

123
Sub- Sec. 4-141-31

John M. Greene

Ra-sub. Sec. 32-142-31

FIELD BOOK

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Page 2 - Traverse S.R.H. #80 through M. 1/2 Sec. 3
4-5 Traverse E. Line Sec. 4.

References

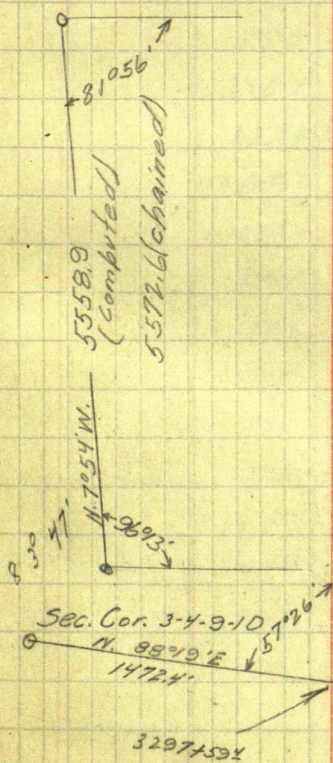
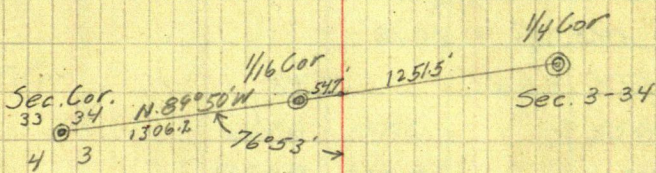
Book 86

Sub-div. Sec. 32 & Random Line
bet. 4-5 & 8-9 141-142-31

Book 92 - Sanatorium survey in
Sec. 34-35 142-31 & 2 - 141-31

Book 58 - Sect-141-31

3356 + 85 ⁹	X		N. 89°50'W	1360.9'
3350	Δ	0°10'R	N. 13°17'E	685.9
3335 + 77'	Δ	14°12'R	N. 13°07'E	1423
3334	Δ	14°02'R	N. 10°5'W	177
3332 + 36'	Δ	14°34'R	N. 15°07'W	164
3330	Δ	8°50'R	N. 29°41'W	236
3322	Δ	5°10'L	N. 38°31'W	800
3320	Δ	10°26'L	N. 33°21'W	200
3316 + 80	Δ	15°32'R	N. 22°55'W	320
3313	Δ	5°44'L	N. 38°27'W	380
3312	Δ	8°54'L	N. 32°43'W	100
3311	Δ	10°02'L	N. 23°49'W	100
3310	Δ	10°28'L	N. 13°47'W	100
3309	Δ	6°28'L	N. 3°19'W	100
3302	Δ	5°10'R	N. 3°09'E	700
3301	Δ	9°00'R	N. 2°01'W	100
3300	Δ	10°31'R	N. 11°01'W	100.
3299	Δ	12°43'R	N. 21°32'W	100.
3297 + 59 ⁴	X			
3296 + 60'	Δ	12°06'L	N. 34°15'W	140.6
Sec. Cor to X			N. 88°14'E	1472.4



Wooden
 stake
 1/4 Cor.
 Sec. 3-10
 141-31

N.E. Cor. Sec. 4 - 764.6 5505.6

S.E. Cor. 0.0 0.0

Cot. 72007 = $\times 7^{\circ}54'$

Sec. Line Bears N. $7^{\circ}54'$ W.

Dis = 3453.4' = 80.16'

North East West

N.E. Cor

4.4'	100.0'	1360.9	5505.6	764.6
667.6	157.6'		5501.2	596.3
1385.9	322.9		4833.6	438.7
177.0		3.3	3447.7	115.8
158.3		42.8	3270.7	119.1
205.1		116.8	3112.4	161.9
625.9		498.2	2907.3	278.7
167.1		109.9	2281.4	776.9
294.7		124.6	2114.3	886.8
297.6		236.3	1819.6	1011.4
84.1		54.0	1522.0	1247.7
91.5		40.4	1437.9	1301.7
97.1		23.8	1346.4	1342.1
99.8		5.8	1249.3	1365.9
698.9	38.5		1149.5	1371.7
99.4		3.5	450.6	1333.2
98.2		19.1	350.7	1336.7
93.0		36.7	252.5	1355.8
116.2		79.1	159.5	1392.5
43.3	1471.6		43.3	1471.6
			0.0	0.0

S.E. Cor. Sec. 4

Greene, J. M. - Transit

Fri. - April 18, 1924

Charley Colburn

George Evans

Micky Jude

Starting at $\frac{1}{16}$ Cor. North line
of Sec. 3, Ran 1306.2' west to
Sec. Cor. Hub 1.9' south = $0^{\circ}05'$
N. $89^{\circ}55'W$.

N. $7^{\circ}54'W$

$82^{\circ}01' \pm$ = Mag. Bear. of S. $13\frac{1}{2}^{\circ}E$.

E. Ran Line Sec. 4

Sta. 0 - 1. M

Hub. on hill

April 15 - 11

Greene $\frac{1}{2}$ -

Jude $\frac{1}{2}$ -

$$\begin{array}{r}
 687.5 \\
 1.9 \overline{) 1306.2} \\
 \underline{114} \\
 166 \\
 \underline{152} \\
 142 \\
 \underline{133} \\
 90 \\
 \underline{95}
 \end{array}$$

Sat. April 19-1924

Continue south. Same crew
with the addition P.R. Colburn
Miss old stake 0.4' west.

Notes call for

y. Pine	18"	N. 49° E	23 =	15.2'
y. "	24"	N. 61° W.	56' =	37.0'
y. "	24"	S. 46° W	50 =	33.0'
y. P.	18"	S. 72° E.	64 =	42.3'

X N.E. 86° 13' and run west.

Work till noon & quit for the
day. Monday - nasty weather -

Work in office. Tues. 22, 1924

Crew - Jude. Evans - P.R. Colburn

Greene. Continue west to

intersection with Horst Ran. Line

Page 61 - Book 86 - Rec. 396. N.E. X 86° 13'

chain from Horst's Hub 10589.5 = 0

" " 10900.0 = 310.2

Int. X 11059.1 = 469.3

S. Ran. Line Sec. 4 11296.25 706.45

Road + 11389.25

Sta. = N.W. X 94° 45'

M.C. #31 I.F.P. set by Horst
from N.E. B.T. we checked and dug. Found
5' west of Horst's I.M.

$$\begin{array}{r} 29 \\ 44 \\ \hline 73 \end{array} \quad \begin{array}{r} 41 \\ 15 \\ \hline 56 \end{array}$$

N. 30° E. 25.2'

N. 61° E

98° 13

N. 78° W. 44'.0

61° 40

S. 23° W. 31.5

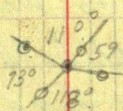
24° - 336° 24'

S. 74° E. 35.6'

242° 30'

S. 51° W. 21.8

152°



90

$$\begin{array}{r} 2067 \\ 6 \\ \hline 12482 \\ 12482 \\ \hline 136422 \\ 775.4 \\ \hline 588.82 \end{array}$$

+ 159.1

$$\begin{array}{r} 310.2 \\ 396.25 \\ \hline 706.45 \end{array}$$

10900.0

3396.25

11296.25

10900

159.1

11059.1

11296.25

93

11389.25

= 396.25

Ch 93047 S.E. X

to M.C. #31 U.S. 1364.22' 775.4' M.C. to Ran.

157.8' N. of +
from East

point of old stake. Drove. Tam. post

Wednesday April 23, 1924
weather fine -

Take Jude to Plankers Cor
3-4-33-34 and meet Evans.

They are to chain ~~the~~ East
true line and south Random
Line. I go back to Walker and
drive around to west shore of
Long Lake. Carl Colburn meets
me there. We find hub on
Lake shore and Colburn starts
brushing using N.E. Cor. as back
sight.

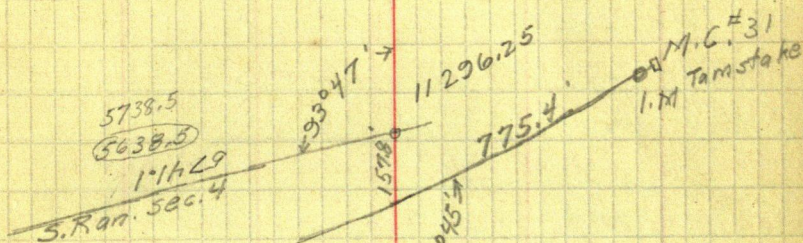
Thurs - April 24 same crew
Kick into line and brush
out true line from 1.M. to 1.M.

S

11

Horst's Ran.

$$\begin{array}{r}
 11296.25 \\
 157.8 \\
 \hline
 11138.45
 \end{array}$$



$$\begin{array}{r}
 5741.4 \\
 5738.6 \\
 \hline
 2.8
 \end{array}$$

$$\begin{array}{r}
 5741.4 \\
 5280.0 \\
 \hline
 461.4
 \end{array}$$

N

Page 2 - Book 86 - Rec. 396

N. Ran. Line Sec. 4

from Horst's notes

Sta. 0 Cor. 3-4 -33-34

3+68' birch post

3+72.9 temp. M.C. #24

17+65 leave Long Lake

17+78 square stake

21+20 old road

22+56.54 temp. M.C. #25

35+00 enter swamp.

36+25 ln. sup.

37+38 cr. Gr. R. Y

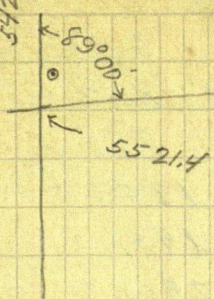
44+00 sq. post on top of big hill

54+91.6 Ran Line N. & S.

N. E. \angle 89°00'

Sta. 5521.4 \odot on N. & S. R. line

5428.5



45.81

6
27486
27486
3023.46

5189.2

5428.5 E. Line Sec 32
5422.25 E. Line Sec. 5
5403.25 E. Line Sec. 8

0.017933

5191.6 93.1000
5191.6
411840
363412
484280
467244
170360
155748
146120

16256.0

5428.5
5521.4
93.1 at 5191.6
55.76 = 1°02'
93.1 5191.6 37
4635
5366
4655
7110
6517
5930
5586
3440
2793
6470

017933

44
71732
71732
78.9052

51892

5189.2 'N. 92.9

0.017933

2594.6 N. 46.45

155676

017933-5

71778 N. 31.88

155676

17.78-5

467028

143464

363244

125531

51892

125531

930579 236

17933
31884874

1778
3023.5

4801.5

4400 N. 78.9

N.W. Cor. Sec. 4 = Sta 0 - West
Hub 633.5

" 751.7 852.1

2561

886.0

601.9

1359.9

3162.9

924

1451.3 G.N.

2469.4

2461.0 Hub

601.9

3071.3

N.E. Cor. South Sta. 0 - 1. M.

80.16 = 5572.6

892.9

Hub

20.16 = 1401.5

1371.5

"

40.16 = 2791.8

1532.4

"

60.16 = 4182.2

2165

"

80.16 = 5572.6

2652.8

" in road

2732.1

" in road

1401.5

2940.4

"

2791.8

1371.5

3840.4

"

2732.1

30.0

4092.7

"

59.7

29.1

5572.6

" Cor.

29.1

89.4

Pop. 7" S 44 E 115

4182.2

Pop. 4" N. 71 W. 127

4092.7

87.5

5572.6
2732.1

5572.6
2652.8
89.4

Horst's chaining
N. E. Cor - East = Sta. 0

17

Post	368'
Temp M.C.	372.9
Lv. Lake	1765.
Stake	1778
	2120
	2256.5
	3738

S. E. Cor. West

684' ✓ Hub

1130 "

1320 "

1411 " 1413

2640 " 2422 Rd

3254 "

3960 "

4376.9 " 4475'

4845.2 " 4898.0

5641.1 " Intersect Horst Ran.

5738.5

	Traverse N				S	E	W
East	5166.8						5166.8
S. 50°02'E.							
S. 1°W	4131.8						
S. 89°E.	403.8			7.0	403.7		
S. 1°W.	1642.8			5773.9			100.8
N. 87°13'E	5741.1	273.9			5634.4		
N. 9°W	5572.6	5504.0					871.7
		5777.9	5780.9	6037.1	972.5		
			5777.9	972.5			
			3.0	5064.6			

Friday, April 25 - Same crew
 Finished brushing N. True line
 to lake. Set 2" X 48" capped I.M.
 for M.C. Set Hub in line
 with west wagon track and
 sighted E. 96°52'3" to Hub in
 line with wagon track.

5th Lake Meander

#7 S. 61°13'W 330.4' S. 69°53'W 360' 80' to L
 L. 48°51'

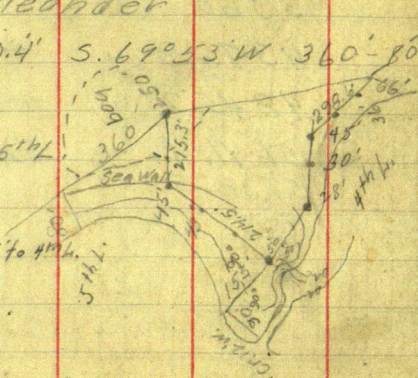
B₁ L. 62°07' - 45' to 5th L.

B₂ L. 92°18' - 112.8'

B₃ L. 38°06' - 129.6' 28' to 4th L.

