54. A

MINING

TRANSIT BOOK

363

John W. Curo
County Surveyor
Cass County
Walker, Minn

Oct 10-1916

Curo

INDEX

Platting of
Ed. Parks Tract

Pillager
Cass County
133-30

Friday, 20 October 1916

E.B. Horst and K.A. Novak arrived in Pillager at 12 A.M. Horst calls up Ed. Parks telling him about our arrival. at 2 P.M. Ed. Parks meets us in the hotel. We walk down the County Road to the Section Corner 16-17-20-21-133-30 and after a ¼ lk we find Iron Pipe set by Mr Curo and Ed. Parks 2-years ago. as the N.S. Gandy Road had been graded some time ago the top of the I. Pipe was about 9" below the grade. We then walked down to the M.C. N°41 on North bank of the Crow Wing River where we then find Iron Pipe about 2 feet above ground below bridge, and auger hole above pipe. We then walk along the River bank road platted by Curo 2-years ago. We walk as far as his Lot ⑥. the S.W. Corner of Gov't Lot N°2 to which Curo had set bearing trees.

I.P. 10 S 85°8' E 37.68 feet
I.P. 8 N 58° W 59.13 "

133-30

We find the S.E. B.T. but fail to find the N.W. B.T. We then go to Ed. Parks House, readjust cross-hairs which were badly out of adjustment and quit for the day.

133.30 Cass County.

Saturday, Oct. 21-1916

E.B. Hurst leaves us in the morning for his work Ed. Parks and A. Novak walk to Sect Corner of Sect 16-17-20-21-133-30. I set up transit. After Parks has hunt after an auger we bore hole into bridge above M.C. No 41 on North Side of Crow Wing River. I sight plumbed pole on said M.C. turn 91°22° to left and split flagpole behind pipe on 1/16 corner east of Section corner 16-17-20-21-133-30 on Section Line between 16 and 21. Since Parks Crew is to come after dinner we quit at 11 a.m. P.M. Set up transit on Sect. cor. sight flag on 1/16 cor. chain 33 feet to the east of Sect cor. 16-17-20-21-133-30 and drive spike in ground. Set transit on spike sight flag on 1/16 cor. E.B. Hurst not having been able to leave town appears on the field and with

133-30 continued

Ed Parks chains and sets spikes on 300-366-666. Continues chaining to 1/16 cor. At 1288.32 he is at center of 1 pipe 1288.32+33 equals 1321.32 which checks Cuvo's figure. Horst leaves us again. I turn 91°22' to right. Parks and E.N. Strong now chaining South at 33-333-399- set temporary stakes as Parks has no Iron pipes ready yet. At 593.45 we find Iron pin on N.W. Corner of Jake Gustafson's lot. As Parks and I had planned our townsite from an old plat in possession of Parks we figured a 300 foot block north of Gustafson's lot and therefore we first passed the iron pin, what caused Gustafson to come out and exclaim very emphatically that nobody will move that pin

133-30 continued

as long as he lives. I ask him for the deed and read: Commencing at Sect. Corner between Sections 16-17-20-21 going 2 Rods east then 4½ Rods South. I measure from my pin 599 and find it 94.45 which means 0.45 too far South. Set up an Iron Pin in the North West Corner of Gustafson's lot - right flag pole on block corner turn to Northeast corner of said lot and find 90°00' which means that we shall have a wedge in the two southern blocks. We chain along North line of Gustafson's lot to Northeast corner and find it 594 feet = 36 Rods which is correct.

133-30 continued

Sunday Oct 22-1916

Spent A.M. with figuring the lengths of the blocks and lots along the river.

P.M. E.N. Strong, Ed. Parks and I work. Set up on Spike 333 on road on Section line between Sect 16 and 21 east of Sect Cor. sight the 1/16 corner on the same line turn 91°22' to right and chain and set stakes and 33-333-399-699 — Set up on 399 and do the same as before. As Hendrickson's lot is 660 feet or 40 Rods west of 1/16 corner we chain 37.68 feet west from our 699 spike and set spike in road. I set up on this last spike, sight to 1/16 cor. turn 91°22' to right and chain south. at 33 at 333 set stake. We find Center of Street coming

133-30 continued
down from the school-
house and intersecting
Hazelwood in 90°00'. Said
Center is 766.62 feet east
of Section corner. We set
spikes into road 33 ft east and
west of this center. Set up
on west spike chain
South. at 33-333-399 and
699 set stakes. Quit for the
day.

133-30 continued

Monday Oct 23-1916.

We cut iron pipes and put them in the places of the already set stakes or block corners. Set up on Spike 33 feet east of Center spike of road and chain south. At 33 set stake at 330 nail in Corner post of Lockrem's fence. At 333-399 iron pipes. Continue South and cut thru brush. Set up on North east corner of Gustafsons lot sight North west corner of same lot turn 90° and cut line through brush.

133-30 continued

Tuesday Oct. 24-1916

Set up on North West Corner of Gustafson's lot. At 299.91 set pipe, at 365.91 ft. at 594 ft at 700.43 set iron pipes, set up on hub 700.43 east of North West Corner of Gustafson's lot and chain south. At 500 hub at 650 hub at 720 hub. Set up on 1/16 corner on Sect line between Sect. 16 and 21 right Sect Corner 16-17-20-21 - 133-30 Barnes holding the pole. turn 88°38' to left and chain south. At 330 hub At 1119.85 hub. This is Cure's station No6 of his survey of the Boulevard 5 years ago. We find the Blazing Trees

S.P. 10 S86°6'E 37.68 feet

We fail to find the N.W. B.T.

= 138-30 continued

Wednesday Oct 25-1916

A. Novak, Transit, Ed. Parks and E.N. Strong Chain, Ed. Barnes Flagman.

I set up instrument on Stat. 6 in Center of Loma boulevard on north bank of Coon Wing River, sight to corner on Section line between 16 & 21 and chain north 38.14 set hub. Sight same to corner turn 120°06' to left and chain south.

at 38.14 set 1" iron pipe
" 179.42 " 1" " "
" 255.71 " 1" " "
" 602.47 " 1" " "

Turn 120°06' to right, sight to corner and chain north.

at 38.14 set hub

Sight to corner, turn 120°06' to left and chain south.

at 38.14 set 1" iron pipe
" 179.42 " 1" " "
" 255.71 " 1" " "
" 602.47 " 1" " "

133.30 cont.

These last set 8 iron pipes constitute the 8 block corners of the 2 blocks along the river. On the 2 west block corners I have a very nice check of my work. After setting up on the southwestern corner I line in on the Northwest corner of the same block 161.82 feet to north. I split the nail in the cornerpost of Lockrem's fence set Monday Oct. 23. E.N. Strong and Barnes making stakes. I and Parks are setting them. The Northeastern block is 122.7 long and 140 feet deep in right angle to sides. The frontage toward river is 141.38. We subdivide this block into 5 lots by setting a stake in the South and North line every 28.25 ft. The Southwestern block is 300 ft long and 140 feet deep measured on right angles to the sides.

133-30 cont.

The frontage toward river is 346.76 feet. We subdivide this block into 12 lots by setting a stake on South and North side of block every 28.9 feet. These last lots are 25 wide and 140 feet deep measured in right to sides, therefore contain the same area as an oblong 25x140. While working on Lasa boulevard I had the Flagpole, the instrument and the chain in the road. Up comes old man Hiblup with a team and as the road is very soften and we did not hear him approach and he himself either being sleeping or having a grudge against surveyors drove straight into the pole breaking about 2 feet off the upper end. We could not save the pole being busy to save the tape

133-30 cont.

After a somewhat hot conversation on the side of my partners this lup occurd. Despite its injury the flag-pole continues to be of good service to us. And even the 2 foot stump did not finish his surveyor career as we made a good hub out of it.

Thursday, Oct. 26-1916

Ed Parks, E. N. Strong and A. Nowak work. Strong making stakes all day. I set up on Southeast corner of block platted the day before on North bank of Crow Wing River sight nail in corner — post turn 104°52' to left, chain south 68.28 and establish South-east corner of block on east side of street. set iron pipe. Continue chaining south. At 153.3 feet set lmk. Set up on last lmk. Backsight. Turn 171°-00 and intersect West line of block and set lmk. Parks and I decide to neglect the corner in the block caused by the corner in the boule-vard. So I sight north, turn to right to South-east corner of block and read angle 76°15'. The

distance of the two corners is 111.1 feet. We then set stakes on Eastline of block from South to North.

At 33.43 stake
Then 24 lots 25 feet wide
" 1 lot 44.35 " "

Westline of same block.
North to south
Starting at Northeast corner of Swstafson's lot.
At 44.35 set stake
Then 24 lots 25 feet wide
" 1 lot 58.43 " "

Continue setting stakes the rest of the day in the blocks facing River street and Hazel-road.

133-30 cont.

Friday Oct. 27. 1916.

Ed. Parks, E.N. Strong and A. Novak finish setting stakes.

Parks having been asked by Lockrem to establish his lines wants me to do the work. As Lockrem had bought 1 acre land off Ed Parks 24 rods = 396 feet west of 1/16 corner on Section line between sect 16 & 21 and this lot is 8 rods = 132 feet wide x 18 rods = 297 feet deep I set up on 1/16 corner, sight Section corner 16-17-20-21-133-30 and chain West. At 396 and 528 feet set spikes into road. Set up on east spike, sight 1/16 corner, turn 91°22' to right and chain south. At 33 feet set iron pipe - at 330' set iron pipe Set up on West spike, sight 1/16 corner, turn 91°22' to right

and chain south, at 33 feet and 330 feet set iron pipes. The corners are thus established. During the whole week I lived at Parker's. Left Pillager at 2[4] train for Walker.

		Al Nowak	H. Parks	E.M. Strong	Barnes
Friday 10.20.16	1/2	S.L.	—		
Saturd. 10.21.16	1	S.D. 1/2 S.L.	—	1/2	
Sunday 10.22.16	1	S.D. 1/2 S.L.	—	1	
Monday 10.23.16	1	S.D. S.L.	—	1	
Tuesday 10.24.16	1	S.D. S.L.	—	1	1/2
Wednes 10.25.16	1	S.D. S.L.	—	1	1
Thursd 10.26.16	1	S.D. S.L.	—	1	
Friday 10.27.16	1	S.D. 1/2	—	1	

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1-3-9.—29 Sect. 30

Fieldnotes of the survey of 3-pieces of road in township 139 Range 29 W 5th P.M. as directed and surveyed by John W. Civo County Surveyor Cass County Minn. and Alois Novak, surveyor.

