



Solar Obs. at Wit. Cor. near Sta 18+24.4
 Lot Base Line $45^{\circ}31'$
 Corr. for 29' Trips $2^{\circ}30'$
 Lot of Observation $42^{\circ}58'$
 Measured Altitude $43^{\circ}58'$
 Refraction corr. $0.1'$
 True Altitude $43^{\circ}57'$
 Doc. Greenwich Noon Oct 11 $4^{\circ}51'25''$
 Corr. for 10 hrs $9'29''$
 Doc. at 2:44 PM Oct 11 1923 $2^{\circ}42'$

Formula: $\cos Q = \tan Alt \times \tan Lot$ (in Sin Dec)
 $\cos Alt \times \cos Lot$
 $\tan 42^{\circ}58' = .9314$ $\cos 42^{\circ}58' = .7318$ $\sin 42^{\circ} = .6691$
 $43^{\circ}57' = .6960$ $43^{\circ}57' = .72$ $.08194$
 Product = .9979 Product = .5269 = .1555
 $.1555 = \cos .42^{\circ}04''$
 Lot = $40^{\circ}47'$
 True. Brg. 18+24.4 - 24+55.5 = $P 17^{\circ}W$

- Reference Data.
- 0+702 W. Oak 6" S35°30'W 309'
 - Laurel 10" N67°00'W 709'
 - 10+400 Laurel 16" N 1°45'W 312'
 - Pine 22" N8E 15'E 28.6'
 - 36+508 Fir 6" N32°00'W 378'
 - Fir 7" S76°30'W 363'
 - 41+912 Laurel 1" S3°30'W 389'
 - Laurel 6" N74°00'E 859'
 - 48+772 Pine 12" S71°15'E 652'
 - Pine 12" S61°25'W 652'
 - 56+065 Fir 16" S14°15'E 237'
 - Fir 10" S56°30'W 342'
 - 65+312 Laurel 11" N34°15'W 442'
 - Maple 12" S52°15'E 642'
 - 72+032 Maple 15" N 53°00'E 321'
 - Laurel 24" S87°40'W 702'
 - 76+185 Maple 12" S49°00'W 292'
 - Maple 20" S31°45'E 504'
 - 88+732 W. Oak 10" S 4°00'W 382'
 - W. Oak 10" S25°10'E 322'

MAP and PROFILE.
 OF
DAY'S CR- BEALS CR.

PET. OF J. FENN and C. RUSSELL
 Road Dist. 68-72. Secs. 9-15-16-21-22-T30SR4W.
DOUGLAS CO. ORE.
 Office of Co. Sur. Sep. 1923.
 Scales Hor. 200 ft. to one inch.
 Ver. 20

Sheet N^o 1

30 X