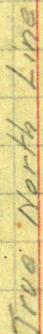
To Sta 6 By R. 20°05' - 298.5'

41°



19

940 M.C. I.M.




Eggs +

	781.2
$5.6^{\circ}52'W.$	881.6
$13^{\circ}15'R$	
$5.20^{\circ}07'W$	277.4
$6^{\circ}43'R$	
$5.26^{\circ}50'W$	421.8
$8^{\circ}51'R$	
$5.35^{\circ}04'W$	318.0
$11^{\circ}43'R$	
$5.47^{\circ}02'W$	295.5
$6^{\circ}12'R$	
$5.53^{\circ}03'W$	902.8
$7^{\circ}37'R$	
$5.61^{\circ}13'W$	330.4
$8^{\circ}40'R$	
$5.69^{\circ}53'W$	1127.3
$15^{\circ}25'L$	
$5.54^{\circ}08'W$	242.7
$54^{\circ}34'L$	
$5.0^{\circ}06'E$	W. Ram. Line

To Lake 84 Road 11'

To Lake 49

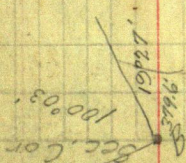
$5.0^{\circ}06'E$ W. Ram. Line

 $5.54^{\circ}28'W$ 62.6
 $19^{\circ}28'N$
 $5.36^{\circ}00'W$ a long
 stretch past 5th Lake
 and 6th Lake.

W. Ran Line of Sec. 4

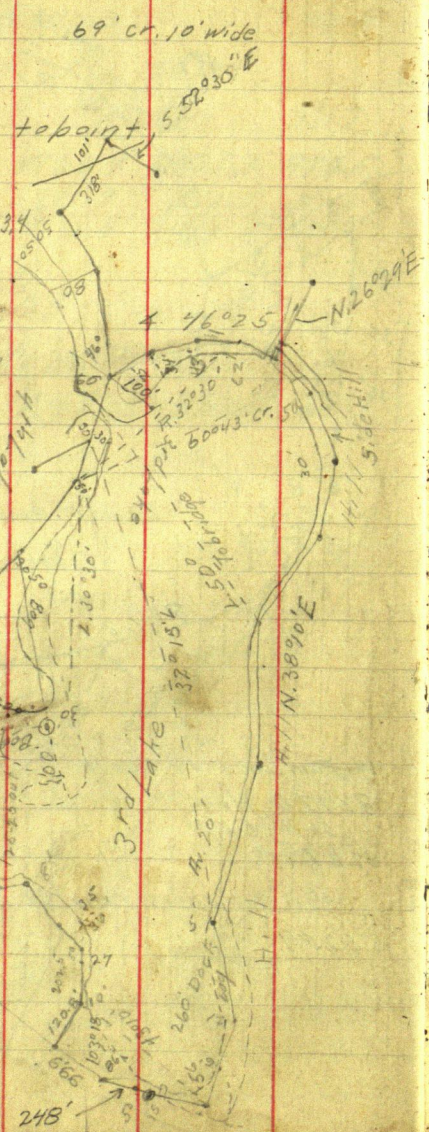
8217.0 H₂O
50.3 E.R.R.
8267.3

308.9 Hub in center of road

8525.9


$$\begin{array}{r} 96.52 \\ 63.041 \\ \hline 160.33 \\ 19.027 \end{array}$$

S. 35°41'W 318.0
 84°37' L
 S 48°56'E 275.6
 37°21' R
 S. 11°55'E 480.4
 13°00' R
 S 7°25'W 193.2
 9°29' R
 S 16°24'W 171.7
 50°54' L
 S. 34°00'E 329.8
 S. 16°54'W 171.7
 9°55' R
 S. 25°49'W along road 223.4
 3°19' R
 S 29°08'W in cut 192.9
 13°40' L
 S 15°28'W 65' to L. 173.9
 23°45' L
 S. 2°17'E 345.4
 33°24' L
 S. 41°41'E 200.3
 103°18' L
 120.6 144°59' = N 35°01'E 509.2 380.2 99.9
 31°26' L 500.4
 202.5 N 3°35'E 41°17' L
 214.8 N 37°42'W 38°00' L
 94.5 N 75°42'W 44°25' L
 12°07'
 S 58°53'W 78°30' R
 138°23' N 41°37'W
 S. 41°04'E 33°40' L 429.5
 S. 75°21'E (58°E) 92°13' L
 167°34' 208.
 N. 17°26'E 36°30' L
 N 24°04'W 42°46' R 253.
 N 12°42'E 344.4
 14°36' L
 N 4°06'E 512. pool
 35°04' R
 N 39°10'E 232.4
 22°08' L
 N 17°02'E 256.8



979
36
192.9

$X H = 63^{\circ} 41'$ Road

$C = 96^{\circ} 52'$

$H + C = 160^{\circ} 33'$

$B = 19^{\circ} 27'$

$b = 781.2'$

$a : b :: \sin A : \sin B$

$\log b = 2.892762$

$\log \sin A = 9.952481$

2.845243

$\log \sin B = 9.522424$

$3.322819 = 2103.0$

$a = 2103.0$

$a = b \sin A$

$\sin A$

200.3
508.2
608.5
808.4

$N. 17^{\circ} 02' E 256.8' 21$

$48^{\circ} 26' L$

$N 37^{\circ} 24' W 251.7$

$36^{\circ} 35' L$

$N 67^{\circ} 59' W 234.1$

$(3) 4^{\circ} 27' L$

$N 72^{\circ} 26' W 180.5$

$(4) 29^{\circ} 32' L$

$98^{\circ} 58' = 5.83^{\circ} 02' W 186.5$

$(3) 19^{\circ} 40' L$

$563^{\circ} 22' W 165'$

$(2) 1^{\circ} 54' L$

$561^{\circ} 28' W 151.7$

$(1) 56^{\circ} 54' L 212.3$

$54^{\circ} 34' W =$

$5.7^{\circ} 25' W 116.9$

$3^{\circ} 51' -$

See bottom page 18.

Traverse west side

4th & 5th Lake Creek

$S. 61^{\circ} 13' W 330.4'$

$48^{\circ} 51' L$

$S. 12^{\circ} 22' W 215.3$

$62^{\circ} 07' L$

$S. 49^{\circ} 45' E 214.5$

$92^{\circ} 18' L$

$142^{\circ} 03' N 37^{\circ} 57' E 112.8$

$38^{\circ} 06' L$

$N 0^{\circ} 09' W 129.6$

$20^{\circ} 05' R$

$N 19^{\circ} 56' E$

41°

$S. 60^{\circ} 56' W.$

Sat. April 26

Same crew - meandering 3rd Lake.

worked without dinner 2:00 P.M. Drizzling

rain - Quit and went in. Worked till

supper in office

99.9
508.2
200.3
808.4

John M. Greener

Long Lake

Notes -

N. 68°59'W
 95°28'R
 310.3 N 26°29'E 37.2 N. 83°58'W.

5.3

5.49°45'E
 40°04'R
 5.9°41'E
 97°45'L

108.26
 N 72°34'E
 19°37'L

N 52°47'E
 20°15'L
 N 32°32'E

4th Lake

5.7°25'W. 116.9'

70°05'R
 577°30'W. 251.6'

18°32'R
 96°02' 319.4'

24°30'L
 5.71°32'W 93.4'

31°03'L
 5.40°29'W 157.1'

7°55'L 292.4'

5.32°34'W 191.7'

20°15'R
 552°49'W 389.1'

19°37'R
 572°26'W 221.2'

37°45'R
 170°11' 155.3'

N 9°49'W
 40°04'L
 N 49°53' W 214.5

32°34'

20°15'

52°49'

19°

April 27- Same crew

" 28- J. M. Greene

worked on notes till noon

and left for 2 points

May 7- Work on notes

P. M. Jude & Greene go to westside of lake and set flag, then east side and read &.

Brush North line to Lake shore and set M. C.

May 8- 3/4 day in office.

$$S. 26^{\circ}50'W$$

$$79^{\circ}02'Z$$

$$105^{\circ}52' = 574^{\circ}08'E$$

$$S. 71^{\circ}32'W$$

$$26^{\circ}30'R$$

$$78^{\circ}02'$$

$$N. 81^{\circ}38'E$$

$$N. 73^{\circ}26'W$$

 creek 12' wide

18' wide

Hubbs creek.

30' to Creek Center

creek

3rd Lake

$$N. 68^{\circ}59'W$$

$$S. 31^{\circ}56'W$$

$$28^{\circ}45'W$$

to point on road N. 60°41'W

$$\begin{array}{r}
 \text{Hub } 8217' \\
 5428.5 \\
 \hline
 2788.5
 \end{array}
 \quad
 \begin{array}{r}
 5521.4' @ 5191.6 \\
 92.9 \\
 \hline
 5428.5
 \end{array}$$

$$\begin{array}{r}
 2788.5 \overline{) 5189.2} \\
 \underline{2788.5} \\
 2400.70 \\
 \underline{2230.80} \\
 169.900 \\
 \underline{1673.10} \\
 259.00
 \end{array}
 \quad
 1.861 = 61^{\circ}45'$$

Horst's West R. Line
 5428.5 Int. true North line
 5521.4 Int. @

8217 Hub. 4' N. R.R. embankment.
 8270-3089 R.R. NE $47^{\circ}26'$
 8525.9 " Road center

1050.2' dis. 8217 to 9267.2

9267.2 Hub. S. of 5th L.

9451.2 Hub.

9653.2 "

403.8' E. @ 49° , thence S. 49°

11138.4 \times R. $94^{\circ}45'$ to M.C. 775.4'
 157.8'

11296.2 \times L. $93^{\circ}47'$ S. Sec. L. Ran

4°45'	08281-1	99657	175.0
	5635-1	563.5-1	81
	41405	498285	256.0
	24843	298971	
	49686	597942	
	41405	498285	
	46.663435	561.567195	

B	$80^{\circ}08'$	$\sin A : \sin C :: a : c$
A	$6^{\circ}29'$	
A+B	$86^{\circ}37'$	$\log a = \log 256' = 2.408240$
C	$93^{\circ}23'$	$\log \sin 93^{\circ}23' = 9.999248$

$\log \sin 93^{\circ}23' = 9.999248$
 2.407482

$\log \sin 6^{\circ}29' = 9.052749$
 3.354733 = 2263'

May 10 - Sat.

Micky & George Revere
rechain South line

Dis.	5738.5	79.89
	775.4	20.67 =
	64776	
100.56	6513.90	100.56
	6033.6	
	48030	64.776
	40224	2067
	78060	453432
	70392	388656
	76680	1295520
	70392	133892002
	62880	775.4
		563.5

64776
7989
582984 Mon. May 12
518208
582984 Jude
453432 Greene
517495464
1338.92 Carl Colburn
6513.87

$$\begin{array}{r}
 2067 \\
 1240 \cdot 2 \\
 12402 \\
 136422 \\
 7754 \\
 \hline
 588.8
 \end{array}$$

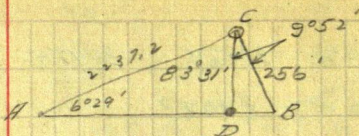
$$\begin{array}{r}
 17136 \quad 98521.7 \\
 256 \cdot 4 \quad 256 \cdot 4 \\
 702816 \quad 591126 \\
 85680 \quad 492605 \\
 34272 \quad 197042 \\
 \hline
 4386816 \quad 25221376
 \end{array}$$

$$\begin{array}{r}
 2237.2 \\
 11291 \overline{) 252.60000} \\
 \underline{22582} \\
 26780 \\
 \underline{22582} \\
 41980 \\
 \underline{33873} \\
 81070 \\
 \underline{79037} \\
 20330
 \end{array}$$

$$\begin{array}{r}
 8.79964 \\
 252.2 \\
 1759928 \\
 1759928 \\
 4399820 \\
 1759928 \\
 \hline
 2219269208
 \end{array}$$

$$\begin{array}{r}
 61.62 \\
 160.25 \overline{) 9874.5} \\
 \underline{96150} \\
 25950 \\
 \underline{16057} \\
 98930 \\
 \underline{96150} \\
 27800
 \end{array}$$

$$\begin{array}{r}
 561.6 \\
 403.8 \\
 \hline
 965.4
 \end{array}$$



$$2237.2$$

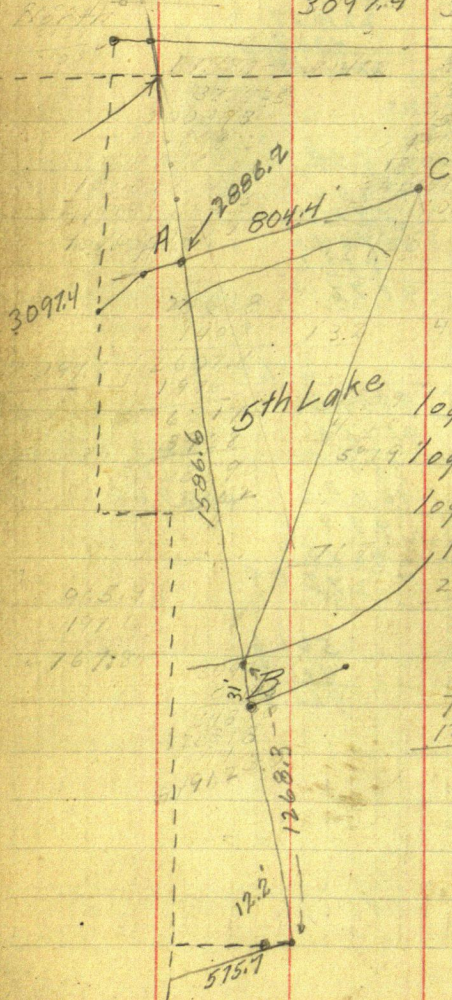
$$\begin{array}{r}
 2219.27 \\
 4387 \\
 \hline
 2263.19
 \end{array}$$

$$\begin{array}{r}
 859.1 \\
 16256.0 \\
 5521.4 \\
 107346 \\
 859.1 \\
 \hline
 9874.5
 \end{array}$$

$$\begin{array}{r}
 61.62 \\
 80 \\
 \hline
 4929.60
 \end{array}$$

		N	S	W	E
N. 0°05' W.	3097.4	3097.4		4.5	
S. 54°30' W	242.7	140.9	140.9	197.6	
S. 69°55' W	322.8	110.8	110.8	303.2	
S. 9°40' E.	2886.2	2845.2	2845.2		484.6
East	21.0				21.0