November 4.—1916

Alois Novak leaves Walker at 9.40 A.M with Gurley transit in good adjustment and a 100' Chicago steel-tape and equipped with the fieldnotes concerning the survey. Arrive at Backus at about 10.40. Fare is .49 cts. Take auto delivery car and drive to Ivan Johnson's place town-clerk of twp 139, range 29 where I receive petition of roads that are to be surveyed. I drive to M Gaetens place, where I stay and board. Mr M. Gaeten is member of the town-board.

cont

Autofare is 2.25 ¢ Dinner at Garten's. Garten cannot hunt up a crew but will have one tomorrow--morning. I am preparing my notes. Road Petition reads: lay out, survey and open up a four (4) rods road as follows: Beginning at the Southeast (SE) corner of the Northeast (NE) quarter section 30 twp 139 range 29 thence running West on quarter line until it strikes Lake Hattie thence in a westerly by north direction following the lake as close as practical until it strikes the quarter line thence west on quarter line until it strikes Lake Hattie, thence in a westerly by north direction following the lake as close as practical until it strikes the quarter line thence west on quarter line to the

139-29 cont.

Southwest corner of the North west quarter, section 30 Twp 139 Rg. 29 and there terminate.

Mr Garten owns the South west quarter of Section 18 and the Southwest corner of Section 18 is only 20 Rods west of Mr Garten's house. It is an 1½ Iron Pipe with Cap Not having a compass with me I determine South by a cut-out in wood and pace South. At 11 Paces = 33 ft leave road enter cornfield at 211 Paces leave cornfield enter Jack-Pine wood. At 440 I look for Iron Pipe that is ¼ corner of West line of 19. Fail to find it. Continue pacing South. At 1100 leave Wood enter hardwood brush. At 2300 paces enter open bog. At 2640 paces equals 7920 ft I am on Westside of "Lost Lake". I look for

Iron Pipe set by Cuvo set as ¼ cor. on Westside of 30. Fail to find it. Walk east to look over the ground where proposed road is to go as I cannot be very much off the East-West ¼ line of Section 30-139-29. I strike Lake Haddie about 700 ft south of the northernmost point. I meet Mr. Albert Hall who tells me about Mr. Upton and Young who live on Grit lot 7 Sect 30-139-29 who are very interested in the petitioned for road and promised to help during the survey. I sent word to them to be up at Sarten's as early as possible tomorrow morning. Quit for night. Supper and lodging at Sarten's.

arrowak

139-29 cont.

Sunday, Nov. 5-1916

Breakfast at Sarten's. B of Mountains who is to helps me comes early. We wait till 9 o'clock for Upton and Young. As they fail to come I decide to establish the ¼ corner on the ~~West~~ East side of 30 and walk ~~west~~ east to-wards ~~West~~ East corner 18 and 19. Halfway we meet Upton with a team. He picks us up and drives us to ~~West~~ East corner 18 and 19 Twp 139-29. We chain south 2641.30 Ft. and set 2½" hub with tack. I find Cuno's bearing trees but as Haven't his notes with me I cannot check their courses, the Gov't notes call for

B.P. 4 N 56 W 20

B.P. 4.5 52½ E 17

but as the road was cut 33 ft on each side of this

corner the B. Fs were cut and I fail to find any intimation of them. Drive to Upton. Dinner at Upton's. P.M. Upton, Young, Mountains and I walk ~~East~~ West to Lost Lake where the ¼ ≡W cor of Sect. 30-139-29 is. Young and Mountains stay at the lake, make stakes and look for the corner while Upton and I walk North to get instrument and Mr. Garten to show us the corner. Must wait for Garten who has not had dinner yet. I meet there Mr Johnson the town-clerk who came to tell me that the board changed the Petition so as to have the road on the ~~West~~ East end running along the shore of Lake Haddy instead of on the ¼ line. The petition should read. ——— until at

strikes Lake Skattie, thence in a ~~westerly~~ easterly by ~~south~~ south direction following the lake as close as practical to a point 304 ft south of ~~east~~ west 1/4 cor. of Sect 30-139-29

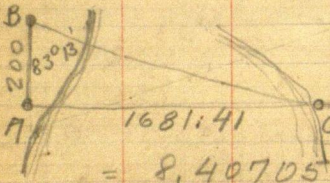
Upton, Garten, Kay Cirebride and I walk south to 1/4 cor. ~~east~~ west of Sect 30-139-29. Garten after searching quite a while finds it. It is a 2" Iron Pipe set in a 2 ft mound of dirt. Garten walks back. I run ~~west~~ east on 8°45' Var. O, Nowak, transitman, Upton and Nowak chainmen, Jimmy and Bob Axemen and Kay Cirebride flagman. at 200 lnk on steep hill, at 500. lnk, at 1100 lnk, at 1320 lnk. Quit for night as it is rapidly getting dark and we have 3 miles to walk to

Garten. Supper and
Lodging at Garten's

139-29 cont.

Monday, Nov. 6-1916

Breakfast at Sarten's. Kay, Bot and I drive with Tom Lee to Upton's. We walk to link 1320. Novak, transit, Upton and Novak, chain, Young and Bot axemen, Kay flagman We chain up a high hill at 1580 set link "A". at 1715 enter lake. I triangulate lake. I sight back on link 1320 turn 90° to right and set link "B" 200 ft north. Set link "C" across lake. Set up on link "B" sight back on "A" and turn 83° 13' to link "C"



link "A" to "B" is
200 tan 83° 13' =

$$= \frac{8.40705}{1681.410} \cdot 200$$

Hub "C" is 3261.41. Continue ~~West~~ East, at 3320 hub at 3420 enter open hvg. at 3860 leave hvg. At 3960 hub. At 4220 hub.

Dinner at Upton's.

P.M. Continue ~~West~~ East along Northbank of Lake. at 4720 hub. We have to run through very thick underbrush. At 5220 hub. At 5663 the ¼ ~~west~~ East corner of Section 30 sets South 79.85. To correct our line we shall have to set south 0.0141 per rod. Bob and I reckon ½ mile Find it 2" short and when I afterward heard that Upton had made a remark as of setting a tack into a hub Half an inch off line being good enough, I'll change the men. Quit for night Supper and Lodging at Gardenville

139-29

Tuesday Nov. 7- 1916
Election day.

Bot, Kay and I drive with Tom Lee in Auto to Upton and Jump. Novak transit Novak and Bot Mountain chain, Upton and Jump axe-men, Kay flagman. I correct the line. Hub-5663 goes south 79.85, hub-5220 goes south 73.60 Ft, hub-4720 goes south 66.55 Ft, hub-4220 goes south 59.50 Ft, hub-3960 goes south 55.84 Ft, hub-3320 goes south 46.71 Ft, hub-1580 goes south 22.28 Ft, hub-1320 goes south 18.61 Ft, hub-1100 goes south 15.51 Ft, hub-500 goes south 7.05 Ft, hub-200 goes south 2.82 Ft. Rest of P.M. we set roadcenters on corrected ¼ line from ¼ cor on westside of sect. 30-139-29 as far as hub-1580 on westshore of Lake Hattie.

Dinner at Upton's, Bob Mountain goes to Backus to the election. Kay stays in the field making limbs. Upton, Young and I drive with Albert Hall in Auto to the schoolhouse where the farmers vote while I talk with Mr. Johnson about a man to help me as Upton Young and Bob won't be able to work Thursday. Albert Hall drives us back. Beginning at limb 1580 on west side of Lake Flathie. Limb 1580 is station 1. I run a line N 43°1' E Var 17°30' down the thickly wooded hillside. at 316 Ft set limb being station 2. Thence N 24°28' E 300 Ft down thick brush to station No 3 Quit for night. Kay has supper and lodging with Sartens. I have supper with Upton and lodging with Young.

Aldrich

139-29 cont-

Wednesday, Nov-8-1916.

Nowak Transit, Nowak and Upton chain, Kay and Frank Gillett axemen. Beginning at station No 3 D run N 37°47'E Var. 7°30 300 ft to Station No 4, Thence N 26°55'E 105 Ft to Station No 5 on top of old Beaverdam, Thence N 72°13'E 180 Ft to station No 6. Thence N 82°20'E 355 Ft. to Station No 7. Thence S 71°09'E 226 Ft. to Station No 8 Thence S 46°43'E 217 Ft to station No 9 Thence S 53°25'E 325 Ft to Station No 10 Thence S 0°25'W 522.20 Ft to Station No 11 being link 3320 on our true ¼ line E and W in Section 30-139-29. Dinner at Upton P.M. Beginning at link 3320 we set roadcenters as far as link 4220 on true E and W ¼ line in Sect. 30-139-29. From link 4220

being station No 129 run N85°16'E Var. 7°30' 580 Ft to station No 13 on Northside of Lake Hattie Thence N87°35'E 312 Ft to station No 13 on high bank north of Lake. Thence S56°8'E 678 Ft to a point 304.00 Ft South of 1/4 cor. on Eastside of Section 30 — 139 — 29. This finishes the Survey of the Road described in the Road Petition.

I and Kay have supper and Loafing with Gaunt's

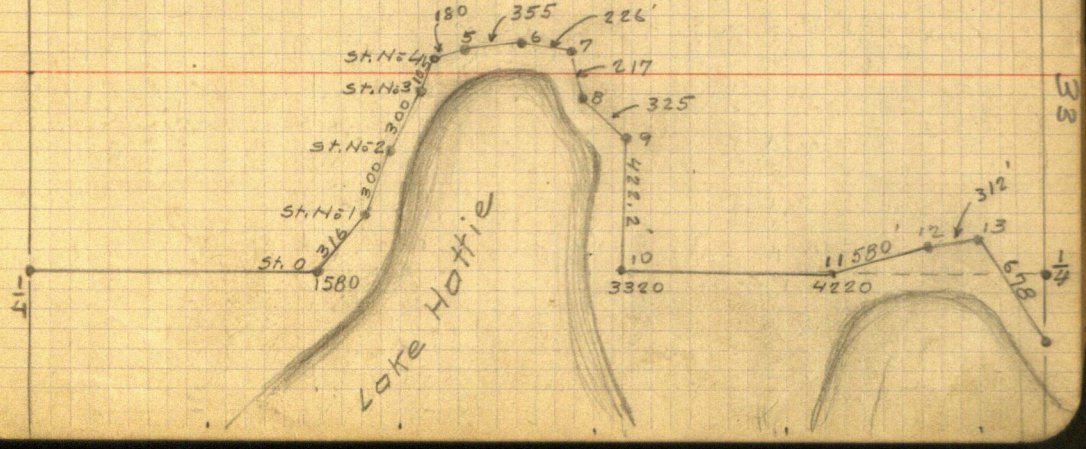
Allen K

	Nov. 4.				Nov. 5.				Nov. 6.				Nov. 7				Nov. 8.			
	Work	Breakf. Lodg.	Dinner	Supper	Work	B. & Lodg.	Dinner	Supper	Work	B. & Lodg.	Dinn.	Supp.	Work	B. & Lodg.	Dinn.	Supp.	Work	B. & Lodg.	Dinn	Supp.
Novak	1	Holt	Gaston	Gaston	1	Gaston	Upton	Gaston	1	Gaston	Upton	Upton	1	Gaston	Upton	Upton	1	Upton	Upton	Gaston
Upton					1/2	-	Upton	-	1	-	Upton	-	1 1/3	-	Upton	Upton	1	-	Upton	
Young					1/2	-	-	-	1	-	Upton	-	3/4	-	Upton	Upton	-	-	-	
Mountain					1	-	Upton	Gaston	1	-	Upton	-	1/2	-	Upton	-	-	-	-	
Circbride					1/2	-	-	Gaston	1	Gaston	Upton	Gaston	1	Gaston	Upton	Gaston	1	Gaston	Upton	
Silliaty																	1		Upton	Gaston

Time-Sheet for the Survey of 1-Mile Road on E.W. 1/4 Line - Sect. 30-139-29.

