

87

MINING  
TRANSIT BOOK

343

PLEASE Mail this book to  
John W Curo  
Walker

GORMAN'S EPISTLE  
TO THE  
APOSTLE JOHN  
ON

SEC 32-144-31

15 CHAPTER  
17 to 69 VERSE

DEARLY BELOVED

# INDEX

Survey Sec 32, 144-31 Gorman 1-67

" Sec. 8, 140-31 Greene 67-69

Grand Forks - <sup>(1)</sup>  
Hackensack

Thursday Jan 7<sup>th</sup> 1915

Came to work for  
John W. Curo of Walker Minn  
Lv Grand Forks ND  
at 7-35 P.M. for Bemidji via  
G.N.Ry RR fare \$ -  
Ar Bemidji 1-45

Friday Jan 8<sup>th</sup> 1915

Arrive Bemidji 1-45  
A.M. Room 28 at Mackham  
Hotel Bemidji

Leave Bemidji 8-15 A.M. via  
M & S Ry. RR fare to Hackensack  
70¢? Ar Hackensack  
10-01 A.M. Dinner and room  
6- at Spains Hotel

Met Curo at the train and  
stay in Hackensack all day

Saturday Jan 9<sup>th</sup> 1915

Curo - Roy Bryant - Harold Curo  
and I Left M.C. No 14 - 140-31  
from both old B.T. Stumps walk  
to Anton Linneberg's farm & back  
to Spains for dinner. Take P.M. train  
to Walker. Curo is to pay train for  
4 meals & 1 bed for me.  
Herbert J. Jensen

2) Wilkinson

② 32-144-31

Saturday Jan 9-1915 Continued  
John & Curo + I to Hackensack  
at 4-19 P.M. RR fare to Walker  
 $28 \times 28 = 56^*$  paid by Curo

Copy field notes of Sec 32-  
144-31- for the purpose of  
subdividing Sec 32-144--31

5-45 P.M. take bus to  
GN Depot  $25 \times 25 = 50^*$   
Bus fare paid by Curo

L. Walker @ 6-14 P.M.  
Via GNRy to Wilkinson fare  
 $20 \times 26 = 52^*$  paid by Curo

At Wilkinson 6-42 P.M.  
Supper and over night with  
John Noonan Hotel man Curo  
and I sleep together in bunk  
house

Herbert A. Lorman

January 1915 Meals and Lodging

|        |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |
|--------|-----|-----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|
|        | 7   | 8   | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24  | 25 | 26 | 27 | 28 |
|        | SUN | SUN |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | SUN |    |    |    |    |
| Curo   |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |
| Gorman |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |
| Curo   |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |
| Noonan |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |
| Gorman |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |

January 1915 Meals and Lodging

|        |    |    |    |
|--------|----|----|----|
|        | 29 | 30 | 31 |
| Curo   |    |    |    |
| Gorman |    |    |    |
| Curo   |    |    |    |
| Noonan |    |    |    |
| Gorman |    |    |    |

Wilkinson

④

32-144-31

④

Sunday Jan 10-1915

Survey of Sec 32-144-31

Old field notes of the previous surveys of this section are as follows

Curo's field notes of Feb 5-1905

" read as follows Feb 5-1905 John W

Curo - Joseph Marsholek -

E. W. Shapley - L. Shapley - and

O. T. Mills go to the  $\frac{1}{4}$  corner bet

Secs 29 and 32-144-31 where

US notes call for a stake and the following bearing trees

Norway Pine 12 N  $32^{\circ}$  W 622 Lks = 410.52 ft)

We find the bearing tree from which we run S  $32^{\circ}$  E 410.52 feet where we find the old stake - We set a new

stake and mark a new bearing tree which is a 5 inch aspen which stands S  $76^{\circ}$  W 12.50 ft distant signed

John W Curo + dated Feb 5-1905

Curo's notes of the establishment of this same  $\frac{1}{4}$  corner and dated August 13<sup>th</sup> 1914 read as follows: Aug 13-1914. John W  
Herbert & German

32-144-31

(5) Jan 10-1915 (5)  
continued

Curs H. G. Knopf and crew go to the  
1/4 Corner bet Secs 29 & 32-144-  
-31 previously established by Curs  
where we find the old 1/4 stake

The stump of the old US bearing  
line still stands plainly marked  
and checks out for course and dist-  
ance with the old stake We set  
a new stake and mark new bearings

as follows @ <sup>9° 30'</sup> ~~8° 30'~~ <sup>39° 33' E</sup> ~~58.25~~ 57.30 ft  
Norway Pine 14, S <sup>43° 24'</sup> ~~40°~~ <sup>41° 30' E</sup> 55.40, 55.17  
Twin poplars 10, N <sup>43° 24'</sup> ~~41° 30' E~~ 55.40, 55.17  
to flat spot at base of trees for  
bearings to the true 1/4 Corner bet  
Secs 29 and 32-144-31

established by Curs Aug 13-1914."

On Nov 2nd 1914 Roy Bryant  
A. Born, August Shoemaker and  
an oxman fur-  
-nished by H. G. Knopf run a tran-  
sit line South and West from  
the 1/4 Corner bet 29 and 32-  
we find their old cut out line

Robert S. Searman

6) 32-144-31

© Jan. 10, 1915 cont'd.

Jan 10<sup>th</sup> 1915 continued

Norbert D. Gorman Transitman  
new 'Gulley' transit in perfect  
adjustment - we run double cen-  
ter hub. John W. Cus - and  
Uri Shapley Chaimen 100 Chicago  
steel tape plumb-bob chain  
Louis Shapley a man  
Hm Knaf

We go to the  $\frac{1}{4}$  corner bet  
secs <sup>51 32</sup> on S line of sec. 32-144-  
31. Where U.S. notes call for  
a post and the following  
bearing trees:

Asp. 4, S  $75^{\circ}$  E 40 Lks. (26.40  $\pm$  t.)

Asp. 3, N  $8^{\circ}$  W 47 Lks (31.02  $\pm$  t.)

We find the old stake and  
the stumps of the old SW  
bearing tree plainly marked  
from which we set a  
hub and tack for the  
true  $\frac{1}{4}$  cor. and mark  
new bearings as follows:

Poplar 8, S  $18^{\circ} 10'$  W 34.00  $\pm$  t.

Tam. 7. N  $73^{\circ} 47'$  W 9.42  $\pm$  t.

@  $9^{\circ} 45'$  Var. To head of  
Norbert D. Gorman.

32-144-31

Jan 10 1915 cont'd (7)

20d spike driven in flat spot at base of tree.

We start a line North @  $7^{\circ}$  Var.

Curo and I ran a compass line North thro 32 on  $8^{\circ}30'$  Var. to get a line on the buildings that may be in our way.

P.M.

Begun at the true  $\frac{1}{4}$  cor. on South side of Sec 32-144-31 run west on  $9^{\circ}45'$  Var. E.

At 100' set pin at  $100.4^{\circ}$  center of G. N. R. R. bearing NE & SW.

@ 600' Stake

@ 1000' Hub being spike in sand.

@ 1180' " " " " "

Var. changes to  $8^{\circ}35'$

@ 1200' Stake

@ 2078.25' Hub spike in sand  
Var. reads  $8^{\circ}25'$

@ 2095' W enter road NE & SW.

2100' Stake quit for night

Herbert, D. Gorman

(8)

(8)

Monday Jan. 11, 1915.

Same crew - continue W  
at 2640 temp sec. cor.  
the true cor. sets 0.40 West  
and 51.78 South

at 2640.40; true cor to sec's  
31-32-56 T 143-144 R. 31  
set South 51.00 zt.

at this point U.S. notes  
call for post and  
following bearing trees:

asp. 4 S 58° W 72 lks. (47.52)

asp 4 N 44° W 97 " (64.02)

asp 3 N 77° E 99 " (65.34)

asp 4 S 68° E 130 " (85.80)

We find the southeast  
bearing tree standing  
green, also the tall  
stump of old NW bearing  
tree plainly marked.

From which we set true  
corner by proportionals  
measurement.

Distance between  
NW & SE B't's via courses  
is  $64.02 + 85.80 = 149.82$  zt.

(9)

32-144-31  
Wilkinson

(9)

Time Sheet Survey of Sec 32-144-31  
Dec. 9 - November 1914

|                | 1 | 2    | 3 | 4 |               |
|----------------|---|------|---|---|---------------|
| Roy Bryant Eng |   | 1    |   |   | Paid to Curs. |
| Expense        |   | 1.40 |   |   |               |
| A Boen ch      |   | 1    |   |   |               |
| Hug Shoemaker  |   | 1    |   |   | Paul Hanson   |
| H H Knopf ex   |   | 1    |   |   |               |
| John W. Cure   |   |      |   |   |               |
| Exp            |   |      |   |   |               |

Continued on page 11.

10) Jan 11<sup>th</sup> 1915  
cont'd

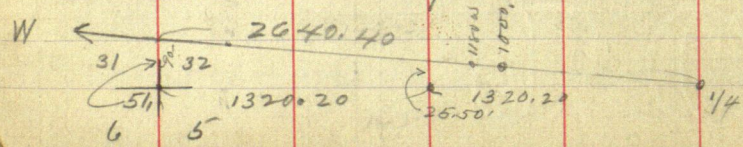
(10)

32-144-31  
Wilkinson

U.S. chain and is 148.72  
our chain or 1.102t short  
By proportion 64.02  
U.S. chain = 63.55, our chain  
85.80 2t, U.S. chain = 85.17 ft  
our chain.

We find the old N.E. post at which  
point we drive a small green hub  
for the true corner from which  
the old NW B.T. bears N 44° W 63.55 ft  
the old SE B.T. " S 68° E 85.17 "  
@ 8° 45' 50" E.