3097.4 3096.9 505.3 505.6



N. 69°55' E.
S. 9°40' E.

11°05'
9°40'

$100^{\circ}25' = \angle A$

$55^{\circ}02' = \angle C$

$155^{\circ}27' = A + C$

$24^{\circ}33' = B$

$\log \sin 55^{\circ}02' = 9.913541$

$\log 804.4 = 2.905472$

$\log \sin 24^{\circ}33' = 9.618558$

$\log 1586.6 = 3.200455$

$2 \log 575.7 = 4.22$

575.7

775.4

1351.1

1230.7

121.4

561.6
 403.8
 765.4
 322.8
 804.4
 1127.2
 302.2

16°28'
 9°39'
 6°49'

11138.4
 8525.9
 26125

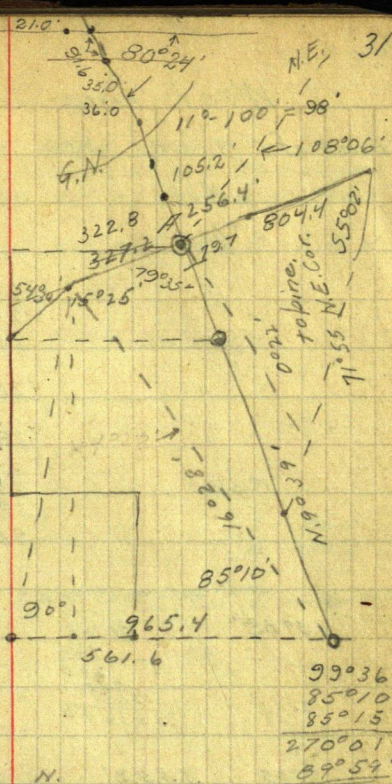
11092.7
 8525.9
 24668
 5

16°28'

95898
 2607.70
 191796
 689740
 671286
 184540
 95898
 886420
 863082
 233380

98347

322741848
 295041
 267000
 196694
 703060
 688429
 146310



$\sin 6°49' \times \therefore \sin 79°34'$
 $\therefore 2719.2$

11869-7.3
 2719.2 3
 23738
 106821
 11869

327.2

83083

23738

West line Sec. 4 - 141-31

21' East of N.W. Cor. Sta. 0

Hub 0+91.6 old random line

Hub 1+64.4

" 24+26.4 N. of G.N. track

24+50.6 " " " "

" 25+24.4 S. of G.N. "

" 26+29.6 in field.

" 28+86.2 in Road-Sta. A.

Picket

29+65.9

5th Lake, across 5th Lake

15 86.6

45+52.5 5th Lake

0°05'

00145

76°55'

722

1005'

290

78°00' = S. 12° W.

280

1305

1336 90

1°05'

353.2'

20791

97815

01891

1344

1344

353 2

83164

391260

31788

83164

391260

28256

62373

293445

353 2

20791

97815

N - 6179 01 2

27913104

131463360

92.2

352.2

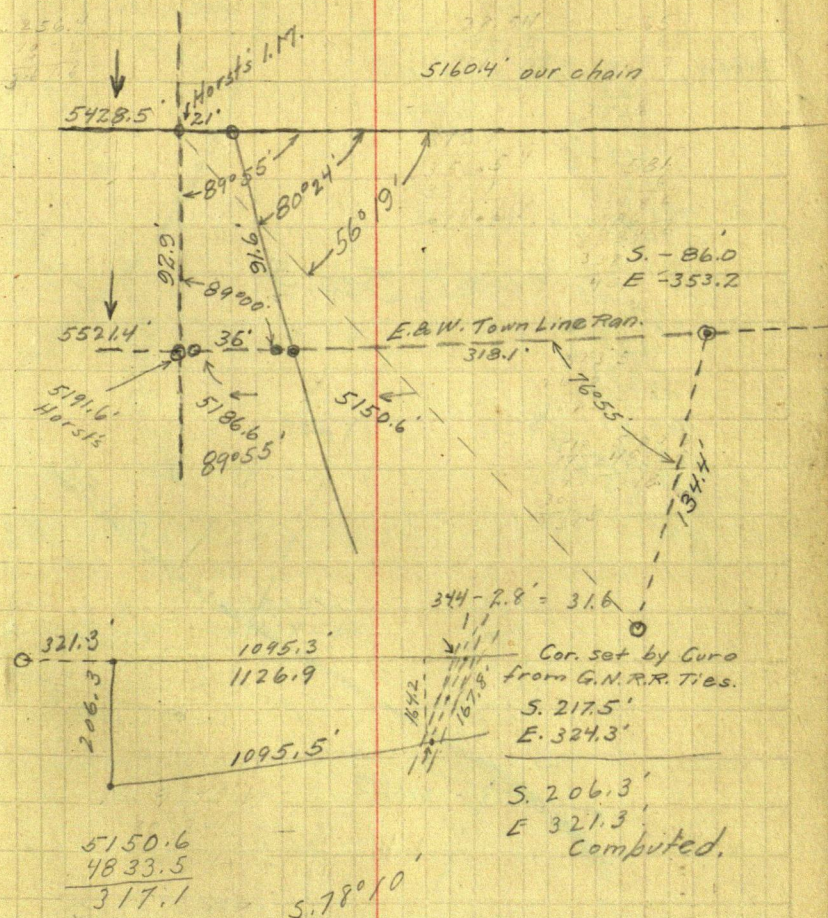
86.0

860

324.3

217.5

4833.5 W. and 1344' S.
 5150.6 Hvb. on our own N. & S. Ran down
 5151.6 Hvb. 1' W. on old E. & W. Ran.
 5186.6 " 36' W on old N. & S. - E. & W. Ran



2°16'
78°10'
76°09'

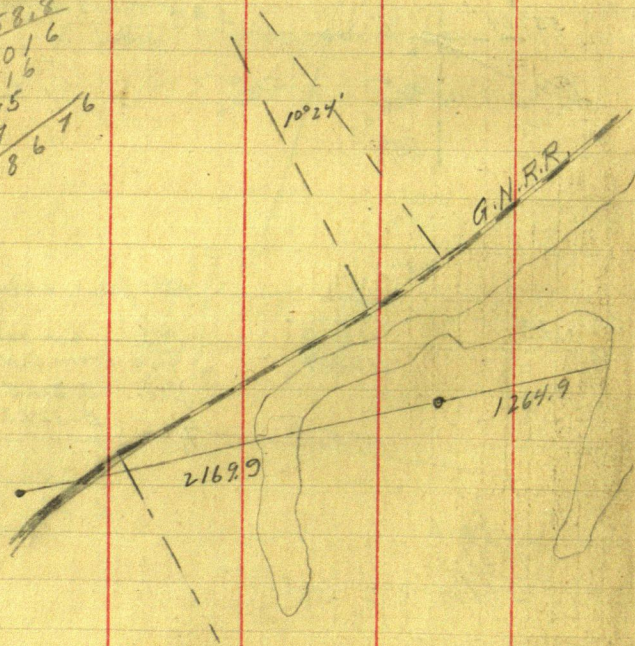
523.1
613.1
1135.2
1127.4
7.8 = Long.

3212+45.7
70.5
3211+75.2
57.4
17.8

3406.9

70.5 155.6 3717.5
88.3
158.8
20607
41116
79400
31760
39.8
97877
158.8
783016
783016
489885
97877
155.6 28676

Sec. 5



35

15.80

193

526.66

3217+72.4

3212+45.7

5126.7

206.3-S

4845.5-W

1095.5

3211+57.4

3206+45.0

613.1

15°48'

3°00'G

3406.9 to M.C.

3212+45.7 B.C.

500.4

5033.6
1030.6
R=3899.82

2086.8

3182+75.0

5474.6
5.5042 E.

88.8

5.6058 W.
5613.21230.7
N. 84°13' E.

5653.5-S

4301.7-W

M.C. - 5778.1-S
5326.0-W

78°10'

35°33'

42°31'

May 16, 1924 The 2 Colburns brush out along
5th Lake.
Jude - Revere - Greene
checking North line.

Sta. 0 N.E. Cor. Sec. 4

3+79.6 2"X48" Mon. for M.C.

17+64.9 2"X48" " " M.C. former

21.03

126.4

33.9

21+03.0 Hub. South of Road Center

2108.0

25+83.4 2"X48" Mon. for 1/4 Cor.

27+04.2 Hub.
Line on tan. produced

37+17.5

405.3

56

510

21

2500

37+16.5 Tan to West rail of G.N.R.R.

Sta. 3213+16.2

38+04.5 Hub.

38+75.1 1/6 Cor. 1 1/2" X 48" flue pipe

516.8 Horst's N.W. Corner.

Geo. Revere May 10-12-16th

7870

11501

20501

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

12301

2103.0
302.2
2405.2

2103.0
602.4
2705.4

135981917

Exterior Lines Sec. 4-14-31

N.

S

E

W

East 5166.8

5166.8

S. 10° 03' E. 5572.6

5487.1

372.5

S. 88° 11' W. 5276.8

167.3

5274.2

N. 8° 42' E. 5719.2

5653.9

864.9

Closure —

5653.9

5654.4

6139.3

6139.1

May 21 & May 22

Computing - Platting

03492
 1864-1
 13968
 20952
 27936
 3492
 6509 088

			N	S	E	W
S. 5°41'E.	21.5'	00903 99508		21.4	.2	
N. 85°13'E	120.2'	99652 08339	100		119.8	5.1
N. 90°36'W.	1268.3'	16677 98600	30.6			211.5
S. 70°41'W.	33'	94370 33079	1250.5			

N			1260.5	10.9	120.0	31.1
			32.3	32.3		242.6
			1228.2			120.0
						128.6
						5.1

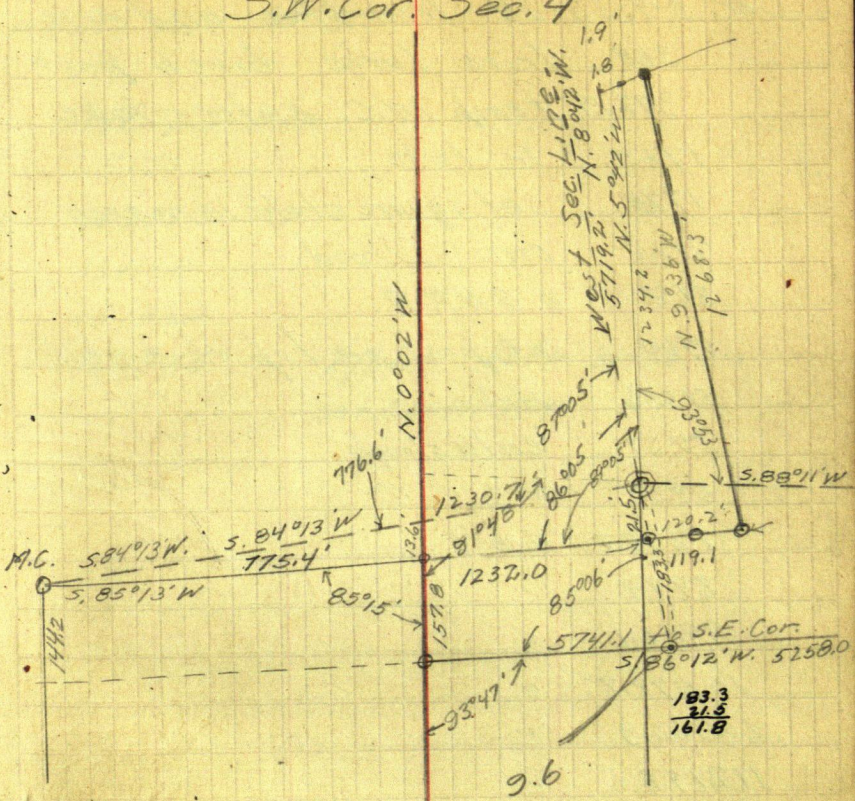
122.6	1228.2	N. 50°41'W	1228.2	30.6	117.5
1226	2200		30.6		
			1198.6		

1234.2	1228.20	1234.2
00148	99508	
98736	233120	
49368	194016	
12342	341040	
1826616	298524	
	425160	
	398032	
	271280	

99508	1228.20	1234.2
	99508	
	233120	
	194016	
	341040	
	298524	
	425160	
	398032	
	271280	
	1.9	

94370	18000	
	94370	
	856300	
	849330	
	069700	

S.W. Cor. Sec. 4



Extract Rec. 396 F.B. 86 p

Start at

Cor. 3-4-33-34 Iron Mon and run
368 drive large birch post
372.9 temp M.C. enter lake
1765 Jr. lake
1778 set square stake in marsh
2120 cross old road
3738 @ G.N.R.R.
4400 set post on top of big hill
5151.6 Hub
5737 enter slough
5900 Jr. "
7298.7 Hub
8999 "
9956.1 "
10578.7 "
10862.9 "
11269.8 "
11519.1 "
11902.4 Hub
12324.4 "
12756.6 "
13140.8 "
13790.8 "
14311.5 "
14704.6 "

West on Var. 8°

14870.3 Hub

15179 "

15282.9 "

15419.8 "

15783.0 "

16057.5 " $\frac{1}{4}$ post betw. 31-36
set South 34.9

S. 52° 30' E

S. 35° 41' W

188° 11'