Section 30
Twp 139 Rge 29

Plat 372



139-29-cont.

Fieldnotes of the Survey of the 2 rod road between Sections 28 and 33 east of Section Cor. 28-29-32-33 as surveyed under the direction of John. W. Cuvo County Surveyer, Cass Co. by Elvis Novak, surveyer.

Thursday, Nov. 9-1916. Breakfast at Gartens. Novak and Ray Cridbride walk to M.C. No 30 on East side of Lake Hattie on Sect. Line betw. Sect. 29-32 139-29 where we meet Frank Gillity. We walk to Sect. Cor. 28-29-32-33, a 1½ inch capped galv. iron pipe. The Road Petition reads as follows: Lay out and open up a public cartway 2 rods wide as follows: Beginning at the Pantoria Pine River Road where the

section line E and W. betw. Sections 29 and 32 intersects said road, thence running east on sect. line between sect. 29 and 32 and 28 and 33 to a point 13 rods from Meander stake of Lake Ada and there terminate.

I set up transit on Sect Cor. 28-29-32-33 and run East on 8°20' Var. at 200 link on top of hill then level to lake. at 600 link. I offset the random line on account of fence. At 1539.25 set link on bank of Lake Ada. The Gr'nt calls for 2388 lks = 1576.08 ft as distance from Sect. Cor. 28-29-32-33 - 139-29 to M. C. No 2 on West side of Lake Ada. I look for M. C. No 2 where Gr'nt calls for

N. P. 20 N 30 W 129
N. P. 15 S 11 W 243

I find several stumps all of

them badly burnt. A large N.P. Stump in Front of Lorenz's Cottage shows dim Marks. I don't want to set the M.C. without evidence whether said stump is the B.T. and as there is nobody present in the neighborhood who could testify I shall ask Mr. Hahn after his return from work at 6 o'clock. Mr Hahn is said to Know where the M.C. is. We take dinner outside having taken our lunch along. I set a high flag on Sect. Cor. 28-29-32-33-139-29, take instrument to Eastside of Lake Hattie on high bank near M.C. No 30 and work my instrument in line and set a high flag in line. We walk to Mr. Hahn's farm east of Section Cor. 28-29-32-33. Mr Hahn tells me that the

stump in Front of Lummis's house is the Old Bearing tree and that he surely saw the Marks on it before it burned down and was chopped afterward. I leave instrument with Mr. Hahn. Supper and lodging with Garten.

Friday, Nov. 10-1916.

Breakfast with Garten. Kay Circbride and I walk to Westside of Lake Ada meet Frank Gillety. Novak transit Novak and Gillety chain. Kay axeman. I set the M.C. by measurement and course. Then I set up on found corner Iron my instrument S 11°W and find another stump with very dim marks but as course and measurement check with Gov't notes I don't doubt that the last stump is the other B.T. I then set the M.C. No 2 by flat measurement and drive a 2½ x 36" oak stake into ground 1½ ft away from the water. The old B.T.'s stand as follows:

N.P. Stump N 28° 14' W 85.14 ft
N.P. Stump S 9° 11' W 160.32 ft

I mark two new Bearing trees as follows:

N.P. 15 S 51°25' W 21.18 ft.
N.P. 12 N 23°24' W 46.62 ft.
From Unit 1539.25 M.C. No 2 sets S 33°3' E 33.45 ft. I correct my random line. Unit 600 gives S 33°3' E 13.04 ft. I then set up an corrected Unit 600 right back on Sect. Cor. 28-29-32-33-139-29 and set Road Centres with 3"x36" Oak Stakes. Stake 1361.58 marks termination of road on the West End. I then set up transit on 74 ft west of Section Corner 28-29-32-33 139-29 and work my instrument into line between flap on Section Corner 28-29-32-33 139-29 and on M.C. No 30 on Westside of Lake Hattie. Then I set Road Centres with 3x36 Oak stakes. Then I run a line East on 7°45' Var. At 1500 cross Centre of Pine River Pantoria Road. At 1600 Unit

139-29 cont.

at 2460 link. We chain in the Centre of 2 rod road. at 3960 link. at 4190 link. as the boys are hungry it being 2 o'clock P.M. I post-pone correcting of this line. We walk to Mr Olson who owns a farm in the Southwest quarter of Section 32-139-29. Dinner at Olson's. After dinner Olson and we walk to Section Corner 31-32 on the South-side of Twp 139 Rg 29. Monk transit, Novak and Sillety chain Olson and Kay axemen. Section Corner 31-32 on the South side of 139-29 is a 2" galvanized iron pipe with cap. On the side of it stands a 3x3 Oak Post marked on the 4 sides 31-32-5-6, I start a random line on 7°45' Var. at 300 link. At

900 link. At 1320 link.
Quit for night. Kay goes
to Santens. I have supper
and lodging with Olsen's.

139-29 cont.

Saturday, Nov. 11-1916

Breakfast with Olsons. I am surveying now a road running from Center of Southeast quarter of Section 32 south to West 1/16 Corner on Southside of Section 32.

Kay coming from Sartens brings mail from Mr. Cuno along, with all kinds of good dope in it.

To establish the true 1/16 Corner West on the Southside of 32 I am running a random line on 7°45' Var. from Southeastcorner of Sect 32-139-29 east. at 2640 set link. at 3960 set link at 5311.7 set spike in Center of Pine-River-Longville Road. We look for the 3 cornered rock. I walk to Mr. West-phals farm where I

borrow a pique and shovel. Mr. Westphal comes out with me. There is an old stump in the road cut pretty near level with the ground. The Gov't notes call for:

B.P. 9 N 54° E 17.82 ft
B.P. 7 N 62° W 12.54 ft
B.P. 5 S 60° W 15.84 ft
B.P. 6 S 47° E 5.28 "

As aforesaid stump sets East of road it can be only the N.E or S.E. B.T. There are no other stumps around. First I assumed the Stump as being N.E of the corner and had my men digging a hole about S 54° W 17.82 ft from the stump, without result. The digging is very hard as the ground is frozen and hard as rock. Then taking the Stump as

139-29

being S.E. of the corner
O start digging a hole
N 47° W 5.28 ft away from
stump and strike the
3 cornered rock set as Sect.
Cor. 32-33 on Southside of
139-29 by A.W. Munster
in 1910. At 5313.2 E the
Section Corner 32-33 sets
south 33.68 ft. Dinner at
Olson's. P.M. Munk transit
Novak and Gillety, chain
Olson and Tray Axemen.
I connect the corners on
Southside of Sect. 32.
1/16 W sets E 24.9 and South
25.27 ft. 1/4 corner sets
E 16.6 ft and South 16.85 ft
1/16 Corner E sets East 8.3 ft
and South 8.42 ft. I set a
3 x 24 Oak stake as true
1/16 E Corner on Southside
of 32. I set up on this last
found Corner and run
a random line North on

7°45' Var. At 10.7 ft North sets a 3" stake set by some one. Enter swamp. at 400 leave swamp enter hardwood brush. At 1300 cross stake fence enter cornfield At 1320 ft North set link. Quit for night. Tray goes to Garten's. I stay with Olson.

139-29 cont.

Sunday, Nov. 12-1916

Breakfast with Olson's Novak transit, Novak and Gillett chain, Kay and Olson axemen. We continue our random-line North. At 1420 leave cornfield enter hard-woodbrush. At 1700 open meadow 1952 cross wire-fence enter brush at 2319 enter wet meadow cross log bridge 2440 enter pine timber at 2460 North set hub. At 2990 tack in log; at 3180 open meadow at 3295 enter plowed field at 3696 enter thick under-brush.

Dinner at Olson's

P.M. As the brushing goes very slowly I help as axeman two. At 3960 N hub at 5000 hub. The line goes through very

thick brush. at 5280 N we are in Center of Road. Quit for night. Kay and I have supper and lodging with Olson's.

139-29 cont.

Monday, Nov. 13. - 1916

Kay and I have breakfast with Olson's, Nowak and Sidlety chainmen, Kay axe-man. From Mnb 4190 West of Section Cor. 28-29-32-33-139--29 to M.C. No 30 I chain 72.85 ft. Civo's notes call for 4261.50. that is 1.35 ft less. I re-chain the whole line. At 2683.39 W of Sect. Cor. 28-29-32-33-139-29 set spike in road. At 4024.98 ft W. spike. M.C. No 30 is 4262.80 ft proofing that my chaining was correct. I then divide the overplus of 1.35 ft proportionally and correct Mnb 4024.98 ft W. by setting it 1.27 ft West being 4026.25 ft West of Sect. Cor. 28-29-32-33-139-29. This is the true West 1/16 Cor. on North-side of Section 32-139-29. I place a 2 x 24 Mnb and take bearing trees as follows

40.8' East of 1.M and 5' N
J.P. 10 N 60° W 24.85 ft } to tacks
J.P. 7 S 10° W 30 ft } in blazes
Courses are approximately as I have no compass with me. Distances were measured with tape.
From limb 5280 ft North of true 1/16 West Corner on South-side of Sect. 32-139-29 the true 1/16 W. Corner on the North side of Sect 32-139-29 sets East 9.24 ft. Correcting back:
limb 3960 grcs East 6.93 ft;
limb 2640 " " 4.62 "
limb 1320 " " 2.31 "
As corrected limbs I set heavy 3" x 36" Oak stakes with wings pointing north and marked true 1/16 line. I then set Road Centres between true 1/16 Corner W on Southside of Section 32-139-29 and limb 1320 North of 1/16 Corner.
Having obtained a 1" x 24" iron pin of Mr. Olson I set same

at the true 1/16 corner on the southside of 32. This finishes the entire survey for Pinto Lake Twp. Mr. Westphal drives me in his Ford to Mr. Garten where I deliver the time-sheet and thence to Backus. Auto fare #2.—. Railroad fare — 49cs. Arrive in Walker at 5 P.M.

Allowed

52. Nov. 1921 Rec. 285 Rec. 372
139-29 Book 99 Sec. 30 Book 547
534
Survey for Hogan.
South Section Line.
Set up on Jack Curve Random
Line .05 North of fork in
birch stump. Set substantial
oak hub. Sta. 7481.75 Lined
by sighting to Sta. 9575.5, a
point 16.2 North of M.C. #32.
Traverse north from
Sta. 7409.75 & 90°08 L. from Back Az.

