## Polaris at Eastern Elongation

COLUMBIA COUNTY
Section 23 T5N R4W WM
August 14, 1973
Latitude 15.54'05"
Longitude 123.08'30"
Temp 55
T Doty

Greenwich Civil Time of Eastern Elongation August 9th 23 hours 00.5 minutes

""" August 19th 22 " 21.4

10 days 39.1 min diff  $39.1 \div 10 = 3.91$  minutes correction per day

August 14th

"8th (Eastern Elongation given is for previous day)

6 days 6 × 3.91 = 23.46 minutes correction

Greenwich Civil Time of Eastern Elongation August 9th 23 hours 00.5 minutes - 23.46 " Correction for August 14th August 14th 22 hours 37.04 minutes Greenwich Civil Time of Eastern Elongation 123.14 ×.011 - 1.35 Correction for longitude 22 hours 35.69 minutes Standard Time of Eastern Elongation Time Correction for longitude 123.14-120=3.14 + 4 min 12.56 minutes Local Civil 22 Hours 48.25 minutes Standard Time of Eastern Elongation Pacific

Pacific Standard Time of Eastern Elongation = 10: 48.25 = Pacific Daylight Time = 11: 48.25

Polar Distance in Minutes

Cosine of Latitude = Bearing of Polaris in minutes

Polar Distance August 9th = 51.61"
"  $\frac{19th = 51.58}{10 days = 0.03}$ 

Correction for 5 days =  $.03 \times 5$  = .015

Polar Distance August 9th = 51.61

correction for " 14th = --015

Polar Distance August 14th = 51.595

Polar Distance in minutes = 51.595 = 74.14189

Cosine of Lat 45°54'05" = .69589539

Bearing of Polaris = 1º14'09"

True Bearing = \$79° 48'24" W + 0 = 1° 52 30° Grid Bearing \$81° 40'54" W Horizontal angle to right 101° 25'30° (202 51 30°)

SE Corner of took of the order of

S 79. 48. 24. W

NOTE Monuments are not on Road Right of Way

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Polaris at \_ Eastern Elongation

Horizontal Angle 101° 25' 45'
- Bearing of Polaris 1° 14' 9'
100° 11' 36"

179'59'60" 100 11 36" S 79'48'24 W Bearing of Highway