

A

PENWORTHY

TRADE MARK FOR THE PAPER



NOTE BOOK

Name _____

No. 3581

①

Dec. 6 143-30

June 2-1950?

Beve-Begb

Levi Lego comes to office wants
survey we go to NW Cor sec 6

143-30 where we find $2\frac{1}{2}$ IM Copper

U.S. Gen. Land Office Survey

Over NW Cor sec 6.

BS S on stake set in the water.

at I.M. Take ties Needle reads 6'30"

Red Oak 12 N $11^{\circ}49'$ E 25.9'

" " 14 N 23° W 29.5'

W Oak 5 S $5^{\circ}21'$ W 10.42

" " 8 S $33^{\circ}16'$ E 32.20

We run south pass our line thru

M.C. Cor. to public highway at

40.40 ft. hub on hiway on Range line

175.40 S of M.C. I.M. N end road

Over 175.40 S + 41 N $81^{\circ}45'$ E

666.8

② Lot 1 Sec 6-142-3

Levi Lego

June 2nd 1950

Travel 666.8 BS S $81^{\circ}45'W$
and run N $86^{\circ}32'E$ 195.80

To west line of tract sold

Travel 195.8 BS S $86^{\circ}32'W$

and run North parallel to West

line of Sec 6 - thence S 23.15 ft

pt of beg. 5 ft from Leech lake

run N. 135.5 NW cor tract

continue N 169.85 ft in road

Travel 169.85 BS S and run

N $41^{\circ}21'E$ 164.28 along road

Travel 164.28 run S $64^{\circ}09'E$

174.75 Travel 174.75 run S

N $77^{\circ}02'E$ 89.30 to E line of tract

Travel 89.30 run S to lake water about 30 ft

run N to road, 371.25

231 1/2
1353

(3)

(3)

Levi Lego

Lot 1 Sec. 6 - 142-30

Description

all that tract or parcel of land
lying and being in Lot 1 Sec. 6
142-30 Cass County Minnesota
described as follows

Beginning at a iron monument
on the North shore of Leech
Lake placed at a point 1613.25
feet south and 855.34 feet
East from the Township corner
being the N.W. cor of said lot
1 and running thence N parallel
with the W line of said 1 a distance
of 163.25 ft to an 2nd I M
placed on the southerly right-of-
way line of the public road running
thence N E evely following said
right of way line 640 ft + -
to a 3rd I M. placed on said

right of way line at a point
1208.14 ft East and 386.83
feet south from said NW Corner
of said lot 1. Thence South
parallel with said West line
of said lot 1. 371.25 ft to an 4th
place on the Bank 30 ft N of the water
edge of Leech Lake placed at a
point 753.08 ft South and
1208.14 ft East of said NW Cor of
said lot 1. Thence S westerly follow
the shore of Leech Lake 425 ft
more or less to place of beg. the land
herein conveyed extend South to
the water edge of Leech Lake to contain
2 1/2 Acres +- Subject to mineral
rights & reservations

①

⑤

Albert F Lang - Frances A. Lang

Call from the Bank wants
description of land in Lot 8
Sec. 20-142-30 Lying E of Co.
road. N^o 26 as same is not located

Description

See Book 86 of Deeds page 223

I & Mr Walker drive to Clifford
Eckman's as Cliff said he
would help me to day. He is
gone off some place so I take
his brother-in-law Sean. We
drive to Gov't lot 8 Sec 20-142-30
on the Onigum road. Walk East
and set flag at SE cor Lot 8 - Walk
west and set flag at SW cor at
like these I M I located yesterday
While Sean cuts brush between
these flags I try to work N

6 (2)
Lang. Lot. 8 - Sec. 20 - 142-30

on line between them from
E edge of road. I can not do
this as some buildings west
of Road are over the line.

I pick out an open line and
run a random line West
from the SE Corner Lot 8
@ 458.2 hub 60^{ft} spike @ 534. W
60^{ft} spike hub at E edge of corner
post of fence @ 563.4 hub 60^{ft}
spike under T on E side of Road
@ 590.7 spike on W side of road
@ 777.1 spike hub @ 933.5 spike
hub. T over hub 933.5 the SW
Cor. I.M. of Lot 8 - bears N 73° 27'
W 22.3 ft.

T over hub 563.4 on random

Lam

(3)

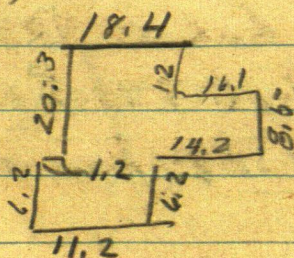
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Lot 8 Sec 20-142-30

Orign Road runs $N 20^{\circ} 45' W$
 A still @ 5634 Take courses
 to garage NW cor bears $N 15^{\circ} 20' E$
 shed at back of garage or wing of
 garage SW cor bears $N 22^{\circ} 55' E$
 SE cor bears $N 24^{\circ} 16' E$.

Move A to hub 45-8.2 on random
 & take courses to garage NW cor
 bears $N 18^{\circ} 17' W$ shed SW cor
 $N 14^{\circ} 21' W$ - SE cor bears $N 11^{\circ} 06' W$
 SE cor Garage $N 8^{\circ} 23' W$

Taken from Random



$$\begin{array}{r}
 5634 \\
 534 \\
 \hline
 30 \\
 \\
 574 \\
 458 \\
 \hline
 1158 \\
 354 \\
 \hline
 1512
 \end{array}$$

8

(4)

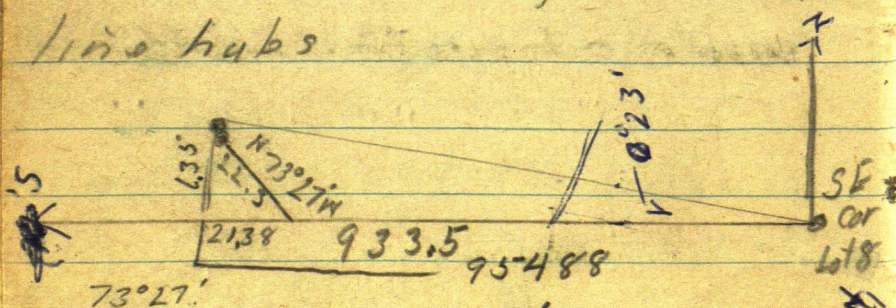
Lang

Lot 8 Sec 20-142-30

from these corners to building I find that the most Lang can sell is the S 150 feet of Lot 8 E of road and Mot 200 as his blueprint shows.

as the snow is deep and weather cold we will have to wait until spring to mark the S 150 ft of Lot 8 E of Hi way

Correction for random line hubs



$$\sin 73^{\circ}27' \cdot 284852 \times 22.3 = 635N$$

$$\cos 73^{\circ}27' \cdot 284852 \times 22.3 = 21,38$$

Long

5

9

Lot 8 Sec 20-1 T2-30

$$\begin{array}{r} 933.5 \\ 2138 \\ \hline 954.88 \end{array} \quad \begin{array}{r} 954.88 \overline{) 100665005} \\ \underline{635000} \end{array}$$

Tang of .00665005 = $0^{\circ} 23'$

Hub. 458.2 W goes N 3.05

" 534 W " N 3.56

" 563.4 W " N 3.76

" 590.7 W " N 3.93

" 777.1 W " N 5.17

" 933.5 W " N 6.22

We want a strip 150 ft
wide along the south end

road runs N $20^{\circ} 45' W$

Sin = 354291

Cosine 9351.35 into 150 = 160.4

$20^{\circ} 22'$

Desire 937486 into 150 = 160 ft along
Rot Way

10

6

Lang

Lot 8 Sec 20-142-30

June

Father's day

Don, Ed & I to Lang

T oven spike on true S line
of lot 8. Sec 20-142-3040 ft E of Φ road

Site E on true line corner

NW angle to pt 150 ft N and
40 ft E of Φ road

angle reads

$$69^{\circ}30' = 20^{\circ}30'$$

$$\text{Sine } 350207$$

$$\text{Cosine } 936672 \div 150 = 160.14$$

Lang,

$$20^{\circ}34'$$

Sine

$$351297$$

$$936264$$

$$160.02$$

N Lund's survey changed

133 along road. or W side

$569^{\circ}26' - 133$ ft

249.5 along E side lot 8

Figuring

South line Lot 8 Sec 20-142-30
 as E & W.

beg. ^{IM} at SE cor lot 8 run thence
 West following the S line Lot 8
 536 ft to an I.M. placed on the
 E right of way line of the Onigum
 Road thence $N 20^{\circ} 34' W$ following
 said E right of way line 133 to an iron
 rod $\frac{1}{2} \times 14"$ thence $N 78^{\circ} E$ _____ feet
 to an iron mon. on the E line of said
 Lot 8 thence southerly following
 said E line 249.5 feet to place of
 beginning

Levi Lego Second Survey
conveying 100 ft along the
Lake shore East of first
Tract sold. first tract
sold as surveyed shown in
this book page 1 to 4

Elsworth & I Lv Walker Drive
to Lot 1 Dec 6 -

At over I M 38 ft from Lake shore
SE Cor first tract sold site
Mon NE Cor + turn $72^{\circ}30'$ follow
parallel to lake shore 100 ft

At NE Cor first tract site
S on SE I M Transit tele. and
turn $72^{\circ}30'$ run E 100 ft parallel
to S 100 ft along Lake shore

Turn 100 ft spike Var @ $72^{\circ}30'$
BS on NE Cor 1st Tract + run N
10 ft at ~~Transit~~ 30 ft from road

14

Levi Lego's 2nd Survey

a strip of land.

North
Sec. 01, T. 28 N., R. 10 W., S. 18 E.

3980 Hts = 2626.80 FT
1990 Hts = 1313.40 FT
5890' E
1990 Hts = 1313.40 FT

341.76 S
1303.51 E

5753.08
E 1208.14

51013.25
E 855.34 m/b, bca

322 ch. 212.52

1000' 1610' 900' 19'

North
Sec. 01, T. 28 N., R. 10 W., S. 18 E.

North
Sec. 01, T. 28 N., R. 10 W., S. 18 E.

0° 19'
914.4 005527 1313.4 = 7.26 N
00511 999985 1313.4 = 1313.38 W
Tang 006337

N 72030' E
300.706 = 9007 N
S 1417 300.706 = 96.37 E
Tang

Leech

N 1009' E

1052.14 = 892.327

North
Sec. 01, T. 28 N., R. 10 W., S. 18 E.

