. Minn. 13
April 5-1918 Cont'd Maple Grove Twp. road

@ 1545.60 E Hub @ 2000 E LV mile low

@ 2505 road N + S. @ 2536 fence

@ 2640 E Hub Temp $\frac{1}{4}$ in

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But Secs 31 & 32 T 44 R 29

when US notes call for:

Wh Oak 10" S 76° E 15 L + S = 9.90 FT

" " 12 S 88 W 12 " = 7.92 "

We do not look much but set transit
over hub 2640 E turn telescope on fly
@ S. Cor of sec 31 & 32 from which we
chain North

North But 31 & 32 T 44 R 29

@ 30. ft N fence E & W 756 N new ditch 3x3'
no water. @ 1750 N fence E & W @ 2613. Hub
under transit @ 2640 N stake & quit
for night. All stakes running East $\frac{1}{2}$
mile from road set on line with transit
300' steel tape. Harold comes home
in car Ford and brings stake & tools
@

John W. Cunn

April 6-1918

Saturday: As it is raining

I call Veshimer up and say we cannot work
 until snow later I decide to go to Brainerd
 and look up records of survey here

Snowing heavy when I reach Brainerd
 I start for home stop to see Hamilton
 Call on King who is not home Stay for
 dinner with Hlandanell - Stop a while at
 Jenkins to see Ito - Ito may not go back
 to Pine River to school

Get home to the farm at Pine River
 about 4 P.M. Cold - 2" snow

Gerald & I sow out another log
 but the garage door is still too low
 and I break one of my top bows
 trying to run in Forget to pull the
 water and radiator partly freezes up

Sunday April 7, 1918

I walk to Pine River and have Querson
 big Codalac haul in my Ford.

Gerald is still staying at Mc
 Call's Resort 10 miles S. of Brainerd

John W. Carr

April 8th 1918

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Monday. I and Alma and baby walk to Pine River. Alma and Reed ride in part way with Hest. (Son-in-law of old Sutton) find my car fixed - get some flour for Alma - to her at Lee House and drive to Jenkins for dinner.

Then on to Brainerd look over Co record book of surveys & at 4 o'clock Brainerd is having his trial at Brainerd. I drive to M^o Falls Resort for supper & over night.

Harold J. Curo T & ch. Ray Stark & ch. F. Nerheim & ch. Stark's mule team

Reg @ SE Cor of Sec 31 - T 44 R 29 and Chain West along graded road one mile

At 2640. W. set hub This corner almost in line with our line coming from the north

At 5280 W. set hub Not set with transit and only chained for future use.

Then walk 1 1/2 miles N.E. and eat lunch near 1/4 Cor bet 31 and 32

John W. Curo

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April 8-1918 cont'd

T 44. R 29.

Crossing to Minn

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begin @ Hub 2613. N. and continue

North bet Secs 31 and 32, T 44

R 29: @ 2640 stake @ 2670 N, fence

E & W. @ 2694. road E & W @ 3026.

fence E & W @ 3106. 70 N. Hub. @ 3366

N. fence E & W @ 3540. road SE and NW

@ 3740 enter meadow NE & SW

@ 3840 enter bunch of thick willows

@ 4475 N Ls willow enter some

meadow @ 5280 N. Hub. Slashes set

every 300 ft N. but not lined with

transit Quit for night still

with McCall. bring outfit in

Harold Cuss and Crew left late

about 9³⁰ am but work late till

7. PM. Slack did not get home till

8. PM.

McCall goes out after dark and catches

5 fishermen - McCall is game warden

Nato: At noon I mailed field

notes and one field book to Gay H Todd

Pk Rapids - and when I came this

Pegout I left mother's deed with Cloud

John W Cuss

T 44 R 29. Crow Wing Co Minn 17
Maple Grove Twp - Woods

April 9-1918.

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Tuesday: Harold - with Stark and Young
Nesheim work in one crew -

I work in another with Nesheim and
Norton

Fremont Nesheim and Ray Stark walk to
McCalls - I take them and Harold in my
car to $\frac{1}{4}$ Cn bet 18 and 19 T 44 R 29 where
I meet Norton and his Overland Car

I & Harold run my car to S E Cn of 18
17-18-19-29- T 44 R 29 where we find
Norton has dug up an old - old stake buried
a foot under the graded road and in line
with an old fence running North and
another East

Harold & I set a back shot at the line
see Cn then Harold sets his transit
half a mile West on a buried stone (x)
at the $\frac{1}{4}$ Cn bet 18 and 19- T 44 R 29

Back sights E and runs West

Norton and I then go to McCalls
where I leave my Ford and go to
Bramm in Norton's Overland we
drive to Court House where I finish
copying old field notes of surveys in
T 44 R 29 near our work.

John W. Curo

April 9-1918 Cont'd

we then go to H.P. shops and arrange to buy scrap boilerflew for iron sec corner and drive home to M^cCall's where I eat my dinner while Norton goes home gets his dinner & back

We pass Neashwin and one horse when he is almost to M^cCall's

Neashwin leaves his horse for the boys to come home with and he and I go with Norton in his overland to the E. of sec

8-9-16-17- T 44 R 29

where US naves call for

MP	10	S 70° E 46	LKS =	30.36	Feet
WP	14	S 27° W 33	" =	21.78	"
Aspen	12	N 32° W 53	" =	34.98	"
WP	15	N 26° E 175	" =	115.50	"

The aspen is gone but we find the other three trees plainly marked

They do not check for course but chain out good for distance

and I set a 2x10" oak hub by flat chain from face of old B.T. figure

and find the distance bet the NE and SW trees to be 1.25 ft too short

by proportion each distance bet the two trees would be .0091055

John W. Curo

April 9-1918 Cont'd

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of a foot short in each foot.

after which old B.T.S. stand as follows
@ 9°40' Var

Old WP B.T. S 31°20' W 21.78 - 0.20 = 21.58 ft my ch

Old WP B.T. N 27°10' E 15.50 - 1.05 = 14.45 " " "

Old NP B.T. S 53° E 30.36 - 00 = 30.36 " " "

New B.T. NP 6 N 48°15' W 53.35 " " "

The old S.E. B.T. still stand green and
plainly marked and has been struck by
lightning.The old SW B.T. is a slab 12' high
and is plainly markedThe old NE B.T. is a 30" WP stump
with only the bottom blaze showingWe start a picket line 800 feet West
@ 9°40' Var then come homeNorton lets Verheim out near his place
and drops me off at Mr. Call's

Howard and his crew Beg @

Can to 1st Secs 17-18-19-20 T44 R29 run

West along graded road

West But Secs 18 and 19. T44 R29

@ 2623.70 W. stone 1/4 - but 18 and 19

where US notes call for

Bitch SS 47° E 13 LK5 } There have been graded
" 8 N 71 W 30 " } out in road

John W. Carr

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T44 R29

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April 9-1918 cont'd

to West end of $1\frac{1}{2}$ mile of E & W graded
road Cross another graded road
running N & S and South

Enter short thick brush:

@ 2830 W a dim road bears NE and SW

@ 2987. W Hub @ 4074.70 W Hub

@ 4600 old road - well traveled bears
N & S. @ 4687.70 W Hub

@ 5295. Hub where an old oak } see
4x4 post bears South 4. feet { pg 46

This post is evidently set for the
Cn to Secs 18-19-13rd & 24, on
the Range Line Bet Twp's

44 N. Rgs 29th & 30 W

where U.S. notes call for.

Birch 7 N 52° W 14 LKS = 9.24 Ft -
WP 18 S 38° W 75 " = 49.50 "
" 20 S 15° E 42 " = 27.72 "
" 24 N 74° E 44 " = 29.04 "

We find all three of the old
Pine BTS. but only one seems
to check out with the old post

Setting transit over the old
post old BTS stand as follows
N 81° 30' E 29.04 feet

S 11° 30' E 30.30 "

John W. Carr

T 44 R 29
April 9-1918 Cont'd

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S 41°30'W 45.50 ft @ 11° 0' E

Harold and crew then walk a mile East and Chain North over the line previously run by me

Begin @ Hut 0.0. being 13.40 ft East of the cor to sec 17-18-19-20

T 44 R 29 chain

North bet 17th & 18

@ 124 N chicken fence E & W

@ 155 N L.V. same "

@ 350. N wire fence "

@ 360.85 Hut 1104.70 N Hut

@ 1486.80 Hut 1840.60 "

@ 2200 about iron fence NE & SW

@ 2233 creek runs West

@ 2504.10 Hut in cen of old E & W road

@ 2632. old road E & SW

@ 2640 N stake @ 2700 stake in field

Quiet for night - the boys dine
Nesheim's one horse home from M^{rs} Call's.
Still with M^{rs} Call.

John W. Cans

T 44 R 29, Maple Grove Twp
Crow Wing Co. Minn.

April 10-1918 **148**

Wednesday:-

Nels S. Nesheim and son and Ray Stuck
come to McCall's. Nesheim says he left
his house at "Fred's" (Fred Tempela?)
Harold goes with them and I wait
at McCall's for Norton

Harold & crew beg @ Hub 2504.10
N and charming from stake 2700 continue

North bet 17th and 18. T 44 R 29

@ 2640 N cut plowed field cut a road
off the West end of field and @ 3000 N

to same @ 3006 N fence E & W

@ 3132.20 Hub 4038.50 N. Hub

4793.80 N Hub 5200 Hub 30. ft

so of water's edge of

Long lake at which point US notes say

"at 7950 enter lake and set M.C."

yellow Pine 12" S 29° W 9 LKS = 5.94 ft

Y Pine 10 N 81 E 41 " = 27.06 "

They do not stop to look for these lines
but walk back to the 1/4 cor

1/4 cor bet 17th and 18 T 44 R 29

where US notes call for

Y P L N 6° W 146 LKS = 96.36 ft

do not look for this now but all set lines
John W. Cunn

April 10-1918 Contd.

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all stakes set every 300 ft bet 17th and 18th

T44 R29, and from 3300 North to

Long Lake all stakes set on line with
the transit. (except 4800)

I wait at McCall's till Norton comes
and as he is out of Gas he wants me
to use my Ford.

We drive to cen of sec 31-T44 R29
then walk half a mile West to.

1/4 cor bet 31st and 36 on Rg Line
bet T44 Rg 29th and 30 where US note says
Aspen 14 S 70° E 19 Lks =

" 14 N 35° W 35" =

All are gone and we walk back to the
car. I let Norton off at his road then
drive to McCall's get Harold's
lunch pail and drive a mile East
as just in time to meet them coming
to dinner. They eat at 1/4 cor bet

17th and 18th. Old man Nashier comes
back to McCall's with me and waits
for me to eat. Norton arrives and
we then drive 6 miles SW to SE cor
Sec 2. T43 Rg 30 to get evidence on
to the SW Cor of T44 R29.

John W. Curo

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T44 R29

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April 10-1918 could Maple Grove Twp
 and Wang C. Min
 says R.R.

Whitely set this corner and he knows
 nothing about it he has lived here
 30 years

We drive back to On of Twp 3
 43rd and 44 N. Rgs 29-30 W
 where MS notes call for

Bar Oak 12 N 14° W 21 LKS = 13.86 Feet

" " 14 N 62° E 47 " = 31.02

" " 12 S 75° E 50 " = 33.00

" " 14 S 48° W 26 " = 17.16

We find the stump of the NE
 line but it is not marked and the
 roots of the NW line (I believe)

I have them dig up the road for
 3 feet in a circle in road can but find
 no stone or stake

This stump does not check for
 course quite so I assume the E
 + W road can on the point where

Whitely set his stake where I drive
 an old fence post point in the road
 can for the line Twp on took in top
 after which I turn telescope a mile
 East along graded road 58°

Stump of old NE Bar oak bears

John W. Cunn

April 10-1918

Cont'd

Maple Grove Trk.

N 52°55'E 31.02 ft to flat spot at base
using flag in c. of stump for corner
and the road on E & W base line
On reads 8' E

Bearing lines marked presumably
by Whiteley viz

Bk Oak 8" N 77°15'E 78.30 Feet

Bur Oak 10" S 1°08'E 96.55 "

Rid Oak 16" N 50°10'W 65.40 "

Cor of new fence (2 yrs old) bears
N 6°20'W 34.20 feet

Our cor is in line with a row of
very old fence post which run South
and which Mr

said we would find and that these
posts were set right after

Whiteley set the stakes

The bearing line which I give on this
page as being S 1°08'E is blazed also
N + S and I believe is one of the
old line trees or it would strike
straight South @ 9°08' or so

This cor is as here set it is
7.50 ft E out of Harold's knob

"5280 W" and would be 5272.50 W

I will try to get Mr Whiteley by phone
John W. C. W.

26 April 10-1918 ^{could} T 44 R 29 Crow Wm Co
Maple Grove Trwp

and if he has lost his old field notes
my cor will stand as established

I have searched all County records
at Brainerd and there is no record
of this corner. **148**

We then drive $\frac{1}{4}$ cor on the side
of 31 T 44 R 29 where US notes say
Bk Oak 18 N 61° E 14 Lks
Wh Oak 10 S 2° W 22 "

These are gone and we go North and
walk half a mile East to $\frac{1}{4}$ Cor bet
31 and 32 T 44 R 29 where US notes say

Wh Oak 10" S 76° E 15 Lks = 9.90 F1

Wh Oak 12 S 88° W 12 " = 7.92 "

these are gone and we go home

Nesheim goes to "Fields" for his horse

Herald was home when I got home

He and his crew in

P.M.

walked to cor of sec 8-9-16-17

T 44 R 29 set by me and men

West bet 8th 17 & 9° 40' E

@ 26. ft W gate @ 900 W Hub

1320 W fence N + E 1790.50 W Hub

1800 stake Stakes set every 300 ft

on line Hides hunt in the woods

John A. Carr

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T44 R29 Crow Wing Co
Maple Grove Twp Roads
Minn

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April 11-1918

Thursday: Nesheim and son
walk to McCall's Resort; I take them
and Harold Cuss in my Ford to the
1/4 Cor bet 17th and 18 where Harold and
young Nesheim walk a mile NE where
Stark is waiting for them and they
continue the line

West bet sec 8th and 17 T44 R29
Nels Nesheim and I look for the
1/4 Cor bet 17th and 18 where US miles tag;

Y. Pine — $N 6^{\circ} W 146$ LKS = 96.36 Feet

We do not find it and run our car
to M — Kralson's house on So
side of Upper Long Lake and walk
to the US M.C. bet 17th and 18 T44 R29
where US miles call for:

YP12" S29°W 9 LKS = 5.94 FT

YP10 N81°E 41" = 27.06 "

We find the tall stump of the SW
Pine very plainly marked from which
I set a 2x2 stake for the true M.C.