Moved to Sta. 9575.5 16.2 North
of M.C. #32 and continued
Curve Random line west
back sighting to Sta. 7481.6
Sta 9693.5 Tack in 4" Nav. St.
Sta 10919.3 Random #6 39.7 North
of Sec. Cor.
S.W. B.T. still plain
other trees down and
marks obliterated.
Drove 2" x 36" Boiler Flue
and marked New B.T.'s as
follows. Mag.
Birch 4 S. 45 W. 18'
" 4 N. 70° E. 15'
Jack Pine S. 70° E. 11.7'

Greene - Transit
Martin - Rte
Milnor - Exe

534

7481.75
7225
7409.25

10919.3
7409.25
3510.0

118
1225.8
1343.8

10919.3
9575.5
1343.8

39.7
16.8
23.3

23.6 : 1343.8 ::
X 57.183 = ∡ Corr^n
23.6 | 1343.8
1178
1688
1652
360
354
60
59
1

10919.3
2287.3
8632.0
7409.25
1222.75
214

57183 | 1222.75
114366
79090
57183
21907

01746 | 3510.05
3722
3090
6320
5898
4220
3534
686
590
96

1222.75
2287.3
3510.05

57.183
614
228732
57183
3430998
3510.05362

John W. Greene

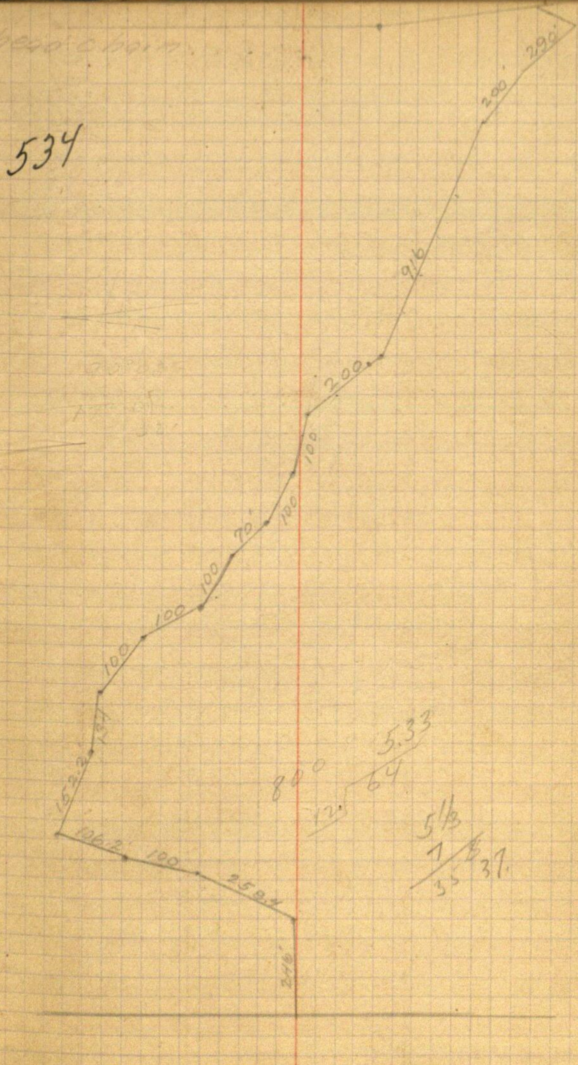
J. M. Greene - Transit, and
George Martin - Rear chain

Continued traverse North

from	5-1	7409.25	N. 82° E.	Mag.	
0°00'	72.6	N. 82° E.		N. 8° W.	
90°27'	72.5				
90°08' L	246	N. 8°08' W		N. 8°07' W	N. 7° W.
43°44'	258.8				
43°46' L	258.4	N. 51°54' W.		N. 51°54' W	N. 50° W.
38°13'	100				
28°14' L	100	N. 80°08' W		N. 80°07' W	N. 80° W.
17°46'	105.55				
19°47' R	106.2	N. 62° 21' W.		N. 62°21' W.	N. 60° W.
2°03'	152.2				
76°03' R	152.2	N. 13°42' E.		N. 13°42' E.	N. 15° E.
9°50'	139.9				
10°56' L	134	N. 3°42' E		N. 3°43' E	N. 5° E.
98°28'					
38°27' R	100	N. 42°09' E.		N. 42°11' E	N. 41° E.
22°47'	180.1				
22°46' R	100	N. 64°55' E		N. 64°58' E.	N. 65° E.
2°00'					
26°01' L	100	N. 38°54' E		N. 38°58' E.	N. 39° E.
14°01'					
14°20' R	70	N. 53° 14' E		N. 53°19' E	N. 53° E.
30°07'	100.1				
30°26' L	100	N. 22° 48' E		N. 22°52' E	N. 23° E.
30°33'	100.1				
30°52' L	100	N. 8° 04' W.		N. 8°01' W	N. 5° W.
38°24'	199.9				
38°26' R	200	N. 30° 18' E.		N. 30°23' E	N. 32° E.
17°34'	915.0				
17°33' L	916	N. 12° 45' E		N. 12°47' E	N. 15° E.
17°49'	699.95				
12°36' R	200	N. 25° 21' E.		N. 25°26' E	N. 28° E.
12°52'	290.1				
10°30' R	290	N. 38° 11' E		N. 38°18' E	N. 41° E.
63°07'	82.1				
63°08' L	82.15	N. 24° 57' W		N. 24°49' W	
79°21'	432.6	5° 14' L.		S. 81°40' W - from W. Cor.	
73°37' L	175.6	9° 3' 29"		S. 81°31' W	

Figures above are the re-checked angles and distances.

534



John M. Greaver

Beginning at hub - 3320 on
god sighting to Hub on true
Hattie; we proRag line East
1/4 Dna.

East

N. 85°16' E.	Var. 7°30	580'	Hub
N. 87°35' E.		312'	"
S. 56°08' E.		678'	"
North ?		304	"

true E. & W. line
line on West side of Lake
to Sta. 4220 on true E. & W.

534

10919.3
7409.25
3510.05
.01745
17550.25
14040.20
2457035
351005
61.25537725
39.7
21.5

7409.7

10919.3
9575.5
23.5 | 1343.8 | 57 = Cot 1°
1175
1688

39.7
16.2
23.15

1232
01745 | 21.5000
1745
4050
3490
5600
5235
3650

Sta 0 = 7409.2 on Cyro's Random Line on South side of Sec. 30 139-29 Pointe Lake Twp. Bearing N.82° True Line makes an angle of 1°00' to the North Bearing N.81°E and is 21.4' North of Sta. 7409.2 Sta. 0 to Sta. 1 is 2462' so 1" be a Figure that Sta. 0 is moved north from Sta 0 on T. Line.

ar. ag N. 2°07'W & with R. Line 90°07' L,
th 214, making distance 224.8'

534

		Log d's		
72.55	N. 81° 00' E	1.860637		
224.8	N. 8° 07' W	2.351796	9.995628	9.142802
258.3	N. 51° 54' W	2.412124	9.790310	9.885939
100	N 80° 07' W		.17164	.99516
105.9	N. 62° 21' W	2.024896	9.666583	9.947335
152.2	N 13° 42' E	2.182415	9.987465	9.374452
133.9	N 3° 43' E	2.126781	9.999086	9.811726
100	N 42° 11' E.		1.74100	.67151
100.1	N 64° 58' E	2.000434	9.626496	9.937154
100.	N 38° 58' E		.77751	.62897
70.	N 53° 19' E	1.845093	9.776259	9.904147
100.1	N 22° 57' E	2.000434	9.964454	9.587467
100.1	N 8° 01' W	2.000434	9.995735	9.744451
190.5				
199.	N 30° 23' E	2.300613	9.933584	9.903344
915.0	N 12° 47' E	2.961421	9.989100	9.944941
199.9	N 25° 26' E	2.300813	9.955723	9.633363
290.1	N 38° 18' E	2.462548	9.891776	9.792287
82.1	N 24° 49' W.	1.914345	9.957991	9.662956
175.6	S 81° 40' W.	2.244553		

Chained 6.6 instead of 9.4 ✓ 50 line sbh

1/4 Line bears N. 81° 40' E 81° 20'

1/16 Line " N. 81° 20' E. N. 30° 2 " E

Sec. Line " N. 81° 00 E 50° 57'

July 29/1924 Hogan Martin Greer
compass line between 1/4 Line and
D/s 130.5 ft Fence

N	S	E	W	X	Y
19.87				0.00	0.00
222.5			31.7	222.5	- 31.7
159.4	139.85		203.3	381.9	- 235.0
17.2	60.4		98.5	399.1	- 333.5
49.1	200.25		93.8	448.2	- 427.3
147.9	24.96	36.0		596.1	- 391.3
133.6	225.21	8.7		729.7	- 382.6
74.1	54.17	67.2		803.8	- 315.4
42.4	279.38	90.7		846.2	- 224.7
77.8	3.54	62.9		924.0	- 161.8
41.8	314.78	56.1		965.8	- 105.7
92.2		38.9		1058.0	- 66.8
99.1			13.9	1157.1	- 80.7
164.3		96.3		1321.4	15.6
172.4		101.1		1329.5	+ 20.7
892.4		202.4		2221.9	+ 222.8
180.5		85.8		2402.4	+ 308.6
227.7		179.8		2630.1	+ 488.4
74.5			34.5	2704.6	+ 453.9
					423.1
2704.6		929.6	475.7		30.8
		475.9			
		453.9			

Old bc 2.5' South of stake out line. 15.6
1321.3

2x4x20" Hub N. 8°20' E 93.83'
S 81° 20' W 60.4'
200.25 408.61'
225.21
279.38
314.78'

Tack in log p. 1a
Tack in stp.
Peg 2x4x20 Oak Hub
5 1/2" S. of line.

John M. Greene

Sec. 34 - 14-28 John M. Grea

Computations

∠ between N. & S. & E & W 1/4 Lines.

Center established and generally recognized.