5th Lake

S. 52° 30' E 32 25' 26' 27'
100-200-300-354.6

7° 10' 18 16 22'
S. 58° 40' E 100-200-259.8'

7° 26' 18' 16' 18'
S. 67° 06' E 100-200-243'

5° 06' 22 30' 7'
S. 72° 12' E 100-150-166.4

3° 21' Creek 40' 30'
S. 68° 51' E 22-38-99.5

99° 26'

S. 30° 35' W

348

26° 47'

	April										May									
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4
\$45 Wm Jude	1/2																			
69 Georg Revere																				
7.50 Chas Colburn																				
24.75 F.R. Colburn																				
21.75 George Evans																				
J.M. Greene																				

May 21 22

1 1 17 1/4

J.M. Greene

	1	2	3	4	5	6	11	12	13	14	15	16	18	19	20	21	22	23	26	27	28	29
Field J.M. Greene	1	1/2	0	0	0	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1
Office J.M. Greene	1/2	1/2	0	1	0	1	0	0	0	1	0	1/2	0	0	0	0	0	1	32	1	1	1
M. Jude	1/2	1/2	0	0	0	0	1	1	1	0	1	0	1	1	1	1	1	0	1	1	1	1
P.R. Colburn							1/2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0
H.L. "							1/2	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0
Chas. "							0	1	1	0	1	0	1	0	1	1	1	1	0	1	1	1
Bob Ross																						
John Eck																						
W.E. Deibel																						
June	1	2	3																			
Greene	1	1	1																			

10.50
13.50
15.00

47

July 28, 1924 John M. Greene

P.M. Computing

July 29, 1924 John

A.M. computing 2 1/2 hours

Sept. 26, 1924

		9.125092	9.993760
		2.752922	3.752922
S. 90°40'E	5741.1	2.984081	3.752777
		9.995485	6.921103
		2.379904	2.079904
S. 85°13'W	120.2	2.078359	1.001007
		8.997036	9.997847
N. 5°42'W	5496.4	3.140330	3.140330
		2.137366	3.138177
		137.8	1374.3
N. 56°24'W	388.1	8.997036	9.997847
		3.134941	3.134941
		2.131977	3.132788
		135.5	1357.3
East	21.0		

1381.4	S. 5°42'E	8.997036	9.997847	
		3.140330	3.140330	4071.9
		2.137366	3.138177	1374.3
		137.8	1374.3	5445.2
1364.4		8.997036	9.997847	
		3.134941	3.134941	406.5
		2.131977	3.132788	137.4
		135.5	1357.3	543.7
4093.2				21.2
1381.4				545.9
5474.6				

21.5		8.997036	9.997847	
		1.332438	1.332438	5445.2
		0.329474	1.330325	21.2
		2.1	21.4	5466.6
				5445.2
				215.2
				5660.4

2886.2-
 1586.6
 1268.3

 5741.1

N.	S	E	W
	5659.5	964.0	
	10.0		119.8
5469.0			545.8
214.7		323.3	323.3
		21.0	21.0
5683.7	5669.5	985.0	988.9
21.5	21.5		
5662.2	5648.0		

Cos Sin

East 21'

S. 9°36'E. 91.6 .98600 .16677

N. 89°E 317.1 .01745 .99985

S. 12°05'W 134.4 .97784 .20933

N. 56°24'W 390.6 .55339 .83292

* 56°19' in field 388.1

N. W. Cor. 4843.8 West 215.2 South

S. 56°19'E 388.1 55484 83195

355.4

W. 1615.1

225083 = Cot 2°33'

215.2 4843.8
 4304
 5398
 4304
 10940
 10760
 18000
 17216
 7840

225083

215.2 4843.8
 4304
 5398
 4304
 10940
 10760
 18000
 17216
 7840

X 47°26' from North

X 132°34'

N	S	E.	W
—	—	21.0	—
—	90.3	15.3	—
5.5	—	317.1	—
—	131.4	—	28.1
216.2	221.7	353.4	325.3

221.7 221.7 353.4 353.4

216.2 325.3 5166.8
323.0
4843.8

5546.2 83212 -7
3881.4 10388.1 -2
5546 83212
44368 665696
44368 665696
16638 249636
21524026 32294577.2

78°10'
2033
75°37'
76°09'

89.6°
72°43'
S 77°17' W.

5166.8
323.0
4843.8

S. 56°19' E
133°36'
10

S. 88°58' W S. 56°19' E
12°43' 77°26'
76°15' 103°45'
56°19' 576°15'
132°34' L
47°24'
179°58'

55.61
92.9 5166.8
4645
5218
4645
5730
5574
1560

	N.	S.	E.	W.
S. 6°59'½ W	5604.5	5562.9		682.2
N. 84°37' E	1230.7	115.3	1225.5	
N. 5°42' W	5474.6	5447.6		543.3
	5562.9		1225.5	1225.5

Co-Or. Cor. Sec. 4-141-31

N.E. Corner 0.0 0.0

N.W. " -215.2 -4843.8 & 2°33' S

S.W. -5662.8 -4300.5 & 5°42' E

S.E. -5487.1 +972.5 & 1°55' N

& 10°03'

S. 10°03' E 5572.6 5487.1 972.5

S. 88°06' W 5275.9 175.7 5273.0

N. 5°42' W 5474.6 5447.6 543.3

N. 87°27' E 4848.6 215.2 4843.8

5662.8 5662.8 5816.3 5816.3

S. 56°19' E

135°54'

S. 79°35' W

N. 56°24' W

47°26'

103°50'

S. 76°10' W

S

W

53

215.2

4843.8

N.W. Cor. Sec. 4

5778.1

5526.0

M.C. bet 58 & 8

5662.8

4300.5

S.W. Cor. Sec. 4

215.2

4843.8

N.W. Cor. Sec. 4

N. Line S. $87^{\circ}27'W$ $86^{\circ}51'$ W. " S. $5^{\circ}42'E$ $93^{\circ}47'$ S. " N. $88^{\circ}05'E$ $81^{\circ}53'$ E. " N. $10^{\circ}03'W$ $97^{\circ}30'$ $360^{\circ}00'$

68.22

80.25 5474.6

4815.0

659.60

6420.0

176.00

1605.0

1550.0

68.22

1364.80

4093.2

5474.6

1381.8

1364.4

17.03

1381.43

North Boundary 141-31

N. 89°47'E bet. 68.31 V. 11°E.

45.48 1/4 Cor Pop. 4" N. 13 W. 13
Birch 3" S. 27 E 27

85.48 5-6-31-32

Pop 4" N. 40° E. 68
V. Pine 14" N. 30° W. 100
Tam. 6" S. 28° W. 42
W. Pine 18" S. 41 1/2 E. 142

N. 89°47'E. bet. 58.32 Var. 11°

40.00 1/4 Cor. Pop. 3 N. 53 E. 11
" 3 S. 3 W. 6

80.00 4-5-32-33

Pop 3 N. 61 E. 13
" 3 N. 25 W. 13
" 4 S. 27 W. 31
" 3 S. 47 E 10

1320	16548	68.679	68.679
<u>7</u>		1136500	548
9240		99288	599432
<u>2125</u>		143620	274716
11365		132384	343395
		112360	3763609 2
68.679		99288	1098864
<u>20</u>		130720	11365.00
1373580	1320	115836	
137358		148840	
		148932	
		#	
68.679	412074		
<u>7</u>			
480753	824148	53.6	
<u>2</u>		214.4	
961506			
<u>9240</u>			
375			

P.M. Sept. 22-1924

1/4 N.W. Olson

1/2 John Ecke

1/2 G.D. Phelps

1/2 George Revere

1/2 John M. Greene

Sept 23-1924

John Ecke

G.D. Phelps

Geo. Revere

John M. Greene

Sept. 24 George Revere

Greene, 1461.8

A.M. Sept 25 Revere - Greene

P.M. 1/4

Sept. 26

A.M. 1/4 Sec. 4 S.W. Cor.

X 86°

546.5' to I.P.

X N.E. 65° 30' approx.

7920

N.W. Cor. Sec. 4

33° 58' 0" N.W.T.

New O.

Old G.

N.W.T.

Town Line bet.

T. 141-142 - TR. 31

N.W. Cor. Sec. 4 to

N.W. Cor. Sec. 6

3.35' S. of I.M.

Sta. 0 - 4-5-31-32

Hill 2463 int. Tran Line

5486 Rock 3'x3'x4' deep
6460 Post on T. Line

12400 Ravine

1320 Elm post

141.8 Hub

660 " on T. Line

840 Cross Olson Water Road

1320 Oak Post - Temp. 1/4 Cor.

673 Cross barb wire fence

1320 Temp 1/16 T. Line

1320 " Sec. Cor. T. Line

6600 Temp. 1/16 - T. Line

6703.4 Hub - road #34

6734.5 " " #34

7920 Temp 1/4 Cor - T. Line

7911 Cross old blazed 1/4 L

363.5 cross Tel. line

375. enter clearing

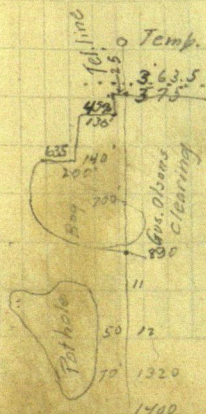
890 " "

1320 Temp. 1/16 Cor

122 Cross road - upon trail

908 10

1125' = 2125' 11,365'



9240

A Town Cor. 2" x 4" Gal. Pipe.

3.35'

□

$ \begin{array}{r} \text{Sin } 47^{\circ} 26' \\ \underline{73806} \\ 3881 \\ \underline{73806} \\ 590448 \\ 590448 \\ \underline{221418} \\ 286441086 \end{array} $	$ \begin{array}{r} 73806 - 4385 \\ \underline{3881} - 2 \\ 73806 \\ 590448 \\ 590448 \\ \underline{221418} \\ 286441086 \end{array} $	$ \begin{array}{r} 67645 - 1 \\ \underline{3881} - 2 \\ 67645 \\ 541760 \\ 541760 \\ \underline{202935} \\ 262530245 \end{array} $
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------

$ \begin{array}{r} 546.5 - 2 \\ \underline{06976} - 1 \\ 32790 \\ 38255 \\ 49185 \\ \underline{32790} \\ 38123340 \end{array} $	$ \begin{array}{r} .99756 \\ \underline{546.5} - 2 \\ 498780 \\ 598536 \\ 399024 \\ \underline{498780} \\ 545166540 \end{array} $	$ \begin{array}{r} 545.2 \\ \underline{286.4} \\ 158.8 \end{array} $
-------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------

$$\begin{array}{r}
 5494.4 \\
 \underline{262.5} \\
 5231.9 \\
 38.1 \\
 \underline{5270.0}
 \end{array}$$

$$\begin{array}{r}
 97025 \\
 \underline{291.075}
 \end{array}$$

$$\begin{array}{r}
 546.5 \\
 \underline{136.6} \\
 3 \\
 \underline{409.8}
 \end{array}$$

$$\begin{array}{r}
 86^{\circ} 10' W \\
 \underline{5.76^{\circ} 10'} \\
 162^{\circ} 50' \\
 171^{\circ} 50'
 \end{array}$$

$$\begin{array}{r}
 76^{\circ} 10' \\
 \underline{86} \\
 162^{\circ} 10' \\
 17^{\circ} 50'
 \end{array}$$

53.236

Sec. 32

5265.2

No Mans Land

5.76°10'W

5494.4'

90°

262.5

286.4

388.1

479.6

90°

38.1

21°

4648

2560.2

3303.6

388.1

479.6

949.4

5.76°10'W

263°

81°52'

85°46'

N. 98°36'W.

5.76°10'W

1618.9

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

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1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

5.87°24'W.

Sec. 4

5.87°45'W.

5.87°56'W

5.88°05'W.