@ 8:30' about turned from about the
N & S line line sighting So along old
fence. The NE line is gone.

We mark new BTS as follows
John W Cuss

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T44 R29

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April 11-1918 Coud Maple Grove Twp
 Bur Oak 55 $80^{\circ}15'E$ 31.95 Ft

" " 75 $49^{\circ}10'W$ 47.15 "

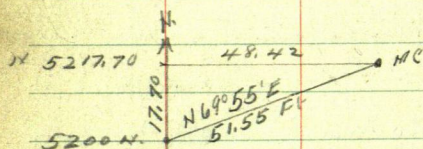
To nail heads in flat spot at base
 of trees $8^{\circ}30'$ for

Norton then joins us having walked
 from home via McCall's

Setting transit over Harold's
 Hut 5200. N This MC hit 17 and 18

T44 R29 bears to the Right or
 $N 69^{\circ}55'E$ 51.55 feet

or 17.70 ft N. and 48.42 ft East



$69^{\circ}55'$

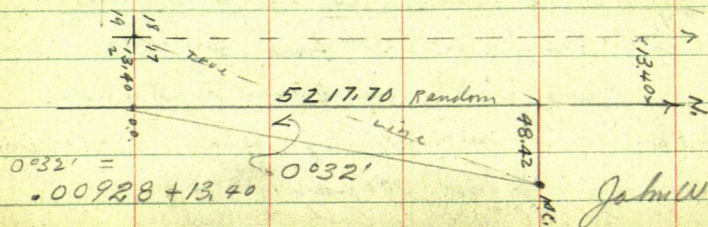
$$\sin 69^{\circ}55' = .93919 \times 51.55 = 48.42 \text{ Ft East}$$

$$\cos 69^{\circ}55' = .34339 \times 51.55 = 17.70 \text{ Ft North}$$

$$5200 + 17.70 = 5217.70 \text{ North}$$

At 5217.70 North MC. sets

East 48.42 Feet



John W. Carr

April 11-1918 T44 R29 143
Cov'd Maple Grove Twp

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We then walk a few rods East along
the lake shore and look M.C. on East side
of Upper Long Lake Bet Secs.

8th 17 T44 R29 US notes say:
"At 7800 West intersect lake and
set M.C. from which
4 P 10 S 62° E 20' LKS = 13.20 FH
" 8 N 80 E 24 " " 15.84 "

We find the stump of bathold
B.T.S. which check out to a frayed
for course and dist @ 8°30' for

The NE stump is buried but the SE
stump is very plainly marked "BT"

I set a 2" x 24" birch stake for
the line M.C. bet

Secs 8th 17 T44 R29
with new BTS Vig

Paplar 4° S 60° 45' E 22.60 Feet
NP 3 S 35° W 19.10 "

To head of nails driven in flat spot
at base of trees @ 8°30' for

The M.C. bet 17th & 18 bear
S 75° 30' W 135.30 feet at 8°30' for

From M.C. bet 8th & 17 I run a
ficket line about 100 ft so @ 9°40' for
so as to help out Harold who
John W. Cuss

30 April 11-1918 T 44 R 29 148
ent-d Maple Grove Twp

is coming from the East on this
same variation (about)

Nesheim - and I drive back in my
car to McCalls where I get my dinner
and Nesheim eats his lunch

Nelson goes home at noon and
will not be able to help us this PM.

P.M.

I and my Ford and Nesheim drive to
NW Cor Sec 31 - being Cor to sec

25-30-31st 36, Bet

T 44 Rgs 29nd 30 where
US notes call for

Bur Oak 7 N 70° W 7 LXS = 4.62 FT

" " 12 S 70 W 34 " = 22.44 "

" " 10 S 45° E 43 " = 28.38 "

" " 12 N 50° E 58 " = 38.28 "

We find the Stumps of the SE and
NE lines which check out almost
perfect for course and dist around
the wood Cor East as a base line

The NE stump is burned but it
is the only stump near and the
SE stump is really not very plainly
marked only I KNOW there are the
old B.T. Stumps from which I
John W. Cunn

T44 R29

Apr 11-1918

Crew Wm & Co

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set a 2×24 " brick stake for the line corner which falls in the North ditch of the road and is about 6 feet North of cen of E & W graded road

At $8^{\circ}30'$ old stumps stand
 $N 50^{\circ} E$
 $S 47^{\circ} E$

I mark New BTS Uiz
 Poplar $7 N 31^{\circ}38' E$ 16.50 FT
 " $6 N 49^{\circ}29' W$ 75.05 "
 " $7 S 13^{\circ}23' W$ 47.10 "
 " $6 S 50^{\circ}31' E$ 43.10 "

to nail in flat spot at base @
 $8^{\circ}30'$ var lined from E & W graded road. Corner post of old fence bears North 20 feet to nearest side

We then drive NE to cen of
 Sec 17-18-19-20 T44 R29

and take angle of the two random lines NW angle reads $87^{\circ}44'$

Horizontal screw continues W to Random V
 West bet 8th & 17. c 1808 road NE-SW
 13.4

2640 W Hat. Stake set in line to 3300 W

I take Hosheim home in Ford. McCall went to St Paul today

John W. Cass

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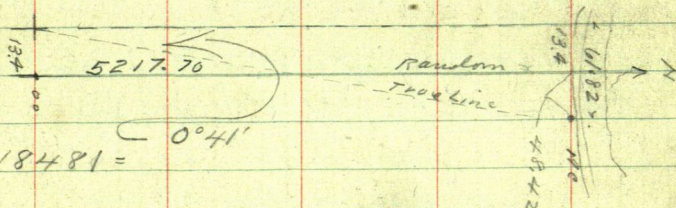
T44 R29 Maple Grove Twp
Crow Wing Co Minn

April 12-1918

Friday. Heskett and son walk to

M^{rs} Cull's "to their house & Feds"to for their work while Heskett waits,
for me to figure corrections

-Correcting-



$$.0118481 =$$

Note: The correction for the
random line bet Secs

17th and 18 T44 R29 is

.011848 of a foot East for each foot
North then 13.40 feet West to
the true line

And as to the length of the
line 5247.00 Feet M.S. chain

= 5217.70 " My "

= 29.30 " Short

5247.0 into 29.3 = .005584 of a foot
Short in each foot

John W. Curo

April 12-1918
continued

T44 R29
Maple Grove Twp

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Correcting

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Bot 17th 18 T44. R29. - Continued -

1320 N. goes 7.37 South To 1312.63 N = $S\frac{1}{16}$ Ch

2640 N " 14.74 South To 2625.26 N = $\frac{1}{4}$ Ch

3960 N " 22.11 South To 3937.89 N = $N\frac{1}{16}$ Ch

5247 N " 29.30 South To 5217.70 N = N.R.

Correcting See Pg 21-22

Hub 360.85 N. goes 4.28 E then 13.40 W = 9.12 ft West

1104.70 N goes 13.09 E. then 13° W = 0.31 " West

1312.63 N. goes E 15.56 - 13.40 =

2.16 Feet East. To $S\frac{1}{16}$ Bot 17th 18

1486.80 N goes E 17.61 - 13.40 = 4.21 East

1840.60 N " E 21.80 - 13.40 W = 8.40 East

2504.10 N. " E 29.67 - 13.40 W = 16.27 ^{set this right} East ✓

2625.26 N. goes E 31.10 - 13.40 = W ✓

= 17.70 East to the $\frac{1}{4}$ Ch Bot 17th 18 T44 R29.

Now B.T.S. Set 2x3x30 oak post ✓

3132.20 N goes E 37.11 - 13.40 W = 23.71 East

3300 N. goes E 39.10 - 13.40 W = 25.70 "

3600 N. " E 42.66 - 13.40 W = 29.26 "

3900 N. " E 46.21 - 13.40 W = 32.81 "

3937.89 N goes E 46.66 - 13.40 W = ✓

33.26 East To $N\frac{1}{16}$ Bot 17th 18 T44 R29 ✓

Set hub for ch ✓

John W. Curo

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April 12-1918
could

T 44 R 29

Maple Grove Twp

Correcting Sec 17, 21-22

Bet 17th & 18 T 44 R 29 - continued -

✓ 4038.50	N	gave E 47.85 - 13.40 W = 34.45 East
4200	N "	E 49.77 - 13.40 W = 36.37 East
4500	N "	E 53.32 - 13.40 W = 39.92 "
✓ 4793.80	N "	E 56.80 - 13.40 W = 43.40 "
5100	N "	E 60.43 - 13.40 W = 47.03 "
5200	" "	E 61.62 - 13.40 W = 48.22 "
✓ 5217.70	N. M.C. sets	East 48.42 Feet

I figure corrections till about 10 am
then Northern and I take a 5 gal can of
Gas belonging to M^cCall and go in my
car to Upper Long lake and put in the N
1/4 bet 17 and 18 T 44 R 29

At 3900 N. I chain 37.89 N to 3937.89
N then East @ 90° to random 33.26 ft and
set hub for line

N 1/4 Bet 17th & 18

With transit on random hub 3937.89 N
I back sight South - Turn 92° 16' R
and run West parallel to the
random line on So side of Sec
18. The Hub 3937.89 is now 1.30
ft So of the 1/4 just set. I cause

John W. Cress

April 12-1918
Cont'd

T44 R29
Maple Grove Twp

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a hub to be set about 800 ft West
then transit theodolite and looking E
my line of sight cuts 1.30 ft So of the
N $\frac{1}{4}$ just set so I walk to hub
about 800 ft west and set it over
1.30 ft North so as to be in line with
the N $\frac{1}{4}$ and from this hub I will
back sight East on the N $\frac{1}{4}$ on
bet 17 and 18 and will transit theodolite
and run West on the N $\frac{1}{4}$ line of
Sec 18 parallel to the random line
along to today.

We check over Hubs 4793.80 and
4038.50 and set Hubs and tall stakes
as per ch shown on page 34. then
walk East to where the boys are
coming West and find that Roy Stark
did not come out today.

Nesheim and I then go to the $\frac{1}{4}$
on bet 17 and 18. T44 R29. and establish
the same zig

At stake 2640 N I chain 14.74 ft So to
2625.26 N where I put in a hub and set
transit then turn 90° and run East 17.70
ft and set 2x3x30" oak stake for the line
 $\frac{1}{4}$ on bet 17 and 18. T44 R29

John W. Cunn

T-44 R29
36 April 12-1918 Crow Wing Co Minn
Cont'd

Then with transit still on random
hub 26.25.26 N I start the Cen line
West thro Sec 18 as follows

Back sight S. on random. Turn
 $87^{\circ}44'E$ and set small stick about
500 ft East. Transit theodolite and set
point about 40 ft West. Transit theodolite
and look E. again. My line of sight
cuts .71 of a foot So of $\frac{1}{4}$ Cen.

At small stick 500 ft E. I chain
N .71 of a foot and put up a back shot
with pencil mark in cen

And at pt 40 ft West I chain North
.71 of a foot and set a hub + lock

where I will set the transit - back
sight 540 ft East on back shot
and from the $\frac{1}{4}$ Cen bet 17 & 18

T-44 R29 I will run

West on cen line of Sec
18 - parallel to the random on S.
side of Sec 18 which is almost
the true line

Nesheim and I start home -
run into forest fire and run back to
plowed field with Fred Harald and
His crew Begun @ Hub

John W. Curo

April 12-1918
Cald.

Maple Grove Twp

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and continued West bet 8 and 17

West bet 8 and 17 - T44 R29

@ 3388.70 Hat @ about 3970 feet NPS

@ 4258.20 Hat on E bank of small stream
runs North + 250 W strike

about 4300 W stream

4419.90 W. Hat on West Bank of
stream

Note: the stream is so small we
jump across it but the hills on
the banks on each side are very high
30 ft about.

Here Harold quits and starts home
meets me and as first is big decide
to take him back in the Ford to get
his transit & outfit

Nesheim & Son wait for us at 1/4 bet
17 and 18 where are home back-fired

Harold and I get back to the
transit and decide to run this to car

at 4829 cor main. 5134.10 W

Hat. 30.10 ft S of N.P.C. Lost my dinner
today. Fuel on auto 13.70 W and 10.60 N of
1/4 bet 17 and 18. Mr. Gordon goes to Bad with
burn wheel in Ford.

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T 44 P 29
Crow Wing Co
MinnApril 13th 1918

Saturday

This is the day that the US calls
all Town Boards in this district
to be present to arrange for sale of US bonds.

Nesheim and I go to Bemidji in
my Ford. and spend all A.M. picking
out and buying iron monuments at
NP shops.

We meet Mr Fred Ellison
who is in charge of the scrap iron sales
and pick out 40 pieces of Scrap
boiler flues 2" by 4 ft long - some
pieces are only 3 and some nearly 5
ft long
short pieces weigh about 6^{lb} and long
over 9^{lb} = 7 1/2^{lb} each.

40 per @ 7 1/2 = 300. pounds
then we pick out 4 per of 4" pipe
3 ft long averaging weight of this
is 15^{lb} each = 60. #

Total 360 lbs @ 1 1/2 = \$ 5.40

we will send a team for this later
P.M.

Scatman @ Restaurant and copy field notes
7 necessary US corners at et Ho of T 44 P 29
John W Carr

April 13-1918
continued

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then pick up Miss Haggin - and Lela
Fordyce and a Johnson girl - drive to Jenkins
get 6 gals gas then home to farm at Pine River
at home before rain down - kids kids to town
& back after supper.