337.6 - 200 = 137.6

137.6 = side opp. Depot Square

300' = " adj

300 ÷ 137.6 = 2.180233 = 24°38'30"

674.3 - 543.0 = 131.3 Blk 5

300 ÷ 131.3 = 2.28408 = 23°38'40"

506 - 373 = 133 Blk 4

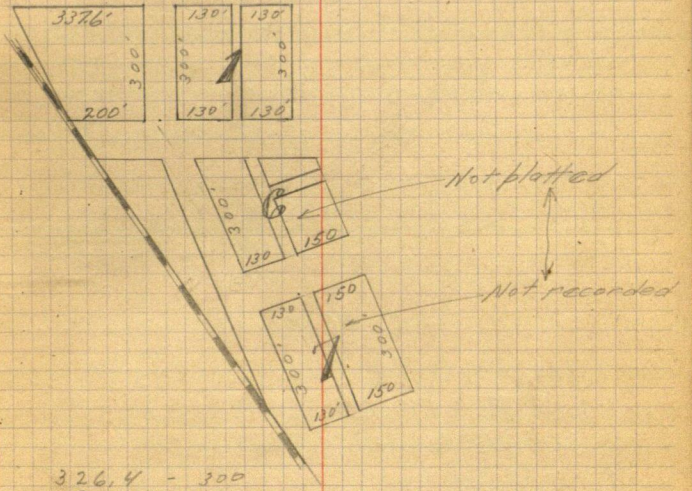
300 ÷ 133 = 2.25564 = 23°54'30"

Average ∠ = 24°04'

1060 ÷ 1154.3 = .91831 = cos 23°19'

Av. ∠ = 23°41'

nc - Eng. Langville



326.4	-	300
87.0	-	80
142.3		130
21.9		20
163.2	-	150
87.0		80
152.3	-	140
21.9	-	20
152.3	-	140
1154.3		1060

E. & W. 1/4 Line intersects
S.H. semi-tan S.E. ∠ = 72°19' 72°20'
33+38.2 - 19+54
Hub on semi-tan 1334+10.6
∠ to 1/4 Line = 72°18'
∠ to Hub by school House = 20°11'R
303.6' 20°12'R
∠ Hub at S.H = 26°12'R
∠ to N.W. Cor S.H 32°35'L Dis = 56.3'
Sta 0+76' - R+1.4 s = 2.5'
52' back 30' wide Probably 40'
∠ 49°06'L to State at N.E. Cor.
840.7' to post Hole
858.0 to Hub.

Recapitulation
Cen. Sec 34 to 1/16 Cor. East
106.6' to intersection with
semi-tan of State Road ∠ 72°18'R.
Turned ∠ to Hub by School = 20°11'R
303.6' to Hub.
∠ 26°12'R
840.7 to post cor of cem. (N.W. Cor)
858.0 to Hub ∠ 49°09'L to State
at N.E. Cor. 100-13.8 from
N.E. Cor. to fence 215.7' = Tot. Dis.

1334+10.6 on Curve

106.6' to Cor. ∡ 72°18'

23°07
6°C.R

P.I 1335+33.7
P.C 33+38.3
P.T. 37+23.6

Sem 195.4
Curve 385.3

17°08'
3°C.R
1328+98.1 P.I
27+25.4 P.C
30+68.1 P.T
Tan = 172.7
L° = 342.7

44°16'
20°C.L
P.I = 1321+34.1
P.C = 20+17.2
P.T = 22+38.2
T = 116.7
L° = 221.3

24+97 = C Br
L = 20'

S 17°40' E

1335+33.7
1334+10.6
1231

1334+10.6
1333+38.3
723

1335+33.7
1333+38.3
195.4

1337+23.6
1335+33.7
1+89.9

Hub sets 11.9' East of West fence
Set another Hub 11.9' East
of west fence & 44°10' L

Ext ∠ = 86°40' 44°10'
Dis = 132.4 49°09'
93°19'

to outside of North post 14.5'
∠ 70°29' L 100' along top
12' from ∠ 43°39' R 100'
∠ 2°38' or 39' L 100'
+30' bank juts out about 10'
15' from ∠ 22°39' L 68°43' R to 180°-
10' from ∠ 9°20' L 50' back 18'
26° from B.S L to 180°.
+ 31.4 ∠ 52°23' R from B.S. N.W to
N.E. Cor.
F 47 to Shore.
374.3'
L 3°10' 61.4' to S.E. Cor, thence
L 124°44' N. 9°W. 451.0' about 12's to Line

and 71.3 down bank to stake of River Bank. 59.65 to Hub along bank.

#2 is 180°

very steep

Sighting back to #2

& L 23°30'

Sight back to #2 and transiting & 17°22' R to 180°

55°30' L to 180°

+5.0 to water

132.4

145

7.3

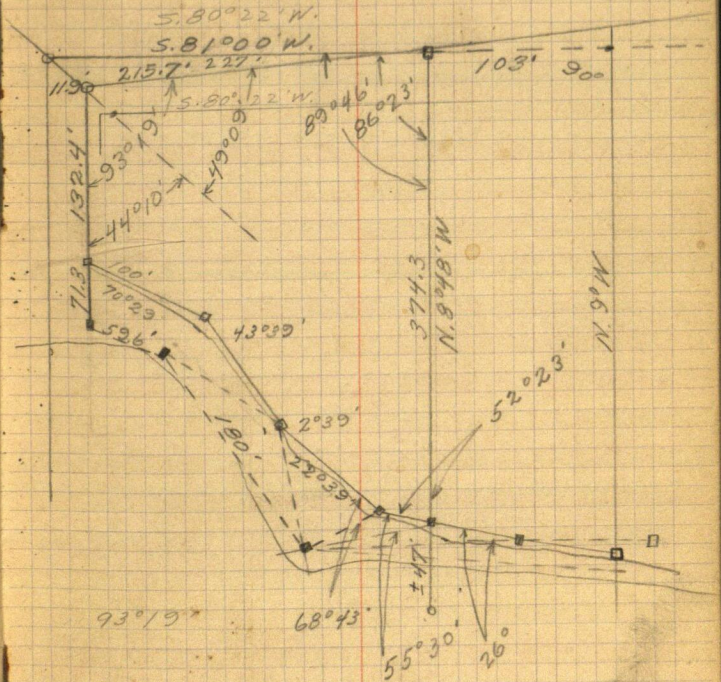
216.3

16.3

S. 81°00' W
3°23
S. 77°37' W.
86°40' L
S. 9°03' E
70°29' L
S. 79°32' E
43°39' R
S. 35°53' E
2°39' R
S 38°32' E
22°39' L
S. 61°11' E
52°23' R
N. 8°48' W.
93°37'
102.25
S. 77°35' W

S. 61°11' E
9°20' L
S 70°31' E

S. 77°37' W
49°09'
126°46'
N 53°14' W
26°12'
N 79°26' W
20°12'
99°38'
S. 80°22 W


S. 80° 22' W.
S. 81° 00' W.
215.7'
227'
S. 80° 22' W.
11.9'
103'
90°
89° 46'
86° 23'
93° 19'
49° 00'
44° 10'
132.4'
71.3'
80'
70° 29'
596'
43° 39'
374.3'
N. 8° 46' W.
N. 6° W.
2° 39'
180'
52° 23'
22° 39'
47'
93° 19'
68° 43'
55° 30'
26°

J. M. Ijams

226

70711 | 16000
14142
1858
1414
444
426

East
S. 69°48° E
26°18
S 43°36 E

53°14
9°38
43°96

N 84°00' E
9°38

Beginning at
N. 80° 22' E
20° 12' R
100° 34'
S. 79° 26' E
26° 12' R
S. 53° 14' E

N. 81° 00 E
S. 8° 48' E

Cen. Sec. 34
106.6' Semi-tan of
S.H.
303.6' by school
840.7' to N.W. Cor
227.0' to N.E. Cor.
374.3' to ⊙ on
East Line

79° 26'
East 106.6'
20° 12' R
S 69° 48' E 303.6'
26° 12' R
S 43° 36' E 841.3'
46° 24'
East 330'
South 468' to Boy River

858.0
5.9
863.9
.22
841.3

thence to a

N. 81°00' E 115.7

∠ 73°28' R.

154°28'

S. 23° E. S 25° 32' E 63.5 N. 67° E

80.0 N. 63° E

115.7
32.3
83.4

63.5 S. 70° W

74.2 S. 65° W

75.2 S. 63° W

74.2 S. 65° W

80.5 S. 69° W

82.6 N. 66° E

91.8 S. 65° W

94.7 N. 70° E.

97.7 N. 59° E

109.3 N. 75° E.

83.4 East of N.W. Cor. 111.7 N. 63° E

81°00'

∠ 76°06' R

157°06

S. 22°54' E.

S. 20° E

114.5 N. 69° E

132.4 S. 85° W.

146.2 S. 72° W.

+ 0.6 S. 70° W.

28.3 S. 85° W.

86.0 N. 63° E

85.0 S. 59° W

90.0 S. 77° W.

97.8 S. 75° W

200
843
1157

12.8 L small grave 2.5' Thorson
Lot 7 Block 3 Sec. A

0 L Large " 8' Mrs. G.A Ford.
Lot 5. Block 3 Sec. A

14.7 R small grave 5'

13.0 R box 6.5 Thompson
Lot 3, Block 2, Sec. A.

29.0 R 6.0

R 48.7 - to fence 47' 4.3 Allen
Lot 3, Block 1, Sec. A.

9.5 R with Stone 13.5 Ford G.E.
Lot 9 Block 2. Sec. A.

20.3 L 4.5 Woodley
Lot 8, Block 3, Sec. A.

12.6 R 6.4

0 L 8.0

16.9 L 3.0

2.8 L 5.7

19.5 L 5.0

19.1 L 7.0

11.5 L 7.0 check this

31.8 L 4.6

18.2 R 6.5 from N.L. 4.0

58.0 R 9.0'

0. R

11.9 R. 8.5 x 7.1 Fence. S.L. of Allen
Lot 3, Block 1, Sec. A

72.4 R 7.0. Spooner
8.8 R 7.9 Lot 2, Blk 1, Sec B

105.6	S. 76° W
110.	
110.0	S. 73° W
110.4	N. 73° E
113.7	N. 79° E
124.0	N. 80° E
132.1	S. 75. W
133.4	N. 76° E
137.7	N. 77° E
150.9	N. 75° E

21.5' R	Craig's Mon 18"X24" Lot 2, Blk 1, Sec. A
12.5 R	6.2 + 1.4 Mon 12"X14" Lot 2, Blk 1, Sec. A
1.6 L	4
1.4 L	7.6
0. L	8.0
10.7 R	4.2
2.7 L	5
2.0 L	5
1.8 L	4.6

38.1 between end points

27 graves -

Running East along North Line

X N. 80°22' E
S. 79°26' E.