We mark new bearings as follows  
WP 14 S 50° 36' W 28.75 2t  
WP 14 S 64° 27' E 55.65 2t.  
WP 12 N 40° 18' W 56.95 2t  
WP 14 N 56° E 77.00 2t  
To head of 20<sup>th</sup> spike  
driven in flat spot  
at base of trees @  
8° 45' E for the true  
corner to sec's 31-32-5-6.  
between Twp 143-144-31.



# Time Sheet Continued from Page 9

## Survey of Sec 32-144-31

Jan 1915

|                 | 9    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|-----------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| ND Gorman Eng   | 1    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| Expense         | 1.01 | 0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| W. Curo Eng     | 1    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| Expense         | 1.01 | 0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3 AM Knox       | 0    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 4 Mr Shapley Ch | 0    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 5 Louis Chapley | 0    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

November 1915

Dec 1915

10 F. N. Maloney

10 Nick Heng

9 Louis Shapley

19 20

1 1

1 1

42

Time sent to Wilkinson

2 1

34 Making map

32-144-31

(11)

12) ✓

(2)

Jan 11 1915 continued

Correcting the South  
boundary of the S W  $\frac{1}{4}$ [26100]  
[001932]

@ Sec 32-144-31

at 2640.40 West. See

cor set South 51.00  $\pm$ .

@ 7078.25 chained South

39.49 set spike and tall  
stake marked "true sec line".@ 1320.70 W we chain  
South 75.50 at which  
point we drive spike  
for the true West 16 cor.  
between sec 32-5. T 144-743-31 and mark  
New bts Vig.Tiplar 12 S  $63^{\circ}50'E$  56.20  $\pm$ .WF 10 S  $14^{\circ}50'W$  53.00  $\pm$ .

8'45' Var.

1180 gaes S

1000 " " 19.32.

Quit for night. Curo leaves for Walker  
for field notes @ 640 PM (via Brandy)  
Still staying with John Neuman

Norbert S. Gorman

(13)

13

N  
↑

E  
→

2687

0.40  
1/4 SPARK 1/4  
0.90  
H119

37.85 ft

27.80 ft

24.00

1905

57.50 ft

New 1/4 Sec 6, 1/4 Sec 6, 1/4 Sec 6, 1/4 Sec 6

156.45' E

10.15

Salby Creek 1905

New 1/4 Sec 6, 1/4 Sec 6, 1/4 Sec 6, 1/4 Sec 6

53.90' E

8' 15" S

5.07

32

144-31

-5295.50

2647.10  
2648.40  
1324.20

1320.20

1320.20

2640.40

1/16

1326.75

1326.75

2653.50

2.75

5.50

51.00 ft

(14)

(14)

Jan 12 1915 Tuesday  
 Norbert D. Gorman, Transmitter  
 Uri Shapley Charnman  
 Louis Shapley Axeman  
 William Knuetz Axeman

Started at previously  
 established stake on SW cor  
 of sec. 32-144-31 run a random  
 line N on  $8^{\circ}30'$  Var.

Started chaining at cor.  
 stake sec's 31-32-5-6 chained  
 N set random line stake  
 & hub (spoke in ground) at 600 ft  
 continued chaining a set  
 random line stake & hub  
 at 1320 ft. Chained N on  
 random line and set stake &  
 hub at 1920 ft.

Beg @ Cor. 5-6-31-32 Tap 143-144-31  
 Run N bet 31 & 32  $\vee 8^{\circ}30' E$

@ 600 Hub @ 1320 Hub. @ 1884 Hub @ 2640 Hub.

Temporary  $\frac{1}{4}$  bet sec's 31 & 32. The line  
 $\frac{1}{4}$  cor sets North 8.40 ft and East 10.15 ft  
 or at 2648.40 the  $\frac{1}{4}$  sets East 10.15 ft

Continue Transit line North: @ 2654

Norbert D. Gorman

Jan 12-1915  
Cont'd

(15) 32-144-31  
Wilkinson

✓ (15)

center of County road which bears E 7 W

@ 3340 Hub 3960 Hub Temp  $\frac{1}{16}$

@ 4560 Hub. @ 5280 Hub. The line con  
to Secs 29-30-31 and 32-144-31

Sets 15.57 ft North and 37.85 ft East  
on at 5295.50 the line corner sets  
East 37.85 ft

At the  $\frac{1}{4}$  corner bet secs 31 and 32  
144-31 US Notes call for a post and the  
following bearing lines

Aspen 4 N 55° W 3. Lks = 1.98 feet

Aspen 4 S 62° E 10. " = 6.60 "

On Feb 6-1905 John H Curo  
who was then County Surveyor of Cass  
County Minn found this stake and  
old bearing lines from which he  
set a new post being a 4x4 Tamarac  
post and marked new bearings as  
follows

Tam 75 39° E 64.75 feet distant

WP 6 N 56° 45' E 57.50 ft " to face of tree

The post is gone but we find both  
new bearing lines still standing which  
check out perfect with a stone which  
was buried in place of the stake

08° 15' E. Quit for night. still staying  
with Noonan.

Marbert D Gormann

16

32-144-31

16

Wilkinson

Wednesday Jan 13<sup>th</sup> 1915

Gorman - Shapley Bros & Knowl work.  
 Start Bill Knowl and Lewis Shapley  
 cutting line North thro Cen of West half  
 of Sec 32. Mr Shapley and Gorman  
 go to the  $\frac{1}{4}$  previously established bet.  
 29 and 32 - 144-31 and <sup>from Hub set 0.705 to corner</sup> then west  
 over the transit line run by Bryant  
 @ 600 Hub 1320 Hub 2120 Hub 2640 Hub.

The line comes to Secs 29-30-31-32  
 144-31 sets West <sup>47.00</sup> ~~44.80~~ feet and 27.80  
 feet South or at <sup>2687.00 W</sup> ~~2687.80~~ the corner  
 sets South 27.80 ft Total length 2687.00  
 W ←  $\xrightarrow{\text{true } 2687.00 \quad 0.99 \quad \frac{1}{4} \text{ stake } \frac{1}{4} \text{ mile}} \text{then}$  { This is  $\frac{1}{4}$  on  
 N. side of 32-  
 144-31  
 27.80 ft N side 32-144-31

P.M.

Beg @  $\frac{1}{4}$  Cor bet 5 and 32 run North  
 $66^{\circ}$  E thro Cen of 32-144-31 full crew  
 @ 600 Hub - at about \_\_\_\_\_ Corn to N.  
 RR track which bears NE & SW  
 @ 1320 Hub At \_\_\_\_\_ Hub @ 1920 Hub  
 2640 Hub Temp cen of Sec 32-144-31

Quit for night Still with John  
 Noonan

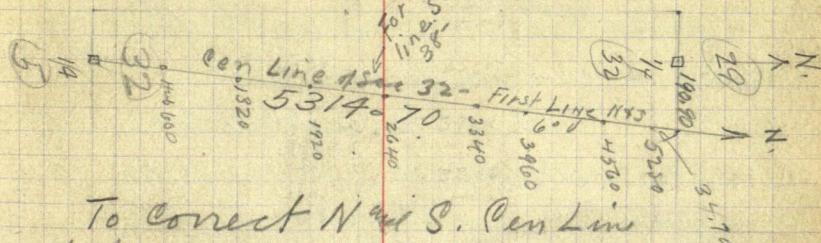
Marbert A Gorman

(17)

(17)

Sec 32-144-31

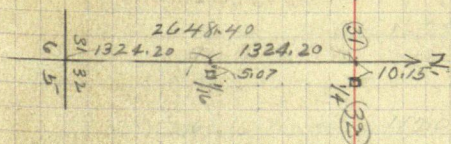
Wilkinson

For 2nd  
line Sec pay

To correct N<sup>th</sup> & S. Pen Line  
of Sec 32-144-31 [0359192]

|         |        |          |
|---------|--------|----------|
| 5314.70 | goes w | 190.90 ✓ |
| 3960.00 | " "    | 142.24 ✓ |
| 3340.00 | " "    | 119.97 ✓ |
| 2640.00 | " "    | 94.83 ✓  |
| 1920.00 | " "    | 68.96 ✓  |
| 1320.00 | " "    | 47.41 ✓  |
| 600.00  | " "    | 21.55 ✓  |

To correct West side  
of SW 1/4 32-144-31



[0003832]

At 2648.40 N. E. 1/4 Sec 31 & 32 sets East 10.15 ft  
1884.00 goes East 7.22  
1320.00 goes 4.20 N to 1324.20 Then E 5.07 to 1/16  
600.00 East 2.30 ft 1/16 line sec line

Meritt S. Garrison

18

18

Thursday Jun 14-1915

Still Surveying Sec 32-144-31

Continue Transit line North thro

Cen of 32. Same crew

@ 3340 Hub @ 3960 Hub Temp  $1/16$ @ 4560 " @ 5280 Hub Temp  $1/4$ The line  $1/4$  bet Secs 29 and 32-144-31  
sets 34.70 ft North and 190.90 ft westor at 5314.70 ft N the  $1/4$  Cor sets 190.90 ft  
west.P.M. Beg @ Hub set 0.40 W  
0.90 North of  $1/4$  bet 29 and 32-144-31run East  $9^{\circ}30'$  on about@ 600 Hub. @ 695 about, cross Great  
Northern R.R. track which bears NE & SW

@ 1320 Hub @ 1920 Hub @ 2640 Hub

Temp NE Cen of 32. Leave this line

and Beg @  $1/4$  bet Secs 5 & 32  
143-144-31 and run East  $9^{\circ}45'$  on

@ about 200 ft enter swamp

Quilt for night. Still  
staying with John Noonan

$29$  0.40  
 $1/4$  0.90  
 $32$  695.

