

COUNTY SURVEYOR'S RECORD, DOUGLAS COUNTY, OREGON

BUSHONG & CO. PORTLAND, ORE. 87545

Survey No.	Made on July 9, 10, 11, 12, 13 14 and 16 1923	Survey No.	Made on
In Town. 26 S	Range 3W	In Town.	Range
	Sec. 10 and 11		Sec.
Made for	M.L. Kimmel and G. DeBernardi	Made for	
Purpose of	Establishing west and north lines of NW 1/4 sec 11	Purpose of	
SURVEYOR: J.W.Cole and C.W.Springer			
CHAINMAN: C.W.Springer and N.E.Richardson			
PRESENT: M.L.Kimmel, Joe DeBernardi			
G. Debernardi present the first half day.			
RECORD by C. W. Springer		EN. LL. C.S. 1/40-1	

J. W. Cole began the survey July 9, 1923 at a hub #0 in the locality of section corner common to sec 2, 3, 10 & 11. No evidence to show the exact location of this corner. From hub #0 a tacked transit traverse was run on a magnetic course of South (Note: In all the different lines the computations were made in relation to this first course and from a solar observation they must be turned left 1°03' for true bearings). The transit traverse follows: Hub #0 thence South 2798.5 ft. to hub#6 which is on the North bank of the North Umpqua River. Here a diligent search was made but failed to reveal any evidence of the 1/4 sec cor bet sec's 10 & 11 as called for in the Gov't field notes. From hub#6 by triangulation across river South 292.9 ft to hub#7, thence South 922.1 ft to #14, thence S 1°20'E 115.1 ft. to # 15 thence S 2°33' E 105.6 ft to #16, thence S 1°00' W 140.2 ft to #17, - S 0°21' W 125.5 ft to # 18, - S 1° 55' W 158.6 ft to #19, - South 196.5 ft to #20, - S 17°04' W 293.5 ft to #21, - S 11°12' E 128.4 ft to # 22, - and S 8° 57' E 150.1 ft to the sec cor common to sec 10, 11, 14 & 15 which established by an iron pipe and BTs. These were set by G.G.Stewart from the orig. BTs in 1922. From hub # 7 to hub #15 a line of blazes paralleled this line but from testimony of W.A.Smith were made by M.B.Germond in 1908. Near hub #15 a cedar 48" in dia was hack marked and from here to the section corner a distant line of old blazed trees were traceable. Ties were made to every tree which could show the direction of the true line. From these trees and the tie given to the N. Umpqua River as given by the field notes the position of the 1/4 sec cor bet sec's 10 & 11 was computed and failing to find any evidence or testimony to show the original location of this corner, it was located as follows; N 0°27' W (Solar Bearing) 2602 feet from the sec cor com to sec's 10, 11, 14 & 15. Since this line on a very steep slope a Witness Corner was set North 10 feet from the 1/4 sec cor bet sec's 10 & 11 and is an iron pin 5/8" x 30" driven in ground from which a Norway Pine 36" dia bears N 37° E 60.6 ft and a Fir 40" dia bears N 74°45' W 92.8 ft. The true line was blazed thru and the 1/16 cor was set N 0° 27' E 1301 ft from the sec cor com to sec's 10, 11, 14 & 15. A cedar post 4"x4" x36" was driven in ground and from which a Cedar 48" dia bears S 22° E 2 ft and a Cedar 30" dia bears N 22° E 29.2 ft.

At hub # 0 a solar observation was taken and is given as follows:
 Transit at hub # 0 FS on a Pine tree, took two observations: Date, July 9, 1923.
 #1 Turned hort. angle R 153°47' to the sun, Mag C. N 80° W Time 5:30 PM
 Altitude angle 23°21'
 Dec of sun Greenwich noon N 22° 27' 27.9"
 Change for 13.5 hours 3 53
 Dec of sun at time obs. N 22° 23' 34.9"

Latitude of base line	N 45° 31'
Corr. for 211/6 townships	2° 11'
Lat. at Observation	N 43° 20'
Measured Altitude	23° 21'
Refraction Correction	1
True altitude at obs.	23° 20'

Formulae : Cos Q equals Tan Alt x Tan Lat - (plus Sin Dec x Sec Alt x Sec Lat)
 Tan 23° 20' --- .43136 Sec 23°20' --- 1.0891
 x " 43°20' .94345 " 43°20' 1.3748
 .40697 1.4973

Sin Dec 22°24' -- .38107
 x 1.4973
 .57058
 Cos Q .16361 Q equals N 80°35' W plus 153°47' to the right equals S 54°22' E

#2 Turn R 154°47' to sun from a Pine tree, Mag C N 79° W Altitude 22°14'
 Tan 22°13' ---- .40843 Sec 22°13' --- 1.0802
 " 43°20' .94345 " 43°20' 1.3748
 .38533 1.4851

Sin Dec 22°24' -- .38107
 x 1.4851
 .56593
 Cos Q .18060 Q equals N 79°36' W plus 154°47' to the right equals S 54°24' E

Mean of the two observations equals S 54°23' E from which turn right from hub #0 to hub # 1 53°21' which gives the true bearing as S 1°03' E with a mag bearing of South and the needle Var as 21°00' E.

Made a further search for the sec cor com to sec 2, 3, 10 & 11 with no results. Then went to the 1/4 sec cor bet sec's 2 & 11. This cor is well marked by a large pile of rocks and a stake. From there a tacked transit traverse called the "A" line was run as follows: N 88°19' W 89.6 ft to A1-- N 89°48' W 354.2 ft to A 2, N 88°49' W 331.8 ft to A3,-- N 84°29' W 176.2 ft to A4,-- S 85°54' W 255.4 ft to A5,-- S 88°43' W 300.0 ft to A6,-- N 84°37' W 145.6 ft to A7,-- N 84°57' W 102.6 ft to A8,-- N 78°57' W 240.9 ft to A 9,-- S 88°40' W 290.0 ft to A10,-- N 87°25' W 46.6 ft to A11,-- S 86°50' W 290.6 ft to A 12, --- N 0°50' W 63.4 ft to A 13 which is the same as hub # 0. No old blazes were found on this line altho diligent search was made.
 Then to a point on line between hub #4 and #5 and 439.4 feet south of hub # 4.