Levi Lego's 3rd Survey

August 7th C.J. Elsenpeter called
at the office one of Levi Lego's
deals has gone through and
he has sold the East end
of Lot 1 Ac. 6-142-30

I tell Elsenpeter I will
go out tomorrow and stake it
Doc. owner of Doc's

Lodge is buying the land and
he will help with the work

call Doc's Lodge 6 F 23
before I Lr in the morning

$$\begin{array}{r} 381.83 - S \\ - 40.07 - N \\ \hline 341.76 - S \end{array}$$

$$\begin{array}{r} 1208.14 E \\ - 95.37 \\ \hline 1303.51 \end{array}$$

$$\begin{array}{r} 1313.31 E + 1/16 \\ 1303.31 E + 1/16 \\ \hline 9.87 \end{array}$$

$$\begin{array}{r} 3411.76 - S at 90. to 1/16 \\ - 7.26 - N at 90- \\ \hline 349,02 N to 1/16 \end{array}$$

$$\begin{array}{r} 349,02 \\ + 0.2827918 \\ \hline 349,02198700 \end{array}$$

$$1037' = 0.28224 \times 34908 = 9.85 - close$$

Checking fig on Levi Lego's description

From NW Cor run S $892.32 + 175.4 =$

1067.72 S of NW Cor

From 1067.72 S run $N 81^{\circ} 45' E$ 666.8

$81^{\circ} 45'$

Sine $143493 \times 666.8 = 95.58 N$

Cosine $989,651 \times 666.8 = 659.9 E$

Tang 144993

1067.72 S

659.9 E

$= 95.58 N$

972.14 S = sta ① on hub 666.8

659.9 E

From Hub 666.8 run $N 86^{\circ} 32' E$ 195.8

$86^{\circ} 32'$

Sine $060468 \times 195.8 = 12.44 N$

Cosine $998170 \times 195.8 = 195.54 E$

Tang 060599

972.14 S

659.9 E

$- 12.44 N$

195.54 E

959.70 S

855.44 E

$$\begin{array}{r} 3223.75 \\ 143493 \end{array}$$

$$\begin{array}{r} 5754 \\ 72989651 \end{array}$$

$$\begin{array}{r} 6668 \\ 1147944 \\ 860958 \quad 4 \\ 860958 \quad 2 \\ 860958 \quad 3 \\ 955811 \end{array}$$

$$\begin{array}{r} 6668 \\ 7917208 \\ 59379048 \\ 59379046 \\ 59379068 \\ 6598492 \end{array}$$

$$\begin{array}{r} 56647 \\ 060468 \\ 1958 \end{array}$$

$$\begin{array}{r} 6483744 \\ 0302340 \quad 4 \\ 544212 \quad 4 \\ 60468 \quad 3 \\ 124396 \end{array}$$

$$\begin{array}{r} 9981704 \\ 1958 \end{array}$$

$$\begin{array}{r} 7985360 \\ 49908500 \\ 898353096 \\ 9981704 \\ 1935416 \end{array}$$

$$\begin{array}{r} 959.70 \\ 2315 \\ 98285 \end{array}$$

1013.255

982.85

Ph of bog is 3040 to far S. in

30.40

to far S in Description

$$\begin{array}{r} 34174 \\ 2040 \\ 31114 \end{array}$$

Chuck Buckleys Survey

18

Levi Legor

Gert & Kids take Lunch & we
drive to $\frac{1}{4}$ N. side Sec. 6-142-30
Walk North and open up the old
cut out N & S $\frac{1}{2}$ Sec. 31-143-30
Set flag at old hubs. spikes W.^d
as I do not know the course of
the lines in Section 31. I cannot
run the Trip line but I beg a
wit $\frac{1}{4}$ N side Sec. 6 and cut
line West until time to go home

Levi Legor. 19
Lot 1 Section 6-142-30

about Friday Aug. 31-1959
I pick up Fred Nickels
and we go to IM on N & S
E Sec 31-143-30

Over I.M. site N on flag on N & S
E Var. @ 00. N and run
N $89^{\circ}10'W$ parallel to the Range
line and set hub.

At still @ IM on N & S E
with $\frac{1}{4}$ Cor. IM (Brass Cap)
begs L. $55^{\circ}06' - 24.6$ ft.

Over hub on line parallel with
the Range line B.S. on IM on N & S E
and run $55^{\circ}06' L 24.6$ ft to
60' spike on temp Range Line

Over 60' spike B.S. on Brass Cap
IM. with $\frac{1}{4}$ and run West on Random
Range line, cut about 900 ft
heavy cutting wild grape vines

do not help. cut west and
hub to Big Leech Resort
road quit @ 5 o'clock
as we hit a tree we offset
.6 of a foot S to get by, then
set back, on true Random line

Wed. Sept. 5-1951 rains
 meet Levi Lega he wants
 to get his work done so
 he can sell the land & get his
 money. He can not help as he
 broke his hand. says he will
 help or get help.

I get gas & have Tank of cook
 gas sent to the house.

Lv Walker drive to Hub on
 Range line E of Big Leech Resort
 road. Set T over our 60' spike
 hub and cut line west. Levi
 comes with a man to help cut
 line west at about point for
 W. $\frac{1}{4}$ I.M. on N side Lot 1 Sec 6
 Levi & I take chain and goes
 E to wit $\frac{1}{4}$ to chain Range line
 rough to find out about where

to look for I.M. just get back
to wit $\frac{1}{4}$ to start chaining when
Robert Finday who Levi brought
to cut line comes and says he
has found the I.M. we leave chain
and all go back and continue
our line West @ 1298.88 W
U.S. chain as we do not chain
this line the E. $\frac{1}{4}$ brass cap. I.M.
sets S 1.15 feet.

We go to wit $\frac{1}{4}$ and set T over
I.M. chain W on our Nansom
@ 211. hub site N 89° 10' W on
corrected hub 211. and run in
Lake shore along edge of cut bank
20 ft or + from water's edge
run S 49° 47' W 150 ft to spike
" S 56° 37' W 110 ft to spike

Correction North line Lot 1

Acres - 142-30

1298.88 W.S. measure into 1,160
.0008853781

hub 211 W. goes S. 19° of a foot to True
line

run S 64°15' W 120 ft to spike

run S 59°41' W 70 ft set IM 2X36" pipe

SW corner of 450 foot of shore line +

Tower hub 70 run N 1°09' E

parallel to the West line of Lot 1

@ 250.2 set 2X36" pipe for NW Cor
of Tract 250.2 ft W of Brass Cap

IM. = wit 1/4 Cor. Home late

Work until 1-30 AM at office on
description + plat.

copy next page

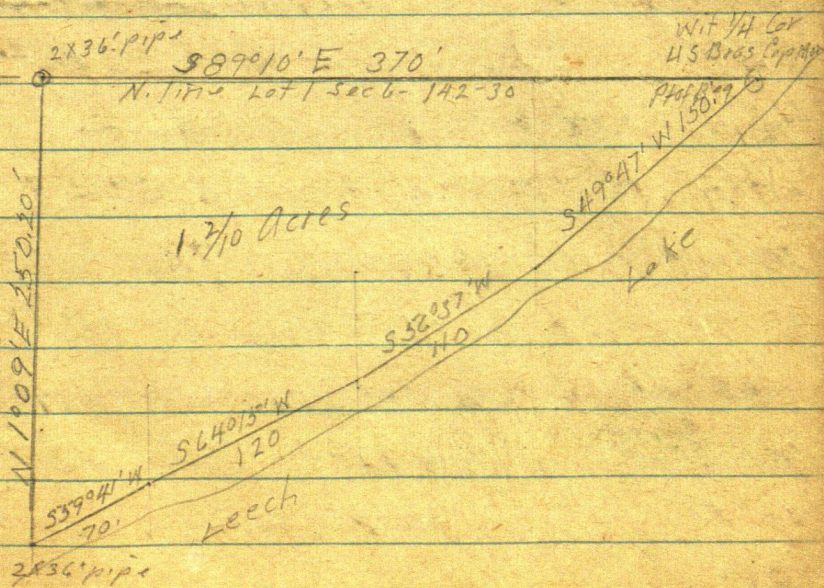


Description

East 370. feet of Government Lot 1: Section 6 Twp 142^N Rge 30^W of the 5th P.M. Cass County Minnesota conveying 450 feet or more Lake frontage fully described as follows to-wit Beginning at the witness $\frac{1}{4}$ Corner on the North boundary line of said Lot 1 being a brass capped Mark set by Government Surveyors in re-survey of Indian Lands and running thence S 49° 47' W 150 feet: thence S 56° 37' W 110 feet: thence S 64° 15' W 120 feet: thence S 59° 41' W 70 feet to a 2x36" pipe Thence N 1° 09' E parallel to the West line of said Lot 1 250.20 feet to a 2nd 2x36" pipe on the North^{Boundary} line of said lot 1: thence S 89° 10' E. along said North boundary line 370. feet to place of beginning

The land herein described extends south and west to the water's edge of Leech Lake and contains $1 \frac{3}{10}$ Acres as near as maybe

All courses taken from the True North line of said Lot 1 as given (S89°10'E) in said resurvey notes



26

Thurs. Sept 6-1951

take car to Garage

take description and my bill to
the bank - Bill - 100

get soap take home back
to office to catch up on my notes
rains hard around 1 o'clock P.M.

300
237.75
62.25

379
89.25
141.25

141.25
96.4
237.65

96.4
62.35
158.75

(27)

Leri Lego 4th Survey

Leri has sold the center
300 feet of lake shore he has
Left

Sunday Aug 30th 1953

Ed & I drive to Leri's property

Then I M S E cor of the 100 ft
tract surveyed in his 2nd Survey
site S 72° 30' W on SW Cor of said

100 ft tract run N. 80° 45' E 51.9 ft
89.35 - 141.25 hub 9 to seawall 13 W

Then 141.25 turn N 71° 00' E

96.4 + 62.35 = 158.75

51.9
62.25
114.15
89.35
203.50

158.75 ft
141.25 =
300.00 =

point for SW Cor of
Tract to be conveyed 20 ft to
seawall + 5 to water

Tower spike @ SW Cor run North
hit trees Turn $0^{\circ}20' L$ W at
spike in E old road.

At still @ SW Cor run East along
shore viz: $N 74^{\circ}51' E$ 300 ft
60 ft spike 25 ft from seawall.

→ We continue North chain from
SW Cor North 93 & tree trunk to
E tree 93 + 98 + 98 + 98

298

3

294

193

387

93

98

191

98

289

98

387

6585

46285

Figureing in Office

beg at a point useing the West line
as N + South

I. M. SW Cor of 100 foot tract see 2nd
survey is 753.08 ft S and 1208.14 ft
E of NW Cor of said Lot 1 - Sec 6 - R. 2-30
run N $72^{\circ}30'$ E 100 ft to SE cor of said
100 foot tract which is or should be
N $72^{\circ}30'$ E 100 ft

$$\text{Sine } 953717 \times 100 = 95.37 \text{ E}$$

$$\text{Cosine } 300706 \times 100 = 30.07 \text{ N}$$

$$753.08 \text{ S} - 30.07 \text{ N} = 723.01 \text{ fig}$$

Scaled 715. South

$$1208.14 + 95.37 = 1303.51 \text{ E fig}$$

Scaled 1303.51

So. SE Cor of 100 foot Tract
Second Survey is 1303.51 ft E
and 715. South of NW Cor of
said Lot 1.

Fig. continued
from I.M. 1303.57 E and
715 South we run

N $80^{\circ}45'E$ 141.25

$$\text{Sine } 986996 \times 141.25 = 139.41$$

$$\text{Cosine } 160743 \times 141.25 = 22.70$$

then we ran N $71^{\circ}E$ 158.75

to SW cor of tract to be conveyed

$$\text{Sine } 943519 \times 158.75 = 150.10$$

$$\text{Cosine } 325568 \times 158.75 = 51.68$$

N $74^{\circ}57'E$ 300 ft

$$\text{Sine } 965245 \times 300 = 289.57$$

$$\text{Cosine } 261347 \times 300 = 78.40$$

N $89^{\circ}46'E$

$$\text{Cosine } 005818 \div 289.57 =$$

$$2^{\circ} 999983 \div 289.57 = 289.57$$

0°50'

$$\text{Sine } 014544 \times 1593.02 = 2317$$

$$\text{Cosine } 999894 \times 1593.02 = 1592.85$$

$$014544 \times 1882.59 = 27.38$$

$$999894 \times 1882.59 = 1882.39$$

32
Levi Lego

Description of 4th Tract

A Tract or parcel of land lying
and being in Gov't Lot 1 Sec. 6
142-30 described as follows

beg. at an I.M. on the shore of
Leech Lake placed a point
1593.02 ft. East and 640.62
ft South from the NW Cor of said
lot 1 & running: thence $N1^{\circ}09'E$
parallel with the West line of
said lot 1 a distance of 615.00
ft \pm to the N line of said lot 1
thence $S89^{\circ}10'E$ following said
N. line 289.57 ft to a 3rd I.M.
thence $S1^{\circ}09'W$ 532 ft to 4th I.M.
on the bank of said Leech Lake
thence SW by along said bank
300 ft to place of beg. cont.
3.9 Acre \pm subj to 33 ft road along
the end -

$$\begin{array}{r} 272.5 \\ 370 \\ \hline 642.5 \end{array}$$

33

Sept 12-1953

I pick up Nora Sawyer
at 10-15 stop at Bill for coffee
Lunch .80 go home get thru bottle
get coffee .25 at Bill's drive
to Lot 1 see to - 142-30 arrive
about 11 o'clock leave car on road
walk S to lake then E to I.M.
then N to I.M. or N line see to
open up our old line W to
brass cap. I.M. eat lunch
P.M.

