

COUNTY SURVEYOR'S RECORD, DOUGLAS COUNTY, OREGON

BUSHONG & CO. PORTLAND, ORE. 87545

<p>Survey No. Made on June 25, 1923</p> <p>In Town. 25 S Range 6 W Sec. 7</p> <p>Made for M.F. DeCosta</p> <p>Purpose of Legal Survey bet. DeCosta and Robert Lehman</p> <p>Surveyor; C.W. Springer Chainman: C.A. Beeman Present; M.F. DeCosta, Robert Lehman, J.A. Cole, Guy Cole</p>	<p>Survey No. Made on June 26, 1923</p> <p>In Town. 25 S Range 6 W Sec. 7</p> <p>Made for M. F. DeCosta</p> <p>Purpose of Establishing the west line of the NE 1/4 of section 7</p> <p>Surveyor: C.W. Springer; Chainman: C.A. Beeman Present; M.F. DeCosta, J.A. Cole, Guy Cole.</p>
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FB 300-52

Legal notices having been sent to and receipted for by the interested parties on June 16, 1923, I began the survey on June 25, 1923 at the section corner common to sections 5, 6, 7, 8, which I re-established from 3 BTs ~~not~~ marked by Germond as a re-establishment on a previous survey. Since 3 of his 4 BTs were in very poor shape, I remarked 3 new trees as recorded in Book of Gov't Corners and drove an oak stake 3"x3"x36" for the corner. I then ran a transit traverse with doubled vernier angles chaining done partly by horizontal method and partly by vertical angle method with true bearings from a Solar Observation. The traverse as follows: S 87°52' W 1337.7 ft. to hub #4, S 88°29' W 186 ft to hub #5, N 85°40' W 253.4 ft to hub #6, S 86°21' W 353 ft to hub #7, S 75°30' W 294.4 ft to hub #8, S 76°32' W 269.3 ft to hub #9, N 13°28' W 2.8 ft to the 1/4 section corner between section 6 & 7 which is a 60" Cedar tree with 1 original BT alive and standing and the other one down. I open the good BT for proof to the interested parties of the corner and mark two new BTs (Gov't Corner Book) From the foregoing I compute the true line and bearing between corners to be S 85°54' W 2682.3 ft. I then set stakes on the true line for fence guide at convenient intervals. Did not blaze trees because of intended slashing and clearing in the near future.

SOLAR OBSERVATION.

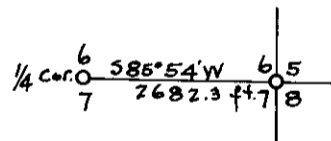
Formulae: $\cos Q \text{ equals } \tan \text{ Alt } \times \tan \text{ Lat } - (\frac{1}{2} \sin \text{ Dec } \times \sec \text{ Alt } \times \sec \text{ Lat })$
Transit set at hub #7 Backsight on Hub #6. Time 2:00 PM June 25, 1923.
#1: Hort Angle L 29°38' Vert. angle 59°59' Mag C to Sun S 85°00' W
#2: " " L 28°20' " " 59°28' " " " S 85°45' W
Apperarent Dec June 25, 1923 N 23°24.9'
R.C 3.1" x 10 Hrs equals 5.2'
Dec for 2:00 PM 23°19.7'

Refraction Corr. for two hrs is nothing. Alt equals 59°59'
Lat Base line 45°31' less Corr (24 1/6 Twp x 5.212') 2°06' equals Lat 43°25'
Therefore #1

<p>Tan 43°25' - .9462 x " 59°59' -1.7309 <u>1.6378</u> less 1.0901 Cos Q equals .5477</p>	<p>Sec 43°25' - 1.3767 x " 59°59' - 1.9990 <u>2.7520</u> Q equals S 56°47' W plus 29°38' S 86°25' W</p>	<p>Sin Dec 23°20' - .3961 x 2.7520 <u>1.0901</u></p>
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<p>#2 Tan 43°25' - .9462 x " 59°28' -1.6954 <u>1.6042</u> less 1.0734 Cos Q equals .5308</p>	<p>Sec 43°25' - 1.3767 x " 59°28' - 1.9683 <u>2.7098</u> Q equals S 57°56' W plus 28°20' S 86°16' W</p>	<p>Sin Dec 23°20' - .3961 x 2.7098 <u>1.0734</u></p>
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Average of the results is S 86°21' W



ESTABLISHMENT OF THE WEST BOUNDARY FOR M.F. DeCosta.

Began the survey at the 1/4 section corner bet sections 6 and 7 as established on the legal survey of the previous day and from known bearings as per the Solar Obs. of the day before, ran South 2640 ft. where I set an approximate 1/4 section post for the center of section 7 which is an Oak stake 3"x3"x36" driven in ground.

