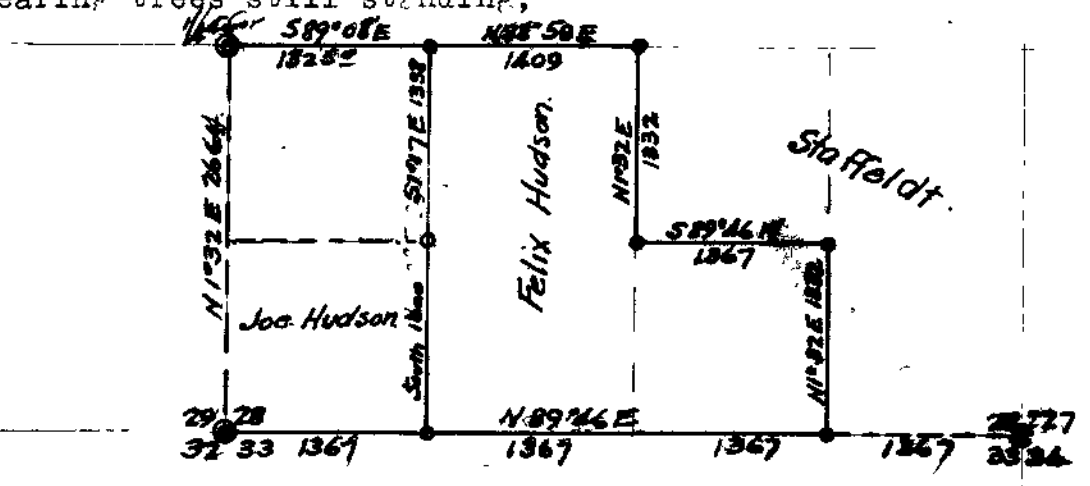
155 L-455

COUNTY SURVEYOR'S RECORD, DOUGLAS COUNTY, OREGON

BINFORD'S CO. PORTLAND, ORE. 87545

Survey No. *Made on* Feb 18 1921 and May 29 1923	*Survey No.* *Made on*
In Town. 22 South *Range* 7 West *Sec.* 28	*In Town.* *Range* *Sec.*
Made for Felix Hudson	*Made for*
Purpose of To locate the approximate boundaries of the land of Felix Hudson J.W.Cole -Surveyor L.H.Smick -Chain Joe Hudson -Axe Felix Hudson Axe FB 20-50	*Purpose of* C.S. 1/10

I began this survey at the Corner to Sections 28-29-32-33 T 22 S R 7 W . Williamette Meridian.This Corner was a Rock which Ed Haines testified was used as the Section corner and which checked with two original bearing trees still standing,



A B Oak 24 inches in dia. brs. N50°W 228 lks
A B Oak 24 " " " " S83°W 390 lks.
I set a 6"x6"x12" Rock and also a ""x4"x40" Oak post for the corner and marked An Oak 12 in dia S 82°W 16.2 ft.
An Oak 12 in dia N21°45'W 55.4 ft.
I then Offset South 10.0 ft. and ran a random traverse line easterly as follows. N89°19'E 177.0 ft to Hub No. 1,Thence N88°34'E 702.1 ft. to hub No 2,Thence S72°27'E 633.7 ft,Thence S89°45'E 465.5 ft. to hub No 4,Thence N87°41E 744.7 ft to hub No.5,Thence N74°16'E 138.6ft. to hub No. 6,ThenceN82-53'E 270.2 ft. to hub No. 7 , Thence N74°27E 507.5 ft.,to hub No 8 ,Thence N86°48'E 125.9 ft. to Hub No. 9
From a point 45.2 ft. South and 119.2 ft East of Hub No. 9 I ran N0°06'E 152.5 ft to Hub No 1A,Thence N3°38'W 69.9 ft to hub No 2A Thence N0°41'W 80.4 ft. to No. 3 A Thence N0°41'W 127.8 ft to hub No 4A,Thence N0°41'W 260.3 ft. to No. 6 A,Thence N0°41'W 278.5 ft. to No 7A,Thence N0-41 'W 133.3 ft. to No 8A ,Thence N0°41'W 89.0 ft. to No 9 A where I errected a Rock mound from which A Fir 36" in dia brs. N8°15W 44 ft. Thence S89°19'W 1320.1 ft. to Hub No 15A near the approximate 1/16 corner ,Thence N0°36'W 463.5 ft. to Hub no.16A,Thence N0°41'W 248.9 ft to Hub No 17 A ,Thence N0°33'E 101.9 ft to Hub No. 18A ,Thence N2°56'E 250.3 ft. to Hub 19A Thence N80°E 92.3 ft to Hub No 20 A which isa a point for triangulation across a canyon,,Thence N87°40'E 1005.9 ft. by triangulation to Hub NO.21A Thence N75°30'W 185.7 ft to Hub No. 22A Thence N21°33'W 85.8 ft. to Hub No 23 A ,Thence N85°13'W 748.9 ft to Hub No 24A,Thence N72°53'W 521.8 ft. to Hub 26A,Thence N78°29'E 220.2 ft to Hub No. 27A which is the Quarter corner on the East boundary of Section 28 I renewed this corner from the Original bearing trees which were alive and standing and showing scribe marks I set a 4"x4"x40" post (Oak) for the corner.
I then returned to Hub No 23A and ran Southerly as follows N0°45'W 213.4 ft to Hub No 0B,Thence S1°15'E 304.8 ft,to Hub No. 1B,Thence S2°14'W 271.9 ft. to Hub No. 2 B Thence S0°38'W 340.3 ft. to Hub No 3 B ,Thence S)- 40'W 83.6 ft. to Hub NO. 4B,Thence S5°44'W 80.4 ft. to Hub No 5 B Near the approximate 1/16 corner Thence S30°08'W 413.9 ft toHub No 6 B ,Thence S6°53'W 512.8 ft to hub No 7B Thence S6°36'W 230.8 ft to Hub No 8B.Thence S10°24'W 306.9 ft to Hub No 9B which equals Hub No 2 of the traverse Westerly,The closure of this traverse computed by latitudes and departures was in error North and South 2.1 ft and East and West 12/5 ft the Bearings of the lines were computed from a Solar Observation taken at Hub No 7B Angles turned from transit plates and doubled.

SOLAR OBSERVATION CALCULATION

Set at No7B ,Backsighted on No.6B Deflected Right 48°25'To Sun Suns altitude 1'19' Time of observation Feb.22 1921 4;00 Pm

Latitued of Basel Line 45°31'	45°31'
Correction for 215/6 Townships	1°53'
Latitude of Observation	43°38'
Measured altitude	18°19'
Refraction correction for 4 hours	0°01'
Suns true altitude	18°18'
Declination at time of Observation	10°03'

Formula Used ,Cos of Suns angle with merdian equals
Tan Lat x Tan Alt. minus (minus Sine Dec
(----------
(Cos Lat.x Cos Alt.

9534 x .33072 equals .3153 and .7238 x.9494 equals.6872 Sin Dec .175
Suns angle wit merdian therefore S55°18'W