a = 718 chs. × 0.65165 = 7′ 47″.9

Colatitude = 90° − 49° 43′ 19″ = 40° 16′ 41

s = 40° 16′ 41″ + $\frac{7′\ 47″.9}{2}$ = 40° 20′ 35″

$s - a$ = 40° 12′ 47

Log. sin. $(s-a)$ 9.8099851

Log. sin. s 9.8111477

2)9.9988374

Log. tan. $\frac{1}{2}$ Az. 9.9994187

$\frac{1}{2}$ ch. Az. = 44° 57′ 42

2

Ch. Az. 89° 55′ 24 from the N.

90° 0′ 0

$\frac{1}{2}$ Convergence 4. 36

Similarly the half convergence for townships laid out on the south side of Niven's 2nd Base line is equal to 4′ 40″ and the length of the southern boundaries of the Townships is 7 21 91 links the latitude being 49° 27′ 41″.