89°05'

215

120.2'

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

1364.4

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1364.4

1364.4

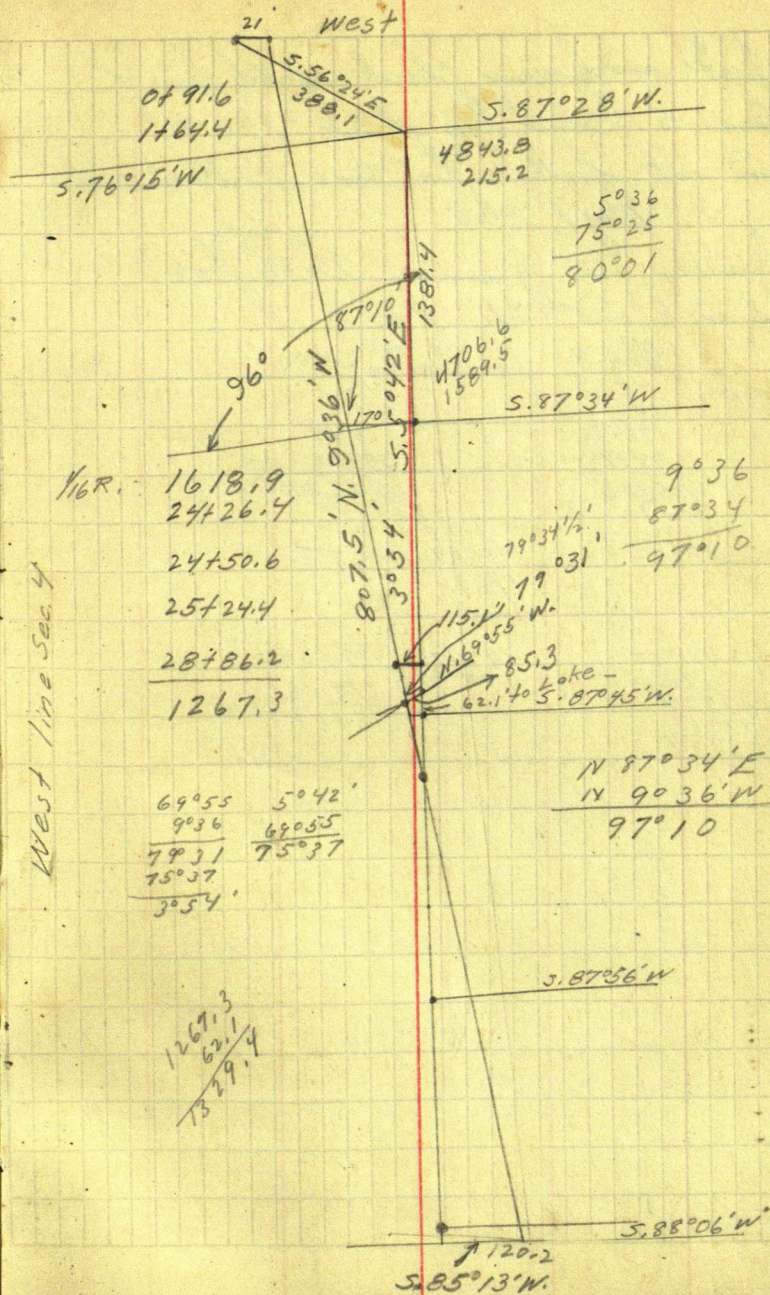
1364.4

1364.4

		N	S	E	W.
N. 9°36' W	1618.9	1596.2			270
West	21				21
S. 56°24' E	388.1		215.2	323.3	
S. 50°42' E	1381.4		1374.3	137.2	169.8
S. 87°34' W	170		7.2		169.8
		1596.2	1596.7	460.5	460.8

3054'	06802		2426.4
	<u>807.5</u>		<u>1618.9</u>
	34010		807.5
	47614		
	544160	170.0	115.1
	<u>54926150</u>	<u>54.9</u>	<u>31.</u>
		115.1	84.1
	2886.2		
	<u>2426.4</u>		
	459.8		
	06802		
	<u>459.8</u>		
	54416		
	61218		
	34010		
	34010		
	<u>27208</u>		
	310157516		

		N	S	E	W.
N. 9°36' W	1267.3	1249.5			211.4
N. 87°34' E	170	7.2		169.8	169.8
S. 50°42' E	1283.5		1227.4	121.7	
S. 69°55' W	85.3		29.3	281.5	80.1
		1256.7	1256.7	211.7	
		<u>29.3</u>		80.1	
		1227.4			



April 30 - 1925

Jude and Greene check north line of
Sec. 5 - South line of 32 - 142 - 31
and set hickels for true $\frac{1}{16}$ Cor. 3 hrs

May 1, 1925

Jude and Greene. Little for
Sec. 6 and 31. 4 hrs

May 2, Computing

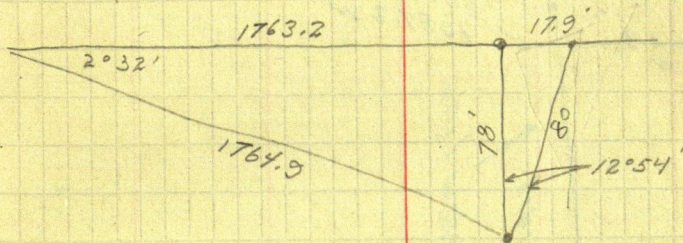
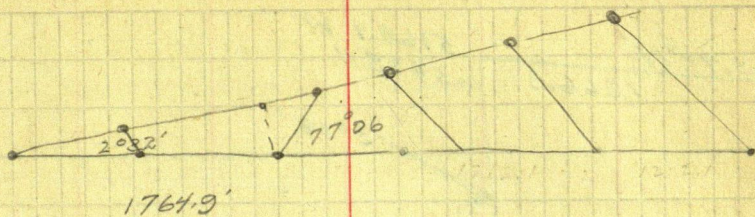
3 hrs

$$\begin{array}{r} 17649 \\ .0442 - 1 \\ \hline 35298 \\ 70596 \\ 70596 \\ \hline 78008.58 \end{array}$$

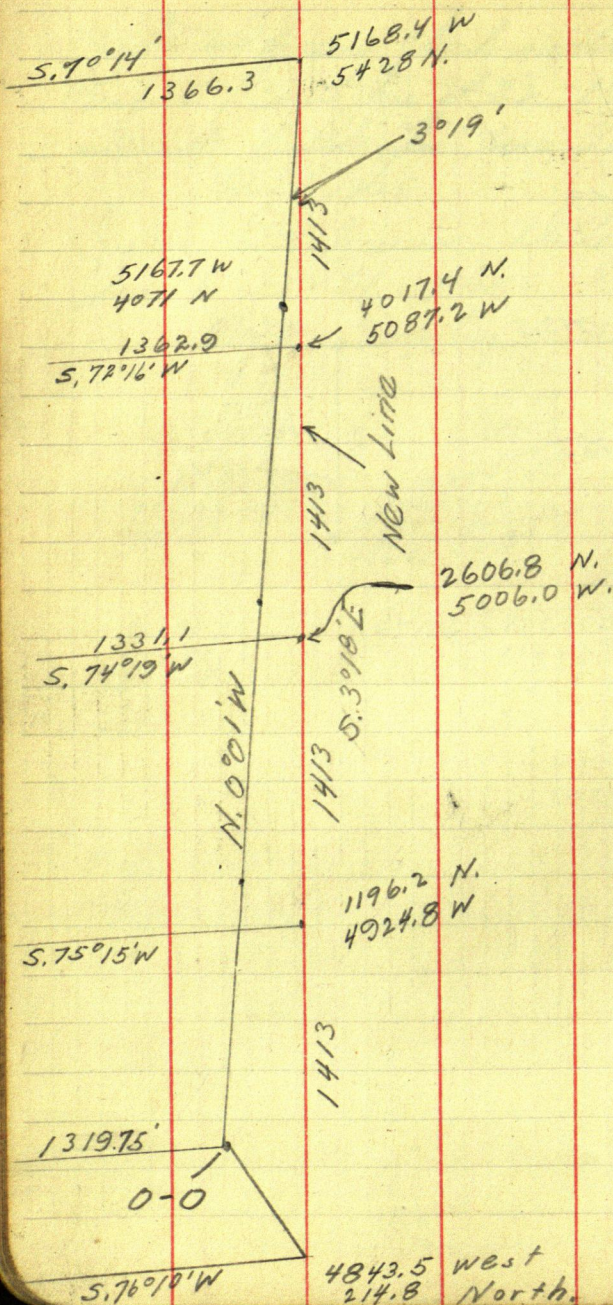
$$\begin{array}{r} 17649 \\ 99902 - 2 \\ \hline 35298 \\ 1588410 \\ 1588410 \\ \hline 1588410 \\ 1763.170398 \end{array}$$

$$\begin{array}{r} 22903.7 \\ 72.66 \\ \hline 183224 \\ 160321 \\ \hline 1786434 \end{array}$$

$$\begin{array}{r} 80.02 \\ 97476 \overline{) 780,000} \\ \underline{779808} \\ 019,200. \end{array}$$



Sec. 32



N. 7° 52' W
67° 24'
S 75° 16' E

6° 46' 30"
88° 11'
94° 57' 30"
85° 02' 30"

5° 41'
88° 11'
93° 52'

52° 3'
18° 1'
54° 1'

88° 11' N
N. 7° 52'
96° 03'
83° 57'

8° 57' 30"
88° 11'
97° 08' 30"

0872
932
1744
2616
7848
812704

170
121
1871

87° 59'
6° 25'
94° 24'

87° 47'
10° 03'
97° 50'

87° 59'
8° 57' 30"
96° 56' 30"

87° 35'
10° 03'
97° 38'
82° 22'

10° 03'
79° 57'
2° 13'
82° 10'
97° 50'

41° 53'
38° 10'
3° 43'

87° 59'
8° 57' 30"
96° 56' 30"

87° 57'
10° 03'
98°
97°

87° 47'
50° 20'
138° 07'
N 41° 53' E
22° 08' E
N 19° 45' E
48° 26' W
N 28° 41'
36° 35'
65° 16'
40° 27'
69° 43'

6° 46' 30"
87° 59' 30"
94° 45' 30"
85° 14' 30"

172° 08'
86° 12'
85° 56'

88° 01'
8° 003'
98° 14'
81° 46'

5041
86° 12'
91° 03'
88° 01'

5041
86° 12'
91° 03'
88° 01'

103° 2'
50° 11'
2° 11'

85° 53'
2° 01'
88° 01'
91° 03'
96° 08'
58° 08'

604
80° 11'
48° 23'

2761

86



94
91.53
2° 07

03696
1864
14784
22176

1364.4
4093.2
1381.4
5474.6
2086.8
3388
5474.8

186.4
94
91° 53'

1381.4
720.6
2102.0

29368
3696
6.889344

5263.5
6.9
5270.4
1317.6
3
3952.8
7.2

N.W. Cor.

8.1
320.3
1925
1381.4
93° 11'

328.3 - 7.4
02473 - 7
9849
2298.1
13132
6566
8.118859

676. = 0° 05'

11.8735 E. 8.115474.8

1/16 Line

486
614
567
478

87° 35'
5° 36'
93° 11'

2102

5474.6

0° 05'

720.6

Rounding

N. 50° 36' W

N. 50° 41' W

5474.6
328.3
5146.3

00148 - 4
32 - 5
296
444
473.6
148
4.884
1.48
5.032

4.736
1.48
4.588
1.48
4.440
1.48
4.292
1.48
4.144

1381.4
720.6
2102.0

139.8'
92°58'30"

N 2

94.04'

95°09'30"

34-5'
33-4.8
32-4.7
31-4.6
30-4.4
29-4.3

26 29

2074.8

1381.4
700
2081.4

5474.8
2081.4
3393.4
6.6
0.0

2081.4
6.6
2074.85

E

34

33

1268.3

N 87°47'E

8°57'30"

8°57'30"

24°36'

59 27

86°12'

112.23

N 68°24'30"E

95°09'30"

5,67°37'E

87°59' 7°52'
24°36' 59°27'
112.35 167°19'
67°25'

6°46'30"
86°12'
92°58'30"
87°01'30"

5146.3 -1

20148 -4

5041

86°12'

421704

205852

51463

00148

7.616524

5474.8

8.1000

54748

262520

218992

436280

437984

4093.2

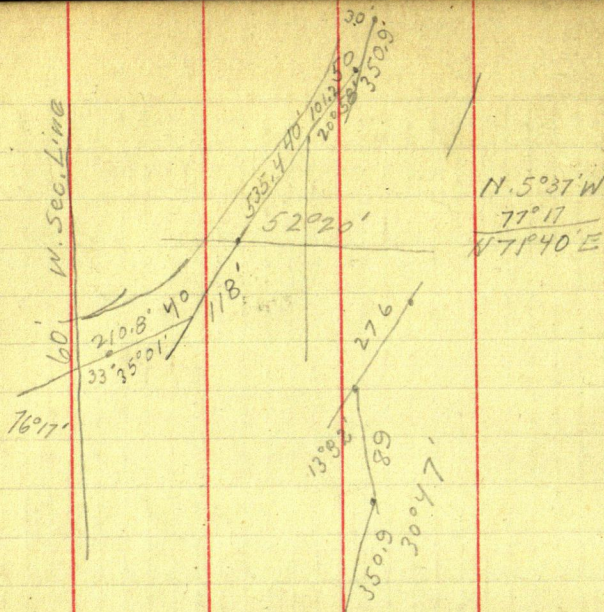
148-4

327456

163728

40932

6.037936

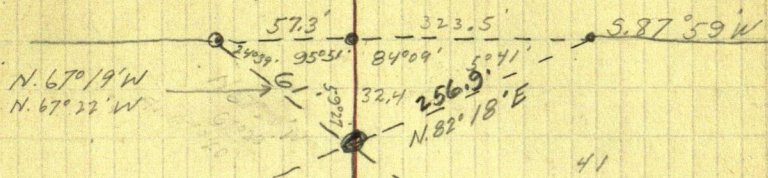


3796 -7-1
04338-4
11388
11388
11388
57°28' 15184
16448068
99906
3796
599436
899154
699342
299718
37924317

156767 -5
16.45 -7 25.8

783835
627068
940602
156767
25.7881715
30.6
53.779 16.448068
161337

84308 30.6
25.7881715
25.2924
495.775
314.368

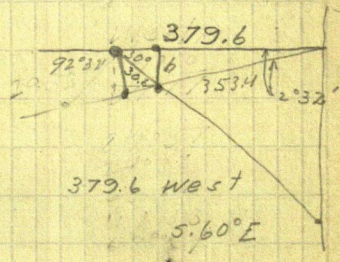


41707	86119
61	61
41707	86119
28243	48714
324127	578159

90 9952 11

10.04837

324
401932
200966
301449
3235649

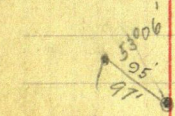


379.2
25.8
353.4

3°18'
70°14'
73°32'

S. 56°24' E
S. 3°18' E
53°06' - 97'

67°37'
53°06'
14°31'
S. 72°16' W
3°18'
75°34'



.83292
2
1.66

808.
1.66 1341
1328
1300

S. 17°53' E

83292
388
666336
666336
249876
32317296

81
3
17°53'
74°19'
75°15'
3018
78°33'

5166.8
323.1
4843.7

5 74°19' W
3018
78°27' 101 23

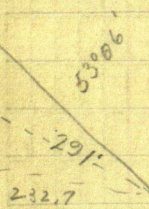
4 1546.5
136.6
3

36°54' 22°23'

409.8

60042
291
60042
540378
120084
1747222

77968
291
77968
719712
159936
23270688



41183.4
2327.5

174.7
95.8
78.7
5.74°19' W
5.17°53' E
72°12'
87°48'