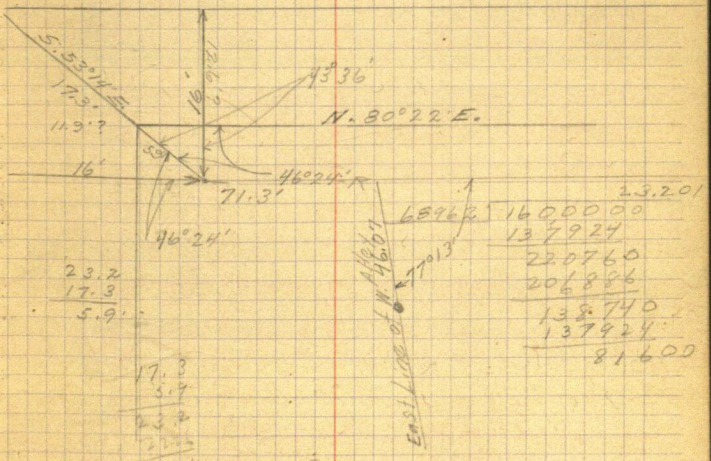
9°38
10 34
20°12

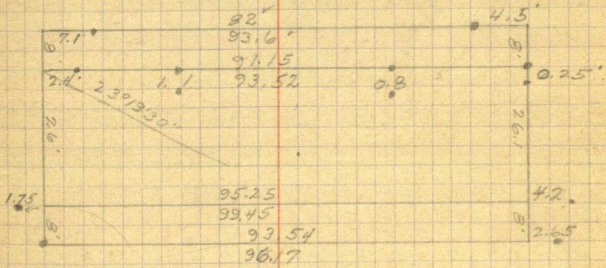
S. 53°14' E
36°46
-9°38
46°24

49°09'
3°23
45°46
38
46°24

Setting up on East line of West alley drove stakes at 90° to East alley 42.1-8'-8'
6
26.1'

S. 80°22' W.
S. 53°14' E.
133°36'
& 46°24' R parallel to E.E.W. ½ A. line



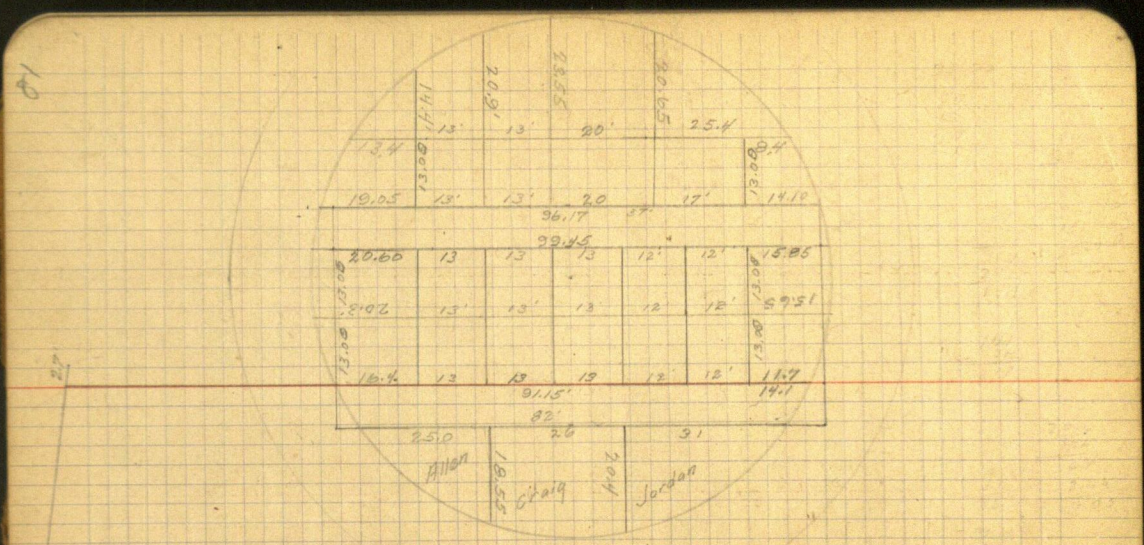

82'
93.6'
91.15
93.52
4.5'
0.25'
7.1'
2.4'
1.1
0.8
26'
26.1
95.25
99.45
93.54
96.17
4.2'
2.65
1.75'

27.41

54°41' | 81547 | 24.00000
16 3 1 9 7
768060
734373
336810
326388
10422 0

62°49' | 88955

27.0
26.97
88955 | 2400000
177910
622090
533730
88360
80085
8275


20.9'
23.5'
20.65'
114'
Goose
13'
13'
80'
25.4'
3.4'
8.4'
Goose
19.05'
13'
13'
20'
17'
14.19'
96.17'
99.45'
20.60'
13'
13'
13'
12'
12'
15.85'
Goose
20.8'
13'
13'
13'
12'
12'
15.95'
Goose
18.4'
13'
13'
13'
12'
12'
11.7'
14.1'
91.15'
82'
25.0'
20'
31'
Allen
18.50'
Gerald
20.4'
Jordan

Friday
July 19, 1924
Road of Com. Walker
on Town line between
Powers - Fonto Lake Twp
139-29-30
from S.W. Cor. Sec. 18 - S.E. Cor.
Sec. 13 north to Portage Lake.
Notes used 139-30
K = S.E. Cor 13 - I.M. in middle of
6% grader. Dug down to Straight
1 = E. 1/4 Cor. 13
N. Pine 22" S. 21° W. 120 = 80.52
" " 20" S. 6° E. 98 = 64.68
M.C. # 5
N. Pine 20" for Cor.
" " 20" N. 69° E 24 = 14.74
M.C. # 10
Aspen 6" N. 55° W 10
Ash 12" N. 53½ E 30
Went to 1/4 Cor. Found 2 stps cheat
for bearing and distance - Set gas pipe
1½" x 24" for Corner.

	M. Garten		New B.T.'s	
Witness	Fred Doerr	B. Oak	5	N. 62° W. 41.9
Witness	A. J. Reuck	B. Oak	7	N. 25½ W 40.9

536

E & W road. Monument cent. about 1' to East part and set wood hub.

Vy Cor to P.A.C. #3 4.42 chains = 291.72
Chained dis to offset = 287.6'

John M. Greene

84

Went to M.C. #5 - Found tree for Cor. Stp. B.T. plain and old scribe Marks

14.9 E. of Sec line prolonged

14.9 | 287.6 | 1.93 = 2°58' Cotan

149

1386

1341

450

447

536

Did not chain ¼ mile to ¼ Cor. but kicked into line and set center pickets. Will set monument later. Set picket 4 99° East from Sec line.

John M. Greene

1 day for Cass County

mileage 60

Time $7.00

mileage $6.00

Total $13.00

for Deer's road

Culhane-Kego Add

July 22, 1924 July 23, 1924

Monday, rain - Stay home

Tuesday on Mrs. Culhane's Phone

platting. C.W. Woolburt

goes to work about 2:30

X along old brushed out

E. & W. 1/4 Line as follows:-

East 187.5 + 126' + 494' = 807.5

X 0°50'R S. 89°10' E = 0°50' = 244.4'

X 1°26'L. N. 89°24' E = 0°36' = 245.0'

X 0°56'R. S. 89°40' E = 0°20' = 184'

1480.9

Corr. using 1st Course as base = 2.26 = 0°05 R

- sine = .0014 True Line S. 89°55' E.

Along shore Kego Lake

C.M.C. to Hub #5 N. 89°55' W. 118'

		13°58'	
#5 - 5^2	& L. 13°58' - 203.3'	10.3°	S. 76° 07' W.
			44.11
5^2 - 5^3	& L. 44°42' - 261.7'		S. 31° 56' W.
			32° 22'
5^3 - 5^4	& R. 32°22' - 259.9'		S. 64° 18' W.
			20° 27'
5^4 - 5^5	& L. 20°27' - 155.2' or 3'		S. 43° 51' W.
			14° 00'
5^5 - 5^6	& L. 14°00' - 171.2		S. 29° 51' W.
		42° 21'	42° 21'
5^6 - 5^7	& R. 42°21' - 291.5		S. 72° 12' W.
		2.53'	27° 06'
5^7 - 5^8	& R. 27°06' - ~~2340~~	N. 88° 46' W.	99° 51'
	Cross Portage to Long Lake - 65.2		71° 45'
5^8 - 5^9	& L. 31°53'		S. 67° 52' W.
			140 1'
5^9 - 5^{10}	& L. 14°44' 121'		S. 53° 08' W.
			56° 06'
5^{10} - 5^{11}	& R. 56°06' 181.9	N. 70° 46' W.	109° 14'
	5.29° 5'		
5^6 - R²	& L. 74° 74		
	S. 44° 09' E		
	74° 04' L		
	138° 13'	41° 41' T	

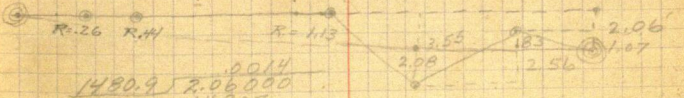
Completions

00.0 M.C. on Kego L.

3.55	187.5 Hub	187.5		3.55
1.07	126.0	126.		2.56
4.62	313.5 Hub	494.		0.99
2.56	494.0			
2.06	807.5 Hub	807.5		
	244.4			80°06'
	1051.9 Hub			1°30'
	245.0			81°36'
	1296.9 Hub			
	184.0			
	1480.9 M.C. on Long L.			

01454-5	01047-3	00582-6
244.4-5	245-3	184-4-6
5816	5235	2312
5816	4188	4656
5816	2094	5812
2908	2.56351.5	1.07088
5.55357 6		

M.C.



.0014

1480.9 R.06000

1480.7

57930

5.92 36 = tan 0°5'

L = 3.55
R. = 1.47
L = 2.09

1875 3	313.5	807.5	
0014-3-4	14	14	L = 3.55
7520	12540	32 30 0	R = 2.56
1875	3135	807.5	L 0.99
26250	43890	1.1305 0	R = 1.52
			R = 0.83

1051.9	1296.9	57-58 R. 71°30'	N. 69°1.5 W. to W.4 Cor.	
14	14	5.06 1-37	N. 17°08 W. to N.M.C.	
42076	51876			
10519	12969			
147266	181566	5°-6°1 R. 68°37'	N. 58°15 W. to W.4 Cor.	
3.55	14	R. 77°47'	N. 4°55 W. to N.M.C.	
208	0.83			

57°08	56°08
68°37	12°42
1.1143	179°33
1875	205

88 244

	Dis.			N.	S.
N 89°55 W.	115.	7.162646	10.000000		
		2.071882	3.071882	.0.2	
		2.234578	2.377309		1.9
195.7	195.6	2.291460	2.368191		
S.76°07 W	203.3	2.308157	2.384888	- 7.7	48.3
		2.308017	2.384747		.2
261.1	261.2	2.417009	2.493739	— 0.5	222.1
S.31°56 W	261.1	2.416848	2.493578		.2
259.9	259.7	2.414606	2.491336	- 0.2	112.1
S.64°18 W	259.9	2.414754	2.491484		2.7
155.7	155.6	2.192154	2.369568	+ 3.7	107.1
S.43°51 W	152.0	2.182415	2.182415		
		2.040447	2.033006		
		2.233504	2.233504		148.4
S.29°51 W	171.2	2.233689	2.626495		
		2.177689	2.930499		
		2.486967	2.978777		
S.72°09 W	291.5	2.464539	2.464539		89.3
	253.0	2.464213	2.464213		
		2.403121	2.403121	40.7	
N.80°45 W	254.0	1.607252	2.397437	40.6	
		2.404405	2.965196		
		1.782548	1.782548		
S.67°22 W	65.2	1.399520	1.770443		25.1
		2.078112	2.963128		
		2.082785	2.080785		
S.53°08 W	121.0	1.860704	1.905893		72.6
		2.517745	2.975257		
		2.259833	2.259833		
N.70°46 W	181.9	1.741378	2.234890	59.9	
				100.8	828.7

5th is 641.3 South and 760.5 west of 5th

From 5th 187.5 East of C.M.C. and

40°08' L = S. 49°57' W 232.3 p.in 845.4 R

1000 pin 1213.3 Stake X L. 94°06'