Herald J Cuss and his crew run
the North $\frac{1}{16}$ line of sec 18 - T 44 - R 29

From the North $\frac{1}{16}$ Bkt 17th of 18 run
West on N $\frac{1}{16}$ line Sec 18 - T 44 R 29

parallel to the so today (See Pg 34-35)

@ 12. ft West from river @ 780⁰⁰ W Hub

2376.⁰⁰ W. Hub @ 26.40. strike but not on line
as a hill on line hides it. Slakes set every
300. feet west lined in with the transit
Slake 2640 W. is less than 10. ft E of upper Long
lake. Cause a hub to be set on West side of
lake and on line (set by Fremont Nechem flg)

Quit for night Slake and Gjerner &
Gusley transit in perfect adjustment 300'
ch. plumb-bob.

Ed Parks of Pillager wants bid \$6. for survey of
"The Lockron Tract"

John W Cuss

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April 14 - 1918

Sunday. Harold & crew lay up
Harold visits Roy Stark in P.M.

I am home all day on the farm
Muelly - Mattie - Dwight - Mary - Als - Louis baby
come up from Jenkins in two cars for dinner
Muelly - Dwight - Louis & dine to see 18 & 19
6 miles NW of Luntin's store and look at
100 acres of Jack pine @ \$800. stumpage
I estimate 500 to 700 thousand feet
this is supposed to be 7 mile haul to
Newin. Supper on the farm and they
all go home. Leave Als with Mrs
S. E. Felton of Pine River Minn

Note: C. L. Mott State Engr at Brainerd
gave me a telephone slip yesterday for a
survey in Haggitt Brook Twp. Crow Wing Co
this T 43 R 30 ordered by John W.
Fallon Phone 11 - Ring 5. usual &c

John W. Cress

April 15th 1918

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Monday. I to home at 8 a.m. Gerald goes to school in Plover. Alma and Reed go as far as Jenkins with me. Stop a minute in Pine River to see Mrs. Fellon.

L. Alma and Reed at Jenkins drive to Bad then to McCall's Resort for dinner at 12.45 P.M.

Nels J. Nerheim and team went to Brainerd this morning, and paid for & got the 360# of F.T.S. for \$5.40

I call him up and he drives over in P.M. with his team brings the same

Fred Templehoff owns Goat Lats 1-2-3. Sec 18-T44 R29. he has sold a little over 7 acres off Lat 3.

Eres? Knutson Store keeper of Chonston owns Lat 6 Sec 17-T44 R29

Templehoff goes with Nerheim and I to his NW Cor Sec 18 where he and Nerheim say Lewis Knutson (CE) put in an I.M. 6 years ago. They look in the cen of NTS road but cannot find it (in loose sand @ S. end of cut)

At this point being cor to nos 7-12-13-18 But Twp 44 R29-30 NTS notes call for: see over
John W. Curo

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April 15-1918
cont'd

T44 R29

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WP 12 S 45 W 13 LKS = 8.58 Feet

" 10 N 55 W 32 " = 21.12 "

" 18 S 28 E 57 " = 37.62 "

" 16 N 63 E 79 " = 52.14 "

We find the stumps of the SE line very plainly marked "B.T." We also find the short burned stump of the NE line which is too short to be marked but the only pine stump in that direction and from these two stumps I set the cor. by flat chain from face. The other two are gone.

By the compass I find these stumps about O.K. for course but will take true course later.

We drive a 2x36" boiler tube left 2" above ground for the true cor. and will put in new BTS later.

Netherin & I ch. so along road 200-400-600-800-1000-1200. and @ 1320 S set peg. Then take his team dump off I.M.S. at McColl's and with "Fred" go to SW cor of sec 18 where the BTS do not check with notes and we pass this up. & go back home.

Herald J. Carr & ch. Fremont
John W. Carr

April 15-1918
continued

T 44 R 29

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Nestheim flg. ch + ax. Theodore Gjernes
("Ger-nes") a man.

Reg @ 1/4 bet 17th & 18 and runs

West. on cen line of sec 18-T44
R29- parallel to So b dry (see pg 35-36)
@ 14. W. Fence N + S. @ 17²⁰ W cross N + S random
@ 30 W road SW + E 41.20 W. Hub @ 650 W
road NW-SE @ 1250.20 W Hub @ 2086.80 Hub
@ 2442 W cult meadow
@ 2640 L^v meadow
2773. cult meadow
3025 W L^v " at 3100 W. slake @ 3108 cult
meadow @ 3185 W cult slough in meadow
@ 3260 L^v water-cult meadow: 3400 slake
3496.10 W Hub @ 3450 L^v meadow
@ 3500 ? cross fence NW + SE @ 3741.
fence N + S. @ 3800 road NE + SW. 3802
cult plowed field @ 3946 L^v same. 4018
pole fence: 4050 fence: 4198 road N + S
4269.10 W Hub on seawall. INT set
S 7°35' E 48. Feet. Harold + I get this
angle after supper - also get slumps of lines
cut accidentally in callog yard.

See Pg 55

John W. Cunn

44 148

T 44 R 29

Maple Grove Twp
Crow Wing Co. Minn

April 16-1918

Tuesday: Rain and mist all am.
Germes come over but goes home again.
2 1/2 miles walk each way. I write up
notes and figure corrections:

I write up notes in am and figure
corrections in pm.

Corrections

Between 8th and 17. T 44 R 29

130.68 US	5278.68 FT US	T 44 R 29
7.		8.
1801 1/2 US	1999 1/2 LKS	9.
1188.99	1319.67 US	
Total	5148.00 FT US	
18		17.
17		16.

$$\begin{aligned}
 & 5148.00 \text{ FT US} \\
 & = 5134.10 \text{ " My Chain} \\
 & = 13.90 \text{ FT Short}
 \end{aligned}$$

5148.00 into 13.90 = .0027 of a foot short
in each foot west

Correcting

1319.67 + .0027 = 3.56 short = 1316.11 mych
2639.34 US is short 7.13 = 2632.21 My Ch
3959.01 US-15 short 10.69 = 3948.32 My Ch
5148.00 US-15 short 13.90 = 5134.10 My Chain

$$\begin{aligned}
 & 5134.10 \text{ FT My Ch} \quad 8.9. \\
 & 5134.10 \text{ FT My Ch} \quad 17.16 \\
 & \quad \quad \quad \cdot 005863 = 0^{\circ} 20' \\
 & \text{off } 30.10 \text{ FT - See Page 37.}
 \end{aligned}$$

John W. Curs

April 16-1918
continued

T 44 R 29
Figuring

95

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Correcting

Bet 8th & 17 T 44 R 29 = 0° 20' - .005863

See Page 26-27-31-37-45-52-83

300 W goes North	1.76	✓
600 " " "	3.52	✓
900 " " "	5.28	✓
1200 " " "	7.04	✓

1316.11 West goes North 7.72 ✓

To E 1/4 Bet 8th & 17 T 44 R 29

Note: only checked over line stakes at this point

1500 West goes North	8.79	✓
1790.50 " " "	10.50	✓
1800 " " "	10.55	
2100 " " "	12.31	✓
2400 " " "	14.07	✓

2632.22 West goes North 15.43 ✓

To 1/4 Cor Bet 7th & 18 T 44 R 29 :

2700 West goes North	15.83	
3000 " " "	17.59	
3388.70 " " "	19.87	
3600 " " "	21.11	
3900 " " "	22.87	

3948.33 W goes
to
23.15
W 1/4
to

See Pg 101.

John W. Cline

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T44 R29
Maple Grove Twp Roads.
Crow-Wing Co Minn

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April 17-1918

Wednesday: Herald & I still work
in separate crews:Nerheim & Son and one horse buggy
to learn at "Freds"Nerheim and I then walk to SW Cor Sec
18- T44 R29 When US Nails call for:

Birch 7N52°W 14 LKS = 9.24 FT

WP 18 S 38 W 75 " = 49.50 "

" 20 S 15 E 42 " = 27.72 "

" 24 N 74 E 44 " = 29.04 "

We find the lat stamp of each WP.
very plainly marked but find that the SW
line stood only 65 LKS instead of "75" Links
US surveyors made a mistake of 10 LinksI set ft for cor by flat chain from face
of SE and NE - stamps after which all these
stand O.K. for course and measure except
that the SW stamp is 6.60 ft (10 LKS) too
far away. Hole in the ground - where old
Birch line once stood bears N about 32° W about
10 feet I don't count this.We set a 2x36" iron boiler tube - full
length in a 15 inch mound of dirt 4 ft
in diam. I like new BTS vizBirch Oak 18° N 41° 02' E 68.63 Feet over
John W. Euro

April 17-1918

cont'd

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Poplar 5" N 44° 17' W 45.35 Feet

" 8" S 25° 43' W 47.10 "

" 8" S 53° 20' E 56.77 "

To head of nails driven in flat spot
at base of tree Angle turned from
true line looking a mile Nalt

Using the true line North as Meridian
the NE old BT set about 1½° too far North

The SE BT about 2½° too far E and the
SW old BT about a foot too far North or

The above being the true on to

Secs 13-18-19-24 Bet T 44 N. R 29-30 W

On looking North along true line
reads about 8° 40' E

Old stake stood 2.50' N. Set it in top of tree

At M.C. US water say " @ 366 Links
(= 241.56 Feet) North enter Lake and
Set MC on from which "

Red Pine 10" S 12° W 23 Lks = 15.18 Feet

White " 14" S. 25° E 22 " = 14.52 "

I find the stump of the SE W Pine from
which I set a row of pins in a general
NW direction - each pin 14.52 ft from
BT mark on stump and where my
line N + S Sec line looking a mile N.
cuts this circle of pins I set a
John W Cross

April 17-1918

cond

Maple Grove Twp

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2 x 36" I.M. = boiler pipe half its length
in the sand beach $3\frac{1}{4}$ M. N. of sea wall
and pile a lot of big stone nearly to the
top also sand and place a white stick
in top of iron.

Note 1: I did not take the angle from
this M.C. via the true line turned to the
old BT stump but I am sure it will
lain within a few inches - maybe exact.

Taking the angle

Harold and his crew show up $3\frac{1}{4}$ of
a mile North and I make them under-
stand I want a flag held at I.M. @
NW Cor of Sec 18. Young Hesham walks
80 rods North and holds flag

I set transit on Hat on random
line 5295. West Back sight East
and lain $91^{\circ}10'$ to flag

NE angle reads $91^{\circ}10'$

I turn this twice - carefully.

The NW angle reads $88^{\circ}50'$

Transit telescope and wire cut
 $\frac{1}{4}$ mile west of cor of I.M. 6.45' dist

So that @ 5295: W True SW Cor 18 rods

- $S 1^{\circ}10' E$ 6.45 feet distant John W. Cunn

50 April 17-1918 T44 R29
continued

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Distance from the SW corner sec 18.

T44 R29. North to US Meander Corner is
366 LKS = 241.56 feet US Chain and is
242.60 Feet my Chain Benny
1.04 feet too long.

Herald Curo - F Nesheim & Gjerner
Continue the North $\frac{1}{16}$ line of sec 18
T44 R29 - west to Range line
but do not triangulate the lake at
corner

Begin @ stake marked 0.0. on West bank
of upper long lake run
West random

on N. $\frac{1}{16}$ line of sec 18 T44 R29
@ 200 W Lv meadow @ 275 W Hub
@ 280 W enter field - fruit trees
@ 664.80 W Hub @ 769 road NE-SW
Lv field. @ 780 about, ditch NE-SW
900 W. Road E-W about 1086. Hub
1200. edge of meadow 1370 Lv same
1445 enter field. 1532. main
Brammer road NE-SE 1545 Hub
P.M.

Nesheim and I. go to NW corner Sec
18 T44 R29 where we mark new
BTS Vig.

John W Curo

April 17-1918
Cmld

T 44 R 29
Maple Grove Twp

51

Brick 6" S 49° 39' W. 57.10 Feet

" 8 N 28° 50' W 55.60 "

" 9 N 31° 50' E 68.50 "

P. Stub 15" S 47° 22' E 30.95 "

To nail in flat spot at base for the
line I.M. Co to Secs

7-12-13-18. T 44 R 29-30

On road 8° 20' E turned from the
line line looking across the lake S.

Old BT bears S 29° 42' E } old
" " " N 64° 05' E } stump

We then run

South on line Range Line

@ 1208.40 S intersect random

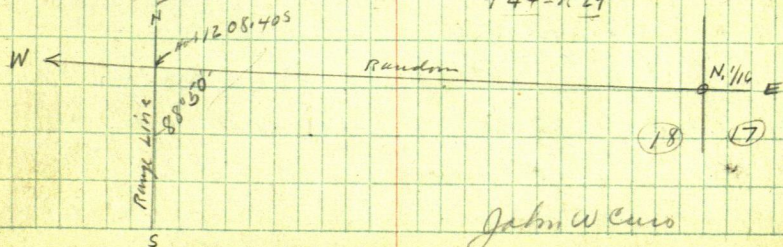
N. 1/16 line of sec 18 - set hub in garden

@ 1334.85 S Hub on Bridge (Iron and Cement
Bridge) 1352.95 S Hub so of road

Set transit over P.I. Hub 1208.40 S
and read the S.E. angle of the random
1/16 and the line Range line

Angle reads 88° 50'

T 44 - R 29



Jabon W. Curo

52 April 17-1918 T 44 R 29
could

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Then to get a part of the distance
across the lake I set transit on
Hub 1334.85 S. Focus South on
line N.E. across the lake and turn
 $\angle 45^{\circ} 40'$ and run

S $45^{\circ} 40' E$ @ 803.60 Hub 1

@ 844.20 Hub where I set transit
and run

S $33^{\circ} 18' E$ 733.45 ft

intersecting Harold's Hub 4269.10 W. on
random can line coming from the East
See Page 43.

Harold and his crew in P.M.

walk more than a mile NE and
put in the $\frac{1}{4}$ c. bet 8th 17 and
run south. See Pg 45 for

Corrections

At 2632.22 West. Harold chains
North 15.43 feet and sets Hub for

$\frac{1}{4}$ c. bet 8th 17 @ 90° to random

and with the same course runs

South random thro c. 17

1200.5 Hub 1293.5 - Road NE-SW

1312. fence E & W on N side of field

Harold goes to party. Rain in evening. Cold
John W. Carr

April 18-1918

T 44 R 29

55

Continued

Correcting

E and W Cen line of sec 18 T 44 R 29

Note: Hat 4269.10 W. on E bank of
Lower Long lake is 2537.82 feet South
and 1006.53 ft East @ 90° from line
Range Line

But; as our random is not a
90° angle to the Range line being 91°10'
to extend our Cen line West from
Hat 4269.10 would intersect our Range
line at the rate of 1°10' for a distance
of 1006.53 which would be 20.49 ft

Subtracting this 20.49 from
2537.82 would make the intersection
but the Range line @ 2517.33 South.