From old hub chain E $270 + 2.5 =$
 272.5 to I.M. NW cor. Doc's place
which is 370 ft W of what $\frac{1}{4}$ =
old hub is $272.5 + 370 = 642.5$
Correction for N line Lot 1
see page

• 0008853781

34

65,85

53, 44
 .000 885 3781

642.5

44268905

17707562

35715124 925

53022686 925

 .5688454 2925
 56785542

We correct hub 642.5

Tower hub 642.5 B.S. E on NW

cor IM Doc place & set spikes
 for intersection with my W
 random line of text we are
 staking out

from point 387 N chain N 63.85
 to 452.85 hub at intersection but

Levi Lego.

in Office figuring

Note as there has been three different surveys and description on three tracts sold in lot 1 Section 6 I do not remember if the W line of lot 1 was called N + S in the first tract sold. in checking over old sketch it look like it was.

So. in making this A survey in running N I do not know if courses were taken as they should be so I will check this angle. as I had to run $0^{\circ}20' L$ to miss a tree the correction for $N 0^{\circ}20' W$ 452.85 ft.

$$\sin 4 005818 \times 452.85 = 263 \text{ East}$$

$$\cos 4 999983 \times 452.85 =$$

IF I ran this line $N 10^{\circ} 09' E$
to hit the trees when I should
have ran North. Then the
Correction for this line would
be $N 0^{\circ} 49' E$ of true line and would
be $N 0^{\circ} 49' E \ 452.85'$

$$\text{Sine } .014253 \times 452.85' = 6.45'$$

$$\text{Cosine } .999898 \times 452.85' = 452.8'$$

Corrections

IF I ran North to hit tree
then my intersection hub
goes $E \ 2.63 \text{ ft.}$ to true point
IF I ran $N 0^{\circ} 09' E$ then my
hub will have to go $West \ 6.45'$
to true point.

We'll check angle to make sure.

Description

4th Tract

Contract for Deed

A Tract or parcel of land lying and being
in Gov't Lot 1 Sec. 6, Twp 142^N Rge 30^W of the 5th
T.M. Cas & County. Minn. Described as
follows:

Beg. at an I Pipe on the shore of Leech
Lake, placed at a point 1593.02 ft East
and 640.62 ft South from the NW cor of said
lot 1 and running; thence N 1°09'E parallel
with W line of said lot 1 a dist. of 615. ft ±
to the N line of said lot 1; thence S 89°10'E
following said N line 289.57 ft to 3rd IM
thence S 1°09'W 532 ft ± to 4th IM on
the said bank of Leech Lake thence
S W by, along said bank 300 ft to
place of beg.

Subj. to 33 foot roadway on N end
Note! this gives the W. line 615. ft ±
but it chains 452.8 ft.

38

$$\begin{array}{r} 69 \\ 20 \\ \hline 49 \end{array}$$

Sept 16 - 1953

I pick up Sawyer at Bills @ 9:50

drive to Courthouse to get this book

drive to Levi Logor lot 1 sec 6-

Arrive @ 10:30

A over intersection spike at

intersection of N line with random

W line of 300 ft tract site

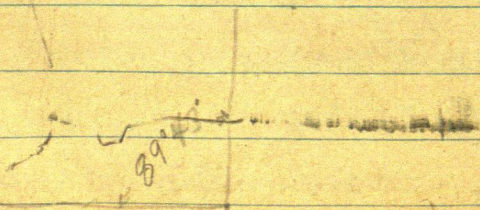
S $89^{\circ}10'E$ on hub on N linethe course of W random is $S0^{\circ}35'W$ it should be $0^{\circ}49'$

angle

A still @ intersection site E on

corrected line The TM Brass capped

set south .30 ft



293.2
289.57
3.63

293.2
~~642.5~~
935.7

39

from hub 642.5 see page 33 this book
we chain W 293.2 to point of
true intersection with West line
of 300 ft tract as the distance
from intersection point East
is 289.57 ft across the North
end of the 300 ft along lake shore
tract we go E to hub 642.5 and
chain West 3.63 ft.

From NW cor 300 ft tract run W
100.6 to Φ road. Then Φ hub 100.6
BS S $89^{\circ}10'$ E run 553.15 W along Φ
 $80-1.8 = 78.2$

T still @ 100.6 run S $61^{\circ}40'$ W 134.3
from AP at 78.2
to Φ in line with E line of 100 ft
tract.

from hub 100.6 in Φ chain W 266.9
to I.M. Brass Cap Mon.

AD

P.M.

We go To I M SW cor Doc's Tract
20 ft from Water Tower I M site $N1^{\circ}09'E$
on NW cor. Turn $N37^{\circ}41'E$ hit 60' spike as check.

from SW I M run lake shore
of tract between Doc's Tract and
the 300 ft tract

From I M run $S60^{\circ}43'W$ 77.7
to A.P. 60' spike. Over A.P. B.S.
 $N60^{\circ}43'E$ SE cor of 300 ft tract
bears $S68^{\circ}26'E$ 224.7

Over SE cor B.S. $N68^{\circ}26'E$
and run $N1^{\circ}09'E$

Note do not seem to be coming out right
too far E

At SE cor of 300 ft tract
SW cor bears, $S75^{\circ}45'W$

When we set these stake coming from the
West this course was $N74^{\circ}51'E$ we

2510.5
7451
30

To follow SE Cor of 300 ft tract we sit
 $S 74^{\circ} 51' W$ Turn 90° and hit spike at NE Cor.

From NE Cor 300 ft Tract
 chain South to SE Cor

@ 180 p.m. + 195 = 375: stop

+ 200 p.m.

quit @ 4

44 Lot 8 Sec. 20 - 142-30

Sept 28th 1953

Mrs Humphrey Leaves
word at County Attorney's
Office that she wants
some survey work done

Sept 29 1953

in office A.M.

P.M. I drive to Mrs
Humphrey's place on Leech
Lake being that part of
Gov't Lot 8 Sec. 20 - 142-30
Lying West of the Onigum
road. She has sold a strip
of land along the North side
of her property wide enough
to lake in a large boat house
and two cabins the line
should run about 10 feet

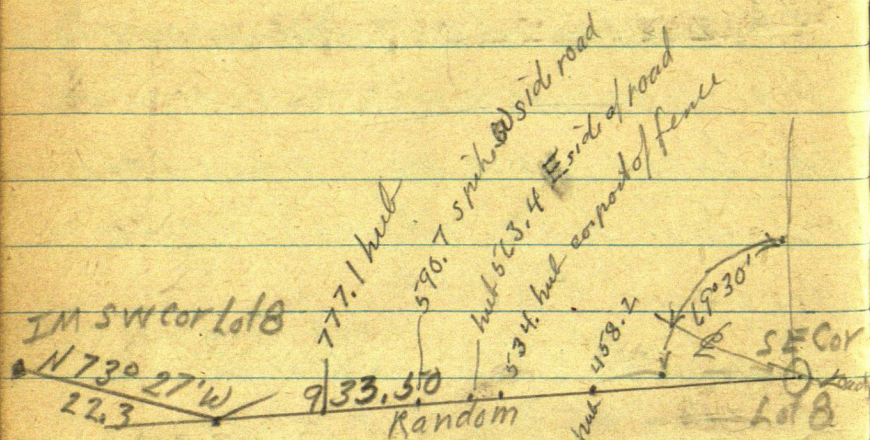
South of the south side of
the South cabin. She wants
this staked out and acreage
fig. also wants acreage of
the land she will have left.

I tell her it will cost
around \$30.00

I am to start Wed 30th of
Sept 1953 if it does not
rain,

as I did some work
in said Lot 8 East of the
Onigum road for Albert F.
Lang. See page 5 to 12 this book

old Notes page 5 to 12 this book
old random. South line Lot 8



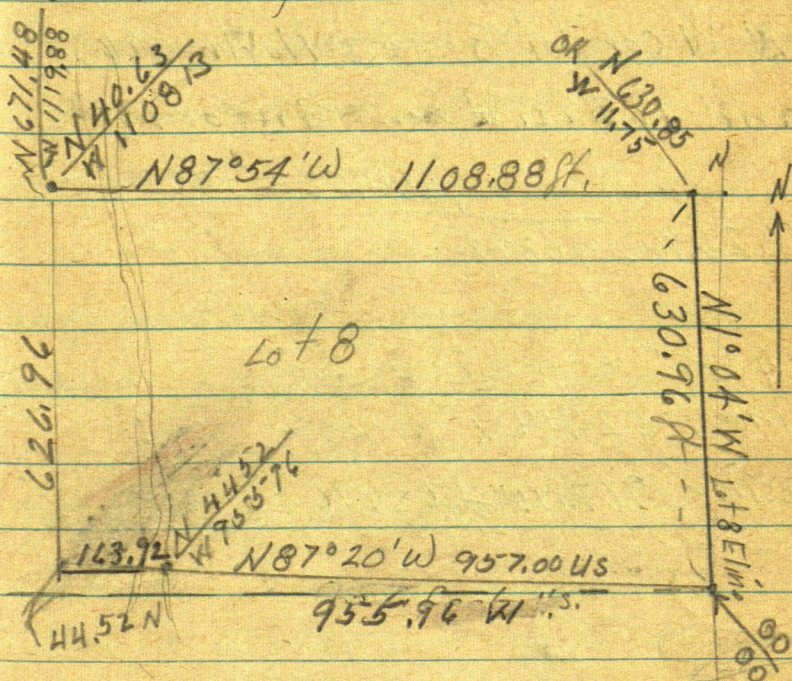
correction for this South line of Lot 8
see page 9 this book

old Notes page 12 says com IM 536.00 ft
W of SE cor and on Right of way line + -
r 41 N 20° 34' W along said R.-of-W 133 ft to IM
1/2 x 14 road

954.88 My chn 1951

f19

US Plot of Lot 8 - Sec 20-142-30



N. 100° 04' W 630.96

Sine $018616 \times 630.96 = 11.75 W$ Cosine $999827.63096 = 630.85 N$

N 87° 54' W 1108.88

Sine $999328 \times 1108.88 = 1108.13 W = 1108.05 W$ Cosine $036644 \times 1108.88 = 40.63 N$ 46.63 N

N 87° 20' W 957

Sine $998917 \times 957 = 955.96 W$ Cosine $046525 \times 957 = 445.2 N$ Sine $\times 536 = 535.42 W$ Cosine $\times 536 = 24.94 N$

Sine

Cosine

46

fig

N W cor lot 8 sets North 626.96 ft
and 163.92 ft from SW Cor Lot 8

$$261452 = 14^{\circ}39' +$$

$$626.96 \sqrt{16392}$$

$14^{\circ}39'$ as a check of fig

$$\text{since } 252914 \times 648.08 = 163.91$$

$$\text{Cosine } 967415 \text{ into } 626.96 = 648.08$$

Sawyer & I & Walker around
10 am. drive to Govt Lot 8 Sec 20-142-36

Now I M SW cor said lot 8 as I
can not pick up my old random
hub. set 22.3 ft from this I M see
pag 5-12 I just site E at & blazed
pine tree and T set @ $N 87^{\circ} 20' W$ site
 $N 14^{\circ} 39' W$ to a point on N line of Lot 8
about. We then go N to N line and
look for NW cor I M which we find
as this I M is bent we take it up straighten
it up and put it back in same spot
as there are some trees in line between
the SE & SW corners I M. I offset w. 500 ft
foot at each I M. flag held .5 W of SW cor
T @ .5 W of NW cor Van set @ $14^{\circ} 39' N W$
site along this line as fig. and run
 $S 87^{\circ} 54' E$ along the N line of Lot 8.

as the fences seem to be 100 feet
apart along right of way making
the road 100 feet wide we set a 60^d
spike in line with the fences also
a spike along the line to get the dist.
to the second cabin as the S line is to
run 10 ft S of said cabin we also
set a 60^d spike W on sea wall about
10 ft from water S. and W.