S.W.

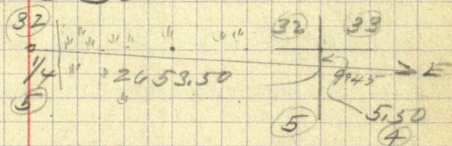
&gt; E

Herbert A. Gorman

Friday Jan 15-1915

Continue East same crew: @ 600 stake  
@ 1370 Hub limp 1/4 @ 1920 stake,  
@ 2640 limp Cor to Secs 4-5-32  
33-143-144-31

The line Corner sets East 18.50 ft  
and North 5.50 ft or at 2653.50  
the Cor sets North 5.50



at this point being the corner to  
Secs 4-5-32-33 - bet Twp's 143-  
144 Rg 31 US notes call for post and  
the following bearing ties

Dead Tam 3 N 49° W 95 Hrs = 62.70 ft

" " 3 N 54° W 100 " 66.00 "

" " 2 1/2 S 58° W 55 " 36.30 "

" " 3 S 52° W 59 " 38.94 "

We find the old stake set well  
into the mud from which the two  
NW Bearing ties stand correct  
for course and distance.

We take new bearings as follows  
spike in cedar post 4" bears N 52°  
West 65.60 feet distant

Herbert J. Gorman

(20)

Wilkinson

(20)

32-144-31

Jan 15-1915 Continued  
PM

Begin at a point 1320 feet North of the  
SW Cor of 32. I start two men  
cutting line East @ about  $9^{\circ}45'W$ .  
this Cor of South half of sec 32

then correct the South boundary  
of the  $\frac{1}{4}$  of 32-144-31 as follows  
<sup>E 02672 N</sup>

@ <sup>Hub</sup> 1600 ft East of the  $\frac{1}{4}$  Cor on S side of  
32. I chain North 1.24 set stake marked  
"true line" @ 1320 I chain East 6.75  
ft to 1326.75 then North 2.75 ft  
where I set a  $3 \times 3 \times 24$  inch hem  
stake for the true East  $\frac{1}{16}$  Cor bet  
secs 5 & 32-143-144-31

and mark new bearings as follows  
Dead Tamarac  $7S 51^{\circ}49'W$  37.00 ft dist  
" "  $6N 34^{\circ}15'E$  46.50 "

$19^{\circ}30'E$

at Hub 1920 I chain North 3.98 ft  
and set stake marked "true line"  
@ 2653.50 chain North 5.50 ft to  
true corner to sec 4-5-32-33  
143-144-31 previously established  
Quit for night. Still with Noonan

Herbert S. Gorman

32-144-31

(21)

Wilkinson

(21)

✓

Saturday Jan 16-1915

Setting transit on a Hub 2640 ft  
East of the  $\frac{1}{4}$  Cor bet 29 and 32144-31 & focus telescope on the line  
SE Cor of 32- and cause a spike  
but to be set in the big open  
swamp near the  $\frac{1}{4}$  Cor bet 32  
and 33- 144-31Then carry transit to SE Cor of  
32. focus telescope on hub spike  
about half a mil North and  
cause a line of pickets to be set  
PM

Beg @ SE Cor of 32- 144-31

Chain North along line of pickets.

@ 600 stake. @ 1320 stake (not set  
with transit) at 1920 stake@ 2640 stake Temp  $\frac{1}{4}$  @ 3340 stake

3960 stake @ 4560 stake @ 5280

stake Quit for night

Take 7.40 PM train to Bemidji

Sunday Jan 17-1915

Do not work. All day in Bemidji

Robert D. Gorman

22) 32-144-31

(22) Wilkinson

Monday January 18-1915  
Gorman <sup>Pennings</sup> <sup>Wilkinson</sup> <sup>on 7:40</sup> <sup>P.M. train</sup> <sup>Wm. Knapp</sup> and  
Lewis Shapley & men Uri Shapley  
assisting Gorman in chaining 100'  
Still life Gully transit

Begin @ the East  $\frac{1}{16}$  Cor bet sec  
5 & 32-143-144-31 run North  
the East half of Sec 32- in big  
swamp- small scattering dead  
Lamarac. Var about  $9^{\circ}15'E$   
not chained

Quit for night

Tuesday Jan 19-1915

Begin @ West  $\frac{1}{16}$  Cor bet 5 & 32  
run North thro West half of 32-144-31  
Run about a mile North without chaining  
Then at 4. P.M. we begin at a  
point 1320 feet North of the SW Cor of  
32. and continue our transit line  
East thro the Cen of the South  
half of Sec 32-144-31 finished  
the mile East and Quit for night  
Still with John Noonan

Herbert A Gorman

32-144-31

(23)

Wilkinson

(23)

Wednesday Jan 20-1915

Same crew We begin at the  
East  $\frac{1}{16}$  bet 5 and 32 and chain  
the mile north this end of East half  
of Sec 32-144-31

@ 600, 1320, 1920, 2640, 3340,  
3960, 4560, 5280 set measure  
stakes but do not use transit

Wm Knowl quit at 9 AM and gets  
in only  $\frac{1}{4}$  day

P.M.

I lay Lewis Shopley off at noon and  
he gets in  $\frac{1}{2}$  day

Gorman and W. Shopley chain  
all P.M. and get in full day

Begin @ West  $\frac{1}{16}$  bet 5 and 32 Chain  
North this West half of 32-144-31

@ 600, 1320, 1920, 2640, 3340, 3960  
4560, 5280 set measure stakes  
but do not use transit

Quit for night

Harbert L. Gorman

(24)

32-144-31

(24)

Thursday Jan 21-1915

Beg @ a point 1320 feet North of the  
 S.W. Cor of 32 being 4.20 // South  
 and 5.07 // West of the line  $\frac{1}{16}$   
 run Transit line East the S half  
 of 32-144-31  $\angle 9^{\circ}30' E$  (about)  
 @ 1320 spike @ 2640 spike @ about 2765  
 cross R.R. @ 3240 enter swamp  
 @ 3960 spike @ 5280 spike in ice near  
 West bank of Steamboat River

Gorman Uri Shapley work all day  
 Louis Shapley and Wm Knopf get in  
 $\frac{1}{2}$  day in P.M.

Curo comes from Hackensack  
 to Walker and copies notes for this  
 survey and is on his way to Wilkinson

Friday Jan 22<sup>nd</sup> 1915

Curo comes from Walker  
 via Bemidji arrives at Wilkinson  
 7.40 A.M.

Curo Gorman Shapley Curo  
 and Wm "Bill" Knopf go to the  
 Corner to Secs 29-30-31-32  
 144-31 where US notes call

Herbert D Gorman

Jan 22-1915  
CON

(25) 32-144-31  
Wilkinson

V (25)

for post and the following bearing  
lines:-

Norway Pine 11 N 13° E 225 lks = 148.50 ft

" 12 N 32° 30' W 28 " = 18.48 "

Aspen 4 S 39° E 14 " = 9.24

We find the stump of the NW  
tree plainly marked and the NE  
tree standing green and plainly  
marked. But they do not quite  
check out for course and distance.

We set the corner by proportion  
as follows:

We first establish a <sup>line</sup> meridian thro  
the NE tree from which we run a  
line of pickets 150 feet true South.

We then find that the old NW  
B.T. stump stands only 28.00 ft

West of this line of pickets and on  
this NW B.T. should stand 44.17 ft  
West of the NE B.T. we proportion

the distance and set a line of pick-  
ets true N & S to establish a true  
meridian N & S proportionally bet  
ween the two old B.T.s.

According to the US notes  
the NW B.T. should stand 10.48

Robert D. German

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Jan 22-1915  
CONTINUED

(26)

144-31  
Wilkinson

✓ 16 feet West of the section line and the NE line should stand 33.69 ft East of the sec line making a total distance between two parallel lines drawn thro the bearing trees 44.17 feet but as the distance is only 28.00 ft we find it 16.17 ft short  
By proportion

$$\begin{array}{l} 33.69 \text{ ft US} = 21.36 \text{ ft my chain} \\ 10.48 \text{ " US} = 6.64 \text{ ft my chain} \end{array} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} 28.00$$

28.00

We set a line of pickets to mark the true Meridian which passes 6.64 ft East of the NW B.T. and 21.36 " West of the NE B.T.

and from the NW B.T. we chain S  $32^{\circ}30'E$  to our picket line Thence South along the true meridian to a point 18.48 feet distant from the NW. bearing tree and set Hub "A"

for temporary sec cor

From the NE B.T. we chain S  $13^{\circ}W$  to our picket line Thence South along the true meridian to a point 148.50 ft distant from the NE B.T. and set Hub "B"

Herbert A. Corvau

Jan 22-1915  
CONTINUED

(27)

144-31 -  
Wilkinson

✓

(27)

which is 7.10 ft South of Hub "H"  
showing that the total distance of  
166.98 feet US chain is off 7.10 feet  
By proportion The NW BT of 18.48  
ft US is off 0.78 of a foot and the  
NE BT is off 6.32 feet and the corner  
should set equidistant between  
hubs "H" and "B"

From Hub "H" we chain South 0.78 of  
a foot to a point 19.26 feet from the  
NW BT at which point we drive  
a spike for the true Sec Cor and from  
Hub "B" we chain North 6.32 feet to  
the true corner which is 142.18 feet  
from the NE BT