As the West line of Sec 18 is

5152.74 ft long half of this would
be 2576.37 so that our line would be
59.04 too far north

Sec 18 is 5275.63 ft E and W in Cen
5275.63 into 59.04 = .011191 = 0°38' - "

Correcting: $4269.10 \times .011191 = 47.78$
South. plugs Kneelions I in straight
in the head. see page 43.

John W. Carr

See Pg 43

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T 44 R 29

April 18-1918 Maple Grove Twp
Couda

At 4269.10 W Knotions I M set

S 7°35'E 48.00 feet

7°35'

Sin = .13197 x

Cos = .99125 x 48 = 47.58 South

This leaves it 0.12 of a foot too close
to for North which is O.K. ^{as it leaves a little} ^{1 in. by straight lineing it}
^{about makes it O.K.}

Not O.K. But Wonderful
Check - considering See Pg 103.

I will leave the I M where
it is John W. Curo. Apr. 18-1918
47. to day.

To put in the North 1/16

Begin @ Hat 1208.40 S. and chain South
79.78 feet to 1288.18 South

Correcting

E and W Cen Line Sec 18 - T 44 R 29

See Page 35-36-43, 54.

I use my own lines and pay no attention
to Knotions I M on Lake Shore but this
will come O.K. when kicked South a
couple of inches to straighten it up.

My correction = .011191 of a foot South
for each foot West

John W. Curo

April 18-1918
Cmld

T44 R29

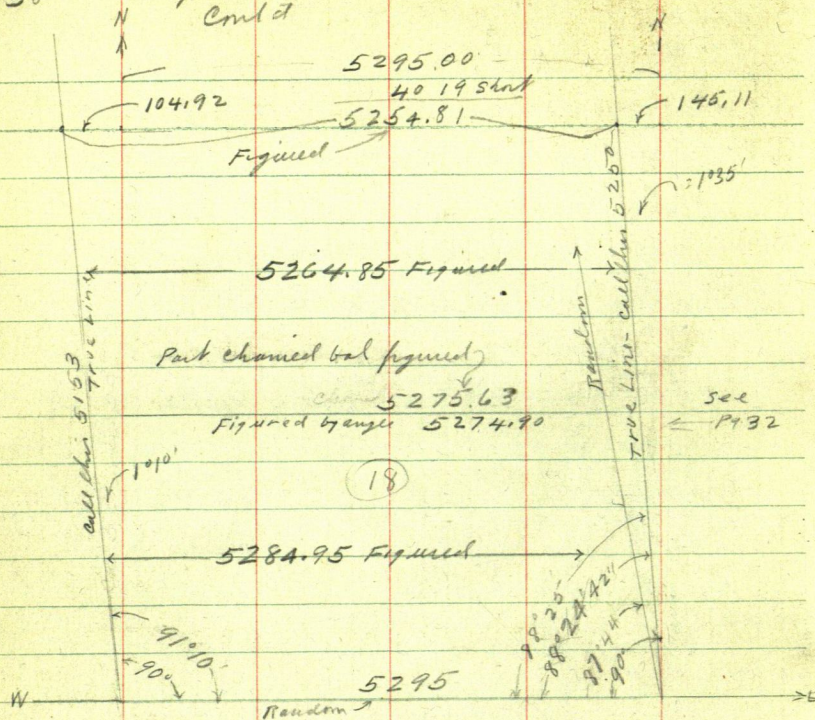
57

Correcting EXW Cen Line ^{Sec} 18

Hub 41.20 N	guar	S	0.46
300	W	"	S 3.36
600	W	"	S 6.71
900	W	"	S 10.07
1200	W	"	S 13.43
1250.20	W	"	S 14.00
1500.	W	"	S 16.79
1800.	W	"	S 20.14
2086.80	W	"	S 23.36
2100.	W	"	S 23.50
2400.	W	"	S 26.86 ✓
2700	W	"	S 30.22 ✓
3000	W	"	S 33.57
3400	W	"	S 38.05 ✓
3496.10	W	"	S 39.12 ✓
3600.	W	"	S 40.29 ✓
3900	W	"	S 43.64 ✓
4200	W	"	S 47.00
4262.77	W	Amulion I.M.	should set S. 47.70

John W. Cress

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April 18-1918 T44 R29
Cmld

$$\text{Tang} = .02764 \times 5250 = 145.11 \text{ Feet off}$$

$$\text{Tang} = .02036 \times 5153 = 104.92 \text{ Feet off}$$

John W. Cuss

April 18-1918 T44 R29

Continued

Maple Grove Twp Roads 59

Crow Wing & Union

Figuring the length of the North Line of
Sec 18 T44 R29

$$5384.28 \text{ Ft US} = 5254.81 \text{ Ft my ch} \\ = 129.47 \text{ ft short} = .024046 \text{ of a foot} \\ \text{short in each foot of US chain}$$

2640 would be 63.48 ft short on

$$2640. \text{ US} = 2576.52 \text{ Ft my chain}$$

Figuring the length of the South line of
Sec 18 T44 R29

$$5328.84 \text{ Ft US} = 5295.00 \text{ my ch} = \\ 33.84 \text{ ft short} = .0063503 \text{ of a foot short} \\ \text{in each foot US chain}$$

2640. would be 16.76 ft short on

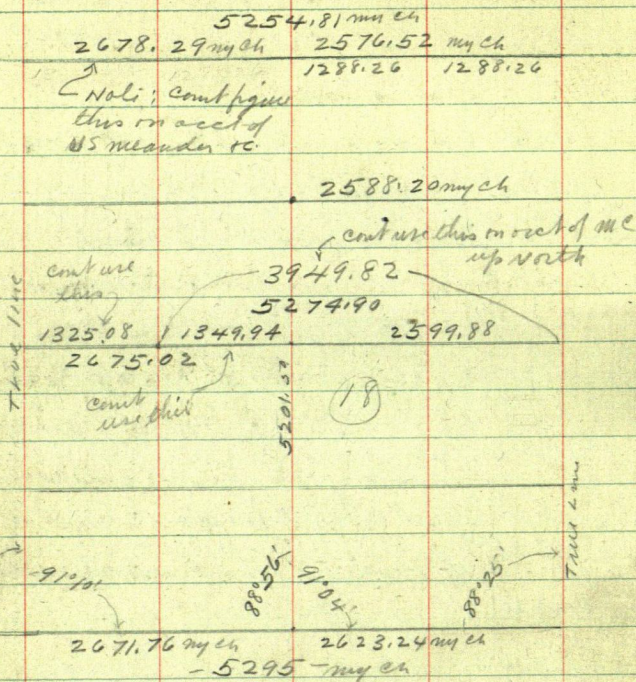
$$2640. \text{ US} = 2623.24 \text{ ft my chain}$$

But; we found a stone here with a cross
(+) in top set for $\frac{1}{4}$ in @ 2623.70
being 0.46 of a foot West of where it
ought to be

To make this line straight this
stone should go 0.46 of a foot E to 2623.24
West and South .0012181 = 3.20 ft I may
change this stone See Pg 66.

John W Carr

60 April 18-1918 T 44 R 29
 could Maple Grove Turb



$$5201.50 \text{ into } 46.72 = .008982 =$$

I figure corrections till 2-30 then go
 look for Verheim at Freds cant find
 him and come back and figure more
 corrections @ 5-20 PM I find
 Verheim at Freds and we put in
 the N $\frac{1}{16}$ bet 18- and 13 T 44 R 29-30
 see Page 56

At 1208.40 S we chain so 79.78
 John W Cuss

April 18-1918 T44 R29
could Crow Wing Co. Minn

41

ft to 1288.18 so and drive a 2x36"

boiler tubes its full length in a 15" mound
of dirt 4 ft in diam

The boys get back from work just in
time to help us set it

Harold and crew continue

South on center line Sec 17. T44 R29
see page 52

@ 1312 S fence E & W @ 1920 S ditch
NW-SE at 2636 S fence E & W

2640 Hab Temp can enter meadow

4200 LV @ 5280 S Hab Temp $\frac{1}{4}$ bet 17 and

20 T44 R29 Stakes set every 300 ft
lined with transect -

John W. Crow

T 44 R 29 149
Maple Grove Twp

April 19-1918

Friday: Nerheim and Liam also his son
and Gjernes = drive to McCalls. The boys
go with Harold while I and Nerheim
load up with iron monuments and
drive South. We set 6. I.M.S.

5 small ones and one big one. Bygone is
3 1/2" x 36". set viz

At the 1/4 Cor bet 30 and 31 we
dig up the big stone with cross in top
and put in its place a 2" x 36" boiler
tube flush with the road level.

Then drive 1/2 West - pull up my wood
hut and place a 2" x 36" boiler tube
about 3 ft North of the N. wheel track of
E & W graded road for the line on
N. sec 25-30-31-36 T 144 R 29-30
well rounded.

Then drive To SW cor Sec 31 -
leaving the Townships Cor

Sec 1-6-31-36

Twp^s 43rd & 44 Rgs 29th & 30
where we pull up my wood stake set
3 1/2 x 36" Iron Tube it's full length
in the road on E & W road

I place a 5' brush "back shot" here
John W. Curs

April 19-1918 T 44 R 29 149
Coulid Crow Wing & Win

63

in the loose dirt just behind this I M
so as to use it in lining in the $\frac{1}{4}$ c
half a mile East.

We then drive a mile East to S E C.
31- where we take up the old stake
and stones and put in place of the
stake a

2" x 36" steel boiler tube I M set
it's full length in the ground in cen of
E and W graded road and also at
the North end of a graded road running
South. being @ line Cn to sec

5-6-31-32. T 43^m 44^N R 29 W
over which I set transit and find
the road running a mile E and a mile
West to about line up. I can only take
the general center. My compass reads
10° flat. Taking this as a base the
general cen of the road leading South
bears S 0°30' E. A new fence runs half
a mile N 1°47' W and is quite straight

The transit line cut out by Harold & crew
See page — bears N 0°40' E.

I drive lock in SW Cn part of fence
Took bears N. 1°13' W. 29.98 Feet

I drive lock in NW Cn part of fence
John W. C.

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64 April 19-1918 T44 R29
Maple Grove Twp
could
Took bears S 51°55'W 40.60 ft

I then blaze up New BTS viz
Bur Oak 4S 70°45'W 70.60 Ft
Pap 8N 24°20'W 117.30 "
Turn Pap SS 64°25'E 91.83 "

To nail heads on 10" for line Co

Secs 5-6-31-32- T43-44 R29

I place a 5 ft brush back shot behind
this Co 21 or to line up the 1/4 Co
half a mile West.

We then drive half a mile West
and cut in the 1/4 Co

1/4 Co bet 6 and 31. T43-44 R29

Work line out on line bet Buick

Back shots and at Hub 2640. W S
chain East 3.75 ft to 2636.25 West
when I drive a 2" x 36" steel boiler
tube for the line 1/4 set in South wheel
back of E & W graded road and in
line with West wheel back of graded
road running North

New BTS viz:

Iron sign post 2" diam bear

S 35°47'E 18.45 Ft

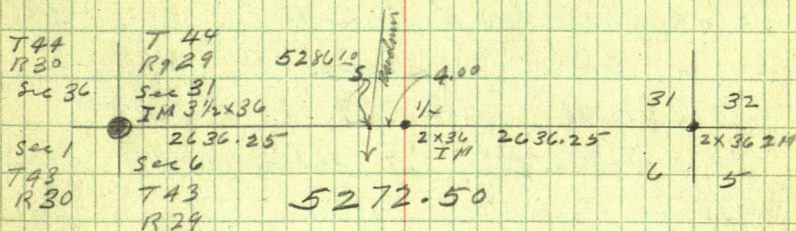
5 ft Bur Oak stump 8" N 29°30'E 61.95 ft
to lock. Old NW Co post of fence
John W. Carr

April 19-1918 T44 R29 148 65
cont'd

bears S 15° E 27.30 ft. Courses turned from the line E & W town line

The compass here shows 9° var while the same course taken half a mile East read 10°. See Page 63.

5286.10 So the 1/4 Cr on South side of sec 31- T44 R29 bears E 4. feet



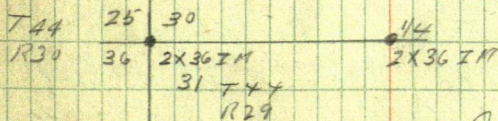
We then drive 1/2 mile North to bears and walk half a mile East to Cr of sec 29-30-31-32 T44 R29

where US maps call for

Tan 8 S 14° W 1375 LKS = 907.50 ft

" 6 S 2° E 1367 " = 902.22 "

All are gone and Mr Olson says they have been for over 30 years as Harrison and Bortell could never find them.

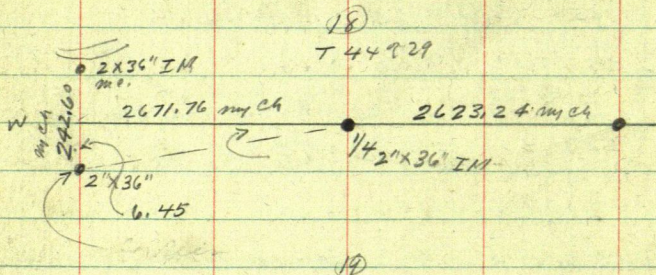


John W. Euro

Note: I find these stumps later

66 April 19-1918 T 44 R 29
could Maple Grove Twp 198
we then then drive north to 1/4

on bet 18th and 19 T 44 R 29 where we
take up the stone with corn (x) and
put in its place a 2" x 36" I.M. boiler
tube for line 1/4 cor. Note: I set this
0.46 of a foot East so as to check out
for E & W chain by "Bisportion" with
US chain but it is still 3.19 ft too
for north. See Page 59.



Nesheim and I get home @ 6 PM.