Then spike on line bet I M & road
site along N line Lot 8 Var. @ 00°
the SE cor of Cabin bears

Tris to I M SMC set by U.S.
Turn^W Oak 'separate 3 ft up

20 x 24 bears N 52° 51' W 12.83

Elin 18 bears S 75° 30' E 4.10

$$\begin{array}{r} 150 \\ 24 \\ \hline 14720 \end{array}$$

49

from spike on Ref Way chain to

@ 70 ft spike base

$270 - 2.55 = 267.45$ to IM SMC NW Cor 168
+ 43.3 spike on seawall

Never hit 70 ft site W on IM Var @ 00
SE cor Second Cabin bears L $80^{\circ}50'$

$150 - 280 = 147.20$

$80^{\circ}30' = 9^{\circ}10'$

Sine $159307 \times 147.2 = 23.45$

Cosine $987229 \times 147.2 = 145.31$

$$\begin{array}{r} 159307 \\ 147.2 \\ \hline 318614 \\ 1115149 \\ 637228 \\ 159307 \\ \hline 23.449 \end{array}$$

$$\begin{array}{r} 987229 \\ 147.2 \\ \hline 1974458 \\ 26910603 \\ 3948916 \\ 987229 \\ \hline 1453101 \end{array}$$

π still @ 70 Turn 90° + run
155 ft at spike.

Turn 155 Site Non hut 70 Turn 90°
hit big tree SW cor of 2nd Cabin

beats R, $5^\circ 15'$ 46.1

$5^\circ 15'$

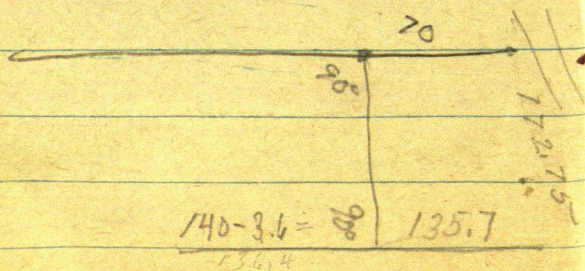
Sine $091502 \times 46.1 = 4.22$

Cosine $995805 \times 46.1 = 45.91$

$$\begin{array}{r} 091502 \\ \quad 46.1 \\ \hline 91502 \\ 349012 \quad 2 \\ \hline 366008 \quad 2 \\ \quad 421824 \end{array}$$

$$\begin{array}{r} 995805 \\ \quad 46.1 \\ \hline 995805 \\ 3974830 \\ \hline 3983220 \quad 5 \\ \quad 45.90661 \end{array}$$

We run 55 ft making a total of 160 ft
wide.



Time home 4-30

Sawyer + I drive to Lot 8 - Sec. 20
142-30 Aloe π . - 18-30 E

over I M on S line Lot 8 site E
on old corrected hut 458.2 and
run West on S line of said Lot 8
@ 40 ft = ϕ road @ 75.8 hit 60' spike
under fence @ 92.2 set a pump point
in line with the fence along the
right of way from the N line of Lot 8
and running S.E. 1°

Aloe π over point .5 W of I M
S W cor lot 8 site N $14^{\circ}39'W$ to spike
.5 W of NW cor of said lot
We take stada of ^{top of} bank of Leech
Lake about 20 ft from water

Stada of top of Bar. 4 2 ft from
 brink lot 8 sec 20 - 142-30
 T. 50 W of SW cor. run.

Stada 120 bears N $18^{\circ}30'W$

" 200 " N $13^{\circ}15'W$

" 260 " N $9^{\circ}W$

" 340 " N $10^{\circ}45'W$

Move T to hub @ SW cor of
 160 foot tract site S $87^{\circ}54'E$

142. bears S $23^{\circ}E$

90 " S $16^{\circ}50'E$

21 " S $4^{\circ}20'W$

55... " N $9^{\circ}W$

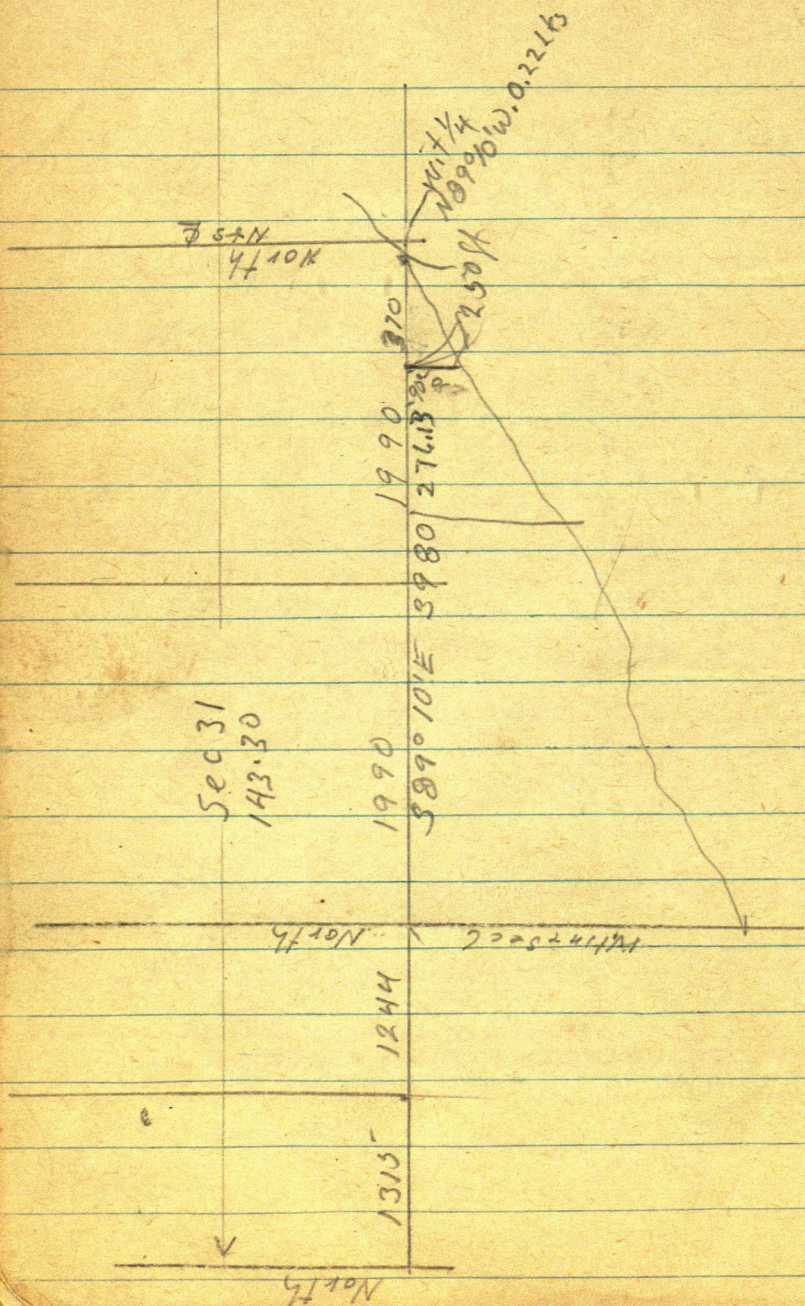
97 " N $17^{\circ}10'W$

190 N $35^{\circ}08'W$ to spike

on N line lot 8 $43.3'W$ of I M

54

Levi Lego's old property.
 Sec 6-142-30



370
276
246
289
935

289.57 276.13 370

45

Monday
June 12-1955

Ed & I drive to Wit $\frac{1}{4}$ S. rd.
Sec 31-143-30 Loc at
Buckley's Resort Walk
West along the S line Sec 31
Lv outfit drive back to Walker
see Thomas have dinner
P.M.

Ed-John & I to Sec 31
Tone hut 660.65 W of Wit $\frac{1}{4}$
Sec 31-143-30 Site W on hut
place for IM 589°10'E and
run N in Sec. 31,
set IM on lak. shore at old
wood stake which I set on my
last survey here also set
IM at hut 660.65 W of Wit
M.E. or Wit $\frac{1}{4}$ cut line
N to Big Leech Resort

$$\begin{array}{r}
 488.10 \\
 530.3 \\
 \hline
 569.7
 \end{array}
 \qquad
 \begin{array}{r}
 4 \text{ } \cancel{4} \\
 9.7 \\
 \hline
 38.3
 \end{array}
 \qquad
 57$$

road and chain same
 from IM on Top line 66965
 W of W $7\frac{1}{4}$ viz: $600 - 30.3 =$
 569.7 hub $600 + 220 = 820 +$
 $15.5 = 835.5$ hub in $\&$ road

Tower 835.5 B.S. set up to 35 ft S

Still @ 835.5 run N $76^{\circ}34'E$

$150.2 - 7.0 = 143.2$ pt in $\&$ road

Tower 143.2 B.S. $74^{\circ}34'W$ run

N $73^{\circ}06'E$ 70 stadia run N $67^{\circ}40'E$

$190.1 - 8 = 182.1$

Tower 182.1 run N $66^{\circ}15'E$ 50 stadia

run N $73^{\circ}25'E$ 320.4

continue N $73^{\circ}25'E$ @ 53.2 hub @ 56.9

hub.

From Brass Cap IM $\frac{1}{16}$ chain

S 175.8 old 40 ft spike on top

Tower 175.8 B.S. on B.P. IM

58

$$\begin{array}{r} 320.4 \\ 47.2 \\ \hline 367.6 \end{array}$$

and run S. on true N+S
 £ @ $100.3 - 6.0 = 94.3$ intersection
 of N+S£ with £ road + 50 to IM
 From 320.4 in £ road chain
 E $50.2 - 3 = 47.20$

From 47.20 chain $S 73^{\circ} 25' W$
 13.5 to spike in £ Buckleys i.
 road

Over 13.5 BS $S 73^{\circ} 25' W$

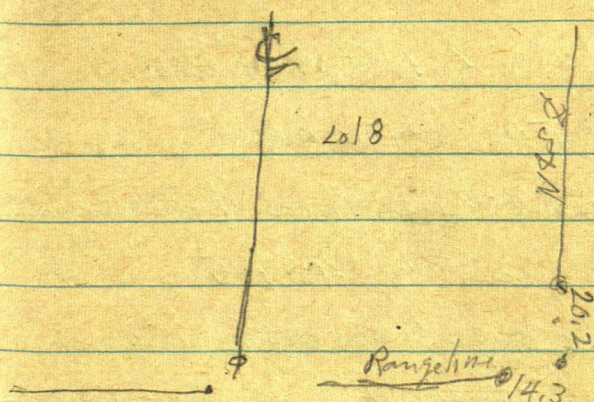
Buckleys road bears $S 41^{\circ} 36' E$

E ditch is 48 ft E from intersection
 but W ditch curves to come out
 at about 320.4

143-30

59

Buckley Sec. 31 - Lot 8



Over IM Wit ^{1/4} AC on N & S &

Sec 31 - 143-30

side North on old 60' capite on
true line set by JWCuro

extend N & S & South from Wit
^{1/4} S side Sec 31

I intersect N & S & with
range line at IM for True
^{1/4} Cor S side Sec 31

Over ^{1/4} run S 48° 05' E
14.1 to IM on seawall Water 15

60

189.9

Tower hub 9.4 ft N of $\frac{1}{4}$ run N $50^{\circ}12'E$ 200 ft.from wit $\frac{1}{4}$ m N & S & chain
N @ 300 pin @ 489.5 IMTower IM site S on wit $\frac{1}{4}$ &run S ^{22°19'E} ~~320~~ 41'E 250 + 140 +
140

13.1 = IM

+ 25 seawall + 15 water

250

140

1131

4031

20.2

9.4

108

390

13

489.5

202

5097

Alfred C Rausch
Sec. 20-142-30

Sept. 20-1956

Rausch comes to my office
wants to know the cost to survey
a tract of Land in Sec. 20-142-30
I tell him \$50⁰⁰ - the description
of his tract is in Reg. of Deeds
Office to be filed

I check on description
which reads

The South 400 feet of the North
820 feet of all that portion of
the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Sec. 20
Lying and being West of the
Origum Road.