As it would be impossible to  
place this corner in any other spot  
we set a 4x4x36 inch post for  
the true corner to Secs 29-30  
31-32-144-31 from which  
a spike in old NW BT stump  
bears N  $16^{\circ}37'W$  19.08 ft distant  
Old NE BT bears N  $80^{\circ}12'E$  142.18 ft dist.  
Spike in 8 inch dead NP bears N  $80^{\circ}12'E$   
West 19.50 ft distant  $8^{\circ}30'E$

Herbert J. Garman

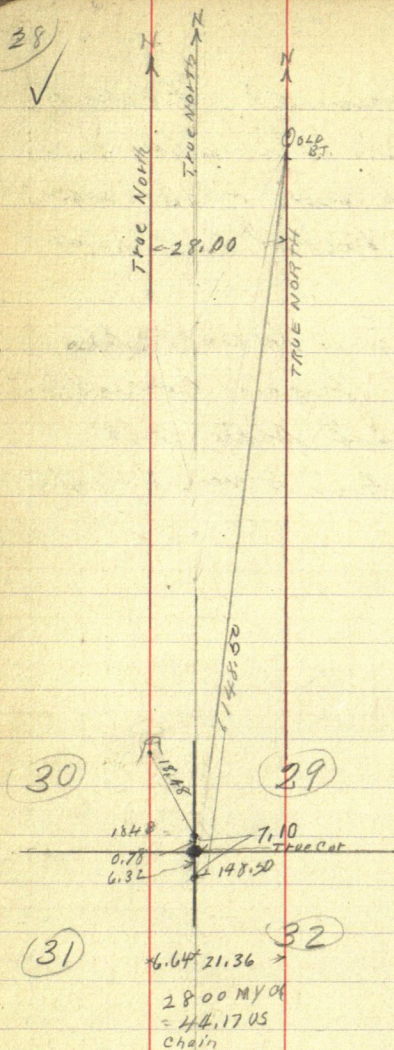
28/

✓

(28)

Jan 22-1915  
continued

144-31



Robert D. Lerman

144-31

(29)

Wilkinson

29

January 22-1915 continued Friday

We check chain the West side of the NW 1/4 also the North side of 32-144-31  
Shapley Bros and Knopf did not work in P.M.

Curo + Gorman try to locate the NE Co of 32- and figure corrections

Curo and Gorman stay with John Noonan - sleep in bunk shanty

Robert S. Gorman

✓30

(30)

Saturday Jan 23<sup>rd</sup> 1915

Only Curo and Gorman work  
We figure corrections and look for  
bearing lines to NE Co. of 32-144-31  
P.M.

Curo & Gorman check chain South side  
of SE  $\frac{1}{4}$  of 32.

Begin @ Cor to 32-33-4<sup>th</sup> and 5<sup>th</sup> - bet  
143 and 144-31 we chain North along  
a line of stakes

at 165.60 set temporary Meander  
Corner <sup>N.E. side of</sup> enters R bank Steamboat  
river which runs SE at this point  
US. males call for post and  
Tamarac 3 N 84° W 77 Lks (= 50.82 ft)

Tamarac 4 S 76° W 83 Lks (= 54.78 ft)

All are gone and we continue North  
At 344.52 feet set stake for Temp-  
orary Meander Corner for SE Co. of Grant  
Lot N<sup>o</sup> 5 - See 32-144-31 L<sup>y</sup> Left  
bank of River at which point US males  
call for post and following B.T.S.

Tamarac 3 N 24° E 760 Lks (= 501.60 ft)

All are gone Continue North.

At 901.56 set stake for temp  
M.C. at NE Co. of Lot 5.

Robert D Gorman

Jan. 23, '15  
continued

(31)

N 22 82 71 S 2 N

(31)

Enlin Left bank of steamboat river  
at which point US notes call for  
Tamarac  $35 64^{\circ} E 343 Lks (= 226.38 ft)$   
"  $35 71^{\circ} E 329 "$  ( $= 217.14 ft$ )

all are gone and we continue North

At 1320 set temporary  $1/16$  Cor on ice.  
At 1558.26 set stake on ice 20 ft  
East of West bank of river for temp  
MC on East side of Lot 4 - See 32  
144-31 where US notes call for

Tamarac  $5 N 61^{\circ} W 195 Lks (= 128.70 ft)$

"  $5 N 75^{\circ} W 190 "$  ( $= 125.40 "$ )

All are gone and we continue North

at 1700 L. Right bank of river

At 2640 ft set temporary  $1/4$  Cor  
bet Secs 32 & 33 - 144-31 where  
US notes call for post and:

Tamarac  $35 49^{\circ} W 105 Lks (= 69.30 ft)$

"  $3 N 75^{\circ} W 65 "$  ( $= 42.90 "$ )

All are gone and we continue North

At 3300 ft set stake for temporary  
Mandarin Corner on East  
side of Lot 3. Enlin right bank  
of river at which point US notes  
call for post and the following  
Herbert S. Garman

32

Jan. 23, '15  
continued

(32)

144-31

X27K275076

bearing trees:

Tamarac 5 S 85° W 120 Lks (= 79.20 ft)

" 4 S 75° W 107 " (= 70.62 ft)

All are gone and we continue North

At 3482.16 ft set stake on rise for  
limpory MC for SE Cor of Govt Lot  
N-1- Sec 32-144-31 where US notes

Call for post and

Tamarac 4 N 3° E 400 Lks (= 264.00 ft)

" 4 N 4° E 500 " (= 330.00 ft)

All are gone and we continue North

At 3505 L. Left bank of Steam-  
boat river

At 3960. set limpory 1/16 corner

at 5280 " stake for limpory

Cor to Secs 28-29-32-33-144-31

where US notes. Call for post and

Spruce 4 N 67° E 950 Lks = 627.00 ft

Tam 4. East 800 " = 528.00 "

We do not take time to look up  
this corner. Quit for night.

Still staying with John Koonan

Herbert J. Gorman,

Sunday Jan 24<sup>th</sup> 1915

Cus - Gorman and Wm Knopf  
Check up on the  $\frac{1}{4}$  cor bet 29 and 32  
144-31 where we find the stump of  
the old NW 13T. which checks out  
with a spike driven for the line cor  
a wood hut sets 0.90 of a foot  
South and 0.40 of a foot East of  
the line  $\frac{1}{4}$  Cor

P.M.

Mrs Shapley assist us in P.M.

Beg @ the  $\frac{1}{4}$  Cor bet 31 and 32-144-31  
run East along the cut out County  
road  $59^{\circ}10'E$

at 1320 set stake at 2180 spike  
where we set new Gravelly Transit  
back right West on line  $\frac{1}{4}$  Cor and  
continue East

at 2400 spike Hob 2600 and 2700  
spike Hob at 2969.40 Cen of GNRy  
3200 stake Cus & Gorman chain  
perfect 100' steel tape and P.B.

Out for night still with Norman

Marbert D Gorman

✓

(34)

Monday Jan 25-1915

Cous- Germain <sup>and</sup> Louis Shapley

Continue East thro Cen of 32-144-31

at 3550 enter Swamp N+S. @ 3963.85

Hub @ 5321.50 Hub at 5322.50

about, intersect N + S. line of stakes

at a point 65.70 ft N. of limb  $\frac{1}{4}$  or

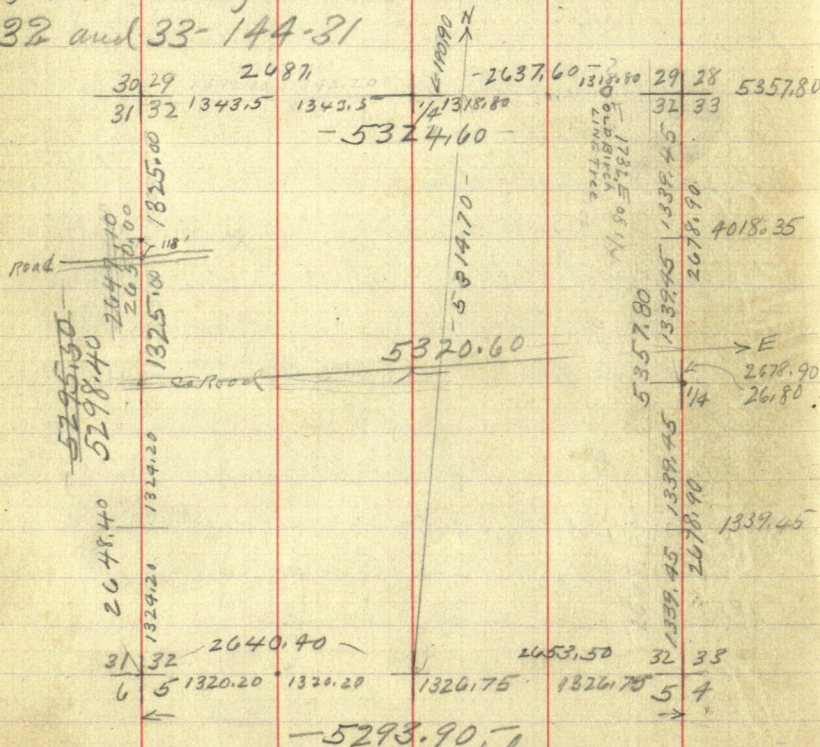
2705.70 feet North of SE Cor of Sec 32-

A7 5320.60' intersect the

line section line at a point 26.80

ft North of the  $\frac{1}{4}$  Corner bet Sec

32 and 33-144-31



-5293.90, 7

Norbert J Garma

Jan 25-1915  
CONTINUED

(35)

32-144-31  
Wilkinson

V

35

To put in the NE cor of Sec 32-144-31  
Beg @  $\frac{1}{4}$  Cor bet Secs 29 and 32 run East  
at 1732 an old Birch line tree sets North  
3.00 feet At 2640 set Hut Thence  
North 4.62 feet so as to have my  
line pass thro the old Birch line  
tree

At the Corner to Secs 28-29-32-33-144-  
31 U.S. male's call for a post and the follow-  
ing bearing trees

Spruce 4 N67°E 950 LKS (= 627.00 ft)

Tamarac 4 East 800 .. (= 528.00 feet)

We find the 4 inch Tamarac bearing  
tree from which we chain West 528.00  
feet to an intersection of our true line  
at a point 2637.60 feet East of the  $\frac{1}{4}$   
Corner at which point we cut a  
hole thro the frozen meadow and  
drive a cedar post 20 feet into  
the soft meadow after which  
the stump of the old NE BT stand  
Correct for course and distance

The cedar post at the corner to  
Secs 28-29-32-33-144-31 is a  
cedar tree 30 feet long 7 inches  
thro at the butt & driven tip

Norbert D. Gammack

(36) 32-144-31

✓ Wilkinson

(36)

Jan 25-1915

CONTINUED

down with the squared up  
butt sticking 10 feet above the  
level of the meadow and sets

33 feet East and 132.

feet south of the East bank of Steam  
boat River. In driving this  
post we strike what we believe  
to be the point of the old Govt  
Stake.