Harold and his crew Begun @ Cr

8-9-16-17 T 44 R 29 Temp 90° in

South Bet 16th and 17 V 9° T

@ 238 S ent meadow: 446 L1 @ 931 out
meadow 1587 L1 same 1800.5 Hub

2205.50 - S - Hub 2351 S ent meadow

2640 S hub Temp 1/4 Cor (in meadow)

to Recor 16th and 17 T 44 R 29 where

US notes call for John W Carr

April 19-1918
cmld

T 44 R 29

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White Oak 15° N 3° W 514 Lrs = 339.24

" " 12 N 2° E 538 " = 355.08 W

They do not look for these but being
looks back to N 1/16 bet 17 and 18 where
they may start tomorrow

I get a call from Alma who wants
me home on sat of the

Maishmarion Roast at M^cCall's in
the evening - Miss Nichols (Teacher) comes
with Nels & Olson's two sons

Mr and Mrs Norton and son & daughter come
Mr "Rob" Nelson buys the dope I
guess - Harold & I - Mr and Mrs M^cCall
and then two daughters Ruth and
Grace - and two small boys Harold
and also Grandpa and Grandmother
M^cCall make up the party. M^cCall
takes a flashlight of us in evening
break up about 12 midnight or later

John W. Curo

April 20-1918

Saturday. Young Nesheim (Fremont)
does not come. Nels J. N. and team
comes with his nephews Theodore Gjernes
Gjernes and Ronald go East

Nesheim and team and I drive South
L. team @ Louis J. Nesheim's farm on
SW $\frac{1}{4}$ Sec 30 T 44 R 29.

Louis J. Nesheim is Heling Road
Boss and helps us in survey (flags)

Begin @ I.M.-N.W. Cor 31 - T 44 R 29
set transit about 1420.0 ft East and
chain the half mile of graded road East
on road 8°50' E We use a 200. ft
chain with shoulder 0.45 of a foot
long on each end. We use steel from
lip to lip = 200.90 ft and set stakes
Numbered 1" 2" 3" etc

East bet 30 & 31 T 44 R 29
@ 2730.75 E, I.M. $\frac{1}{4}$ Cor sets
South 2,90 feet. @ 3817.10 E. set
hub 3.00 ft N. of good E & W fence
built by Nels G. Olson who lives on
SE $\frac{1}{4}$ Sec 30 T 44 R 29 Has been
here 30 or 31 years and never found
SE Cor of his land Says he once
John W. Curo

April 20-1918 T 44 R 29
could

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knew where the oak B.T. stood @ $1/4$ c
half a mile South from which Bartlett
once made a survey - when he started North
this is gone now I guess

@ 5367.40 E and we are in line
with Harold's Transit line coming from
the south his '5280 N' Hub sets 12.60 ft
South.

@ 5388.70 E cross wire fence 1.40 ft
N of SE corner of post

@ 5421.20 E Hub

@ 5424.30 E set stake '27'

This is near the corner

29-30-31-32 T 44 R 29

where the US B.T.s are gone and is

Mr. Nels & Olson's SE corner

Olson says Harrison did not set this
but that Harrison set a temporary corner
here when he was running West to post
in the $1/4$ c but 30' at 31 and that Harrison
told Olson to go to Harrison's line stake
and chain 20-30 or 40 ft N-S-E or W
and set his own corner which Olson says
he did. He evidently got barn
stuck. Evidently Harrison made a mistake
in the direction or Mr. Olson did not
John W. Carr

70 April 20
1918 Cont'd

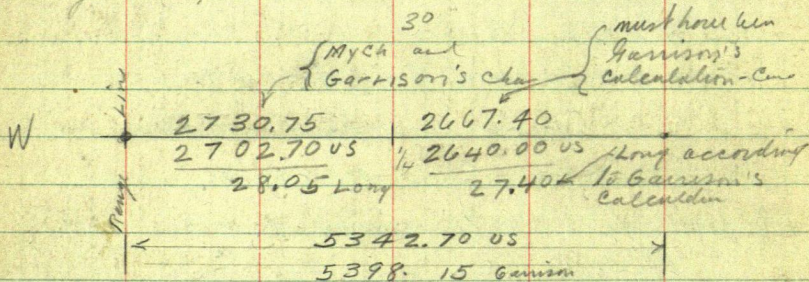
T44 R 29
Maple Grove Twp

understand him rightly

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Because: Taking Garrison's own course
West of here - that is: the SW cor of sec 30
and the $\frac{1}{4}$ cor. he set bet 30 and 31. his

SE cor of 30 if Garrison figured correctly
that is proportionately would fall
at a point 5398.15 feet East and 5.73
feet South which would come along
SE cor post 9.45 ft less for West and 4.33
feet less for north.



$2702.70 \text{ into } 28.05 = .01038$ of a foot long
in each foot US chain

$2640 \times .01038 = 27.40$ added to 2640.00
 $= 2667.40 + 2730.75 = 5398.15$ Total
as evident by Garrison's calculation of
the West half mile

As IM $\frac{1}{4}$ sec. 2.90 to 2730.75 East

5398.15 E should go to .001062 = 5.73 ft

Sec P, 94.

Jahm W. Carr

April 20 - 1918
cont'd

T44 R29

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We continue E. across Big cranberry bog

East Bet 29-32 Numbering stations

progressively "28" "29" "30" and soon
each chain being 200.90 ft long

@ chain "40" = 8003.60 ft East we look
for the "4" which should be 53.30 ft West.

@ 7982.70 E where we scale east for

1/4 bet 29-32 T44 R29

Tam GS 68 W 68 LKS = 44.88 Feet

" GN 30 E 187" = 123.42 "

All are gone as Bartlett and Garrison
never found them We continue East
and set stake "45" which is 9040.50 ft
East and quit for night

I "split" a piece of white paper over
a limb of a big tam stub about
what I think is on line - then we all
"wade" back nearly 3/4 of a mile in the
snow to where the line is set and by
laying the double center stake my line
seems to cut the South edge of the
white paper but the sun is so strong
heat waves leave me in doubt as to
whether this is the paper really

But my double center cuts 2" N and 10"
So if my first picket over half a mile East
John W. Cund

72 April 20-1918 T44 R29
could Maple Grove Twp 148

of the line. We stick a back shot
in the wire fence and walk $\frac{3}{4}$ mile. W
get team and drive home

Herald and his crew set over
N $\frac{1}{16}$ bet 17 and 18. Back right
West on random Turn 0° 52' L ns
2. or 1. back right on line N $\frac{1}{16}$ in sec
18 transit telescope and run

East - on random N $\frac{1}{16}$ line
of sec 17. T 44 - R 29

@ 329. E. Found NTS @ 640 E. Found NTS

@ 718 E, Found NTS @ 729. 70 E Hub

@ 130.5 E Found NTS: @ 2138. In field
plowed: at 2200 in ploughed field

@ 2415 road NTS 2423 E fence
NTS. @ 2640 set hub and quit for

night. Very rough chain on this half
mile or it was not necessary for close
ch. The remaining half mile we will
not chain at all.

Herald and I go to Bed in evening
Herald gives Wm McCool ch \$1.50 for work
in Ford and Woodhead Mtn Co. \$5. for
Gas. they owe the bal of change 2. I owe
Herald \$6.50

Gabm W. Carr

April 21-1918

Sunday. I write up notes and Harold McCall and I monkey all AM putting new bolts in Ford hind wheel also one small and one big ball bearing.

Hind wheel takes 11 small and 12 big balls we found only 10 small and 11 big in the wheel
P.M.

Harold and I with Ford drive to Center of Daggett Brook Twp T 43 R30
Mr John W Fallon says we can board with him when we come to make the survey and gives me the name of the town board as follows

Daggett Brook Twp 43-30

Chairman: John W Fallon 2 yrs more

N $\frac{1}{2}$ NW $\frac{1}{4}$ Sec 20- T 43 R30

Lines @ NE cor of land

Trustee: D.N. Kemp. in for 3 years more
lives about cor of sec 20.

Trustee: J. B. James 1 year more
lives in Sec 12.

Clerk: Harvey Britton on sec 9-10?

Treasurer: Walter Caughey (Scotch)

lives Sec 3. Bank: Citizens

State Bank Bldg, Come home via Gortons.

John W. Curo

April 22nd 1918

Monday: Nesheim and team bring Fremont Nesheim^{2d} Theodore Gjernes who work with Harold in a separate crew. Nesheim team and I drive East & South where we find Louie J Nesheim waiting for us. we continue

East bet Secs 29th & 32nd (44)
Reg @ stake "44" @ "52" set stake which is
10.446.80 E then plus 166.25 =

10.613.05 East interest old post set
by Lewis Garrison former Co Surveyor

Another old stake not marked
probably set by John Bartlett also
former Co Surveyor sets about 29 ft
West and about 6 ft North being
just 30 ft North-westerly

We will see how these stakes check
with the old US BTs when US notes call
for Cor'd Secs 28-29-32-33-T44R29

Aspen 6'S 38W 41 LKs = 27.06 Ft

Tam 6 N 19 W 130 " = 85.80 "

" 6 N 6 E 151 " = 99.66 "

Spencer 6 S 44 E 133 " = 87.78 "

We find the NE old line standing
dead but very plainly marked.
John W. Currier

T44 R29

Maple Grove Twp - Road Survey
Crow Wing Co Minn

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Time Sheet	Maple Grove Twp	April 1918				May 1918			
		SUM	22	23	24	25	26	27	SUM
		21	0	1	1	1	1	1	1
Jahn W Curo \$5		0	0	0	0	0	0	0	0
Expense		0	0	0	0	0	0	0	0
Auto Service		0	0	0	0	0	0	0	0
Harold J Curo \$5		0	1	1	1	1	1	1	1
" " \$		0	0	0	0	0	0	0	0
Theodore Gjernes		0	1	1	1	1	1	1	1
Nelsch. Nesheim		0	1	1	1	1	1	1	1
Team		0	1	1	1	1	1	1	1
Fremont Nesheim		0	1	1	1	1	1	1	1
Louis Nesheim		0	1	0	0	0	0	0	0

Jahn W Curo

Brot From Page 3.

April 22-1918
cont'd

T 44 R 29

Maple Grove Twp

as follows T 44 N. R 29 W S 28 BT"

I call the attention particularly to both read these figures.

8
x
1
We also find the stump of the red
tree marked B.T. and the body of
the tree well marked lying at the
stump. Then with the compass I
carefully read the bearing of our
line just east which reads 9°
and set my vernier @ 9° and they
both check out to a faggel for
course and measure with stake
set by Garrison which our transit
line hits square.

SE BT is gone but by running
S 38° W 27.00 feet the small stump
of a 4" tree (which evidently was
the real old BT) is 0.40 of a foot
too far away we dismiss this
and call Garrison's stake O.K.

I take it up and put in
its place a $2\frac{1}{2}$ " by 5' boiler tube
driven over a log piling which
extends 3 feet below the iron and
hits solid bottom. Iron sticks
2 ft above swamp level. We cut
John W. Curo

April 22-1918
Cont'd

T 44
R 29

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a circle 6 feet in diam around this stake and a trench 16" wide outside the circle and throw the cathay to center so as to make mound 6' diam

From this iron I mark New BTS viz @ 9' taken before the iron was set so as to avoid magnetic attraction Set with the compass as the transit sets nearly 180° west

Nati: this is the only New BTS we have set with the compass.

Black Poplar 12° S 23° 30' E 348.50 FT

Spruce 6 N 51° W 236.70 "

Blk Oak 16 N 76° 30' E 373.50 -

to flat spot @ base for the line on to
28-29-32-33 T 44 R 29

I mark the line "Recorded by John W Cuss New B.T."

Nati: the wind is blowing so hard I picked the best 1000 ft of our random but am sure a true transit line would almost center the spot

I lay Harrison's post on the mound with the tip West and the point resting against the iron monument

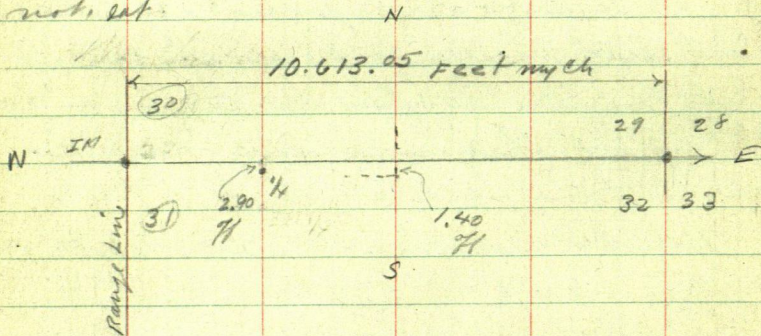
I stick a 6' line pole in the iron
John W Cuss

78 April 22-1918 T 44
Cmld R 29

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marked line corner. Louis Neshem
got stuck on the head with a tire
just before we get here and bleeds
badly, but sticks with us.

We all walk West half a mile
when the boys eat lunch but I do
not eat.



We then go a mile N.W. where we find an X
marked stone set by John Bartlett for the Co.
19-20-29-30 T 44 R 29

where U.S. water call for

Aspen 10 S 87 W 119 =

" 10 N 57 E 29 =

" 10 S 23 E 73 =

No other line -

All appear to have never been found

We begin @ Stone marked X
John W. Co.

April 22-1918 T44 R29
could Maple Grove Twp
and Chain

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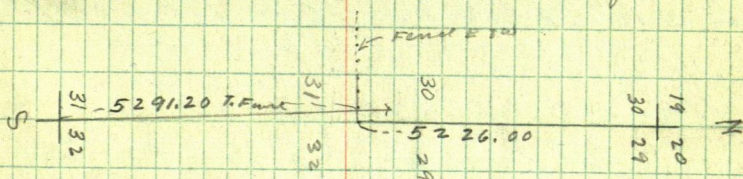
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South bet 29th and 30 T44 R29

Nels Nesheim and I chaining
perfect 200.90 ft chain
along graded road which runs S
half a mile, and then some. Carliway

@ Stake "26" plus 25.55 and 0.45
= 5226.00 feet S/E Cor of
Olson's fence in center of port.