62

Sec. 20-142-30

140	05
279	95
<hr/>	
420	00

5

6

x Center

7

8

Humphrey
old Resort

SE 1/4

SW 1/4

$$\begin{array}{r}
 420 \\
 14005 \\
 \hline
 27995 \\
 400 \\
 \hline
 6
 \end{array}$$

929884 63

$$\begin{array}{r}
 430 \\
 27896520
 \end{array}$$

Don & I Town I Men S line lot 8

Sec 20-142-30 site W on line

Turn 90° and run S @ 140.05 feet on
W shoulder road.

Turn 140.05 as this line go into woods
we will run along road Turn R or E
21°35'

Sine 367854

Cosine 929884 into 279,95 = 301.06

929884 int 679,95 731.22

$$\begin{array}{r}
 1231363512 \\
 929884 \\
 43014 \\
 \hline
 3719536
 \end{array}$$

$$\begin{array}{r}
 929884 \\
 43014 \\
 \hline
 3719536
 \end{array}$$

$$\begin{array}{r}
 43014 \\
 \hline
 3719536
 \end{array}$$

$$\begin{array}{r}
 3719536 \\
 929884 \\
 \hline
 27896520
 \end{array}$$

$$\begin{array}{r}
 929884 \\
 27896520 \\
 \hline
 3719536
 \end{array}$$

$$\begin{array}{r}
 27896520 \\
 3719536 \\
 \hline
 39998030376
 \end{array}$$

$$\begin{array}{r}
 3719536 \\
 39998030376 \\
 \hline
 39998030376
 \end{array}$$

$$\begin{array}{r}
 39998030376 \\
 \hline
 39998030376
 \end{array}$$

$$\begin{array}{r}
 243014 \\
 21507 \\
 \hline
 27896520
 \end{array}$$

$$\begin{array}{r}
 21507 \\
 \hline
 27896520
 \end{array}$$

$$\begin{array}{r}
 27896520 \\
 14005 \\
 \hline
 42000
 \end{array}$$

$$\begin{array}{r}
 14005 \\
 \hline
 42000
 \end{array}$$

$$\begin{array}{r}
 42000 \\
 \hline
 67995
 \end{array}$$

$$\begin{array}{r}
 67995 \\
 114005 \\
 \hline
 82000
 \end{array}$$

$$\begin{array}{r}
 114005 \\
 \hline
 82000
 \end{array}$$

$$\begin{array}{r}
 82000 \\
 \hline
 82000
 \end{array}$$

Tower 60' ^{on path on} N line of
 S 400 of N 420. into E and
 run N 17° 05' W

Sine 293762

Cosine 955879 into 400 = 418.46

into 200 = 209.23

Run S 17° 35' W

17° 35'

Sine 302093

Cosine 953279 into 200 = 209.8

23

57

Tower 209.8 BS N 17° 35' E +

run S 18° 30' E.

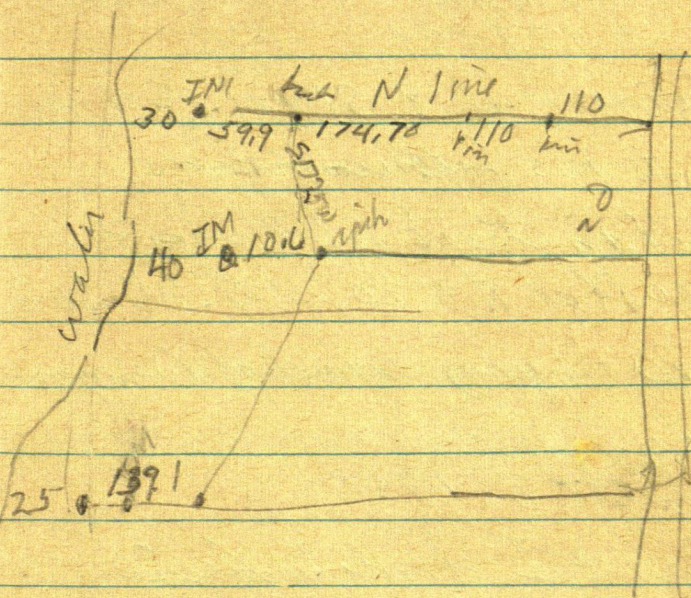
Sine 317305

Cosine 948324 into 200 = 240.90

Tower 210.9 Run E + West

West 139.1 + 25 water E to R of W

220
17478
39470



Description South 200 of N
420 ft of Lot 7 - East of road

66 20 IN 5405 - 5

119.9 N + 79.9 - 5 =

+ 79.9 - 4 =

+ 89.5 - 7 = IM,

+ 137 = Star

Turner at Y Store call me
wants his father-in-law's

Tract on Govt Lot 7 Sec 1 on
S 100 ft of N 420 ft of SE $\frac{1}{4}$ - SW $\frac{1}{4}$
Sec 20 - Lying West of Onigum
road.

Oct 6 - 1956

Don & I drive to Sec 20
Windy as hell. Over hub
on N line of N 420 ft of said
SE $\frac{1}{4}$ - SW $\frac{1}{4}$ site West on IM
S.W. Cor of said 420 ft Turn 90°
run N 100 ft hub Over 100 ft Turn 90°
run W 54.10 set IM 20 ft from
water run E 119.9 hub @ 194.8
hub @ 270.7 hub @ 353.2 set
IM @ 407.7 & Onigum road.
all hub = 60% spikes

$$\begin{array}{r} 119.9 \\ 749 \\ \hline 1948 \\ 759 \\ \hline \end{array}$$

$$\begin{array}{r} 2707 \\ 825- \\ \hline 3532 \end{array}$$

$$\begin{array}{r} 270.7 \\ 137 \\ \hline 4077 \end{array}$$

68

School day at Courthouse
Harry James

Lot 8 section 31-143-30

April 24-1958

I go to Court house and try to find some notes of Donn's survey he made for Harry James can not find anything try to call Harry 30363 ? and 30353W can not locate Harry drive home get John we drive to Y where we find Harry working. Harry says Donn's made a plat of his place but can not remember what they called the plat. I take John home and go back to the Courthouse. there is no plat but the Auditor has the plat Donn's made which I get and make a copy of

PM

drive home get John and
drive to Big Leech Resort and
then to Harry James Res.
Harry goes with me to look
for I.M. We find the I.M. on
back of lot 8 most of them taken
out by road.

The MC. at cor of lot (1) is
in but the $\frac{1}{4}$ 2.5 ft of said.

lot corner is there but out
we drive to the NW cor of the W
500 ft find I.M. and at 660
we find a 2" capped pipe.

Tower 660 BS on 500 ft cor I.P.
and ran East @ 294.6 hub +

200	- 494.6	min	662.5
+	130		124.6
	<u>624.6</u>	min	37.9
			<u>5.5</u>

Apr. 25-1958

We go to Brainerd get Ed
suit

Home at 3:15 Ed & I to Big Lake
Resort and Lot 8 Sec 31-143-30

Turner I M NW cor Lot 12 of
James Add. to Pine Point
site on flag at NW cor Lot 8
Transit Tel. chain 79.1

to pt on lot line N line Gov't Lot 8
from T chain Ely 200 set
it in road Lot Cor

Turner pt in road lot Cor
set Non I M lot cor Transit
Tel.

Sept 12 - Sat. 1958

Don & I drive to

E K Thorgaard's (part.
of Buckleys Place)

The $\frac{1}{4}$ Cor N side Sec. 6 142-30
is gone also the I M out by
agreement or sold showing the
line from said $\frac{1}{4}$ to water of Leech Lake
Boat house has been built over
the line

A over point near corner of
Boat house into N on flag at
I M - I M Hit! corner bears

$$S. 22^{\circ} 55' E 30.2 - 7 = 23.2$$

$$\text{Sine } 389392 \times 23.2 = 9.03$$

$$\text{Cosine } 921072 \times 23.2 = 21.37$$

$$\begin{array}{r} 21.37 \\ 9.03 \overline{) 21.37} \\ \underline{21.37} \end{array}$$

$$\begin{array}{r} 1^{\circ} 03' \\ 9.03 \overline{) 21.37} \end{array}$$

$$\begin{array}{r} 489.5 \\ 21.37 \\ \underline{468.13} \end{array}$$

$$\begin{array}{r} 489.5 \overline{) 90.30} \\ \underline{489.5} \\ 0.80 \end{array}$$

$$.018447395 = 18$$

OK

74

120.7

$$\begin{array}{r} 113.7 \\ 87.6 \\ \hline 201.3 \end{array}$$

89.6

87.6

219.8

$$\begin{array}{r} 6 \\ \hline 213.8 \end{array}$$

Sept 22 - Monday 1958

Don & I get Notes at Court house
Drive to Pine Point

Travel wit IM on NTS & set
by J.W.C. site S thru IM set by
me in Buckley's Survey this
book.

we re-set point for tract 1/4
N side Sec 6 - by flat chain
from witness IM.