282281
82366
123549
82366
9583284

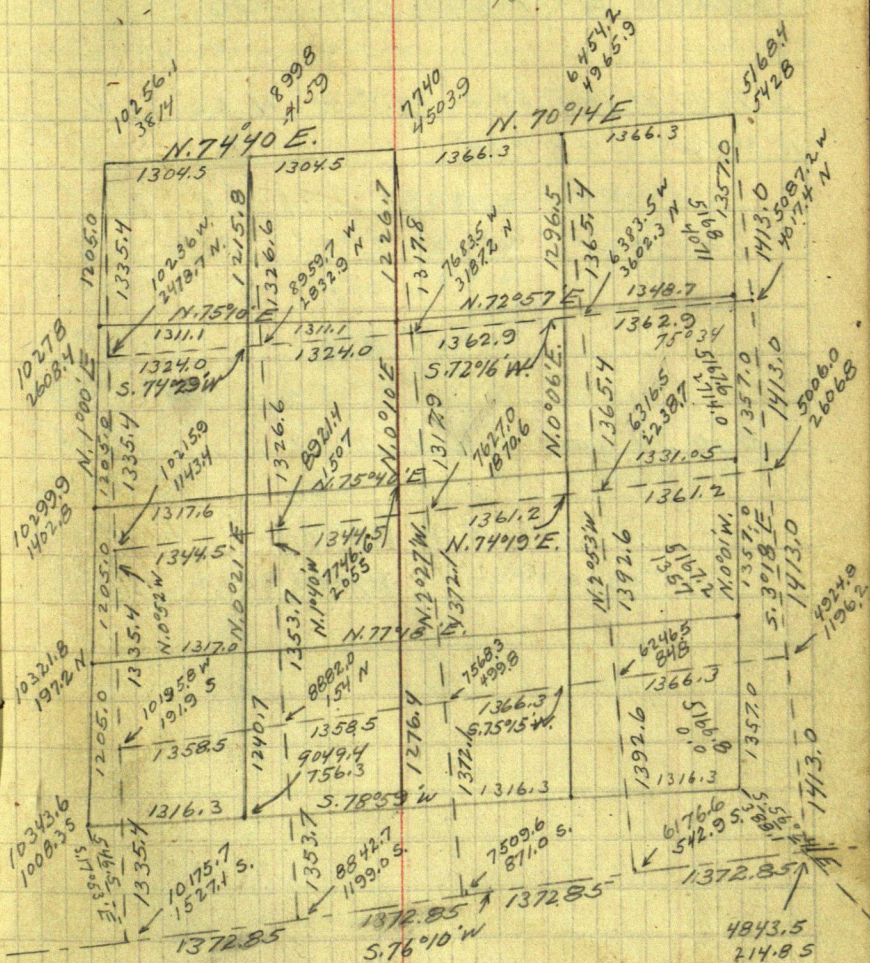
273.2

N. 7

Sec. 32-142-31

74°40' 70°14'
1°40' 2°53'
76°20' 73°07'

75



74°19'
3°18'
77°37'

S.E. Cor. Sec. 32-142-31

Sighted West along Corrected Line for

" " " " "

S. $76^{\circ}10'W + 47^{\circ}29' = 123^{\circ}39' = N 56^{\circ}21'W$

N. $3^{\circ}18'W \angle = 79^{\circ}28'$

Running West S. $75^{\circ}15'W$ & 78.33'

S. $1/6$ Line & W-N. $72^{\circ}30'$ Dis 276'

$97^{\circ}41'$ " 313.9'

$101^{\circ}53'$ 368'

$93^{\circ}05'$ sight East. (407.7') 408.9'

E. & W. $1/4$ Line & N-W. $29^{\circ}32'$ 171.7'

$59^{\circ}05'$ E-N 182.2

N-W $25^{\circ}24'$ 181.8

87.48 273.2

172.2

red x to old cor: (Horsts) \times W-N. $47^{\circ}29'$
 \times South on true line $81^{\circ}37'$

$$81^{\circ}57' - 76^{\circ}10' = 5^{\circ}47'$$

	10299.9	1402.8
N. $32^{\circ}14'W$	<u>10215.9</u>	<u>1143.4</u>
N. $7^{\circ}03'W$	84.0	259.4
N. $2^{\circ}51'W$	<u>84</u> <u>31088</u>	= $17^{\circ}56'$
N. $17^{\circ}47'W$	<u>252</u>	
N. $44^{\circ}09'W$	740	
N. $16^{\circ}18'E$	<u>672</u>	$16^{\circ}49'$
N. $40^{\circ}01'W$	680	<u>1004</u>
N. $16^{\circ}49'W$ = $1^{\circ}04'$ North		<u>17^{\circ}53'</u>
		$74^{\circ}19' = 75^{\circ}23'$

$$\begin{array}{r} 272.6 \\ 172.2 \\ \hline 100.4 \end{array}$$

$$\begin{array}{r} 172.6 \\ 20.4 \\ \hline 193.0 \end{array}$$

$$\begin{array}{r} 546.5 \\ 273.2 \end{array}$$

S. 1/16 Line

E. 1/16 N. 44°15' W 304.6 (305.6) ^{N. 87°08' to New Stack} ^{N. 89°E old Stack}

N. 32°14' W 276 R. 70.1 E

C. 1/16 N. 33°31' W 330.4 229.0

N. 7°03' W 313.9 R. 147.8 E

W. 1/16 N. 24°55' W 366.4 366.4

N. 2°51' W 368.0 R. 140.5 E

E. & W. 1/4 Line

E. 1/16 N. 44°09' W 203.2

N. 44°09' W 171.7 +31.5

C. Sec. N. 32°48' W. 220.8' 164.6

R. 10 N. 16°18' E 182.2 R 144.9 E +56.3

S. 86°57' E to Stack at 50m. 84254-old Stack
W. 1/16 N. 24°39' W. 244.1 164.9 to R. Line

N. 40°01' W 181.8 R 49 W +77.4

N. 1/16 Line

E. 1/16 Cor. N. 44°41' W 102.5 X 63°03' 93.5

C. 1/16 N. 32°58' W 109.9 X 74°46' 107.6

W. 1/16 N. 24°40' W 121.9 X 80°51'

W. Sec. Line 1/16 N. 17°56' W 136.3 X 92°25'

W. 1/4 Cor. S. 17°56' W 272.6

H.A. Hanson

Green \$20
Jude \$6
Plumb Bob 1.25
28-29 27.25
Field

Dec. 27, 1928

Sec. 31-142-31

Set up on W. 1/4 Cor. Sec. 32
sight back on 1/4 Line & Right
2°00' ± Ran. Dis 6060' ±

Continuance would cut about 200' South
of Corner.

N. 0°52'W. on West Sec. Line 32
Tgn west S. 76°19'W along R. 1.

Hub on hill - 2165.5

S. 43°54'E. to Fire Tower.

S. 44°54'E. " 2165.5 + 975' + 81' = 3221.5

Hub 4200'

N. 8°14'W to 1/4 Cor 28.2'

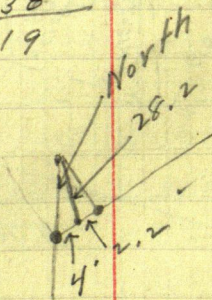
Sta 6005' = Hub. 6009

.14320	86.90
28.2	85.48
2864	2 17238
11456	86.19
2864	

4038240

6

N. 13°41' W
8°14'
5°27'



0773
28.2
1546
6184
153.6
22898.6

4200 - 26.8 = 4173.2 Temp Lot Cor

$$\begin{array}{r}
 2165.5 \\
 975 \\
 \hline
 81 \\
 3221.5 \\
 78.5 \\
 \hline
 3300
 \end{array}$$

72°30'

$$\begin{array}{r}
 10215.9 \\
 5006 \\
 \hline
 5209.9
 \end{array}$$

$$\begin{array}{r}
 2606.8 \\
 1143.4 \\
 \hline
 1463.4
 \end{array}$$

3.56

$$\begin{array}{r}
 1463.4 \quad 5209.9 \\
 \hline
 4390.2 \\
 819.70 \\
 \hline
 731.70 \\
 880.00 \\
 878.04
 \end{array}$$

5.74°19'W
2000

5.76°19'W

6.005
2.2

$$\begin{array}{r}
 86.19 \quad 60028 \\
 \hline
 51714 \\
 83140 \\
 \hline
 77571 \\
 55690 \\
 \hline
 52114 \\
 \hline
 35760
 \end{array}$$

$$\begin{array}{r}
 69.72 \quad 81 \\
 86.19 \quad 6009000 \\
 \hline
 51714 \\
 83760 \\
 \hline
 77571 \\
 61890 \\
 \hline
 66333
 \end{array}$$

$$\begin{array}{r}
 30071 \\
 276 \\
 \hline
 180426 \\
 210497 \\
 60142 \\
 \hline
 829939.6 \\
 155372 \\
 276 \\
 \hline
 572232 \\
 667604 \\
 190744 \\
 \hline
 2632267.2
 \end{array}$$

83.0

$$\begin{array}{r}
 56577 \\
 263.2 \\
 \hline
 113154 \\
 169731 \\
 339462 \\
 113154 \\
 \hline
 148910664 \\
 83 \\
 \hline
 65.9
 \end{array}$$

69.72
60

$$\begin{array}{r}
 4183.20 \\
 6009 \\
 \hline
 26.8
 \end{array}$$

$$\begin{array}{r}
 10256.1 \quad 3514 \\
 10175.7 \quad 1527.1 \quad 66 \\
 \hline
 80.4 \quad 534.1 \\
 4824 \\
 \hline
 5171
 \end{array}$$

N.1°00'E

N.0°52'W

W. Pine 20° S. 15° E 17.5
W. Pine 20° N. 55° W 32.8

69.64

60

Rock Pike 16° N.E.

4178.40

21.6

47' 305.8

$$\begin{array}{r} 01367 \\ 300 \\ \hline 410100 \end{array}$$

$$\begin{array}{r} 866 \overline{) 415} \end{array}$$

119°30

707

$$\begin{array}{r} 44015 \\ \hline 75 \end{array}$$

$$\begin{array}{r} 75^{\circ}15' \\ 17^{\circ}56' \\ \hline 93^{\circ}11' \end{array} \quad \begin{array}{r} 75^{\circ}15' \\ 0^{\circ}52' \\ \hline 76^{\circ}07' \end{array}$$

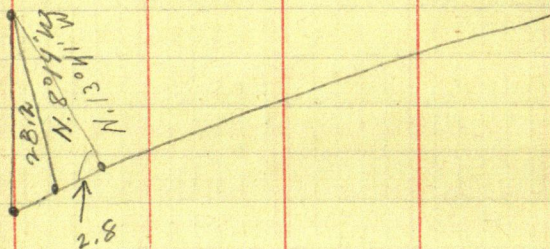
June 4- Prepared to go to Tex
road through 21 & 28 - 141-30
so put it off till tomorrow,

June 5.- Went to

Looked for some point to

June 6-

$$\begin{array}{r} 13^{\circ} 41' \\ 8^{\circ} 14' \\ \hline 5^{\circ} 27' \end{array}$$



June 5-1925

87

the Lake to run 2 miles of
Looked rainy

start from

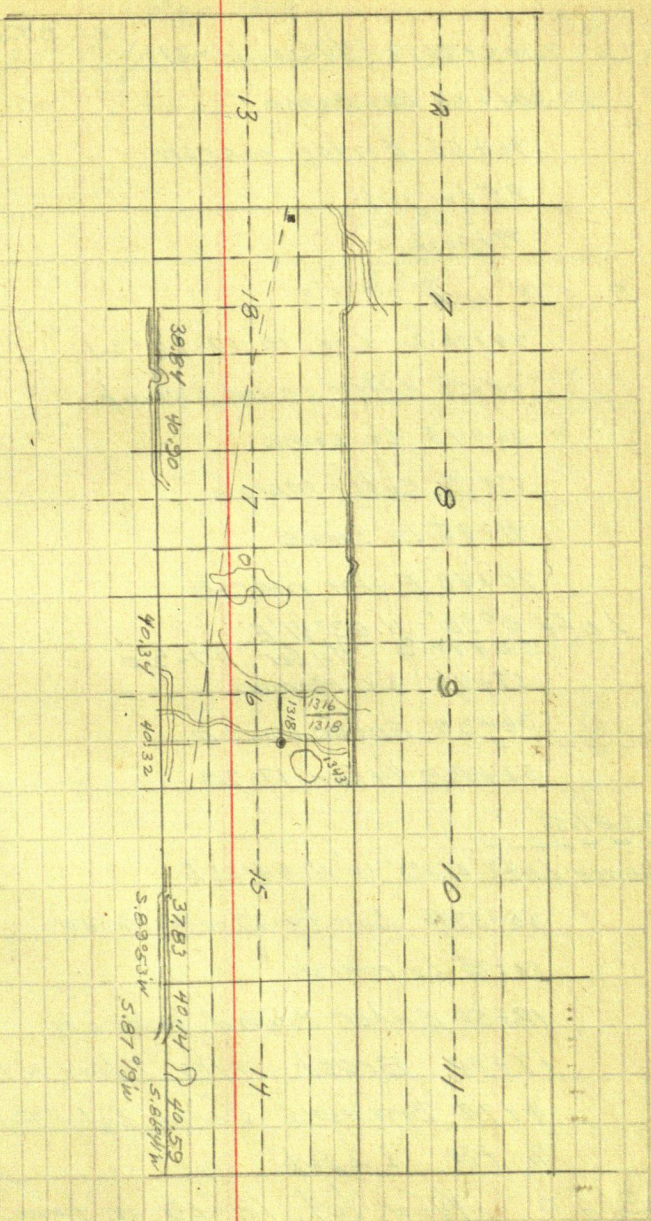
$$\begin{array}{r} 09498 \\ \underline{28.2} \\ 19396 \\ 75984 \\ \underline{19996} \\ 2778836 \end{array}$$

$$6002.2 =$$

$$\begin{array}{r} 99548 \\ \underline{28.2} \\ 199196 \\ 796384 \\ \underline{199096} \\ 28072636 \end{array}$$

$$\begin{array}{r} 213.6 = 0.16 \\ 28.1 \overline{) 6002.2} \\ \underline{562} \\ 382 \\ \underline{281} \\ 1012 \\ \underline{843} \\ 1690 \end{array}$$

$$\begin{array}{r} 5.76^{\circ} 19' W \\ \underline{16} \\ 5.76^{\circ} 35' W = \text{True E. W. } \frac{1}{4} \text{ line} \end{array}$$