This makes a total for this
two miles N and S. ft



We then drive NW and meet Mr
N P Nelson who seems to own the
NE 1/4 of Sec 30. T44 R29

Mr Nelson says the stone we saw
at NE cor of 30 is correct and
probably never has been moved by
the grader -- at least up to last Fall
He then walks with us West to
the 1/4 cor bet 19th and 30 where he
shows us a stone marked (X) 1/4
John W. Curo

80 April 22-1918 T44 R29 Maple Grove. Twp.
Cmld

con bet 19-30 T44 R29 set by John
Bartlett former Co Surveyor by chaining
E and W and he also located the
NE con stone by chain 1 mile N and
1 1/2 miles South also E & W.

We begin @ stone marked (X)
fr 1/4 Con Bet 19th & 30th and chain along
graded road

North thro con of Sec 19.

@ "26" + 42.85 + 0.45 = 5243.30 ft

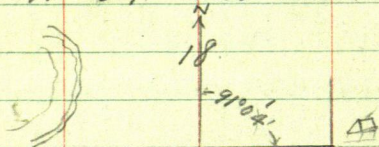
1/4 I.A. 1/4 Con bet 18th & 19- T44 R29

Harald and his crew

Set transit over 1/4 Con bet
18th & 19 T44 R29.

Focus on SE Con Sec 18- Turn

L 91° 04' and run only listed 91° 01' Note: Tried it turn 91° 04' but



North thro con Sec 18 T44 R29

@ 818.30 N. Hub @ 1550 N cross Brook

NE & W run West @ 1656 N Hub

@ 2530 N. enter meadow: @ 2628

cross E and W sandon line about

John W. Cress

April 22-1918 T 44
Cmtd R 29

81

76 feet FT East of 2640. W

@ 2652 N to meadow @ 2700 N Hub

@ 2895 in the meadow @ 3150 L v same

@ 3216 Cn of road NE & W 3900 Hub

@ 3938 N Cn Lm E & W @ 4050

slake on lake shore.

John W. Cress

82

T 44 R 29

178

Maple Grove Twp

Crow Wing Co. Minn

April 23-1918

Tuesday:

Harold works in one crew. Nesheim
and team work with me.

We drive to Co Secs

17-18-19-20 T 44 R 29

pull up the old stake point and
put in its place a 2" x 3 1/2 ft 42'.

I.M. Boiler tube for the line Sec
Co New B.T.S viz:

I walk half a mile E and look a little for
the 1/4 Co and then half a mile N. where
I meet Nesheim & team. We drive to Co

8-9-16-17 T 44 R 29

pull up the wood hub and put in its
place a 2" x 4 1/2 ft I.M boiler tube
set its full length in a 2 inch mound

Nesheim & team stay here while I
walk South @ 80 rods S. I meet
Harold & his crew and we walk South
and look for the 1/4 Co bet 16 & 17

John W. Carr

84 April 23-1918
Continued

T 4.4 1729

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lube in a large mound of sand and
stone then walk 80 rods S and set
N $\frac{1}{16}$ bet sec 17th and 18th set
2" x 38" boiler lube in 4 ft circle
mound and @

$\frac{1}{4}$ bet 17th and 18th pull up wood
slab and set 2" x 38" IM boiler lube
in an large mound of dirt 6 ft.
in diam by 18" hi.

Look over wood sets around lake
and go home.

Herald and his crew

F.H. and T.G. Beg @ Hub 2640^E and run

East on N $\frac{1}{16}$ line of sec 17

T44 R29 without chaining and run
about half a mile and set a hub almost
on N & S random line bet 16th and 17th
1.60 used hole.

PM

Beg @ stake 2400 and run

South on random bet 16th and 17th
chaining perfect but not setting
stakes lined with line at: @ 4750 S
Ls big meadow: @ 5100 S Hub 5400 S Hub
The Ls holes at Nations. 21.0 telephones
me I pay charges 30¢

John W. Cress

April 24-1918.

Ned; Harold & Rich Gurley & 300' Ch
as usual. Theo & Ed FN, as usual. crew
work in the crew. Help N & team with me in
another crew.

We drive to SW 1/4 Sec 19 T 44 R 29 where
US notes call for

Bar Oak 6N 67W 85 = 56.10 FT

" " " 8S 15W 101 = 66.66 "

" " " 7S 25E 56 = 36.96 "

Open 8N 85E 21 = 13.96 "

We find the settled stumps of all
three oak, the SW & SE dimly marked but
all check out to a faggot --- perfect!
for chain old almost exact for course
except that the SE B.T. bears S 23° 45'
instead of 25°. Needle reads 9° 30' E in

Looking along general run of graded road
looking a mile N.W. (Maby across Long Lake?)
is about N 89° 40' W and looking E about
500 ft on graded road course seems to be
about S 88° 50' E. We mark point and
dig up Bartlett's old stake point and a
stone on E side marked (X) our point-
toucher west edge of stake mark now
bearings or follows: Our

John W. Carr

86

T 44 R 29-30 Maple Grove Twp
April 24-1918 Could

Red Oak 12" N 44° 00' E 77.95 FT

Bur Oak 3 S 25° 10' W 39.80 "

Pop 3 S 69° 10' E 53.15 "

3 1/2" pipe with 4" brog cap. and "
sitting 2 ft above ground bears "

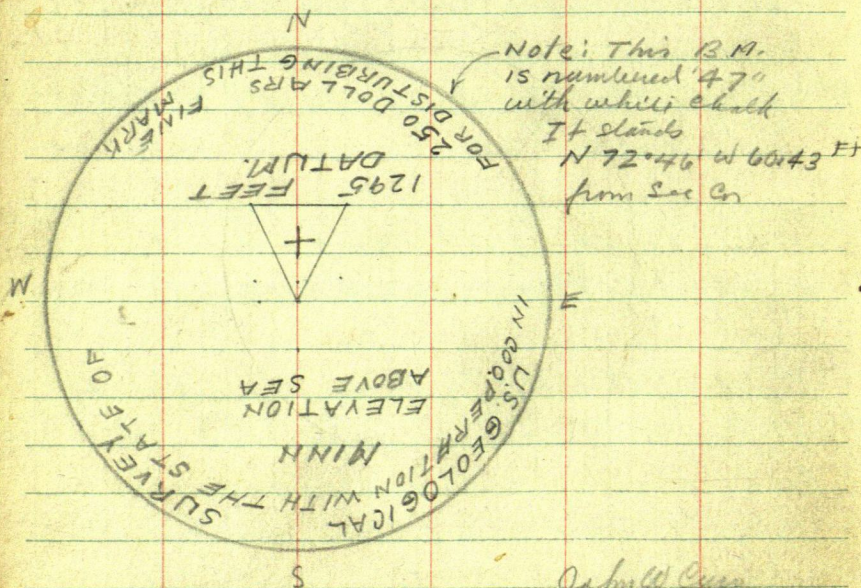
N 72° 46' W

60.43 "

We set a 2" x 36" I.M. boiler tube set
full length South of S wheel track.
for line c. to sec

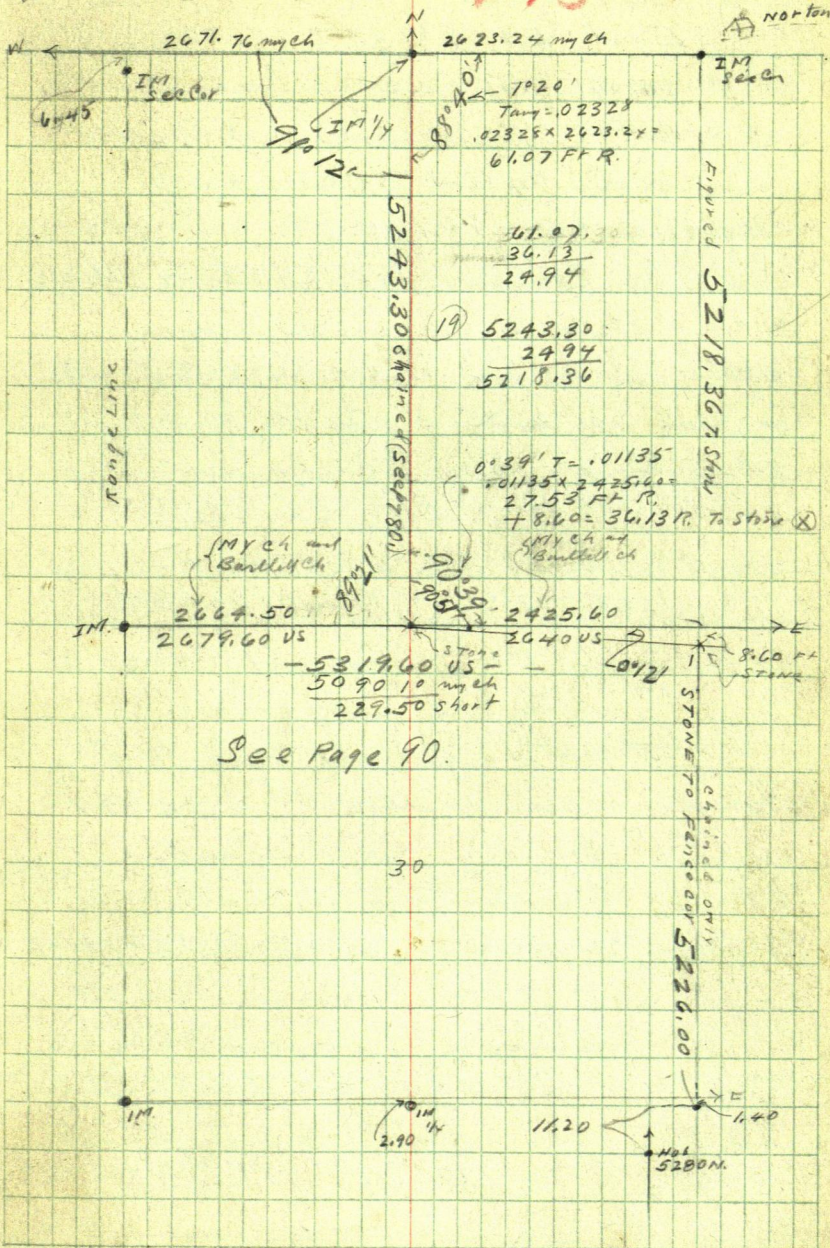
19-24-25-30 T 44 R 29 T 44 R 30

all @ 9° 30' var

The B.O. being 3 1/2" iron pipe as
mentioned above is a US B.M. and looks like:

Jahmed Cuen

87



John W. Cress

88 April 29-1918
cont.

T 44 R 29

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East bet 19th & 30 T 44 R 29

@ 73" + 64.05 + 0.45 (200.90 Ft chain) =

2664.50 intersect Cen of Cen
in stone 1/4 Cen (+) set by John
Bartlett bet 19th & 30.

Continue Transit line straight
East - thro (+) corner 1/4 stone

where we begin to chain again west

@ stak 72" + 25.15 + 0.45 =

2425.60 E. Stone Sec Cen set

South 860 ft Stone Sec Cen is

on to 19-20-29-30 T 44 R 29

as established by John Bartlett former
Co. Surveyor but stone not recorded

Then to get the length of
the East side of Sec 19 T 44 R 29
without cutting thro the heavy
brush. I carry transit half a mile
West - produce a line a mile North
to intersect I R 1/4 Cen on N side of
Sec 19 - distance previously chd
along graded road, N.E. angle woods ^{on E. Road}
90° 39'. Carry transit a mile N
SE angle woods 88° 40' See pg 87.

We then drive East and get

April 24-1918
Cont-1

T 44 R 29

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89

the crew

Herald and his crew Begin @ I.M.
back right on line west (about) and

East bet 17th and 20. T 44 R 29

@ 400 ent line sup; 1750 L1; 1925.50

Hub. @ 2640 E the US notes call for

1/4 Cor bet 17th and 20

Bk Oak 10 S 34 W 20 = 13.20

Lind 10 N 79 W 88 = 58.08

Does not seem to find them and continues

East bet 17th and 20

@ 2700 Hub; 4715.80 Hub 5168 Hub

At Eminent line from the North

@ 54 South.

At this pt being Cor to Sec.

16-17-20-21. T 44 R 29

US Notes: Bk Oak 8" N 52° W ? 40. LKS = 2640 FT

Aspen 8" N 65° W ? 26 " = 17.16 "

" 8" S 60° W ? 32 " = 21.12 "

Bk Oak 10 S 18° E 65 " = 42.90 "

The US notes seem to be a little limited.
We find nothing and drive home.

Note: At 1/4 bet 19th and 30 US notes say

Aspen 8 N 7 E 66 LKS =

" 10 S 8 E 84 " =

John W. Carr

April 25-1918

Thursday:- Nesheim and Leann
drive Harold & crew to work he stays and
helps them while I stay in and figure
connections:

See plot on Page 87. and

Note: Someone either pushed these stones
North - one or both of them or Bartlett made
a hell of an un-excusible mistake

If: the stone @ the NE Cor of sec 30
is right where he put it - the $\frac{1}{4}$ m N side
of 30 is 4.50 ft to far N. and out of place
to beat hell E. and W. Wm. McCall and I
go in my car - drive to SW Cor sec 19
T 44 R 29. I show him my ITS and the
3. old BT stumps also my 3 new BTs
and the US B.M. He drives the car half
a mile East and waits for me - I go
the half mile E and check the whole
chain - one every 70 paces I find old
chainage marks and check off the
numbers and a coral and find same a/c.
being 13 chs plus about 23 paces to
stone (x) $\frac{1}{4}$ set by Bartlett: the old -- ??
I don't know what in hell to do
with this will see later: If the two
John W. Cress

April 25-1918
contd

T44 R29

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91

ends of the mile are correct - then the 1/4
should be up 80.60. Chs being 5319.60 Ft
US Chain and 5090.10 Baillitt's. Garrison's
and my chain, being 229.50 ft short = .04314
short. 2640 US would be 113.90 short = 2526.10
2679.60 US would be 115.60 short = 2564.00 ft

The stone (X) 1/4 on should go West
100.50

Figuring correction of 2 miles E on
North rd. 31²-132 T44 R29

See pgs 68- to 78

Total dist is 5342.70² & 5280 = 10.622.70 US
= 10.613.05 Ft my ch = 9⁶⁵ short =

25	30	10.622.70 Ft US Chain	29	29
36	31	= 10.613.05 " My "	32	33
		= Short 9.65		

I do not use the above but will set
according to Garrison chain of the
West half mile

After which my line will be thus:

as follows and straight for the whole mile	
5398.15 My ch	5214.90 My ch
5342.70 US	5280.00 US
2730.75 My ch	2667.40 My ch
2702.70 US	2640.00 US
Long 28.05	Long 27.40
65.10 Short	

John W Carr

92 April 25-1918 T 44 R 29
Cred

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Nesheim comes back about 2 PM.
and I take my car again and run light
near Cr. to sea

29-30-31-32 T 44-R 29

@ 5398.15 E. we chain South 5.73 ft and
find my compass stiff for the line corner
Set with Gunley Compass which reads 90°
on the random line which is almost the
line line E + W

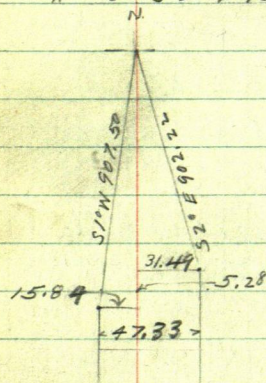
Setting compass over Harold's
random coming from the South @
5280 N. Van reads 8°30'

At 5280 + 6.10 = 5286.10 N. the
Cr to sea 29-30-31-32. bears E 31.65 ft

At this point US rules call for

Tam 8 S 1° W 1375 LKs = 907.50 FT

" 6 S 2° E 1367 " = 902.22 "



Old BT. Stumps found here
previous and old compass
staff sets in hole for corner

John W. Curo

April 25-1918
Continued

T44-R29

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93

I walk a mile East bet secs 29nd and 32

T44 R29 and find my stake OK.