Travel 1/4 site N + run S $48^{\circ}05'E$
16.1 ft to point where IM was to
set water 20' E 13.6 water 25'

Travel IM - North corner of tract
△ site S on line Turn L $22^{\circ}19'$
29.1

Still at N corner run S $36^{\circ}30'W$
@ 113.7 had pt. for IM, + 87.6 = 201.3 NW cor

80.1

76.4

79.53

6

2138

76.1

74.5

75

364.4

Tower USBC Mon. Site N
 Baron $0^{\circ}00'$ run S $23^{\circ}33'E$ 13.6

Tower 201.3 BS N $36^{\circ}30'E$
 + run S $16^{\circ}49'E$ @ 87.6 spits pt for IMA
 @ 213.8 spits hub pt for LMA (+76.1) hub pt for
 +73.55 = 363.4 to USBC Mon / turned
 E 16.1 to $\frac{1}{4}$

190.4
170.1-

Sept 24 - 1958

Don & I to Pine Point

Tower I.M. on Lake shore 30

ft from water side. N on

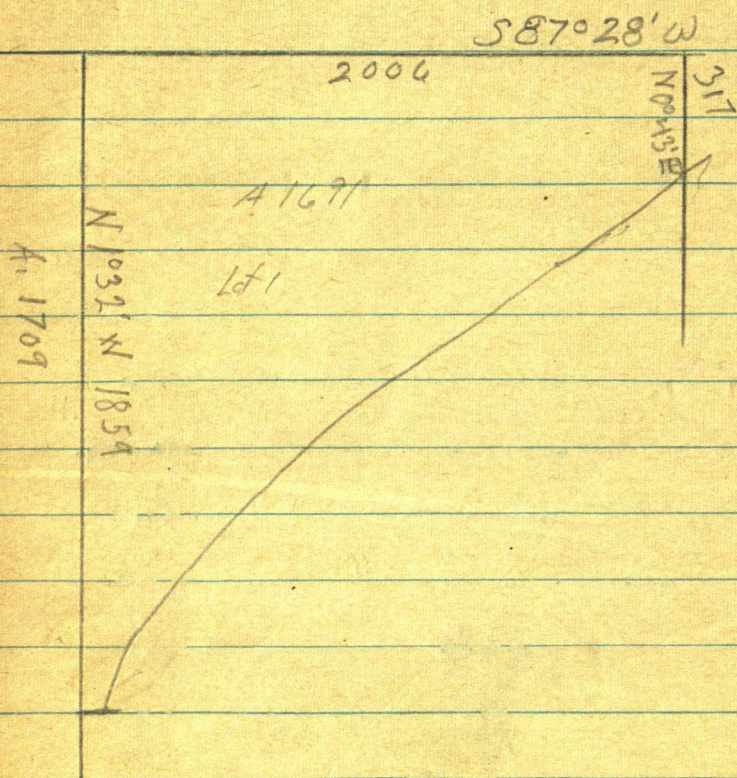
I.M. turn R run $N 72^{\circ} 30' E$

100 ft

£ road - 30 to I.M. + 41.5 I.M. +
185.4 I.M. + 169.1

78

Sarah T. King
 Lot 1 Sec. 13 - 14 - 28
 Sept 14 - 1959



Ed birthday He goes to
 Martins

Don I go to courthouse copy
 Re-survey plat
 call Don.

Don't I to King's

80

92
104.4
 196.4

20.00
63.03
 6.27

625.68
506.4
 119.28
55.55
 63.73

92
 104.4
3.0
 506.4
 55.55

292

104.4

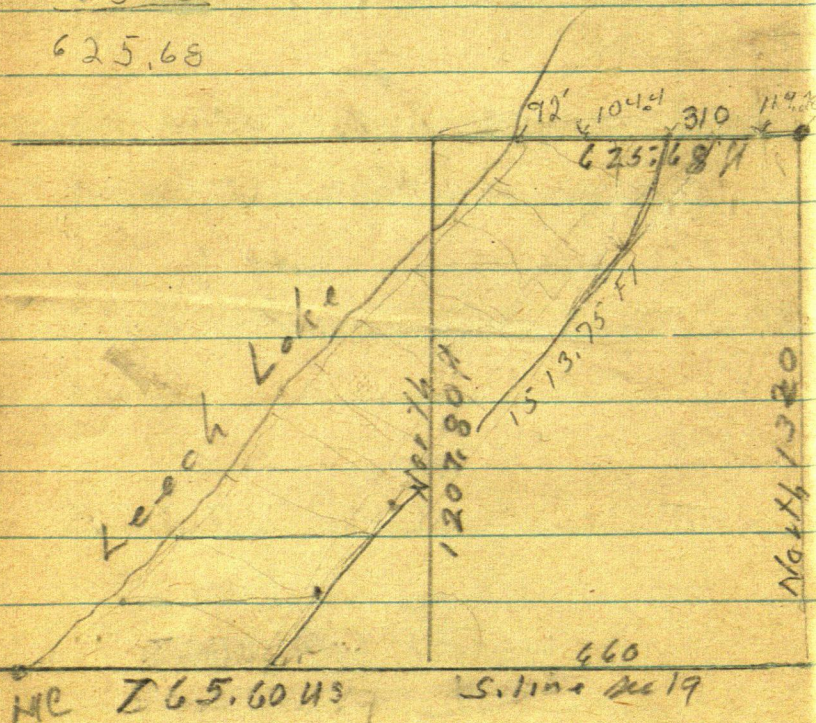
310.6

55.55

63.73

625.68

Edwin L + Violet V. Olson



300
220
520

995
115
120

160
294.4
454.4
.6
455.0

397.15
455
520
145
855
141.6
1513.75

500
165
335
88

81

Friday May 5th 1961

I took contract to plat
Parts of Lot 4 and W $\frac{1}{2}$ of SW
 $\frac{1}{4}$ of SE $\frac{1}{4}$ sec. 19-142-30
for \$600 get check for \$165.00 on account

Ed. John & I to Lot 4

Tower hub on IM on S line of
Lot 4 291.75 ft East of M C
SW cor lot 4 with East on flag at
SE cor lot 4 and run lot line
along street

run N $33^{\circ}55'E$ 97.15 to sta 1

Turn sta 1 BS.S $33^{\circ}55'W$ run

N $35^{\circ}06'E$ 455. to sta 2

Turn sta 2 BS.S. S $35^{\circ}00'W$ run

N 31° E 520 To sta 3. Turn

Sta 3 BS.S $31^{\circ}W$ run N $18^{\circ}10'E$

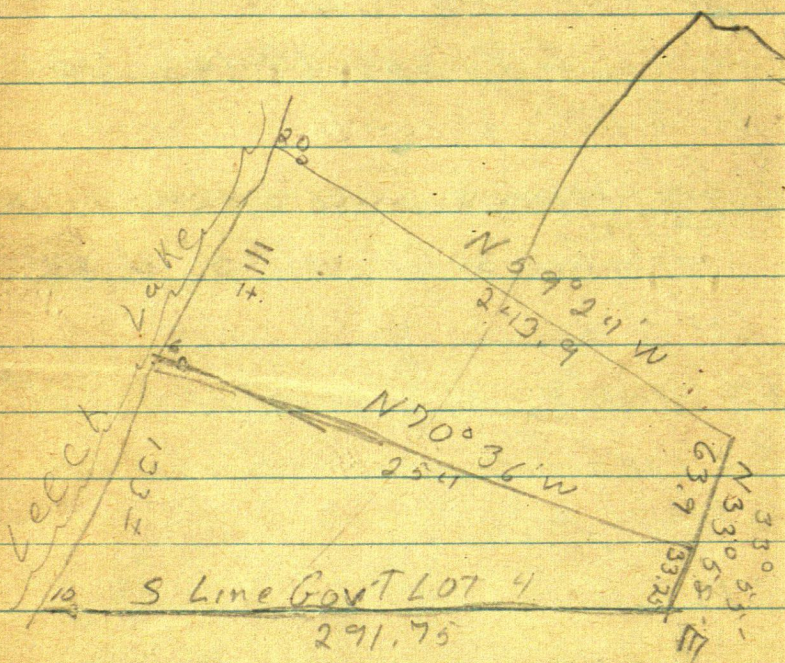
145 to sta 4. Turn sta 4 BS.S $18^{\circ}10'W$ run

N $15^{\circ}10'E$ 155 to Sta 5. Turn sta 5

82

291.75
63.25
43.25
43.25

63.9
33.25
97.15



33.25
43.25
97.15

8.4
51.6
60.0

BS. S $15^{\circ}10'W$ run N $13^{\circ}37'E$ 141.6 to Sta 6
 on N Line of Gov't Lot 4. 196.4 ft E of NW
 Cor Lot 4. Tower sta 6 BS. S $13^{\circ}37'W$
 run N W 196.4 ft to NW Cor Lot 4
 sta 7, 30 ft from Water. Tower sta 7 BS
 S E run S W 95' to sta 8
 30 ft from water Tower sta 8 BS
 N W run S W 135 ft to sta 9
 45 ft from water Tower sta 9 BS N
 E run S W 90 ft to sta 10
 30 ft from water Tower sta 10 BS N
 E run S W 110 ft to sta 11
 30 ft from water Tower sta 11 BS N
 E run S W 135 to sta 12
 30 ft from water Tower sta 12 BS
 N E run S W 100 to sta 13
 ft from water Tower sta 13 BS N E
 run S W 75 to sta 14, 50 ft from

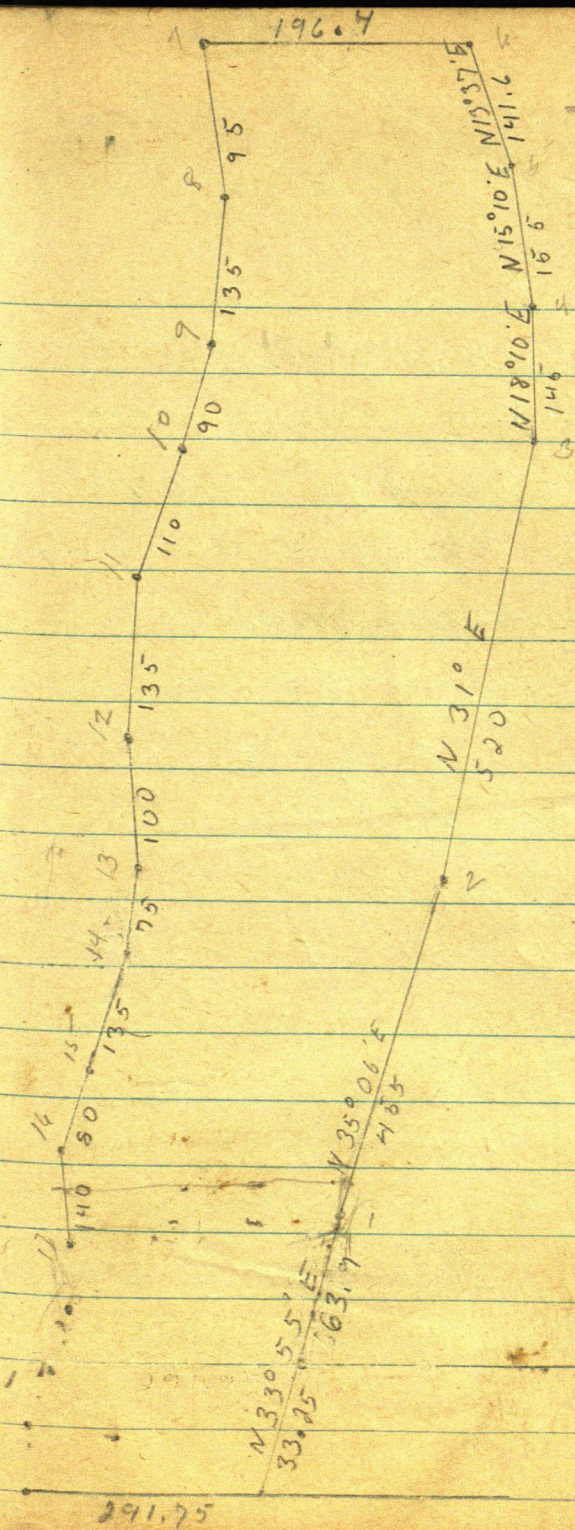
84

20013

8

1923

Water Tower sta 14 BS N E
run S W 135 ft to sta 15, 30 ft
from water Tower sta 15 BS N E
run S W 80 to sta 16 1 ft
from water Tower sta 16 BS N E
run S W 140 to sta 17



83-

May 16th 1961

Ed sick. John, Bob, & I to
O/some

Now ^{60 ft} from water
MC site S 13°37' W ~~the~~ course
of the N line checks out at
S 89°59' W - should be 90°

Now MC BS N 89°59' E + run
S 9°25' W 95 ft ^{water 50} Now 95 BS N 92°5' E

run S 27°19' W 135 ft water 75'

Now 135 BS N 27°19' E run S 17°48' W
90 ft water L 50'

Now 90' BS N 17°48' E run S 49°02' W
110" ^{water 40} Now 110 BS N 49°02' E run

S 25°01' W 135 water 75'

Now 135 BS N 25°01' E run S 12°54' W
100 water 80'

Now 100 BS N 12°54' E run S 31°24'
75 water 80'

