



Water Tank - Peterfield Point.

Lat. ϕ $34^{\circ} 43' 09.467''$ Long. λ $77^{\circ} 26' 34.771''$

R (for min. of ϕ) $29,831,806.25$

y' (for min. of ϕ) = $351,805.00$

Corr. (for sec. of ϕ) = $\frac{957.08}{-}$

Corr. (for sec. of ϕ) = $\frac{+ 957.08}{-}$

$R = 29,830,849.17$

$y' = 352,762.08$

$y'' = \frac{3669.20}{-}$

True North $356,431.28$ ✓

θ (for min. of λ) = $00^{\circ} 54' 15.2431$

Corr. (for sec. of λ) = $\frac{20.0688}{-}$

$\theta = 00^{\circ} 53' 55.1743''$

$\frac{\theta}{2} = 00^{\circ} 26' 57.5871''$

$\theta'' = 3235.1743''$

Log $\theta'' = 3.50989775$

Log $\theta'' = 3.50989765$

S for $\theta = \frac{4.68555705}{-}$

Colog 2 = 9.69897000

Log Sin. $\theta = 8.19545477$

S for $\frac{\theta}{2} = \frac{4.685557040}{-}$

Log $R = \frac{7.4746656}{-}$

7.89443805

Log $X' = 5.6701203$

Log Sin $\frac{\theta}{2} = 5.7888761$

$X = 467864.73$

Log $R = 7.4746656$

+ 2,000,000 = $2,467,864.73$

Log 2 = $\frac{0.3010300}{-}$

Log $y'' = 3.5645717$

$y' = 3669.20$