105+70.3 $\frac{1}{4}$ Cor. 16-21 vs. B.T.s
 101+30 Lv. same 20 approx
 96+55 Enter marsh 15 Lv.
 85 Lv. swp. 10 marsh
 79+06.2 0 Fence Cor
= 50

Rt. $0^{\circ}54'$ or N. $84^{\circ}35'E$

79+06.2 Cor. 16-17-20-21
 75+70 Enter cedar swamp.
 74+45 Lv. same
 73+45 Enter marsh
 71+45 Lv. same
 70+40 Enter marsh
 Left $0^{\circ}36'$ N. $83^{\circ}41'E$.
 52+40.9 $\frac{1}{4}$ Cor. 17-20
 37+40 Lv. Marsh
 36+90 Enter marsh
 52+40.9 $\frac{1}{4}$ Cor. 17-20

2687.50

Thence Left $0^{\circ}29'$ or N. $84^{\circ}05'E$

25+53.40 Cor. to 17-18-19-20
 19+75 Lv. marsh
 18+50 Enter round marsh
 17+00 Brook-10/ks. Flows N.E
 4+70 Brainerd-Leech Lake Rd.
 2+70 Lv. swp.
 Sta 0 $\frac{1}{4}$ Cor. bet. 18-19 in torn. swamp

Extract Middleton's Notes

Rec. 343

91

W. Pine 30" (Stub of wind fall N. 14 1/2 E. 81.18 123 lks
 W. " 30" Stub of 5.76° E. 36.96 56 lks

$$\begin{array}{r} 10570.3 \\ 7906.2 \\ \hline 25641 \end{array}$$

$$\begin{array}{r} 123 \\ 6 \\ \hline 738 \\ 738 \\ \hline 89.48 \end{array}$$

$$\begin{array}{r} 52 \\ 6 \\ \hline 336 \\ 336 \\ \hline 36.16 \end{array}$$

$$\begin{array}{r} 4111 \\ 7223 \\ \hline 11334 \\ 103 \end{array}$$

$$\begin{array}{r} 9655 \\ 7906 \\ \hline 1749 \end{array}$$

$$\begin{array}{r} 101+30 \\ 7906 \\ \hline 2224 \end{array}$$

$$\begin{array}{r} 7111 \\ 2011 \\ \hline 9122 \\ 80 \end{array}$$

$$\begin{array}{r} 17.5 \\ 17.5 \end{array}$$

$$\begin{array}{r} 11053 \\ 13075 \end{array}$$

$$\begin{array}{r} 75015 \\ 0100 \end{array}$$

Left $3^{\circ}3'$ N. $83^{\circ}26'E$ 2499.7 to Cor. 14-15-22-23
2766.2 to $\frac{1}{4}$ Stake

Rt. $0^{\circ}36'$ N. $86^{\circ}29'E$, bet. 15 & 22

132+38.30 Cor. 15-16-21-22

121+00 Lv. same

yellow Pine
W. Pine
Y. Pine
" "

117+80 Enter large round marsh

109+00 Lv. same

107+80 Enter large round marsh

Left $0^{\circ}42'$ or N. $83^{\circ}53'E$ 16-21

Sta. 105+70.3 $\frac{1}{4}$ Cor 16-21

$$\begin{array}{r} 198 \\ 198 \\ \hline 21.78 \end{array}$$

$$\begin{array}{r} 45 \\ 27 \\ \hline 27 \\ \hline 24.1 \end{array}$$

$$\begin{array}{r} 49 \\ 29 \\ \hline 29 \\ \hline 32.3 \end{array}$$

$$\begin{array}{r} 114 \\ 125 \\ \hline 125 \end{array}$$

$$\begin{array}{r} 198 \\ 198 \\ \hline 21.78 \end{array}$$

$$\begin{array}{r} 55 \\ 33 \\ \hline 33 \\ \hline 36.3 \end{array}$$

$$\begin{array}{r} 132138.3 \\ 10570.3 \\ \hline 26680 \\ 1334. \end{array}$$

$$\begin{array}{r} 104 \\ 62 \\ \hline 62 \\ \hline 65.6 \end{array}$$

X. Pine 18 S. 49° E 19'
W. Pine 13 " N. 23° E 55'

20" (stb. of) N. 26° E. 33 lks
12" (" ") N. 64° W. 45 lks
16" " " S. 18° W. 49 lks
18" " " S. 47½° E. 104 "

300

300 L

200 E

Micky Jude
Bob Healy
April 23 Henry Bakker
Klass "

Set up at temp. 44.5. - S. side Sec.
At Hub North of N.E. Cor. Sec. 30
Cor. 2 1/2 G.I. mon. with cap.

Made new B.T.s as follows :-

N. Pine T	N. 42° W	42.1
B. of Gil 8"	N. 80° E.	26.2'
Scrub Oak 5"	S. 45° W	9.6'

Chain East from A.

1320 cross old Grade

2640 Hub

5280 "

6640

2413.2

236.8

2413.2 " at fence Cor.

Apr. 24 same crew

Brushing and chaining East

2640 Hub

+ 236.8 "

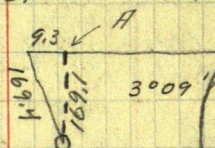
5280 "

+ 236.8 Hub

990 Hub.

+ 236.8 Hub

21-141-30 and brushed line west
turned X S.E. $86^{\circ}51'$ - 169.4'



$$\begin{array}{r}
 99849 - 3 \\
 \underline{169.4 - 2} \\
 399396 \\
 898671 \\
 599094 \\
 99849 \\
 \hline
 169.144206''
 \end{array}
 \qquad
 \begin{array}{r}
 .05495 - 5 \\
 \underline{169.4 - 2} \\
 21980 \\
 49455 \\
 32970 \\
 \underline{5495} \\
 9308530
 \end{array}$$

Apr. 26-1926

Same crew.

Set up on old R. Line Hub with facts
and brush west to flag. Chain

N. $84^{\circ}35'E$. (mag) 26641

890.9' Hub 9' south of blazed tree
1095.6'

1320.7 Hub. 16' S. of corr.

1601. Hub.

26641 Post sets W. $90^{\circ}30'N$ 32.2'

R. Line	N. $85^{\circ}16'E$	90°30'
	89°30'	0°41'
	N. $4^{\circ}14'W$	91°11'
	N. $83^{\circ}53'E$	179°18'
	88°07'	91°11'

New B.T.s

N. Pencil " N. $26^{\circ}E$ 151'

Pop. 14" S. $31^{\circ}E$ 45.4'

Continue East $\times 0^{\circ}42'N$

Sta. 8⁰⁰ Hub.

11 33⁸ Old picket 2.8' S.

1332.6 Stake 9.6 North 1.6' S

2667.0 to stake = 2665.5'

Back 1.5' and South 3.8' to true Cor. Center

New B.T.s N. P. stump N. E 35.5'

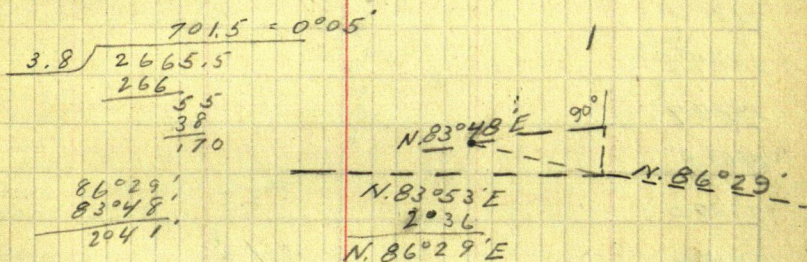
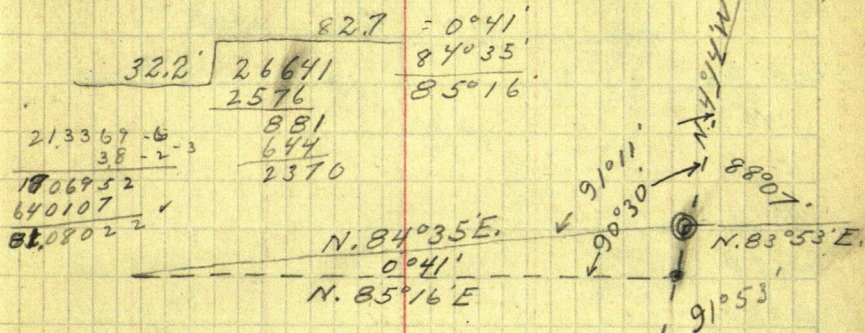
N. P. " S. W. 53.6

N. P. " S. E 47.5'

N. P. " N. W 78.3

R. Line N. $53^{\circ}48'E$

Sight west to cor. fall pole for flag.
East Sec. Cor = 0 = 16-17-20-21 orig.



2766.2

1383.1

1968.3

585.2

1968.3'

2766.2 Hub W. $92^{\circ}15'S$ 9.15'New B.T. W. Pine stp $5.6^{\circ}E$ 22'

wagon road. Orig. N.E. B.T. stub.

Apr. 28 Same crew

Continued South from N. 1/4 Sec. 21

S. 4° 44' E - Middleton's Bearing

Sta. 0-1/4 S.

340.9

514.6

813.6

1015.8

1229.0

1330.1

1484.5

1588.7

1869.8

2230.5

2410.6

2640 Hvb

2800.4

3087.0

3229.7

3348.6

3551

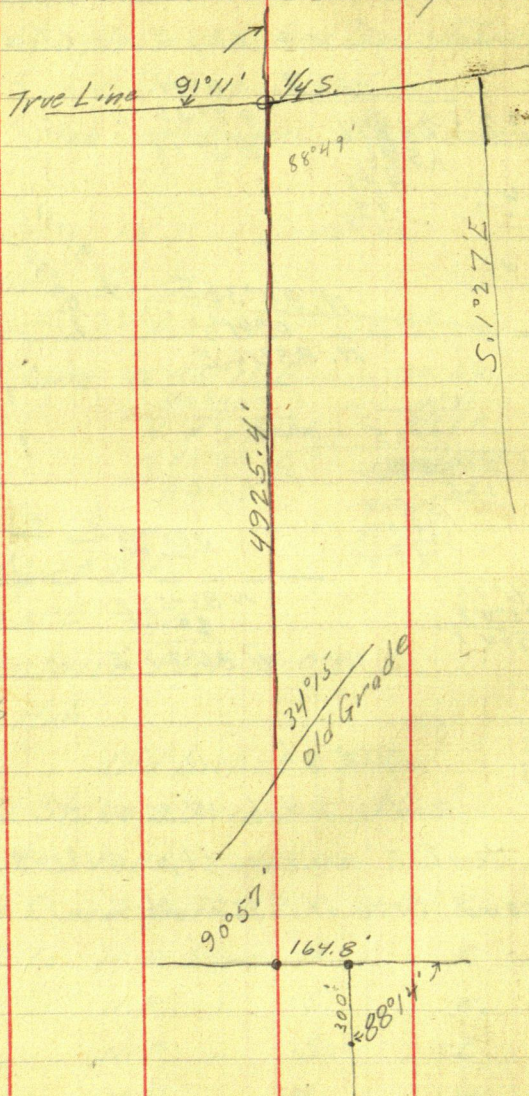
3756.7

4003

4261.5

4661.1

4925.4 R. Hvb.



5280
4925.4
354.6

1968, 3: X: 2766.2 1 9.2

N. & S. 1/4 L.R. Sec. 28

5-60
12560

Sta. 0 = 300' S. of R.

1168.8 + 300 Flag.

1521.8 + 300

2160.3

2491.0

2657.0

2923.5

2980 sub

3030. old Grade

3157.5

3200 Ir. sub.

3263

3595

3651

3753.5

3876 Cross old Grade

4000

4300

4484

4930

5195

5565

5620.6 R. Hub - Temp. Cor 11.7 East

1968.3

9.2

39376

177147

1810846 66

165972

151,126

10560

4925

5635

3966

35

4310

134

804

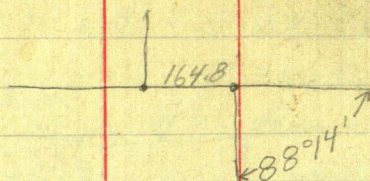
804

884

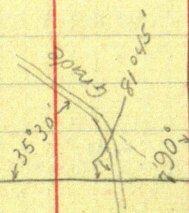
L-V 4 W. Pine 16" N 7 1/2 W 134 = 89.44

" " 13" S. 25 E 9 = 594

Apr. 29 Same crew.



N. 8. S. 1/4 P. Sec. 28
5620.6'



Sta. 0 - R. Cor.

U.S. Notes 28-29-32-33

Described Stb. Y Pine 13 S. 33 W. 29-19.14
 " " Stb. " " 16 N. 51 1/2 W. 32-21.12
 Down Oak 10 S. 30 E. 54-35.64
 Hole Poplar 14 N. 31 E. 99-65.34.

