

# Worksheet # 1

## Soil Resistivity Made Easy

Where  $\rho$  (rho) =  $2\pi AR$

$$\rho = 6.28 \times A \text{ (305cm)} \times R \text{ (Instrument Display)}$$

$$\rho = 191.5 \times A \text{ (10 ft)} \times R \text{ (Instrument Display)}$$

$$\rho = 1,915 \times R \text{ (_____)} \text{ "X" Axis}$$

$$\rho = \text{_____} \Omega\text{cm}$$

$$\rho = 1,915 \times R \text{ (_____)} \text{ "Y" Axis}$$

Average 10ft  $\rho$  \_\_\_\_\_  $\Omega$ -cm

$$\rho = \text{_____} \Omega\text{cm}$$

$$\rho = 191.5 \times A \text{ (20 ft)} \times R \text{ (Instrument Display)}$$

$$\rho = 3,830 \times R \text{ (_____)} \text{ "X" Axis}$$

$$\rho = \text{_____} \Omega\text{cm}$$

$$\rho = 3,830 \times R \text{ (_____)} \text{ "Y" Axis}$$

Average 20ft  $\rho$  \_\_\_\_\_  $\Omega$ -cm

$$\rho = \text{_____} \Omega\text{cm}$$

Note: 6 in = 1/20 of 10 feet