

Observations of Polaris

taken on

random line, viz: a line running
in a southeasterly direction from the
intersection of Lat 39° North, with
Lon: 120° West: to the intersection of
Lat 35° North with Long: $114. 36. 00$ W

At 213th mile.

May 5th 1873.

By Field Transit.

^{h.} ^{m.}
4. 14. 40 Am.

On greatest Eastern Elongation

Log Cos Decl $88^{\circ} 37. 48''$ = 8. 37856

" " Lat $38. 56. 45$ = 9. 89083

" Sin Azimuth = 8. 48773

Azimuth $1. 45. 42$

Obs by Needle = $14. 54. 00$

EE. + A = 1. 45. 42

16. 39. 42 = Var

222nd mile.

May 10th 1873

Greatest Eastern Elongation

^{h.} ^{m.}
3. 55 Am.

Log Cos D $88. 37. 47$ = 8. 37875

" " L $38. 50. 20$ = 9. 83149

" Sin A = 8. 54726

A $1. 45. 35. 2$

Obs by N = $15. 33. 00$

EE. + A = 1. 45. 35. 2

17. 18. 35. 2 = Var