Hub #1 08'

New. N.P. 12' N. 51 W. 145.7

#2 523.9'

28.3 J.P. 9 N 53 E 131.5

1320 Hub

Rock S. 46° E 35.7

R. Cor. 2629.8'

Stake for cor. Rock p. 1/2 192

36.4' south of True Cor.

1/4 Cor Sec. 2641.5

Running East from

41. - 74.06

S. 1/4 S. Sec. 28

19.14

17.65

66.0

66

34

8+30+3

X. E by S 29° 13' to stove pipe on cabin

1320 X E by S 32° 35' " " " (Stoffigan shack)

2640 Hub Hits Head island

1419 Hub. on sea wall

Cor 27-28-33-34

X 0° 40' N. to 24' stb across

Y. Pine 8 S. 40° E 46-30.36

Lake.

" " 11 N. 50° E. 47-31.02

X 50° 40' to stake

" " 7 S. 70° E 44-29.04

X 72° 35' to chimney

" " 5 N 47° W 79-52.14

M.C. #8

W. Pine 12 N. 64° W. 37

M.C. #7

W. Pine 12 S. 44° W. 119

W. Pine 24 N. 70° E 103

Oak B" S. 10° E 97

Pine Tree

120°

2150 178 37

1290

1290

1419

37

212

249

$$\begin{array}{r}
 49254 - L \\
 \underline{01658 - 2} \\
 394032 \\
 - 246270 \\
 295524 \\
 \underline{49254} \\
 81663 \quad 132
 \end{array}$$

$$\begin{array}{r}
 4914 \\
 2255 \\
 \hline
 2659
 \end{array}$$

$$\begin{array}{r}
 164.8 \\
 81.7 \\
 \hline
 83.1 \\
 173.3 \\
 \hline
 256.4
 \end{array}$$

$$\begin{array}{r}
 49254 - L \\
 \underline{02414 - 2} \\
 197016 \\
 49254 \\
 197016 \\
 98508 \\
 \hline
 118899152
 \end{array}$$

$$\begin{array}{r}
 470 \\
 226 \overline{) 1054} \\
 \underline{904} \\
 1506 \\
 \underline{1582}
 \end{array}$$

$$\begin{array}{r}
 03083 - 5 \\
 5620.6 - 1 \\
 168618 \\
 449648 \\
 1686180 \\
 \hline
 173283098 \\
 1117 \\
 \hline
 185.0 \\
 81.66 \\
 173.3
 \end{array}$$

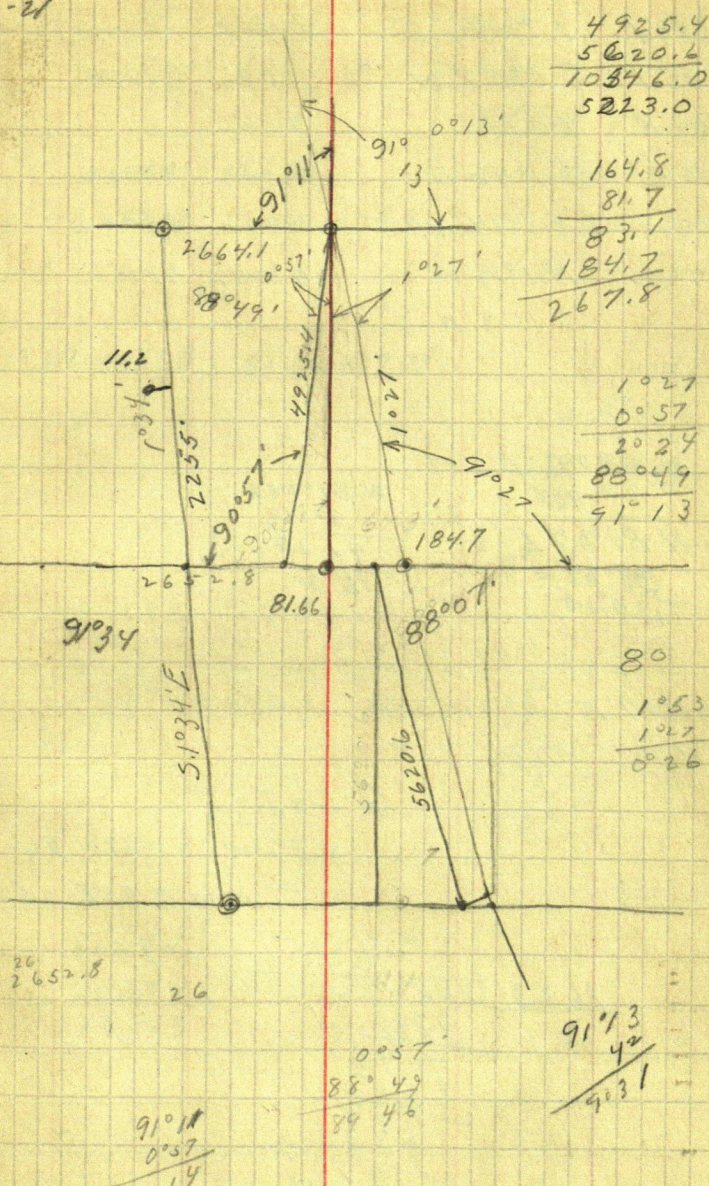
$$\begin{array}{r}
 4925.4 \\
 5620.6 \\
 \hline
 10546.0 \\
 10256 \\
 2900 \\
 2564 \\
 \hline
 3360 \\
 2564 \\
 \hline
 7960
 \end{array}
 \quad
 \begin{array}{r}
 1471.3 = 1^{\circ}23'
 \end{array}$$

$$\begin{array}{r}
 81.7 \\
 1189 \\
 \hline
 200.6
 \end{array}$$

$$\begin{array}{r}
 5620.6 \\
 2414 \\
 \hline
 224824 \\
 56206 \\
 224824 \\
 112412 \\
 \hline
 135681304 \\
 173.3 \\
 \hline
 377
 \end{array}$$

20-28

New B.Ts J.P. 9" 5.68°W, 93.6 III
J.P. 9" 5.83°E 22.2



		Sin	Cos
2664.1	N. 89° 46' E	00407	—
4925.4	S. 0° 57' W	99986	01658
164.8	East		
5620.6	S. 1° 46' E	03083	99952
2629.8	S. 88° 14' W	99952	03083
36.4	N. 1° 46' W	03083	99952
	S. 1° 04' W		

2664.1
 4925.4
 164.8
 5620.6
 2629.8
 36.4
 N. 89° 46' E
 42'
 N. 89° 04' E
 88° 29'
 179° 35'
 178° 33'
 1° 47'

4925.4
 164.8
 N. 89° 04' E
 2026
 9130
 88° 30'

S. 1° 27' E 21-22-15-16- = 5490

Hub. 471.6'

Q-D 3.

y. Pine 30 S. 62° W 26-17.16

w. Pine 30 S. 85° E. 252-166.3

64.56 = 0° 53'

163.3 10542.6
 9798
 7446
 6532
 9140
 8165
 9750
 9798

North South East West 0000.00 00000.00

10.84

2664.1

2664.1 + 10.84

4924.7

81.66 12582.44 - 4913.86

164.8

2747.24 - 4913.86

5617.9

173.28

2827.38 - 10531.76

81.08

2628.4

198.98 - 10612.84

36.4

1.1

197.88 10576.44

10576.44

197.88

10613.68 10623.68 3002.18 2909.04

4924.7

5617.9

10542.6

5271.3

4925.4

348.9

10531.76

10810.8

612.89

10612.84

36.4

576.44

531.76

81.08

612.84

5280

4913.9

1061366.1

2640

3006.1

156

156

171.6

252

151.2

151.2

166.3

2664.1

+ 10.84

2827.4

- 10531.76

163.3

10542.60

$$\begin{array}{r}
 4925.4 \\
 02530 \\
 \hline
 147762 \\
 246270 \\
 98508 \\
 \hline
 12461262 \\
 81.66 \\
 \hline
 206.27 \\
 142.20 \\
 \hline
 348.47
 \end{array}$$

$$\begin{array}{r}
 206.3 \\
 164.1 \\
 \hline
 42.2
 \end{array}$$

81.8

$$\begin{array}{r}
 81.7 \\
 142.20 \\
 82.4 \\
 \hline
 206.30
 \end{array}$$

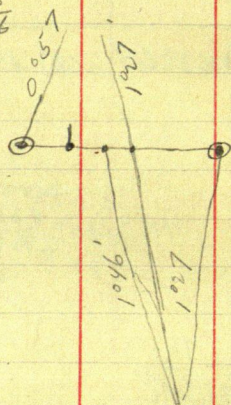
1468.8

$$\begin{array}{r}
 5620.6 \\
 253 \\
 \hline
 168618 \\
 281030 \\
 112412 \\
 \hline
 14220118 \checkmark \\
 268.1 \\
 81.66 \\
 \hline
 349.76
 \end{array}$$

$$\begin{array}{r}
 42.2 \\
 142.2 \\
 \hline
 184.4
 \end{array}$$

$$\begin{array}{r}
 268.12 \\
 81.7 \\
 \hline
 349.8
 \end{array}$$

$$\begin{array}{r}
 164.1 \\
 81.7 \\
 \hline
 82.4
 \end{array}$$



$$\begin{array}{r} 185 \\ 422 \\ \hline 142 \end{array}$$

$$\begin{array}{r} 2664.1 \\ 81.66 \\ \hline 2582.44 \\ 164.8 \\ \hline 2747.24 \\ 173.28 \\ \hline \end{array}$$

$$\begin{array}{r} 2920.52 \\ 2664.1 \\ \hline 2564.42 \\ 11.7 \\ \hline 268.12 \end{array}$$

$$\begin{array}{r} 268.12 \\ \hline 10542.6 \\ 80436 \\ \hline 249900 \\ 241308 \\ \hline 85920 \end{array}$$

$$= 1027'$$

1 07° 53'

93° 16'

14° 37'

25235

400

10094000

88° 16'

88° 14'

82° 42'

171° 02'

8° 58'

99211
25235

496055

198422

496055

198422

250507775

15586

94647

935167

1431000

40750

16072

1044

2 3.28

5.28

8.56

91° 44'

82° 48'

856

88° 16' - 3.53
82° 42' - 2.18
5028

2118

23298

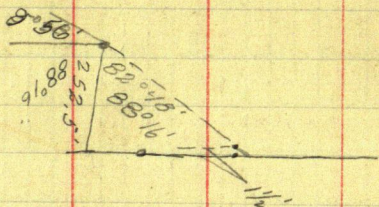
25

150

1650

252.98

1882.98



Sin 8° 58' Sin 82° 48' ∴ 252.5 : X

KEITH'S RAILROAD CURVE TABLES.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P.= $23^{\circ} 20'$ to the R. at Station
542+72.

Ext. in Tab. IV opposite $23^{\circ} 20' = 120.87$

$120.87 + 12 = 10.07$. Say a 10° Curve.

Tan. in Tab. IV opp. $23^{\circ} 20' = 1183.1$

$1183.1 + 10 = 118.31$.

Tab. V. correction for A. $23^{\circ} 20'$ for a 10° Cur.=0.16

$118.31 + 0.16 = 118.47 =$ corrected Tangent.

(If corrected Ext. is required find in same way)

Ang. $23^{\circ} 20' = 23.33^{\circ} + 10 = 2.3333 =$ L. C.

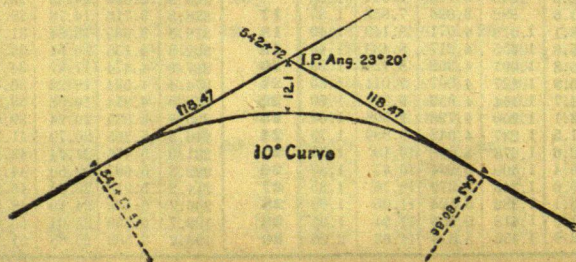
$2^{\circ} 19\frac{1}{2}' =$ def. for sta.	543	I. P.=sta.	542+72
$4^{\circ} 49\frac{1}{2}' =$ " " "	+50	Tan.=	1.18.47
$7^{\circ} 19\frac{1}{2}' =$ " " "	543	B. C.=sta.	541+53.53
$9^{\circ} 49\frac{1}{2}' =$ " " "	+50	L. C.=	2.33.33
$11^{\circ} 40' =$ " " "	543+	E. C.=sta.	543+86.86
	86.86		

$100 - 53.53 = 46.47 \times 3' (\text{def. for 1 ft. of } 10^{\circ} \text{ Cur.}) = 139.41' =$
 $2^{\circ} 19\frac{1}{2}' =$ def. for sta. 542.

Def. for 50 ft.= $2^{\circ} 30'$ for a 10° Curve.

Def. for 36.86 ft.= $1^{\circ} 50\frac{1}{2}'$ for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER Co., New York, N. Y.)



7 7°37' R End of 4th Lake.
 30°07' L to [V]

8 8°40' R O 4th to 5th

9 L. 15°25' 1127.3

10 L. 54°34' 23.6

$$\begin{array}{r} 13.8 \\ 12.8 \\ \hline 15.18 \end{array}$$

$$\begin{array}{r} 56.6 \\ 33.6 \\ \hline 33.96 \end{array}$$

$$\begin{array}{r} 64.6 \\ 38.4 \\ \hline 42.24 \end{array}$$

 540.3

80 ft 48 C
 50 L.V.
 54
 58

$$\begin{array}{r} 250 \\ 58.9 \\ \hline 308.9 \end{array}$$

$$\begin{array}{r} 305.3 \\ 62.6 \\ \hline 242.7 \end{array}$$

28.10 29 N.E.
 28.4 10 S.W.
 28.6 10 N.W.
 28.8 6 S.E.

1293
 1525