Working transit on line near  
the  $\frac{1}{4}$  Cor bet 32 and 33-144-31  
focus telescope on stake at SE cor  
of 32- back sight on big cedar  
post at NE cor of 32. then chain  
North @ 1320 limb  $\frac{1}{16}$  @ 2640 Temp  
 $\frac{1}{4}$ : at 3960. limb  $\frac{1}{16}$  at 5280 Temp  
see Cor the line Cor sets North 77.80  
feet

Correcting back:

3960, gives North 58.35 ft to 4018.35  
N. at which point we place a small  
stake for the line North  $\frac{1}{16}$  post  
between secs 32 and 33-144-31

At 2640. N we chain North 38.90  
feet to 2678.90. where we place a  
small stake for the line  $\frac{1}{4}$  corner  
bet secs 32-33-144-31 At

Norbert D. Gamm

(37)  
N.

Wilkinson

(37)  
✓

Jan 25-1915

Sec 32-144-31

|                       |                |                |            |
|-----------------------|----------------|----------------|------------|
| Hanton<br>Lichtenberg | Paul<br>Hanson | H. G. Knopf    | Stake<br>? |
| Wm<br>Noonan          | H. G.<br>Knopf | H. G.<br>Knopf | Stake<br>? |
| Olmslie               | H. G.<br>Knopf | Stake<br>?     | Stake<br>? |
| Olmslie               | Shapley        | Stake<br>?     | Stake<br>? |

1320 N on chain North 19.45 ft to 1339.45  
N. where we placed a tall stake on the  
ice in river for the line South  $1/16$   
Cor bet 32-33-144-31. Curo-Gorman  
L. Shapley work all day - Mr Shapley  
works in P.M. Curo + Gorman still  
staying with John Noonan

Robert D. Gorman

(38)

(38)

32-144-31  
Wilkinson

Tuesday Jan 26-1915

Correcting E & W Cen line of Sec 32-  
144-31. At 5320.60 E. l. 1/4 Cen hut  
32-33 sets South 26.80 feet  
3963.85 goes South 19.97 ✓  
2700, " South 13.60 ✓  
2640 " 32.60' East to 2672.60 ✓  
then South 13.46' to Cen of Sec 32  
2600 goes South 13.10 ✓  
2400 " " 12.09 ✓  
2180 " " 10.98  
" " "  
1320 " 16.30 East to 1336.30  
then South 6.70 to line West 1/16 Sec 32

[5037]

Reg a line 1/4 Cen on S side of 32-  
run North  $\cup$  7° 10' E. at 1400. Hub  
at 2600, Hub @ 3100, Hub @ 4000, stake  
@ 4149.85 Hub Hit prop line near H. G.  
Knopf's house and offset 12.00 ft west  
set transit 12.00 ft W back sight  
on flag 12.00 ft west of Hub  
3100 and run N 12.00 ft W of random  
line @ 4337.30 set hub  
@ 4779.60 set hub off set 12.00'  
East to hub on random

Norbert D. Garna

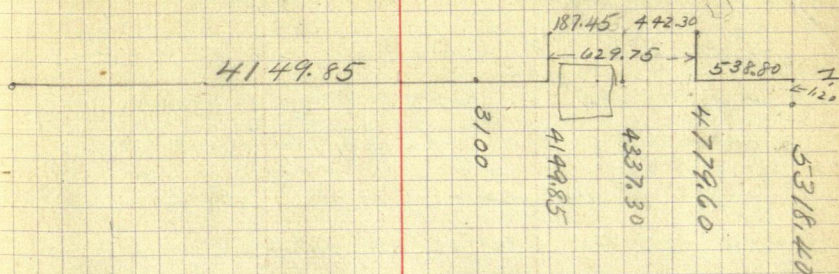
Jan 26, 15 continued

(38)

32-144-31

38

W22K275026



① which place we set  
transit and back sight on  
flag set on random line 12.00  
east of hub 4337.30'

Continue north on true random  
line. @ 5318.40 the 1/4 cor  
between sec's 29-32 sets east  
1.20'. Correcting [0.002256]

5318.40 goes east 1.20'

4779.60 goes east 1.08'

4337.30 " " 0.98'

4149.85 " " 0.94'

3100.00 " " 0.70'

2600.00 " " 0.59'

1320.00 " " 0.30'

at a point 2641.40 ft north  
of the 1/4 post on South Side  
of sec. 32 the true center

Marbert J. Germa

(39)

Jan. 26, '15  
continued

(39)

32-144-31  
Watkinson

of 32 sets east 0.60 of  
a foot Correcting  
South; at 1320.70 North  
we chain east 0.30 of  
a foot where we drive a  
spike in the ground for  
the  $\frac{1}{4}$  cor. in the center  
of the south half of Sec  
32-144-31 - this is  
Mrs. Shapleys NE cor.

At a point 2672.60 East of  
the  $\frac{1}{4}$  cor. between Sec.

31-32 the true center of 32  
sets south 13.46'

correcting west;  
at a point 1336.30' E  
we chain South 6.70' to  
true  $\frac{1}{4}$  cor. in center of  
the west half of sec 32-144-31.

We set the center of Sec. 32  
at a point where the true  
east and west center lines  
crosses the true north and  
Merbert R. Gorman

Jan. 26. '15

(40)

32-144-31

W22K275071

140

Saut center line and drive  
a spike in the south side  
of the county road for the  
true center of Sec 32-144-31

Curo, Gorman and Shepley  
bro's. work all day.

Cold NW wind.

Frank. A. Donner arrives from  
Homebrook Twp. via Bequot  
and Walker on 6:40 P.M. train.

Still staying with S. Noonan.

Norbert D. Gorman

(40)

(41)

Wednesday Jan. 27, '15.

Curo & Donner go back to Walker.

Gorman & Chapley Bro's work.

I start at  $\frac{1}{2}$  cor  $\frac{1}{2}$  W Sec-29 and 32 - 14431 run new random line E  $\sqrt{}$

At 1320.40 set hub from which we set a short line of pickets for correction purposes. At 2637.60 the true cor. to Sec's 28-29-32-33 set N 8.70 ft.

Correcting Back.

At 1320.40 E we chain W 160' to 1318.80 thence N 4.35' where we set spike for true E  $\frac{1}{2}$  cor  $\frac{1}{2}$  W Sec's 29-32. With new B's as follows

NP 8 S 5170.5' W 78.85'

NP 6 N 108' E 11.90'

To head of spike in flat spot a base of trees.

We set a spike and a 4x4 wood post for the

Norbert & Gorman

Jan 27-1915  
continued

true  $\frac{1}{4}$  cor. We nailed braces  
to support the post and  
Marked the post in pencil  
"True  $\frac{1}{4}$  cor. Sec 32-144-31  
Jan 27, '15 set by Curo"

With transit set at true  
 $\frac{1}{4}$  cor. Jacus telescope on  
true cor. to Secs 28-29-32-  
33-144-31 from where we  
chain west along true line.  
Ht 33.00 ft set post for  
meander cor. on E side of  
Steam Boat River b/w  
fractional Sec's 29-32.  
Ht 148.50' set post for true  
M.C. cor on W side of  
Steam Boat River b/w Sec's  
29-32-144-31. Thence W  
along true line 52.20 ft  
where we drive tall stakes  
in meadow for Wittneas  
cor. to M.C. cor on W Bank  
of Steam Boat River Ht 905.66  
W intersect an old Birch  
Herbert D. Gorman

(43)

Jan 27-1914  
Continued

(43)

Sec 32-144-31

Wilkinson

V

stuck on true line. This  
Branch was blazed for true  
line by original U.S. surveyor  
and shows that our line  
is correct. At Leave  
SW amp. Ft 1318.80 interest  
No job set. True line reads 9°15'

Beginning at 1/4 B'W Sec's 29-32  
144-31 run a new random  
line N. Needle reads 9°45' E  
Gurley Transit in perfect  
adjustment.

Ft 212.00 road North & South  
Ft 393 Hub, 1300 Hub, 1944  
Hub 2687.00 the cor. to Sec. 29-  
30-31-32 sets S 21.65'

Correcting Back. [805]

1944 goes S 15.66' set stake m'd  
"True line". At 393 set stake S 3.17'  
Ft 1300.00 We chain W 43.50'  
to 1343.50' thence South  
10.82' to where we drive a  
spike for the true W 1/2 cor  
B'W Sec 29-32-144-31 with

Herbert J. Garman

Jan 27-1915  
Continued

(44)

Sec 32  
174-31  
Wilkinson

(44)

✓

BT's as follows V 90° 30'

S.P. 135 75° 31' W 22.80'

NP 14 N 34° 19' E 65.40'

To spike in flat spot at  
base of trees.

