Appendix 7.0 Photogrammetry

Appendix 8.0

CONVERSION OF CYPRUS-ANVIL DIAMOND DRILL HOLE COORDINATES TO TERRITORIAL PLANE COORDINATES AND INVERSE - FARO AREA, Y. T.

Diamond Drill Hole Grid Bearings

$+ 0^{\circ}\ 27'\ 57''$

Territorial Plane Coordinate Grid Bearings

Territorial Plane Coordinate Grid Bearings

$- 0^{\circ}\ 27'\ 57''$

Diamond Drill Hole Grid Bearings

Diamond Drill Hole to Territorial Plane Grid

$$^{x}_{TPCS} = 22{,}684{,}148.39 + (^{x}_{DDH} \cos \gamma) + (^{y}_{DDH} \sin \gamma)$$

$$^{y}_{TPCS} = 263{,}191.42 + (^{y}_{DDH} \cos \gamma) - (^{x}_{DDH} \sin \gamma)$$

Territorial Plane to Diamond Drill Hole Grid

$$^{x}_{DDH} = -22{,}681{,}258.86 + (^{x}_{TPCS} \cos \gamma) - (^{y}_{TPCS} \sin \gamma)$$

$$^{y}_{DDH} = -447{,}610.19 + (^{y}_{TPCS} \cos \gamma) + (^{x}_{TPCS} \sin \gamma)$$

Where $^{x}_{TPCS}$ = TPCS northings of point

$^{y}_{TPCS}$ = TPCS eastings of point

$^{x}_{DDH}$ = DDH northings of point

$^{y}_{DDH}$ = DDH eastings of point

γ = $0^{\circ}\ 27'\ 57''$ angle of convergence between two grid systems

$\cos \gamma = 0.999966949$

$\sin \gamma = 0.008130236$

Note: Above formulas deduced from information at VG19 and VG16. Because of scale factor and sea level distances used in Territorial Plane Coordinate System the above formulas can be used to provide relative but not exact absolute values in the Faro Mine area, Y. T.

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