Beal: N. 44°09' W 193' X R. 74° N 29°31' E

S. 49°57' W X R. 21°27' S 71°24' W 358.6

28°48'

2.30.5 X R 28°48' 100.72 N. 79°48' W.

147.8 X L. 79°45' = N 0°03' W.

1581 X L 99°18' 99°15 = S 89°45' E

S. 72°09' W

S 17°51' E

89°06'

S 71°15' W

28°48'

100°03 N 79°57' W

79°45

N 0°12' W

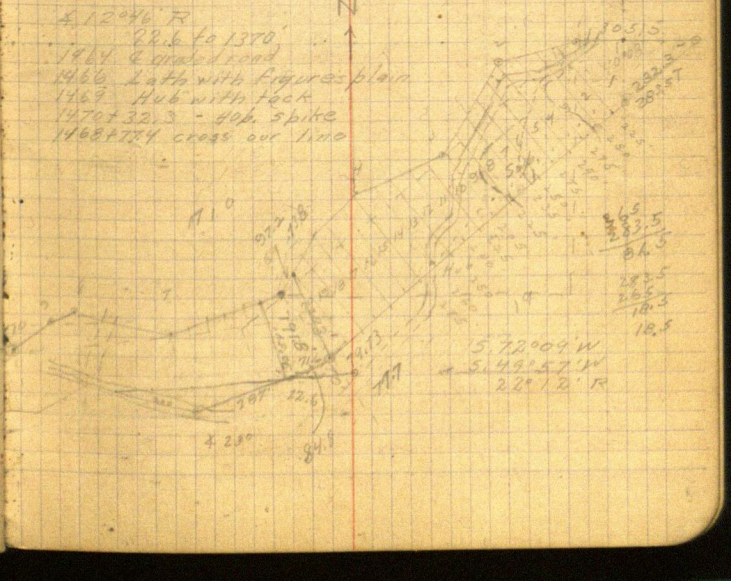
99°18

99°01 90°54'

C.M.C. 20 60

W.	Lat.	Dep.	
118	+ 0.2	- 118.0	S 1
7.5	- 48.6	- 315.3	S 2
197.3	-270.7	+ 453.7	S 3
.4	- 383.4	+ 687.9	S 4
138.1	- 493.1	- 793.3	S 5
.1	- 641.5	- 876.5	S 6
234.2	- 730.8	- 1156.0	S 7
2.6	- 690.1	- 1405.7	S 8
105.4	- 715.2	- 1466.9	S 9
85.2	- 787.8	- 1562.7	S 10
277.5	- 727.9	- 1734.4	S 11
249.7			
250.7			
62.2			
96.8			
171.1			
1734.4			

∡ 12°46' R
22.6 to 1370'
1464 6 grade road
1466 Lath with figures plain
1467 Hub with tack
1470+32.3 - 60ft. spike
1468A77.4 cross our line



90

S.49°52 W
S.89°55 E
137°47
40°13

U.S.G.L.O.
1/4 Cor.

64568
3055
3622840
32264
19370440
194059240

76361
3052
3819065
38190
22902
23328 2853

N 5

1918.
493
1211.3
1213.3
10.7
1847.5

2.842944
2.283378
2.126322
2.084916
3.083968
2.967904

2.282833
2.283378
2.126411
2.084916
3.083968
2.892487
2.162696
2.273301
9.943697

779.4
780.7
.03

136.9
136.4
.5

781.0
136.9
644.1
641.5
1.1

779.7
136.2
642.8

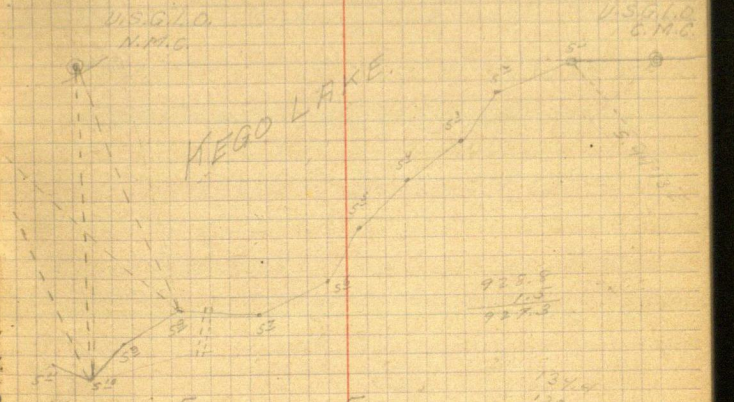
S.44°09' E
N.49°57' E.
N.89°55' W

49°57

64396
1286.92

76548
1530.96

Sec. 23 - 14N - 2E


U.S.G.L.O.
N.M.P.M.
U.S.G.L.O.
N.M.P.M.
TEGO LAKE
W
E
132.9
134.4
267.3
187.5
1061.7
1069.2
187.5
875.7
878.5
2.8
E
132.9
134.3
267.2
1060.2
187.5
872.7
878.5
5.8
1.3
7.1
1061.7
187.1
874.6

97

283.57
850.00
77.7
1211.27

79.73

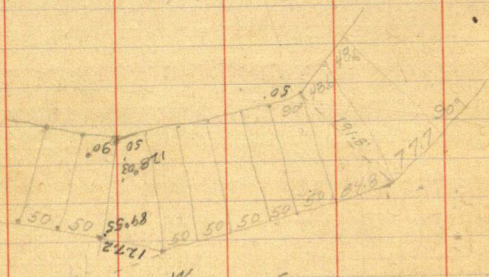
971.8
1338

Comp

49°57'

64346
1211.3
193038
64346
64346
128692
64346
7774.309 5

76548
1211.3
92964 7
76548
76548
153096
76548
92732572 4



76°00		W	S
76°07'	7.7	7.47	1.86
32°00		S.	W
31°56	-0.5	0.4	0.2
64°15°		W	S
64°18'	-0.2	0.2	0.1
43°45'		S	W
43°51'	+9.1	2.7	2.6

S. 39°55 E.
42°08' L
130°03
S. 49°57 W
39°06' L
N 42°09 W
79
N 2.9°51' E.

72°09
71°24
45

72°09'
S. 49°57' W
22°12

7.47
.2
.2
7.87
2.6
S. 5.27

1.86
.4
.1
2.36
2.6
W .2

641.5
5.3
646.8

S. 72°09 W.

N. 79°48' W.
151°57'
28°03

27°06
0°57
28°03
118°03'

27°06'
79°48'

N. 80°45' W
79°48'
0°57

55.7
3
167.1
28.6
195.7

S.76°07'W
S.49°57'W
26°10'

50.00
25.67
24.33

49°57
31°56
18°01

897.52 -4
28.6 -7 -1

5385.12
718016
179504
25.66907 2

95097 | 24.33000 = 25.6
190194
531060
475485
55575 0

52.6
4
210.4

25.6
25.2
261.2

25.2

95097
252
190194
475485
190197
23.96244 = 6.9

64°18'
49°57'
14°21

50.00
23.96
26.04

9688 | 26.04
19376
66640
58128
851 20

49°57'
43°51
6°06

51.6
4
206.4
26.9
26.6
259.9

9688-4
266-5

58128
19376
2577008
50
24.23

99434 | 24.23
198868
434320
397736
365840

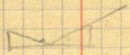
24.4

99434
306
596604
2983020
30426804
50.0
19.57

49°57
29°51
20°06
20.84

50.3
100.6
24.4
30.6
155.6

93909 | 19.57
187818
788200
751272
36928 0



20.84
53.74
74.24

Town line Byron-Becker
135 - 134
Aug. 25-1924 R-32

Lv. Walther for Songs Tiviks place in Byron Twp. Loren Pohl goes with me as head chain. 4th man we get at Twiks. Not at home. Go to Nyhus place. Sec 28 Wait an hour for him. Go to Kathan in Sec 34 and have dinner.

100

Aug. 26-1924

At cross roads S.E. Cor. Sec.

Make a chain point by walking

Sta. 0 Chain west along road

18+70 cross Lot 4, Co. Ditch

25+70.7 459.6 Opp. Bean's 1/4 Cor.

52+30.3 Beans Hub

52+41 N&S. Fence line

52+62 Line of N&S. Road

5280 78+36 Opp. Fence Cor. on South

104+83 Line old road

105+60 104+89 Line 24" Culvert

104+83 73

105+17 Fence running North

105+60 105+38 Road running South

130+10 Bridge

-1.5' 132 Temp. 1/4 Cor.

132+60 Bridge "

40 158+29.5 " Supposed to be Sec.

184+45 Fence line

184+79.9 Hub in C-grade

185+7.5 Fence at end of road

5 105+32

25+70.17

79+51.3

265

25+70.17

20

1237
6600
7837

36-13S-32 we find no corner.
the fence distance
Center, south side of Sec. 36
at which runs North to E.B.N.W. line of 36.

2640
7
18480

7)18479.9 2263.4

14
44
42
29
28
89

25+70.7
26 51.6
52 22.2
53 03.1
10 52 5.3

184+79.9
25+70.7
159 09.2
5303.1
2651.5

15829.5
15840
10.5

184 79.9
2570.7
15909.2
5303.1 2651.5

Cor.

25+70.7
79 54.5
10 52 5.2

18476
2639.4
2570.7
68.7

104+83
52+46

10"

Aug 26

				Sta	
+ S.	H.I.	- S	Elev.	Bottom at	
7.6	107.6	5.1	102.5	0	
		5.3	102.3	1 North	
		5.6	102.0	3	
		5.7	101.9	4	
		5.8	101.8	5	
		5.9	101.7	6	
		5.65	101.95	7 TP	under
5.35	107.30				
		5.1	102.2	8	
		4.8	102.5	9	
		5.0	102.3	10	
		5.3	102.0	11	
		5.6	101.7	12	
		5.9	101.4	13	
		6.7	100.6	14	
		6.7	100.6	15 Bridge	3.4 to bot.
		6.5	100.8	16	
		5.9	101.4	Bridge floor	
			98.0	Elev. Bottom	
			100.2	Elev. water	
		5.85	101.4	Water opp.	