P.M.

Beginning at pt. 37.8572 W  
of Cor to Sec 29-30-31-32  
run south over contour  
transit line. Ht 600 ft;  
at 1233.50' ht; at 2000 ft;  
at 2650.00 the  $\frac{1}{4}$  cor b'tw sec's  
31-32 sets E 10.15.

Correcting back [10453 + 10.15]  $\frac{1}{4}$   
2000.00 90° 05' E 16.94 Stake marked true line  
600.00 " E 31.58 " " " "  
1233.50 " S 91.50 To 1325.00  
thence E 24.00 where we  
drive a spike for true  
 $\frac{1}{4}$  cor b'tw sec's 31-32 - 34  
- 31. With BT's trees as  
follows.

S.P. 12 S 20° 16' W 194.20

D.S.P. 10 S 87° 57' W 111.90

Var 9°

Herbert D. Gorman

45) Jan 27-1915  
Continued

(45)

32-144-31  
Wilkinson

As the ground is frozen  
and we cannot drive  
stakes W place a  $4 \times 4 \times 48$  in.  
Wood stake well braced  
over the spike to mark  
true  $\frac{1}{4}$  cor.

Correcting W boundary of  
SW  $\frac{1}{4}$  of sec. 32-144-31. E 7 a  
pt. 2648.40 N of the cor to sec's  
5-6-31-32. The  $\frac{1}{4}$  cor 87°W 31-  
31-32 sets E 10.15'

Correcting Back.

2000.00 goes E

600.00 " E

1320.00 " N 4.20' to 1324.20

thence E 5.07 where we set a  
spike and  $4 \times 4 \times 48$  in. Wood  
stake well braced for true

$\frac{5}{16}$  cor. 87°W sec's 31-32 with  
B' true as follows: V. 9°30'

WTD 14 N/70°15' E 39.20'

Plus 12 S 48°22' E 42.25'

Beginning at the S  $\frac{1}{16}$  cor  
87°W sec 31-32-144-31 run  
east over cent ent transit  
line.

Norbert J. Gorman

46

46

32-144-31

Nelkinson Survey

2687

267260

88°10'

88°18'

5318.40

1338.50

1338.50

1320.70

1320.70

2677

264140

1325

1325

1324.20

1324.20

47  
✓

Jan 27-1915  
contd

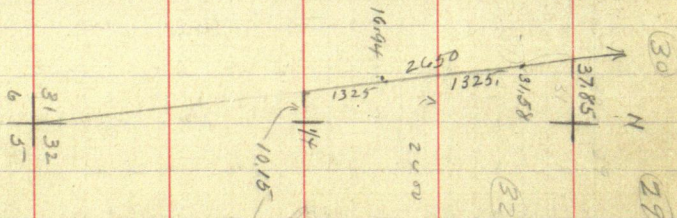
47

32-144-31  
Wilkinson

Flt 600.00. Sub; at 1320 Sub  
at 2656.50 (about) the  $\frac{1}{16}$  cor  
in center of  $S\frac{1}{2}$  of Sec 32  
(Mrs Shaffley NE cor) set S  
24.50' where we find a  
spoke previously set  
by me for true  $\frac{1}{16}$  cor.  
Over which we place  
a 4x4x48 in. wood stake.  
With BT trees as follows:  
Telephone 10 S  $86^{\circ}40' E$  58.35'  
HT 12 N  $10^{\circ}31' E$  70.40'  
Var.  $7^{\circ}30'$ .

Shaffley Bros and Gorman  
work all day. Bill Knapp  
reports to work in morning  
but I cannot use him.

Quit for Night still  
staying bunk house with  
J. H. Norman.



Herbert Gorman

Thursday Jan. 28, 1915

We start Lewis Shapley cutting line East from the  $\frac{1}{16}$  in center of North half of sec 32-144-31.

Gorman and Mr Shapley  
Beg at the  $\frac{1}{4}$  corner Secs 31-32  
run East thro center of 32

at 1300 set line of stakes At 2672.60  
the center of sec 32- sets South 13.46 ft

Correcting back

at 1300 we chain East 36.30 ft to  
1336.30 Thence South 6.70 feet where  
we drive a spike over which we  
set a 4x4x48 inch wood stake  
well braced for the line  $\frac{1}{16}$  corner  
in center of West half of sec 32

144-32 with bearing lines as follows

By P 8 N  $20^{\circ} 22' W$  44.30 feet

By P 10 S  $53^{\circ} 30' W$  52.20 feet to spike

driven in flat spot at base of trees  
O  $8^{\circ} 45' E$

We establish the line  $\frac{1}{16}$  corner  
in center of SW  $\frac{1}{4}$  of 32- at a point  
where the line N & S line crosses  
the true East and West line as follows  
at a point on our random line

Hardest R. Gorman

49 Jan 28-1915  
continued

(49)

32-144-31  
Wilkinson

about 2656.50 feet East of the South  
 $\frac{1}{16}$  Corner between Secs 31-32-144-  
31, the  $\frac{1}{16}$  m center of South half  
of 32 (Mrs Shopley's NE Cor) sets  
South 24.50 feet

Correcting back

at 1328.25 East, we chain South  
12.25 feet which intersects the  
true N & S Center line of the SW  $\frac{1}{4}$   
of 32 at a point 1322.45 ft South  
of the Center of the West half and

At a point 2644.90 feet North of  
the West  $\frac{1}{16}$  Cor bet Secs 32 and 5,  
the true  $\frac{1}{16}$  in cen of West half of Sec  
32. sets West 30.00 feet

Correcting back

at 1322.45 N. we chain West

along the true E & W  
Center line of the SW  $\frac{1}{4}$  of 32. a dist-  
ance of 15.60 feet at which point  
we intersect the stake previously  
set for the true Center of the SW  
 $\frac{1}{4}$  of Sec 32-144-31 at which pt  
we drive a spike over which we  
set a 4x4x48 inch wood stake  
well braced for the true  $\frac{1}{16}$  m

Robert J. Gorman

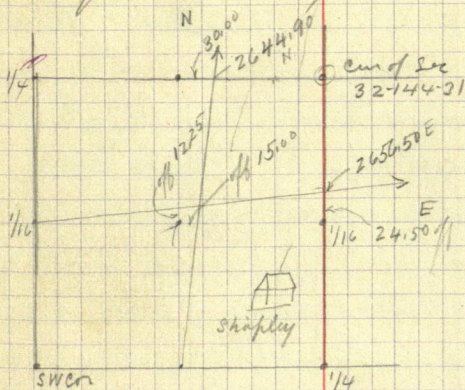
Jan 28 - 1915  
continued

(50)

32-144-31  
Williamson

(50)

Center of SW  $\frac{1}{4}$  of 32-144-31 with  
bearing trees of fallow Var  $9^{\circ}30'E$   
JP8 N  $13^{\circ}45'W$  49.00 ft  
WP 65  $65^{\circ}20'W$  47.20 " 15 spikes driven  
in flat spot at base of trees



P.M.

Louis Shapley -

Mrs Shapley and Gorman working

Correcting N + S Center line of Sec 32.

144-31. At a point 5318.40 feet N.  
of the  $\frac{1}{4}$  on South side of 32- the  $\frac{1}{4}$  on North  
side sets East 1.20 ft

Correcting back [002256]

5318.40 goes East 1.20 ft

4779.60 " East 1.08 to Stake marked "True line"

43.37.30 " " 0.98 to " " "True line"

at 4149.85 we chain South 169.95 ft  
to 3979.90 N. Thence East 0.89 of a

Herbert Gorman

(51)

Jan 28-1915  
continued

(51)

32-144-31  
Wilkinson

foot where we drive a spike over which  
we set a 3X3X36 inch slate well tread  
for the line  $\frac{1}{16}$  cor in center of North half  
of Sec 32-144-31 with BTS Obj -  $07^{\circ}30'$   
NP10 S  $15^{\circ}12'W$  86.95 ft  
NP6 S  $6^{\circ}2'E$  39.30 " To spikes driven  
in flat spot at base of trees

I run a random line west thru  
center of NW  $\frac{1}{4}$  of 32-144-31 Our copies  
and checks field notes all day in Walker  
and arrives from Walker on 6.40

P.M. train and takes supper with Norman  
bath stay in bunk shanty

Herbert D. Gorman

Friday Jan 29-1915

Curo and Wm Knopf work in one crew while Gorman and Mi Shapley work in another. Gorman and Shapley set big Cedar stakes between Secs 32 and 33-144-31.

Curo and Knopf check chain the North boundary of NW  $\frac{1}{4}$  of 32 and cut out the West line of the NW  $\frac{1}{4}$ .

Gorman and Mi Shapley go to the North  $\frac{1}{16}$  corner bet Secs 32 and 33-144-31 where we chop a hole thro 18 inches of ice and drive a small cedar 15' tree small end down well into the mud with the 4 inch butt left sticking 3 feet above the meadow level for the line  $\frac{1}{16}$  cor East of Steamboat river.

Going to the  $\frac{1}{4}$  cor bet 32-33-144-31 we chop a hole thro 18 inches of ice and drive a six inch cedar tree 30 feet long top end down well into the mud with the 6 inch butt left sticking 10 feet above the meadow level for the line  $\frac{1}{4}$  corner west of Steamboat river.