180.3	295	87
3	160	
177.3	435	2
117.9		
295.2		

Tower 75 BSN 31°24'E run

S 43°26'W 135' Water 70'

Tower 135 BSN 43°26'E run

S 54°48'W 80 Water 80

Tower 80 B N 54°48'E run

S 26°37'W 140'

We set two spots on line for intersection
of this line and E line of House lot
We intersect this E line with this
line which comes in ditch so we change
street line

Tower 455 on street line point N 55°06'E
and run N 33°54'E 119.9 - 2 = 117.9 + 100' run

Tower 117.9 B S S 33°54'W etc 3 bear
N 35°52'E 177.3

Still at 117.9 lot line runs N 48°57'W

88

$$\begin{array}{r} 158 \\ 80 \\ 2325 \\ \hline 25325 \end{array}$$

$$\begin{array}{r} 232 \\ 30 \\ \hline 53.2 \end{array} \quad \begin{array}{r} 1923 \\ 528 \\ \hline 2448 \end{array}$$

Move π to pt 150 ft N $31^{\circ}06'E$ of
sta 1 set S $31^{\circ}06'W$ lot line runs
lot line bet lots 3+4 - bears on runs
N $59^{\circ}40'W$

π still at back cor lots 3+4 run N $34^{\circ}00'E$
128.5 to back cor bet lots 4-5 lot line
bet 4+5 runs N $48^{\circ}57'W$ $150 + 80 + 23.25$
 ≈ 253.25 to intersection of shore line

50 ft from water

intersect lot line bet lots 4+5 at 53.2

S $26^{\circ}37'W$ of sta 16 -

Over sta 17 BS N $26^{\circ}37'E$ + run

S $37^{\circ}17'W$ 88.65 cor bet lots 3-4

run S $35^{\circ}01'W$ 149.45 to IM lot cor

bet lot 2-3

lot line bears S $59^{\circ}10'E$ $52.5 + 192.3 =$

244.8

$$\begin{array}{r} 1772 \\ 1285 \\ \hline 1500 \\ 465 \end{array}$$

May 18th 1961

Ed-John + I to Olson's to check
boundary courses of tract we are
plattting which seems to be off 0°30'
on our first run

Tower IM on S line of tract
291.75' E of P.P.C. site E of flag of IM
SE cor lot 4 Acc 19-142-30
and run N 33°53'E 97.15

Tower 97.15 BS S 33°55'W run
N 35°06'E 150. Tower 150 BS
beings cor to lots 3+4 BS S 35°06'W
lot line bet lots 3+4 N 59°40'W
run N 33°58'E 128.5 Tower 128.5

Lot line bet lots 4-5 run N 48°58'
Tower 88.5 run N 35°52'E to AP
run N 35°04'E to AP

Tower AP run N 30°56'E 520 to AP
Tower 520 AP BS S 30°56'W 4 run
N 18°06'E 145.0

$$\begin{array}{r}
 128565 \\
 \hline
 769890
 \end{array}$$

$$\begin{array}{r}
 128565 \\
 \hline
 385695
 \end{array}$$

$$\begin{array}{r}
 128565 \\
 \hline
 642825 \\
 5333 \\
 128565 \\
 \hline
 771390
 \end{array}$$

.0353362

128565 $\sqrt{1455300}$

JH

M. R. Popplewell

1719 20th St.

Rock Island Illinois

$$\begin{array}{r} 1500 \\ 2400 \\ \hline \end{array}$$

.0353362

128565

455300

385695

696050

642825

432250

385695

465550

385695

798555

642825

153725

642825

128565

771390

798555

771390

26660

5

62568

353363

62568

2826604

2120178

1766815

706726

1766815

185755

10 ft Long

92

4902

2501

135



42°54' 70

31 24 70

43 26 135

54 48 80

26°37' 140

Tower 145 BS S 18°06' W run N 15°06' E

155 ft Tower 135 BS S 15°06' W run
N 13°33' E 141.6 to pt on N line

Tower 141.6 on N line BS S 13°33' W + run
S 89°50' W along N line lot to IMMC

Tower IMMC BS N 89°53' E run station
S 8°35' W 95' Tower 95 BS

Back on 141.6 BS S 13°33' W IMMC bears
S 89°53' W 196.4 to MC

Tower MC BS N 89°53' E along Temp
N line and run S 8°41' W 95'

Tower 95 BS N 8°41' E run S 27°20' W 135 L

Tower 135 BS N 27°20' E run S 17°46' W 90 L

Tower 90 BS N 17°46' E run S 48°58' W 110 L

Tower 110 BS N 48°58' E run S 24°55' W 135 L

Tower 135 BS N 24°55' E run S 12°46' W 100 L

Tower 100 BS N 12°46' E run S 31°14' W 75 L

Tower 75 BSN $31^{\circ}14'E$ run $S43^{\circ}12' W$ 135

Tower 135 BSN $43^{\circ}12'E$ run $S54^{\circ}32' W$ 80 L

Tower 80 BSN $54^{\circ}32'E$ run $S26^{\circ}20' W$ 140

Tower lat cor lat line run $S48^{\circ}59'E$

Tower 140 BSN $26^{\circ}20'E$ run $S36^{\circ}57' W$

to lat cor Tower lat cor BSN $36^{\circ}57'E$ run $S34^{\circ}39' W$

Still lat lat cor lat line run $S59^{\circ}41'E$

May 20th 1961

Ed & John go and extend N line
of ~~Edison~~ Olsons Land E
from Hub 561.45' E of M.E. as
the NE corner of the W $\frac{1}{2}$ of SE
 $\frac{1}{4}$ of SE $\frac{1}{4}$ is gone.

Note: this line was run by Ed &
John on a 4" offset to the N,
and continued E of said offset
beg at hub 561.45' E continue E
at 629.96 hub in & road + 146.
at ~~629.9~~ hub + 160 hub + 227. =
1163.06 E hub this line hits trees
from hub 1163.06 angle N 10° 27'
131.7 ft hub the I.M. sets angle
on R. 22° 07' 108.7

$$\begin{array}{r} 1094.55 \\ 1.2971 \\ \hline 12242.6 \\ 106.45 \\ \hline 1330.71 \end{array}$$

E 10° 27' A

Sine 181377 x 131.9 = 23,92 N

Cosine 983414 x 131.9 = 129,71 E

22007'

Sine 376494 x 108.7 = 40,92

Cosine 926419 x 108.7 = 100,70

S 78° 20' E 1087

Sine 979341 x 108.7 = 106,45 E

Cosine 202218 x 108.7 = 21,98 S

TMA 10

7163.06

1094.53

NS distance 1285.68

23.92
21.94

1224.26 E

2392 N
2198
194 N

22007'

N 79° 33' E

TMA

S 78° 20' E

194 N
1330.7

561.98
146
70795
1601
86805
227
109505
12971
122476
10645
1331.21
128568
45.53

2 133121
665.6
128565 / 45.53.00
225495
296050
257130
389200
257130
132070

10322

0° 10' 27"

131.9

1087

96

Correction of N line

1330.7 E cor sets S 194 on 4" offset S

.0014378793 - 0°05'
1330.7 / 19400

.0011572856 S for each ft E
+ H
13307 / 154

hub. 196.1 E goes S.O. 23 c/a foot

N line runs on S 89° 57' W

Sat.

Ed John & I to Olsons

from pt on Traver bet lots 3-4 extend
lot line forward to be @ 19 min + 10.9
high + 20 to water

extend lot line bet lots 4+5 W-28.6 //
water 25 ft

extend line bet lots 5-6 W -31.6 Water 20

" " bet lots 6-7 W - 37.4 Water 20

" " " 7-8 W - ^{E 64.85 ft to top} W 33.70 Water 25-

" " " 8-9 W 36.4 W 25

" " " 9-10 Water 15 W 20

" " " 10-11 " — 35 ft. Water

" " " 11-12 " — 30 "

12-13 50

13-14

98 $\begin{array}{r} 1006304 \\ 50 \\ \hline 50315200 \end{array}$

$\begin{array}{r} 1000343 \\ 50 \\ \hline 50017150 \end{array}$

$\begin{array}{r} N13^{\circ}4 \\ 577 \end{array}$

angle pt

N $13^{\circ}33'E$

N $15^{\circ}06'E$ = West angle = $178.27 \div 2 = 89^{\circ}13\frac{1}{2}'$

Sine $0.134255 \times 50 = 0.67$ of alt

Cosine 9999085 in 50 =

Sec $1.0000916 \times 50 = 50.00$ pt set

N $1806'E$

N $15^{\circ}06'E$ = West angle, $177^{\circ}00' \div 2 =$

$88^{\circ}30'$

Sine $0.26177 \times 50.2 = 1.30$

Cosine 999467

Sec $1.000343 \times 50 = 50.02$ L

N $1806'E$

N $30^{\circ}56'E$ = West angle $167^{\circ}10' \div 2 =$

$83^{\circ}35'$

Sine $111758 \times 50.32 = 5.62$ ✓

Cosine 993735 in 50 = 50.32

Sec $1006304 \times 50 = 50.32$

17960
408

52
60
112
56

N 35° 04' E

N 30° 56' E angle = $175^{\circ} 52' \div 2 =$
87° 56'Sine 036062 $\times 50.03 = 1.80$

Cosine 999350

Sec 1.000651 $\times 50 = 50.03$

N 35° 04' E

N 33° 58' E ^{East} angle $178^{\circ} 54' \div 2 =$

89° 27'

Sine 009599 $\times 50. = 0.48$

Cosine 999954

Sec 1.000046 $\times 50 = 50.00$

N 35° 04' E

N 33° 58' E angle $178^{\circ} 52' \div 2$

89° 26'

Sine 009890 $\times 50 = 0.45$

Cosine 999951

Sec 1.000049 $\times 50 = 50.00$

100

N 33° 53' E

N 35° 06' E angle 178.48', 2 =

89° 24' 1/2'

$\sin 0103266^\circ \times 50 = 0.52$

$\cos 0103266^\circ$

Sec 1.0000 $\times 50 = 50$

Sec 31-143-30

Oct 14, 1961

John & I take Ward with
us to Pine Point find
USIM. W $\frac{1}{4}$ Sec 6 on Tupper
TR. 1571 on NW $\frac{1}{4}$ 12 13 NE

Sec. 31. South line

Lower I M site E on flag at
one of my old I. Pipe and
ran East, 285.6 feet

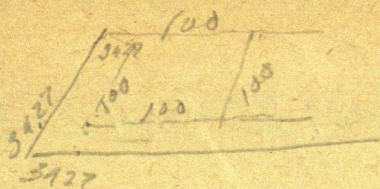
Lower 285.6 site W on IM
Turn NE angle to road
75°40'

Sine 247563

COSINE 968872 into 33. =

34.27

at about 90 ft E of USIM $\frac{1}{4}$ Sec
Wedge of Big Beech Resort
Road.