Water rising 1 ft in 1 week

Culvert Assumed elev. 100'
Water 101.85

Elev. bridge floor = 101.4
Water level 100.2
Bottom Creek 98.0

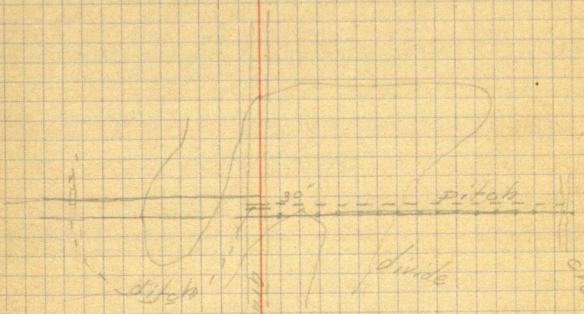
1.2 to water = 5+25

Sta. 7 divide

Aug. 26

	H.I				
	107.6	Bottom culvert = 100.00			
		6.9	100.7		
		6.8	100.8	R. fch	
		6.0	101.6	Stal	South
		5.9	101.7	2	
		4.5	103.1	3	
		1.5	106.1	4	
1.05	107.15	2.3	104.85	5	
		4.8	102.35	6	
		6.0	101.15	7	
		5.6	101.55	8	
		6.3	100.85	9	
		6.0	101.15 Ditch	Bottom	97.30
		7.8	99.35		Ditch
		6.6	100.95	10	
		6.65	100.50	11	
		3.7	103.45	12	
		5.2	101.95	T.P	
4.6	106.55	5.55	101.00 3.5 water		97.5
		6.1	100.45 water @ point	99.63	about
		8.15	98.42	11	11
		1.3	T.P 105.25		
1.7	106.95	7.2	99.75		

Wm Stannet
Jacob Knutson
Knute Viking



100' West Rapid water
2.50' S.W.

106

2640
392.8
3232.8

5278.8
697.2
5976.0

9240
581.5
9821.5

Set up on hill
about Sta. 30 and kicked into line
between S.W.Cor. 36 and Sta. 52+30.3
Line S. 0°W 13.6' from Beans 1/4 Cor.
grubbed out. No sign of grubbing where
Set hub on line at 2639.4
" " " " 3232.8 offset 3.4
Set " " " " 5278.8 5.1
5230.3
48.5 w. of Beans Cor.
" " " " 9821.5 - 10.3
Set upon Hub near school house 5976.

Set hub at 7918.2
" " " 10255.6 - 10.8'
" " " 10557.6
10517.0
40.6 w. of fence.

At Sta. 105+57.6 x 0°20' R.
" 11616.8 -5.8'

11.1 at 2
16.6 " 3
19.5 " 3 1/2

00291
5280
2328
582
1455

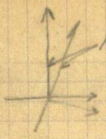
2 | 13364.8 | 7.68
16.6 | 23.04
22.0

19.5
23.1
3.1
45.7

404.1
5278.8 = X
5.55
639.85

4041
555
20205
20205
20205
66 | 224 | 2755 | 34
198
262

9240
1015.6
10255.6



10560
1056.8
11616.8

True North = N. 11°28' W.

True West = S. 88°32' E.

S. 88°16' E
20'
88°36

Bear's Cor.

The claim is made that the B.T. stb.s were stbs are called for.

311' = 0°10'

3.4 | 1056.8
10
36
34

19.45 | 18475.8
17503
9708
9725

950 = 4'

182' = 0°20'

5.8 | 1056.8
58
476
464
118

5.8
9.2
3.4

6.3'

S. 88°36' E

V. 11°28' S. 88°32' E

S. 88°16' E

V. 11°38' S. 88°22' E

V. 11°42' S. 88°18' E

46.1

Sin 0°20' = 7918.2 - .00582-6

158364
633456
395910
46.083924

10557.6
00233
31672.8
31672.8
211152
245992.0 B

46.1 | 18475.8
1844
3580
3688

2639.4
7
.4098 = .8'

Sin 0°10' = 79182 - .00291-3

79182
71263.8
158364
23041962

3.61
26.68
46.1
19.45

7 | 19.45
14
54
49
35

.77

2.77
4
11.08

2.77
6
16.62

Sin 0°04' = 2639.4-6 - .00116-8

158364
26394
26394
3.061704

B.T's at S.¼ Cor. Sec. 36

J.P. 6" N.60°W

J.P. 6" S.65°E

Time Sheet

	Aug 25 S.B.B	Aug 26 B.D.J	Aug 27			
Greene			8 meals @ L-2			
Stammer	1	1				
Pohl	1	1				
					B.D.S	
	Sept 10	11	12	13	15	
			D.S. B	B.D.S B	B.D.S	
Greene	1/2	1	3/4	1	1/2 - 1/2	
Stammer		3/4	3/4	1	1/2	

2400

Byron-Becker Joint Road

951 = 0°04'

11.1) 10560
999
570
555
150

2640
.00058 = sin 2'
2112
1320
1.43120

4L - 10m - 6L - 18m - 6days -

@ 3.00 x 4 - $12.00
6.00
$18.00 -

41.75
8.00
24.00
3.80
77.55
10.5?
88.??

2

7
6 1/4 days
42
1.75
41.75
8.00
14.80
23.80
2.10

43.75
24.00
1.00
3.80
72.55
4
76.55
8
84.55
65
85.35
3.50
88.85

$88.46

12.40

24.80

Feb. 18-1925

North line Sec. 20-141-26

Greene-Transit

Verne Ohmstead

Frank Mishaw

Peter Frostheland.

N.E. Cor. No B.T.s

Int. of road South and East

16.5' East of post.

Continued road line north side

Sec. 21 for R. Line.

K-W at 5

Tam 5" S. 50° E 14 - 9.24

" 4" N. 68° W 18 - 11.88

Cor. 17-18-19-20

Tam 5 S. 47 W. 69

" 5 N. 50 W 67

" 8 S. 89 E 354

Spruce Pine 12" N. 89° E. 419

N.W.B.T - marks on stk. plain.

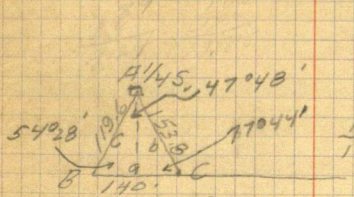
Set stake 11.88' S. 68° E. from stk.

N&W B Ts Tam. 5" N. 35° W. 67'

" 4" S. 15° W. 18'

1/16 Cor Bal. 6" West 2.5 Iron Pin

" 8" S. 35° E. 9.8



153.8 - 8 - 1
119.6 - 8
9228
13842
1538
15.38
18394.48 = bc

119.6
153.8
140.0
2 | 413.4
206.7 = s

206.7
153.8
6 - 42.9 - s-b
7 - 87.1
429
3003
3432
3736.59 = (s-b)(s-c)

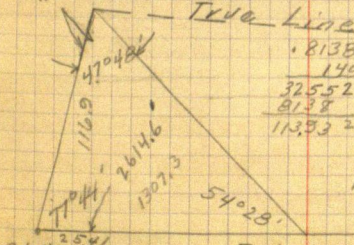
206.7
119.6
87.1 = s-c

.20314
18394.48 | 3736.59000
3678896
57694 00
56183 44
2510560
1839448
671112 0

Sin ½A = .4053 = 23°54'
.20314
16
800 | 4314
4025
8100 | 28900
47°48" = A.

1- .74080 = Sin A.
8 153.8
59 2640
22224
37040
7402
113.93 5040
47°48'
54°28'
102°16'
77°44'

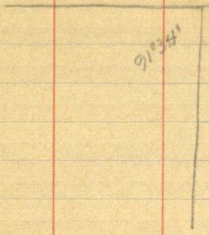
.8138 = Sin B = 54°28'
140 | 113.93504
1120
193
140
535
420
1150
154°
7408 | 113.93
7408
39850
37040
28100
90000
77044
12016



.8138
140
32552
8138
113.932 0

.97717
119.6
586302
879453
97717
97717
116.8695 3 2

.21246 - 6 - 3
119.6 - 8
127476
19121 4
21246
21246
25.41021 6



22.366
1163) 26147.6
2338
2766
2338
4280
3507
7730
7014
7160

84°55'
88°26'
173°21'
6°39

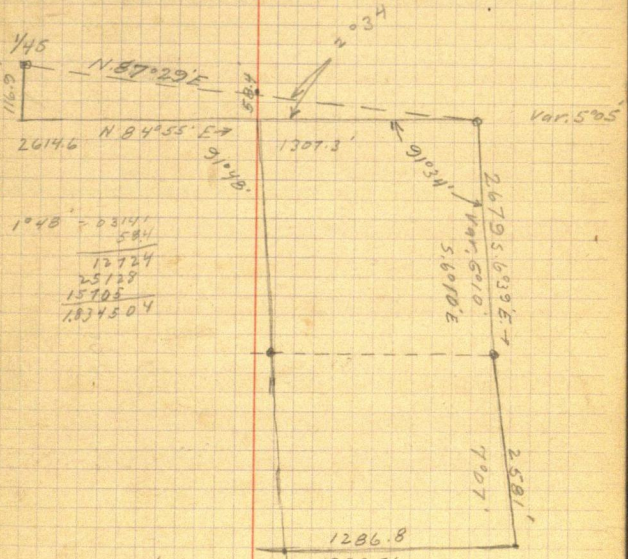
84°55'
2034'
87°29

0°57'

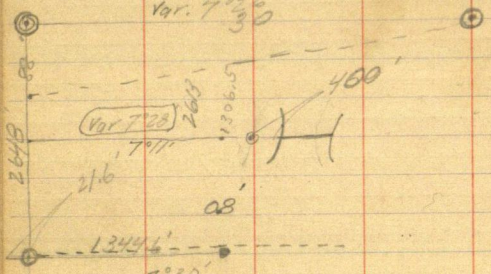
01658
2581
1658
13264
8290
3316
42.79298

1307.3
1286.8
1.5) 20.5 14'
15
55

31°34'
14'
91°48'


1/45
N. 87°29'E
116.9'
2614.6
N. 84°55' E.
91°48'
1307.3'
91°34'
Var. 5°05'
2679.5
S. 6°39' E.
Var. 6°10'
S. 8°10' E.
2581'
1286.8
2659'
1329.5'
42.7
1286.8
1°48' = 03'14"
584
12724
25729
15705
1834504

J. M. Greene



1324
1306.5
18

27.12
32.97
60.09

1056.8 : 5280 :
1056.8
4223.2

5280 : 4223.2 : 9.6 : X

9.6
25339 2
380088
528 405427 2 7.7'
3696
3582

7.7 + 1.5 = 9.2

1.9

11.1
1.9
9.2

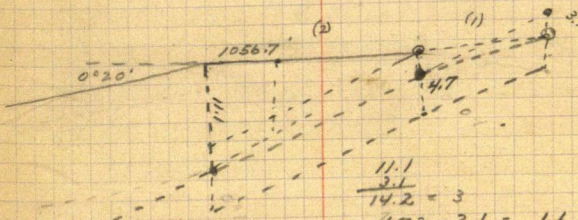
$\frac{5976}{1056} = \frac{X}{11.1}$

5976
5976
5976
1056 | 66336 | 6.28
6336
2973
2112
861 6

6.3'

98215
98215
98215
1056 | 10901865 | 10.3
1056
3418

102556
102556
102556
1056 | 113837 16 | 108
1056
8237
8448



11.1
3.1
14.2 = 3

4.73 − 3.1 = 1.6
= 1.43 ← 1.5

11.1
1.43
1.5 | 9.67 | 6.4
9.0
67

180
59-44
120-16'

J.P. 10 N60°W 24.85'
J.P. 7 S10° W 30.

V. 11°28
V. 11°28
V. 11°38'
V. 11°42'
20' R.

First National Bank of Staples