Going to a point  
Harbert Gorman

(53)

Jan 29-1915  
Continued

(53)

32-144-31  
Wilkinson

on true line between Secs 32-33  
144-31. at 851.15 feet North of the  
SE Cor of 32. we cut a hole in  
the ice and place a 5 inch cedar  
tree 20 feet long small end down  
into the mud till the but sticks  
3 feet to mark the true line bet  
Secs 32 and 33-144-31 and is  
a witness corner 50.50 feet to  
of MC at NE Cor of Lot 5 and  
506.63 North of MC at SE Cor of Lot  
5 Sec 32-144-31 and on East side  
of Steamboat river

P.M.

Curo-Gorman- Bill Knopf cut  
brush and check chain lines

Quit for night Still with John  
Noonan

Robert J Gorman

Saturday Jan 30-1915

Curs - Gorman William Knopf  
 Beg at N  $\frac{1}{16}$  cor bet 31-32-144-31  
 run East @ about 1339.90 E  
 Hat 2265. Hat on hill at about  
 2679.80 the  $\frac{1}{16}$  in Center of North half  
 of Sec 32. sets North 1.60 feet  
 Correcting back (006)

2679.80 goes N 1.60  
 2265. " N 1.36. (set true line stake)  
 1339.90 " N 0.80 where we work  
 transit on true line bet  $\frac{1}{16}$  West  
 and Corrected stake 2265 E and  
 set a line of small stakes E & W  
 along true line.

Then Beg at a point on cut out  
 Mount line 30.60 feet East of the  
 $\frac{1}{16}$  in Center of West half Sec 32. Chain  
 North thro Cen of NW  $\frac{1}{4}$ .

at 732. about. Hat Ht 1331.70 (about)  
 Hat on line E & W  $\frac{1}{16}$  line

at 1932 (about) Hat Ht about  
 2663.40 the  $\frac{1}{16}$  sets West 50.85 ft  
 Correcting back (.7603 + 30.60)

1932 goes W. 45.29. to true line stake  
 732 " W 36.17 (true line stake)

Robert A. Gorman

(55)

Jan 30-1915

CONTINUED

(55)

32-144-31

Wilkinson

at about 1331.70 we chain west  
along line line 40.72 feet where  
we drive a spike with well bored  
4x4x48 inch post set on top for the  
line  $\frac{1}{16}$  cor in center of NW  $\frac{1}{4}$  of  
Sec 32-144-30 set where the line  
N & S line crosses the line E & W line  
with bearings as follows

JP 128  $21^{\circ}48'E$  75.85 ft 46.87

Turning JP 148  $45^{\circ}48'W$  64.87 ft 08 $^{\circ}10'$

turned from the line N & S line

With transit set on line  $\frac{1}{16}$  in cor.  
of NW  $\frac{1}{4}$  of 32-144-31. Vernier at 00.  
focus telescope North along line. Loosen  
upper clamp - turn telescope to right  
on line E & W line and the angle  
88 $^{\circ}18'$

Herbert S. Lorman

Sunday Jan 31-1915

Cisco-Groeman-wm Knopf.

At a point on random line about  
5338.10 ft North of the East  $\frac{1}{16}$  bet sec  
5 and 32- the East  $\frac{1}{16}$  bet sec 29 and  
32-144-31 set West 95.60 ft

Connecting back (0017744)

at about 1399.12 we chain west  
along the true  $\frac{1}{16}$  line 70.70 feet  
where the two line lines cross at  
which point we set a cedar post  
well into the swamp for the true  
 $\frac{1}{16}$  in Center of NE  $\frac{1}{4}$  of sec 32-  
144-31 with bearings as follows  
Cedar stump 7. about  $S 70^{\circ} E$  10.78 feet  
" " 8 "  $S 45^{\circ} W$  9.03 " to

nails in flat spot at base of stump

To get the true E + W Center line  
of the NE  $\frac{1}{4}$  of sec 32-144-31  
we set transit on North  $\frac{1}{16}$  corner  
between sec 32 + 33. focus the-  
scope on the  $\frac{1}{16}$  post in center of  
North half of sec 32 and run a  
line line west to an intersection  
with the true N + S Center line of  
the East half of sec 32.

Herbert A. Crossman

(57) 32-144-31  
Wilkinson

57

Jan 31-1915  
continued

To get the  $\frac{1}{16}$  in center of East half  
of sec 32-144-31 we begin at a point  
on N & S random line, about 2660.15 N.  
and chain West along the true line  
47.80 feet where the two true lines cross  
at which point we set a cedar post  
well into the swamp for the true  
 $\frac{1}{16}$  corner in center of East half  
of sec 32-144-31 with bearings S 13  
Cedar stump 4 about S 50° W 19.98 feet

" " 4 " N 10° E 13.50 "

To nails in flat spot at base of stump

To get the E & W center line at  
this point we begin at Hat 3963.85  
on E & W random line. Chain South  
19.97 feet to true line where we set  
transit, back sight on true center  
post of sec 32 and run East along  
true line to an intersection of the true  
N & S Center line this the East half  
of sec 32 to  $\frac{1}{16}$  corner in center of  
East half.

To get the  $\frac{1}{16}$  in center of SE  $\frac{1}{4}$   
of sec 32-144-31 we set up transit  
in E & W random line. Back sight  
on true  $\frac{1}{16}$  post in center of South

Robert S. Looman

32-144-31  
Wilkinson

58 Jan 31-1915  
continued

58

half of 32 - and run East

@ 97. feet cross Cen line of L N Ry

@ about - sulfur swamp

@ about 1325.37 Hub: at about 2550.75

stake at 2650.75 we intersect the  
Sec line 39.10 feet North of the South  
 $\frac{1}{16}$  Corner bet Secs 32 & 33- 144-31

Correcting back (073676)

at 2550.75 we chain South 38.37  
feet to a point on the line E + W line  
100. feet West of the South  $\frac{1}{16}$  Cor  
bet Secs 32-33 where we set a  
witness corner being a 10 foot cedar  
post set well into the meadow  
in a hole chopped thro two feet of  
ice and bog

at 1325.37 we chain south 19.55 feet  
along the line N + S Cen line of the East  
half of sec 32 where we place a  
10 foot cedar post well into the swamp  
for the true  $\frac{1}{16}$  cor in Center of SE  $\frac{1}{4}$   
of 32-144-31 with bearings as follows  
Tape stump 5. about S  $45^{\circ}$  E 4.05 ft  
" " 5 " N 10 E 9.88 "

1. nail in flat spot at base of stump  
at about 1330.07 N. on random line

Herbert A. German

(59)

32-144-31  
Wilkinson

(59)

Jan 31-1915  
continued

we chain west along line  $1/16$  line  
23.90 feet to  $1/16$  in center of SE  $1/4$   
of sec 32-144-31

going to the random line on NTS  
center line of 32- at Hub 4779.60 N  
we chain East 1.08 feet to line NTS line  
where we set transit

At Hub 4337.30 N we chain East  
0.98 of a foot where we set a block  
pencil in the snow on which I focus  
telescope then then back sight  
on line  $1/4$  bet 29 & 32 to make  
sure our line line is correct  
then run south and set a line of  
small stakes in the snow

The NW Corner of H & Knapp's house is  
about 0.80 of a foot East of the line  
NTS line and the SW Cor of the house  
which comes at about 4295. N. H  
sets just 0.30 of a foot East of  
the line NTS Center line of 32  
144-31 At 3100 N we chain

East 0.70 of a foot and set last  
stake marked "line NTS line"

At 4337.30 N. we chain East 0.98  
and set stake at H & Knapp's fence

Harbert A. Gorman

32-144-31  
Wilkinson

(60)

Jan 31-1915  
continued

(60)

marked True Line

This finishes the survey of sec 32-144-31 for the present as the ground is frozen too hard to set iron monuments till the frost goes out we will set the iron corner in the spring much cheaper than we can now

Quit for night Still with John Noonan in bunk shanty

Monday Feb 1<sup>st</sup> 1915

Gorman and Curo take breakfast with John Noonan and catch 7:40 AM train via GNRy from Wilkinson to Walker RR fare 26<sup>c</sup> and 26<sup>c</sup> - 52<sup>c</sup> Bus hire 25<sup>c</sup> and 25<sup>c</sup> at Walker

Gorman and Curo work all day in office at Court House checking up our field notes to see that they are correct and work on plat of Sec 32-144-31

We both stay at Chase hotel

As we do not want to wait till spring for pay for what we have done on Sec 32-144-31 we decide to put in the bill to Cass County for

(61) Ser 32-144-31  
Wilkinson

(61)

Feb 1st 1915  
Continued

what work I and the crew have done to  
Lali and see if the Commissioners  
will advance us the money on account  
till the work is finished so they can  
carry the load of debt easier than  
we can. Gorman puts in a bill  
as Assistant Engineer @ \$5.00 per day  
+ expenses as per Curo's contract  
and Curo only charges \$2.50 per day  
and expenses as he worked with  
Gorman a part of the time and  
wishes to keep the expense of survey  
as low as possible.

Nov. 18, 1915

Molynaux at Cass Lake ships 20  
2 1/4" x 48" galvanized gas pipe with caps  
for section corner monument, from Cass Lake  
to Wilkinson to monument Sec. 32-144-31.

Same evening receive by registered  
mail from Curo the plat and previous notes  
on said section.