103

7540
1420
8960

Tower 285.6 site West on flag
at I M Co and run West 34.27
at split run N 134.27 at split
in E Bay Leech Resort road
Tower 134.27 BS S
T still at 285.6 BS W Van at 90°
run N 14°20'E 134.27 at split
in E Bay Leech Resort road
Tower 134.27 BS S 14°20'W to
East

Lot 6 Sec. 20-142-30

Morris Resort

Sat April 6 1963

John - Bob & I drive to Morris
Resort Lot 6 - Sec 20-142-30

Lo Walker at 10:30 Morris
shows us Fence which he thinks
is on south line the US Brass Cap
I.M. leaning on fence he said
water took I.M. out and he set
it by fence - Bob passed E along
fence to road about 600 ft

We go to fence on N line lot
6. Bob passes E along fence
to road & continues E to about
800 ft edge of swp. the US I.M.
should be at 995.28

Home at Noon

Evening I try to figure
how to locate the N line of
Lot 6 from S line lot 8 which
I have run, by going along
the road and not having to
cut out the lines which are
mostly in swamp land.

from SE cor lot 8 run West
N 87° 20' W (old Notes) at 536
ft I.M. at edge of road R/W
+ 40 = $\$$ 536 + 92.2 = 628.2
pump point under fence

Sec 20-142-30

Fig. from SE cor lot 8

N 1°04'W 630.96 - to NE cor Lot 8

Sine 018616 \times 630.96 = 11.75 WCosine 999827 \times 630.96 = 630.85 N

N 1°04'W 1261.92 - to NE cor. lot 7

Sine 018616 \times 1261.92 = 23.49 WCosine 999827 \times 1261.92 = 1261.70 N

N 1°04'W 1892.88 to NE cor lot 6

Sine 018616 \times 1892.88 = 35.24 WCosine 999827 \times 1892.88 = 1892.55 N

N 87°20'W 957.00 to SW cor lot 8

Sine 998917 \times 957.00 = 955.96 WCosine 046525 \times 957.00 = 44.52 N

N 87°54'W 1108.8 to S.W cor lot 7

Sine 999328 \times 1108.8 = 1108.05 WCosine 036644 \times 1108.8 = 40.63 N

N 88° 21' W 1419.66 to SW cor lot 4
 Sine $99959 \times 1419.66 = 1419.08 W$
 Cosine $02879 \times 1419.66 = \underline{40.87 N}$

N 88° 45' W 995.28 to NW cor lot 4
 Sine $99976 \times 995.28 = 995.04 W$
 Cosine $02181 \times 995.28 = 21.71 N$

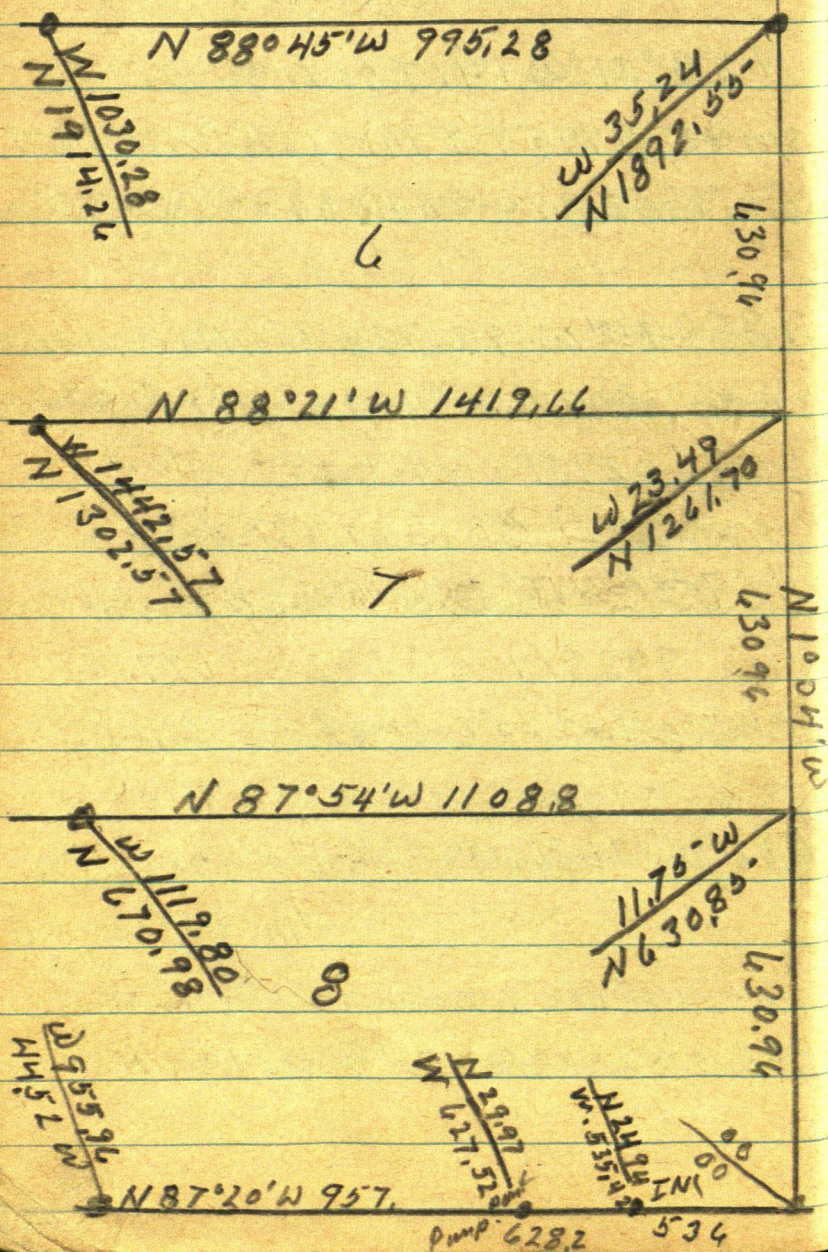
N 87° 20' W 628.2 = pump point W of road
 Sine $998917 \times 628.2 = 627.52 W$
 Cosine $046525 \times 628.2 = 29.92$

N 87° 20' W 536.00 = IM E of road on R/W
 line + S line lot 8

Sine $998917 \times 536.00 = 535.42 W$
 Cosine $046525 \times 536.00 = 24.94 N$

108

Lots 6-7-8 Sec 20-142-30
 Location of corners from
 SE cor. Lot 8 as 00.



6282

534

92.2

109

Monday Apr 1963

Bob & I to Morris Resort

We locate I Meach mid of road
on S line of Lot 8 Sec 20-142-30

Tower pump point W of road

Site S $87^{\circ}20'E$ on flag at I M E
of road and run N $19^{\circ}13'W$ 1102.5
Sta 1-Tower Sta 1 BS S $19^{\circ}13'E$ runN $15^{\circ}25'E$ 852.2 hub near
N line Lot 6N $19^{\circ}13'W$ 1102.5Sine $32914 \times 1102.5 = 362.88 W$ Cosine $94428 \times 1102.5 = 1041.07 N$ N $15^{\circ}25'E$ 852.2Sine $26584 \times 852.2 = 192.46 E$ Cosine $9640.2 \times 852.2 = 821.54 N$

110

1368

9048

9048

99528

North

West

29.92

627.52

36288

104107

29280

1448.59

North

West

29.92

627.52

104107

36288

1070.99 N

990.40 W

821.54 N

792.46 E

1892.53

797.94 W

3524 W

728.61

300

West

North

627.52

29.92

53.1

330

990.40
19246
79794

103028111
79799
23234

2

32914
11025-
164570
65828

94428

32914
11025-
164570
65828
3291.4 85
32914 6
362.8 7

797.94 W and 18925.3 N
35.24
762.7 W

N 88° 45'

8140 99976 x 7627

02181 x 7627 = 16.63 N

~~N 15° 25' E 120~~

~~Sine 26584~~

~~Cosine 96402~~

Back over pump point on S 1/4
Lot 8 run N 15° 49' W 1102.5

Turn 1102.5 to S 15° 49' E run

N 18° 48' E 852.2

Sine 31233 x 852.2 = 26617 E

Cosine 94997 x 852.2 = 80954 N

N 15° 49' W 1102.5

Sine 27256 x 1102.5 = 30050 W

Cosine 96214 x 1102.5 = 106076 N

70° 15' - 120° - 170°

Sine

Cosine 94118 to 120 = 127.5

" 170 = 185.62

West

North

427,52

29,92

30050

106074

92802

109068 N

26617 E

80956

661.85 W

1900.24 N

3524

1892.55 S

626.61

7.69

N 98°45' W 626.61

Sine 99976 x 626.61 = 62646 W

Cosine 02181 x 626.61 = 13.67

1892.55

13.67

1906.22

Moon

70°15'

True Apr 1963

John - Bob & I to Moore's
Resort Tower pt on road 120 ft

S of N line lot 6 Sec 20-142-30

side Southerly along edge of road

Turn L $70^{\circ}15'$ run W to 10th

Tower pt 170 ft S of N line side

along edge of road Turn L $70^{\circ}15'$

& run East to snap sitting

5 $2 \times 2 \times 3'$ on line with 40 ft

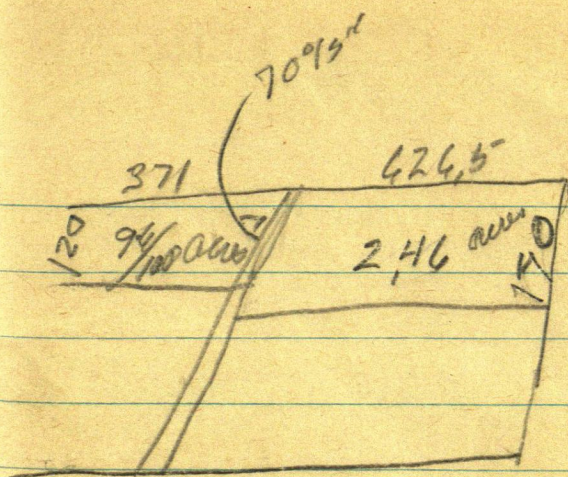
spike at each end stake

move N to N line lot 6

continue N line E to snap

sitting stake on line & spike

at end stake



$$\begin{array}{r} 89161378 \\ 20 \\ \hline 27560 \end{array}$$

43520

32

$$\begin{array}{r} 2643.3 \\ 1752.96 \end{array}$$

64

$$\begin{array}{r} 1323.3 \\ 877 \end{array}$$

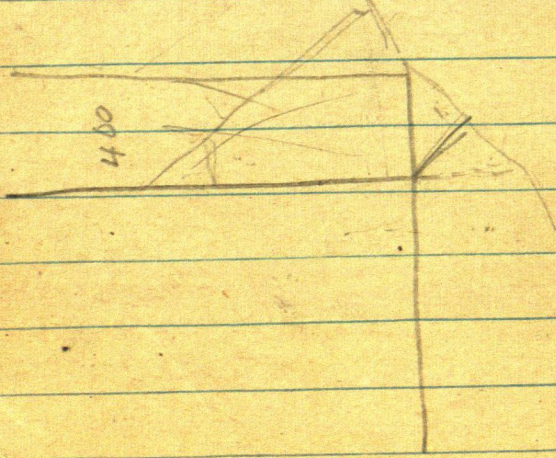
$$\begin{array}{r} 1320 \\ 875 \end{array}$$

8.8

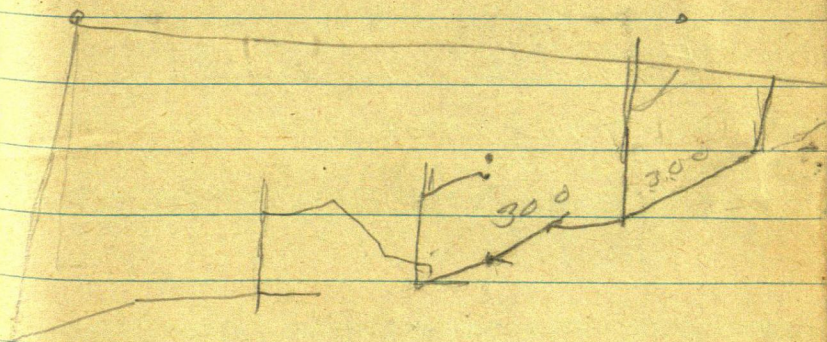
Sec 30



400



19.4
6



146.05

228 - 262.4
228
344

610

262

76° 22' N 156.5

Sine 30 29.24 x 156.5 = 47.41

Cosine 93 30.15 x 156.5 = 149.15

Tang

N 156.5

227784 x 35.65

973712 x 152.38

150
139.6
285.6