Harold and his crew interest
their lines coming from the North and E
near Co. H sec 16-17-20-21 T44 R29

PI. Lat is 5448.70 S & 5342.30 E

over which he sets transit both night
N. transit telescopes: turn 1° R & run

South bet secs 20nd and 21 on
only a picket line but chained correct
run about 1/2 mile @ 7200 S cut meadow

Chain S. to stake 8100 S and then walk
half a mile N and with transit still
on lat 5342.30, turn 1° L. and run

East bet Secs 16th and 21 on picket
line: @ 6200 cut meadow 7200 E & L
@ 8100^E stake and quit for night.

Go fishing with McCall and get 2. suckers

John W. Cunn

94 148

T44 R29

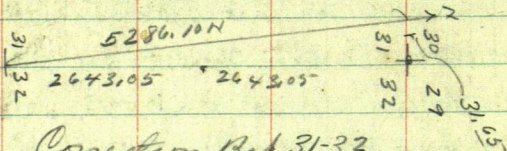
Maple Grove Twp.
Crow Wing Co. Minn.

April 26-1918

Friday: Nesheim and team bring
"Ted" and Fremont (same crew) who work
with Harold Nesheim-team and I go to
random line and @ 5398.15 E chain
South 5.73 feet where we set IM
being 2" x 50" boiler tube driven down
piling in big swamp for line. Cor to

Secs 29-30-31-32 T44 R29
6 ft circle mound. See Page 70.

At 5286.10 N on Harold's line
line this IM sets E 31.65



.00599 = Correction Bet 31-32

We drive half a mile S. and @ 2643.05 N

Chain E 15.82 ft where we set pt for

1/4 Cor bet 31 and 32 T44 R29

and set 2" x 36" IM boiler tube for line 7x
set in a 3 ft - circular mound - chain S 16 1/2
+ N 16 1/2 and set stake for N x S road limit

then chain E 16 1/2 and S 16 1/2 and set stake where
SEC road limit; then from 7x chain E 16 1/2
and N 16 1/2 and set stake where NE Cor Road

B.T.S. Broken Oak stump which was
John W. Cunn

April 26-1918
cont'd

T44 R29

149

95

have been old SE 1/4 B. near S 64° E 13.50'

Geo Fleischer RFD #3. Beamish lives
on S 1/2 NW 1/4 Sec 32, sees us out on
he may want his line run

I offer to do the Engineering work for \$25
+ board, and take his note for 90 days

Con O'Brien's Son in Beamish owns
80 N. of Fleischer and may pay \$10. has share

Note Miller owns 160. So and may pay

Fleischer gives me the name of Ed-O-Fred
Wippenman whose bad scamp and
cut the US 1/4 BT. @ 1/4 Cor on N. side Sec 8

T43 R29 it was big White Oak 18" diam and
was cut by Wippenman who owns NW 1/4 of 8.

T43 R29 School man saw him cut it year
ago last Winter. Sam Alderman would not
let Wippenman in his office

I will report this BT business to
U.S. Govt.

We drive West and put in Cor of Sec 31
@ 5280.5 the 1/4 on S. side of sec 31 T44 R29
sets 6.10 ft to 1. 5286.10 S and Cor 4. feet

@ 2040 S we chain 2 ft E and 3.05 S and
set 2 x 36" T 11 boiler ticks for line

Center of Sec 31-T44 R29. sets
N. of N. wheel hook of N. road

John W Carr

96 April 26-1918 ^{cont} T44 R29 148

We then drive north and with Henry Halvorsen and Nels P. Nelson as witnesses take up the stone with corr (+) and put in its place a 2" x 48" I M heavy Boiler tube for the line

1/4 Cor bet Secs 19 and 30 T44 R29 and with the same witnesses N J Nerheim and I drive E, take up the stone marked (+) and put in its place a 2" x 48" I M. boiler tube for line cor to sec

19-20-29-30 T44 R29

Nelson says he knows where stone runs sets 1. mile E. and also 2. miles E.

Nerheim & I drive North. I get lunch @ 3-30 @ M^cCall's and we go N E

At 2400 W we chain W to

2498 W + set Hub Turn 90° and run S

39.22 ft then turn 90° R and run West

90.20 ft and set 2" x 38" I M boiler

tube in big mound on NW slope of hill

1/16 Center of N. half Sec 18 T44 R29.

North 1/16 Line Sec 18-T44 R29

See page 60-58 @ 5264.85 W figured, the N 1/16 on W. side of 18 sets S. 79.78

Correction = .015153 1/2 foot
John W. Cunn

April 26-1918 T44 R29
Continued

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97

Correction

N $\frac{1}{16}$ line Sec 18 T44 R29

S. for each foot West

N 2588.20 W. $\frac{1}{16}$ in cm of N half bears

S. 39.22 ft IM.

275 W	goes S.	4.17	
300 "	" S	4.55	✓
600 "	" S	9.10	✓
780.80	" S	11.83	✓
900 "	" S	13.65	-
1086.1	" S	16.67	
1200 "	" S	18.18	✓
1500 "	" S	22.73	✓

1800	"		
1800 "	" S	27.28	✓
2376	"		
2100 "	" S	31.83	✓
2376	" S	36.00	✓
2400 "	" S	36.37	-
2498 "	" S	37.88	✓

2588.20 " " S 39.22 ft. $\frac{1}{16}$ in cm of ✓

N $\frac{1}{2}$ Sec 18 T44 R29 From which it is ✓

ft N. and ft W. to water's edge

N & S Can line 18-T44 R29

@ 3898.60 N this I at $\frac{1}{16}$ sets W 2.50 ft

Harold & Crest continue pushed in

East bet 16th & 21 T44 R29

@ 8220 E. ent Tam. Org 8700 Lf. 8850 East

meadow 10515 E Fence N & S

East bet 15th & 22

@ 10900 E Lf meadow: @ 11581 E

See Pg 101.

John W Carr

98 April 26-1918 T44 R29
cont-d

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fence NTS @ 11950 E stone pile

12391 E NW cor of house @ 12835 E

Fence @ 12950 E Swamp @ 13125 fence

NTS @ 13148 E cor of road NTS

13175 E Fence NTS 13200 E NW

stake and walk 1 1/2 miles West run

South bet 20-21 T44 R29

picket line. Cont'd @ 10555 S cor

of road E & W @ 10560 S. set stake
and hike home

April 27-1918

Saturday.

Nels J Nesheim & his team do NOT
come. Fremont Nesheim works with
Herald in one crew. I and my Ford &

Thos Gjerner go $1\frac{1}{2}$ miles S; 3 E; 1 N.
& $\frac{1}{2}$ mile West to corner 15-16-21-22 T44
R.29 where *U. S. nalis* call for.

15-16-21-22 T44 R29

From 6 S 89° W 137 Lks = 90.42 FT

" 10 N 43° W 170 " = 112.20 "

M^{rs} Love. (Flax PO.) lives^{on} and
owns 160 acres NW $\frac{1}{4}$ Sec 22. Says C
Surveyor Whitely established this
corner and drove an Iron Pin at corner of
from N + S and E

"Ted" and I dig up the iron pin over
which I slip a 2" x 50" I.M. being steel
board like driven over a 2 ft wood
point and set half its length in the big
meadow with a circular Mound 6' diam
fence 18" high for the line corner to

Sec 15-16-21-22

I find what I think is the wolf of Shald
Bts but do not take time to check them

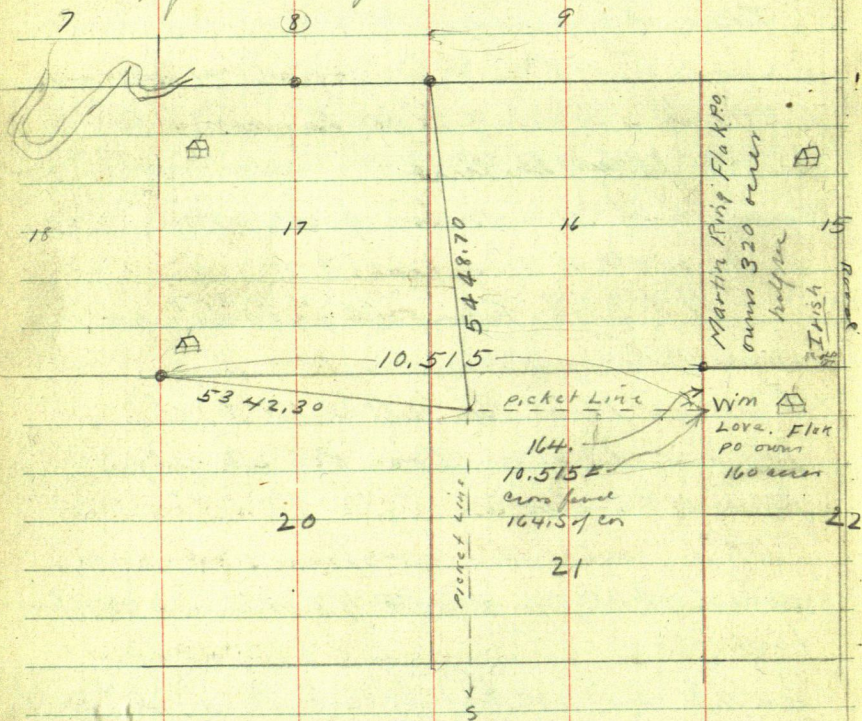
The Iron Pin is 1x18 inches and
John W Cuss

100 April 27-1918
Cald

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is left inside our iron Sec Cn
15-16-21-22 T44 R29

At 10.515. F.E. cross N x S with fence
from where the sea can hear North
along fence. 164 ft.



Martin Ring of Flock P.O. owns and
lives on W $\frac{1}{2}$ Sec 15 - T44 R29 (320 acres)
was within 10' this corner - He just came on
we had finished setting it. Ted & I
drive back to McCalls where he eats lunch
and I get dinner. Harold and young
John W. Carr

April 27-1918
Cont'd

T44 R29

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101

Norheim correct the E $\frac{1}{2}$ mile bet sec

8 and 17 as given on Page 45

Correcting

Also the E $\frac{1}{2}$ mile on N $\frac{1}{16}$ line

Sec 18, T44 R29 Sec Pg 97.

P.M.

Ted and I go in Ford - find Harold and Fremont

It is 3-30 too late to do much so tell
the boys to cut the line

West on N $\frac{1}{16}$ line of sec 18 to water's
edge and then to go home.

Harold + I go in Ford to Norheim's walk
a mile E and

Cor 16-17-20-21 T44 R29

At 5257.50 E, turn 90° L. and run
a picket line 16550 ft to intersection
with line run 90° West from Hub 5280 S

At 5280 S Turn 90° R and run West
7720 ft to P.I. Temp Cr 16550 ft N
of 5257.50 E At 5286.40 S cross old E
& W line of fence posts. At 5284.50 S
old S & W on post of fence set W 90°-12040
ft. One of old Whiteley's iron bolts buried
here but I will not recognize it. Its
telephone called - I pay McCall 30¢.

John W. Cunn

T44 R29
Maple Grove Twp
Crow Wing Co Minn

April 28-1918

Sunday:-

Corrections

E^{2d} W. Cen line Sec 31- T44 R29

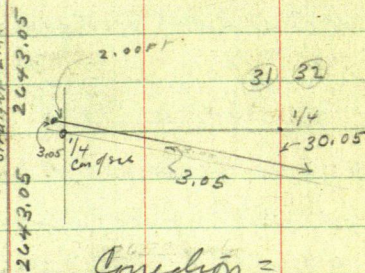
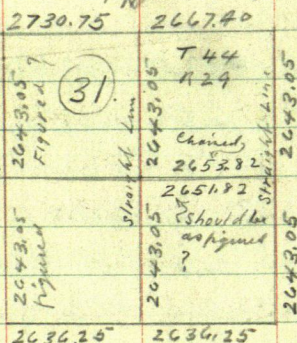
Note: Mt 5286¹⁰ N. the NE cor sets E 31⁶⁵ ft
and @ 5286¹⁰ S. the 1/4 on S. side sets E 4.00
See Page 65 and 94

Mt Hub 2640. S on random well set.

Hub 0.0. Temp Cen of Rec 31 Then turned
90° and run East end @ 2655.82 E

The 1/4 on E side sets North 30.05 feet

Mt 0.0. True Center sets 30.05 ft to set 2643.05
S. then E 2.00 feet Leaving the depth of
E half 2653.82 ft as chained by Herald
but it only figures 2651.82 2.00 ft off?