## Expense account

|        |  |   |     |
|--------|--|---|-----|
| Nov 18 | Express & drayage on 20 I.M.                             | x | 36¢ |
| " 19   | R.R. fare C.L. to Wilkinson & Return of<br>F.N. Molynaux | x | 50¢ |
|        | Nick Herig   | x | 50¢ |
| " 20   | R.R. fare of F.N. Molynaux to Wilkinson                  | x | 25¢ |
| " 20   | " " Nick Herig " "                                       | x | 25¢ |
| " 20   | " " " F.N. Molynaux to Bemidji                           | x | 55¢ |
| " 20   | " " " Nick Herig " "                                     | x | 55¢ |
| " 20   | Supper F.N. Molynaux & Bemidji                           |   | 50  |
| " 20   | " " Nick Herig " "                                       | x | 50  |
| " 20   | R.R. fare Bemidji to Walker, Molynaux                    |   | 69  |
| " 20   | R.R. " " " Herig   | x | 69  |

Friday, Nov. 19, 1915

32-197-31

64

Molyneux & Herig leave Cass Lake at 7-05 A.M. on G.H. Ry and go to Wilkinson to set iron monuments at subdivision corners of Sec. 32 as surveyed by Curo & Gorman Last January. See notes in fore part of this book.

On arriving at Wilkinson we get Louis Shepley to help us, as he worked on the survey with Gorman and know where to find the corners.

We do drive iron monuments at all the corners on the west boundary, the west  $\frac{1}{16}$ , and the N. & S.  $\frac{1}{4}$  line. All these corners are marked with bearing trees and check for distance.

Now dark and we quit for day.

Take evening train to Cass Lake.

Day ran and cold.

All corners are drove 36 inches in the ground, leaving 12" above ground.

J. Molyneux

65 Saturday Nov. 20, 1915

32-144-31

Molymoux & Harig go from Cass Lake to Wilkinson by train and find Shepley waiting at the depot for us.

We now proceed to put the iron monuments in at the subdivision corners along the E. 1/2 line through Sec. 32-144-31.

In setting these corners we found it necessary to put the I.M.s. on piling which we did. For the piling we use cedar poles 8 to 10 feet long. These are driven into the mud and earth till they are solid. The I.M.s. are driven down over <sup>the</sup> poles and left to stand 12 to 14 inches above the ice. In addition these corners are marked with large cedar post, driven well into the mud adjacent to the I.M.s.

We do not attempt to set I.M.s. on the east boundary of the section, adjacent to Steamboat River on account of the deep and soft mud.

We now proceed to tie in the G.N.Ry. and the west boundary of the big swamp for notes see page 66.

It snows hard and blows.  
Finish work just at dark.  
Wait for train to Maker via Bemidji.  
J. M. Molymoux

Sec. 29

$\frac{1}{4}$  Cor

$5^{-3} + 89,3$  - Sec line

$$51+88.7 = (\text{G.N. } 3981+00\text{I.M.})$$

51 R. of W. narrows

50+86 P.S

31. 43+48 St King Wilkinson

 $40 + 32,5$ 

W. 46 line

CNS  $\frac{1}{4}$  line

E + W.  $\frac{1}{4}$  line

 $26 + 75.4$ 

Center of Sec

W2-144-31

21+03 P.S

20+85 R. of W. videns to

100' L  
200' R

200' 尺

13+51 E of Private Xing

 $13 + 34.9$ 

6 + 78.9 NTS.  $\frac{1}{4}$  line

$$0 + 0 = 0$$

G.N. 3929+03.7

$\frac{1}{4}$  Sec Cor

Sec. 5

Ans Mohy meerk

## Survey of Sec. 8-140-31

Note: Call up Horst from

Leave Walker 10 AM, April 5,

Fare \$28 Arrive 12:10 Dinner \$50

Start work assisted by

Start at I.M. Cor. 8, 9-16-17

Hub 6+94 Hill next to Lake = 694'

8+00 = Ice Rampart 15' to water-

1320 Set Hub 242.7' W. to Stake

2640 " " 360.2' " " "

3330+ = Lake Shore

33+61.5 = Hub L S to W 26°19' to Hub

+

Brush out line on North

across next point, Send

ahead on ice and set more

Hunt for M.C. No success.

Go to Thompsons for supper

April 6 Thompson &amp; Greene start

39+60 set Hub in bog edge of Lake

37+10 Edge of point

4140 Line of Bay

52+80 Random Cor

51+80 Line of Bay

52+80 Hub Scribed Random 41.2' W.

Settlers call job off.

April 15 68

John M. Greene - Transit

Hackensack for notes - Tel. Toll 50  
1917. Take freight to Hackensack

Ride out with C. Hasbrouck,  
C. Hasbrouck, H.T. Thompson.

and run North to Lake. Set Hub on  
Greene and Brooks (from Island)  
do the chaining.

on shore  $\angle 90^\circ$  Hasbrouck does home

" "  $\angle 90^\circ$

721.5 + 26.40  
on shore opp 26+40  
across point and  
Thompson and Brooks  
pickets.

Quitting Time

Chaining 7:30 AM

5280  
3361.5  
1918.5

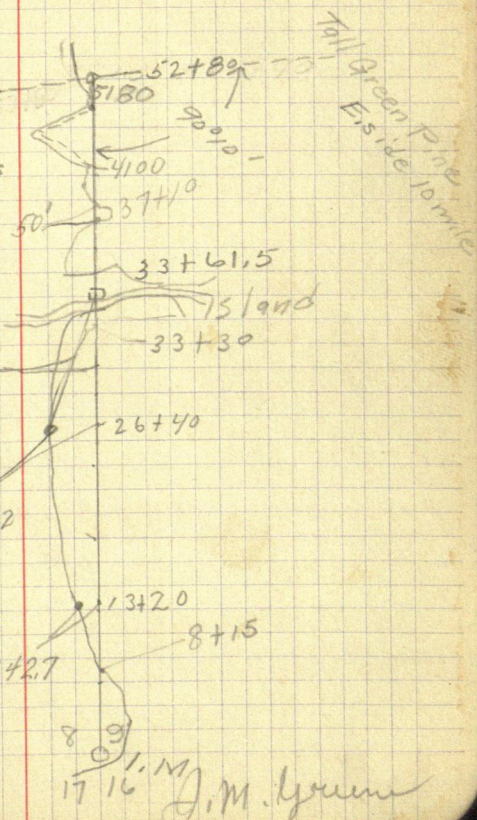
360.2

242.7

8.9

1716

J.M. Greene



April 6, 1917

Approximate survey of  
Thompson's Lot

23rds =

$$\begin{array}{r} 23 \\ 165 \\ \hline 495 \\ 330 \\ \hline 379.5 \end{array}$$

$$\begin{array}{r} 165 \\ 14 \\ \hline 660 \\ 165 \\ \hline 231.0 \end{array}$$

71 July 25 & 26 - 1930  
Very hot  
Sec. 30-144-31

U.S. Notes

M.C. #36 W. Pine 5" N. 84° W 31  
Aspen 4 S. 79° E. 23  
M.C. #37 Y. Pine 10 S. 58° E 42  
Y. Pine 10 N. 43° W 90

1/4 Cor 29-30 Aspen 5" N 12° E 73  
W. Pine 12" S 58° W 85

30-31 Aspen 4" N. 72° W 210  
" 4" S. 73° W —

S.W. Cor. —

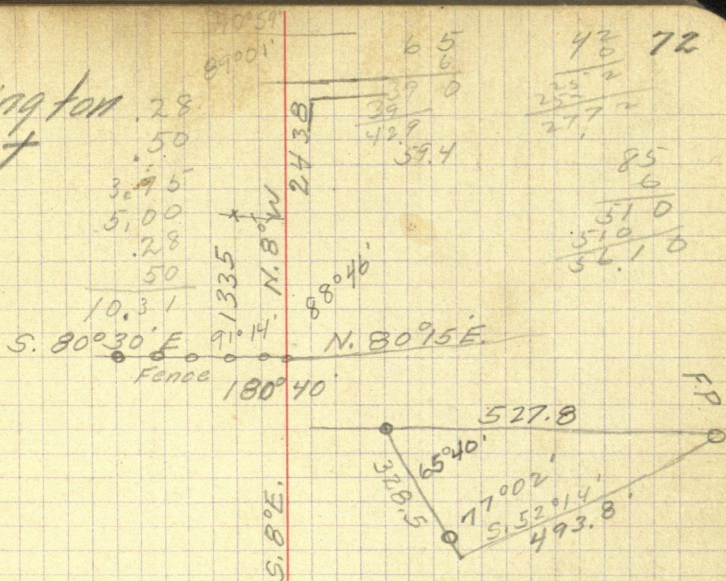
S.E. Cor. N. Pine 10 N. 8° E 216  
" 11 N. 13° E 225  
" 12 N. 32 1/2° W 28  
Aspen 4 S. 39° E 14

W. 1/4 Cor. W. Birch 6" S. 18° W 70  
Y. Pine 10" N 18° E 65

A.P. #1 Twin Oak 6" S. 78° 11' 15" E 12.8'  
W. Pine 8" N. 81° 15' W 33.3'

A.M.C. 295.5' Twin Elm 12" West 5.5'

# Coddington Tract

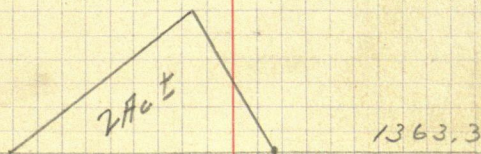


Sta. 0 = Sea. Cor.

North - Var  $8^{\circ}$

133.5 Fence west  
 243.8 Road +  
 269.2 Iron Pin set for  
 $\frac{1}{4}$  Cor. by Croucher, Wm.  
 $\times$  S. W. =  $89^{\circ}01'$   
 5.84°30' W  
 Sta 1330 = I.P

A.P. #1  $\frac{33.3}{1363.3} =$  I.P. = Coddington's  
 295.5 to I.P. on Line  
 $\frac{33.0}{328.5}$  Shore  
 328.5 Beach Hvb  
 493.8 to End post  
 527.8 back to A.P. 1



John M. Greene