Correction =

2652. into 33.05 =
.01246 of foot N
for E side East
minus 3.05 ft

John W. Curo

April 28-1918
continued

T44 R29

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Corrections

E and W Cen Line Sec 31 T44 R29 = .01246

- 3.05,

300 E. goes N 3.74 - 3.05 = 0.70 North ✓

385.10 E goes N 4.80 - 3.05 = 1.75 North ✓

600 " " N 7.48 - 3.05 = 4.43 " ✓

900 " " " 11.22 - 3.05 = 8.17 " ✓

1200 " " " 14.96 - 3.05 = 11.91 " ✓

1320 " " " 16.45 - 3.05 = 13.40 " -

1500 " " " 18.69 - 3.05 = 15.64 " ✓

1545.60 E goes N 19.26 - 3.05 = 16.21 " -

1800 E " N 22.43 - 3.05 = 19.38 " ✓

2100 " " - 26.17 - 3.05 = 23.12 " ✓

2400 " " 29.91 - 3.05 = 26.86 " ✓

2640 " " 32.89 - 3.05 = 29.84 " -

Pg 12 and 13-

Corrections

N & S Cen Line Sec 18 T44 R29

See Page 97-80-60-58-54-46

Correction = .000641 = Tang = 0° 2' 12"

At 3898⁶⁰ N. the 1/16 in cen of N half sets West 2.50 feet WONDERFUL Check! as figured the length 3898.67 only 0.07 of foot this is the Second "wonderful check" See Pg 56.

John W Curis

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T 44 R 29

April 28-1918
Curtis

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Correction = .000641 = 0° 2' 12"

N 3rd S Cen line Sec 18 T 44 R 29

3 00	N	goes	West	0.19
6 00	N	"	"	0.38
18 18.30	N	"	"	0.52
✓ 9 00	N	"	"	0.58
✓ 12 00	N	"	"	0.77

✓ 15 00	N	"	"	0.96
✓ 16 56	N	"	"	1.06
✓ 18 00	N	"	"	1.15
✓ 21 00	N	"	"	1.35
✓ 24 00	N	"	"	1.54

✓ 27 00	N	"	"	1.73
✓ 30 00	N	"	"	1.92
✓ 33 00	N	"	"	2.12
✓ 36 00	N	"	"	2.31

✓ 39 00. N goes West 2.50 To 1/16 IM

Correction = .011191 = 0° 38' "

E 2nd W Cen Line Sec 18 = Sec Pg 55-57-43

5275.63 W (in Lake) goes S 59.04

@ 4262.77 W Knutson's IM. Sets S 47.70

4269.10 W goes S 47.78

3496.10 W " S 39.12

2086.80 W " S 23.35

1250.20 W " S 13.99

Rain about all day - I figure correction

John W. Curd

818.30 N goes W. 52

T44 R29

Maple Grove Trip

Crow Wing Co Minn

105

April 29-1918

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Monday: Rain + mist Nesheim
does not come Harold and I begin
connections till 9 am then go out and
make hubs + stakes - get our car ready
P.M.

Harold and I in the Ford drive
south to the town line so as to be able to
turn - chain on our wheels very muddy
drive half a mile N and check over the
line then cen of E half as given on
Page 103 '1" then drive $1\frac{1}{2}$ miles
N and $1\frac{1}{2}$ miles E get scythe then back
to M^o Callen. Then E fork in our Ford
over meadow + pastures to

$\frac{1}{4}$ Cn bet 16th 17 T₄₄ R₂₉

US notes call for: See Page 83.

We find the stump of the N.W. oak
from cen of stump Chain East 17.76
feet so as to produce the pt on
line N + 2 line. and find that:

At 2306.00 S. pt on true line
sets West 30.2° feet and Cen of old
NW B.T. bears West $30.2^\circ + 17.76 =$
47.96 feet Correction equals
2306. mls $30.20 = .013096$

John W Curo

106 April 29-1918 T44 R29
✓ Cont'd

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Correcting Bet

16th 17 = .013096 West.

At 2640.5 Chain West 34.47
set stake on line line Then from
Corrected Hub 2306.5. Chain South
along line see line 338.78 Ft
and set stake for line 1/4 Cn

See Page 83.

At 2640.00 S. The 1/4 Cn bet 16th 17
bears S 81°40'W 35.0° feet

We do not stop to place I.M.
but walk half a mile. South across
bog and @

5280.5 Chain West (.013096).
69.15 ft to line line and set line
back right on line line and run
South 52° Feet to

intersection with old End W fence
line where I set the line See Cn

At 5100 S. Chain West 66.79
set back shot on line line

At 5280. E. In Herald's
line line the Cn to see

16-17-20-21

bears N 4°55'W 161.1° Feet

We set a 2"x52" I.M. boiler
John W. Cunn

April 29-1918
could

T44 R29

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lute in a 4 ft mound which is
2 1/2 ft hi for line as to see

16-17-20-21 T44 R29

On sets over an iron bolt 1x16"
set by Surveyor Whelby years ago

An old fence bears North
and another East of our line On

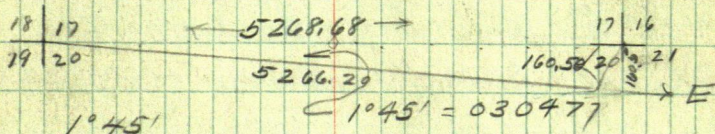
Walk 3/4 mile North and find
Herald's transit line coming 4
miles from the West intersects
N & S random line @ 1429. S.

Walk 1/4 mile South and go home
in Ford. @ 7 P.M. Lined

4°55'

$$\begin{aligned}\text{Sine} & .08571 \times 161.1 = 13.81 \text{ W} \\ \text{Cosine} & .99632 \times 161.1 = 160.51 \text{ N}\end{aligned}$$

At 5266.2° E. On 16-17-20-21
bears N 160.50 FT At 2633.1° E
1/4 bet 17 and 20 bears N 80.25 @ 90° to Random



$$\begin{aligned}\text{Sine} & = .03054 \times \\ \text{Cosine} & = .99953 \text{ into } 5266.20 =\end{aligned}$$

At 2645.07 S. the 1/4 On bet
16 and 17 bears West 34.63 FT

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T44 R29

Maple Grove Twp - Roads -
Crow Wing Co Minn

April 30-1918

Tues day: Nerheim & Son came
with liam. Harold and "Fre" correct
the half mile E thru cen of NW 1/4 viz
Correction

N 1/16 line E & W thru N 1/2 Sec 17.

5283 into $106.46 = .020151 = 1'09''$ N. & L

✓ 300	E goes N	6.05 Ft
✓ 600	E " N	12.10 "
✓ 729.70	" " "	14.70 "
✓ 900	" " "	18.14 "
✓ 1200	" " "	24.18 "
✓ 1500	" " "	30.23 "
✓ 1800	" " "	36.28 "
✓ 2100	" " "	42.33 "
✓ 2400	" " "	48.36 "
✓ 2640	" " "	53.20 "
✓ 2700	" " "	54.40 "

Habr and tall stakes set @ each place "v"

Nerheim and I go to Hab 2700 E

Chain W 66.90 ft to Hab 2633¹⁰ E. Then 90°

North 80.25 ft and set 2" x 38" I.M. ft

1/4 Cor bet 17th and 20 T44 R29

Coring

N & P Cor line Sec 17- T44 R29

At 5280 S. the 1/4 Cor bears N 74° 30' W

54.90 ft.

$$\begin{aligned} 74^\circ 30' \left\{ \begin{array}{l} \text{Sine} = .96363 \times 54.9 = 52.90 \text{ W} \\ \text{Cosine} = .26724 \times 54.9 = 14.67 \text{ N} \end{array} \right. \end{aligned}$$

At 5265.338 1/4 Cor sets W 52.90 Ft

5265.33 into 52.90 = .01004 West fr

each foot South = 0° 35'

John W. Cress

April 30-1918

T44 R29

Contd

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Correcting

N+S Can line Sec 17- $\frac{T}{44} - \frac{R}{29} = .01004$ W

✓ 300.	S. goes W	3.01
✓ 600	" "	6.02
✓ 900	" "	9.04
✓ 1200	" "	12.05
✓ 1500	" "	15.06
✓ 1800	" "	18.07
✓ 2100	" "	21.08
✓ 2400	" "	24.10
✓ 2640	" "	26.51
✓ 2700	" "	27.11
✓ 5265.33 S	" "	52.90

Harold "d" Fre correct this as per
while Norheim & I drive to $\frac{1}{4}$ Cor bet
pull up the wood stake and set

2" x 52" I.M. boiler tube in swamp
driven over 2" wood point in 6 ft
mound for line

$\frac{1}{4}$ Cor bet 16th & 17. T44 R29

Very old fence bears N + W.

We then drive NW and where the two
line lines cross we set a 2" x 38" I.M.
boiler tube in 4' mound of dirt for line

$\frac{1}{4}$ Cor in Cor of N. half Sec 17.

Norheim goes home @ 3.P.M. "Fre" cuts line
around lake. Harold & I correct line

N+S this cor of sec 17 as per page 105

checked this "r" Friday. We used
the cor. but no change

Jabm W. Conn

T44 R29
Maple Grove Twp
Crow Wing Co Minn

May 1-1918

Wed Harold and I work
alone in am.

Correcting

Center of Sec 18 T44 R29

E & W Center line

As we corrected the N & S cen
line yesterday as given on Page 104

Today we correct the E & W
Cen line as given on Page 57 at
all points checked thus: "r"

and where the two line lines
intersect we set a wood stake

for the True Center of sec 18

#2597.80 N the center 18

sets West .000641

At W the Cen sets

South .011191 See Page 57.

At the Center of sec 18 T44 R29
we want the SW angle but as this
corner comes in a small swamp
it is impossible to get only a short
right which is not sufficient

SW angle reads about $90^{\circ}24'$

So we measure N & S line line
102.20 feet to corrected corner line

John W. Carr

Branded State Land

May 1-1918
cont'd

N & S line. Then walk West 600 or 800 feet and from a hub on line E & W line chain $N 0^{\circ} 25' E 102.20$ Ft and set hub. Parallel to line E & W line. Then carry transit East set over hub 102.20 N of center - back sight nearly half a mile. South on line line and swing telescope to parallel hub to E & W line.

SW angle of line lines @ cen of Sec 18 - Reads $90^{\circ} 30'$
P.M.

Nesheim + son walk over and help

At Hub 4269.10 W. on seawall on E side of Lower Long Lake we chain South 47.78 feet and set hub on sand beach between Knutson's I.M. and the water focus on line line East. my line of sight splits Knutson's I.M. plank in the center. Wonderful check Knutson's I.M. sets $E 6.33$ feet

Knutson's I.M. is recorded in a deed - or two?
and from this I.M. we chain East 80. feet and set Hub in center
John W. Curo

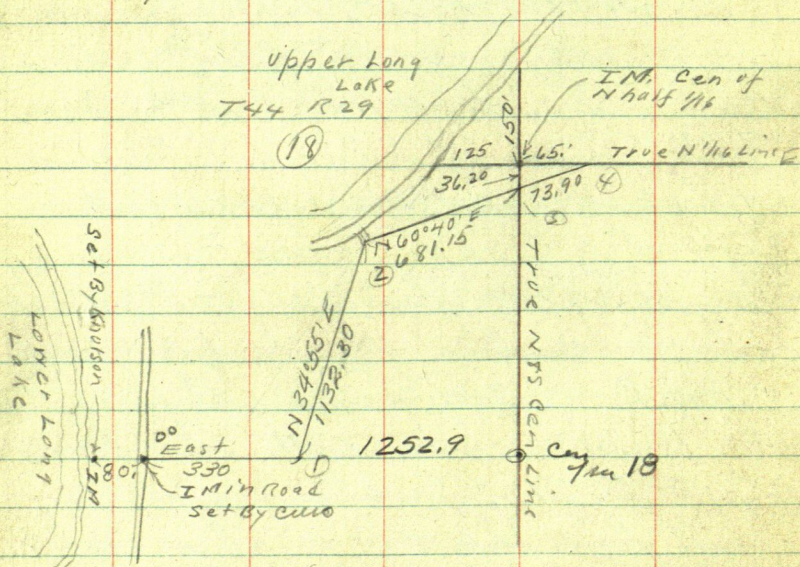
112 May 1-1918 T44 R29
Coud

of N and S County road and
from this hub in cen of Co road
run East along line center line
330 Feet (20 Rods) and set
Hub for road center

Thence N $34^{\circ}55'E$ 1132.30 Feet

Thence N $60^{\circ}40'E$ 681.15 ft to
pt on N & S Cen line 36.20 ft
South of I.M. Set for line $\frac{1}{16}$
in Cen of N $\frac{1}{2}$

Thence N $60^{\circ}40'E$ 73.90 ft
to pt on line E & W Cen line
65.00 ft East of I.M.



John W Coud

May 1st 1918

Contd

T+4 R29

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I drive Nesheim + son home in my Ford and we try to set $3\frac{1}{2} \times 36$ " Iron pipe for NW Co T+4 R29

Mr CH Ky 110. lives on SW 1/4 Sec 31 T 45 R 29 says there is a stone marked (+) at this Twp Co He and N J Nesheim try to dig it up and as they do not find it I drive back take Harold Curo - Wm McCall and his two small boys and at Co N

~~17-18-19-20~~ Curo's 18?

we pull up the wood hat and set a $2" \times 52"$ IM boiler tube. I cut a 6 foot ring in the frozen marsh but as the water is so annoying

McCall promises to finish surrounding this IM as soon as the swamp thaws.

John W Curo

May 2nd 1918

Town Board meets today to
pay off the crew Harald & I
set a 2" x 36" IM boiler tube
in cen of N & S C. road on the
line E & W Cen line of sec 18
T44 R29 at a point 80 ft East
of Knalston IM

Then pack all our luggage
and drive to Town Hall

My Bills are:

Camp work \$112.⁵⁰

Auto and expense 33.45

Harald's bill for Camp work - \$121.75

Total \$267.70. Brainerd State

Bank will pay these

about Oct 22-1919 I check the B.T.S. 44-29.

Oct 23-1919 I go to Bochar for Olson
Survey.

See New Book

115

June

1922.

↑ emo

Commissioner orders Co. surveyor to establish
Cor 1: 23-24-25-26-743-R30 Severt Har.
has (on uncl. of Severt Severtson Harkus)
offers to pay surveyor for all time over

Gorton

27 ⁵⁰
3 73