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L A M P I R A N

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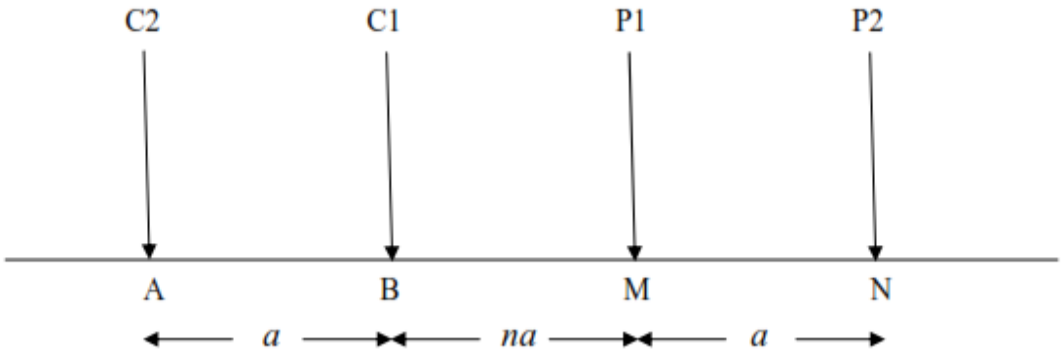
Lampiran 1

Konfigurasi Dipole-Dipole



Dimana:

C_1 dan C_2: Elektroda Arus

P_1 dan P_2: Elektroda Potensial

$C_1C_2 = P_1P_2 = a$ (dalam satuan meter)

$r_1 = C_1P_1 = na$

$r_2 = C_2P_1 = a + na$

$r_3 = C_1P_2 = a + na$

$r_4 = C_2P_2 = 2a + na$

$$K = 2\pi \left[\frac{1}{r_1} - \frac{1}{r_2} - \frac{1}{r_3} + \frac{1}{r_4}\right]^{-1}$$

$$= \left(\frac{1}{r_1} - \frac{1}{r_2}\right) - \left(\frac{1}{r_3} - \frac{1}{r_4}\right)$$

$$= \left(\frac{1}{na} - \frac{1}{a+na}\right) - \left(\frac{1}{a+na} - \frac{1}{2a+na}\right)$$

$$= \left(\frac{(a+na)-na}{na(a+na)} - \frac{(na+2a)-(a+na)}{(a+na)(na+2a)}\right)$$

$$\frac{a}{+(a+na)} - \frac{a}{(a+na)(na+2a)}\Big)$$

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$$= \left(\frac{a}{na^2 + (na)^2} - \frac{a}{na^2 + 2a^2 + (na)^2 + 2na^2}\right)$$

$$= \left(\frac{a}{a^2 + (n + n^2)} - \frac{a}{3na^2 + 2a^2 + (na)^2}\right)$$

$$= \left(\frac{a}{a^2 + (n + n^2)} - \frac{a}{a^2(3n + 2 + n^2)}\right)$$

$$= \frac{1}{a(n + n^2)} - \frac{1}{a(3n + 2 + n^2)}$$

$$= \frac{1}{a}\left(\frac{1}{(n^2 + n)} - \frac{1}{(n^2 + 3n + 2)}\right)$$

$$= 2\pi \frac{1}{\frac{1}{a}\left(\frac{1}{(n^2 + n)} - \frac{1}{(n^2 + 3n + 2)}\right)}$$

$$= 2\pi a\left(\frac{1}{(n^2 + n)} - \frac{1}{(n^2 + 3n + 2)}\right)$$

$$K = 2\pi a \frac{(n^2 + 3n + 2) - (n^2 + n)}{(n^4 + 3n^3 + 2n^2 + n^3 + 3n^2 + 2n)}$$

$$= \frac{2n + 2}{n^4 + 4n^3 + 5n^2 + 2}$$

$$= \frac{2(n + 1)}{n(n^3 + 4n^2 + 5n + 2)}$$

$$K = 2\pi a \frac{n(n^3 + 4n^2 + 5n + 2)}{2(n + 1)}$$

$$= \pi an \frac{n^3 + 4n^2 + 5n + 2}{n + 1}$$

$$= \pi an \frac{(n^2 + 3n + 2)(n + 1)}{(n + 1)}$$

$$= \pi an(n^2 + 3n + 2)$$

$$\underline{\boldsymbol{K = \pi an(n + 2)(n + 1)}}$$

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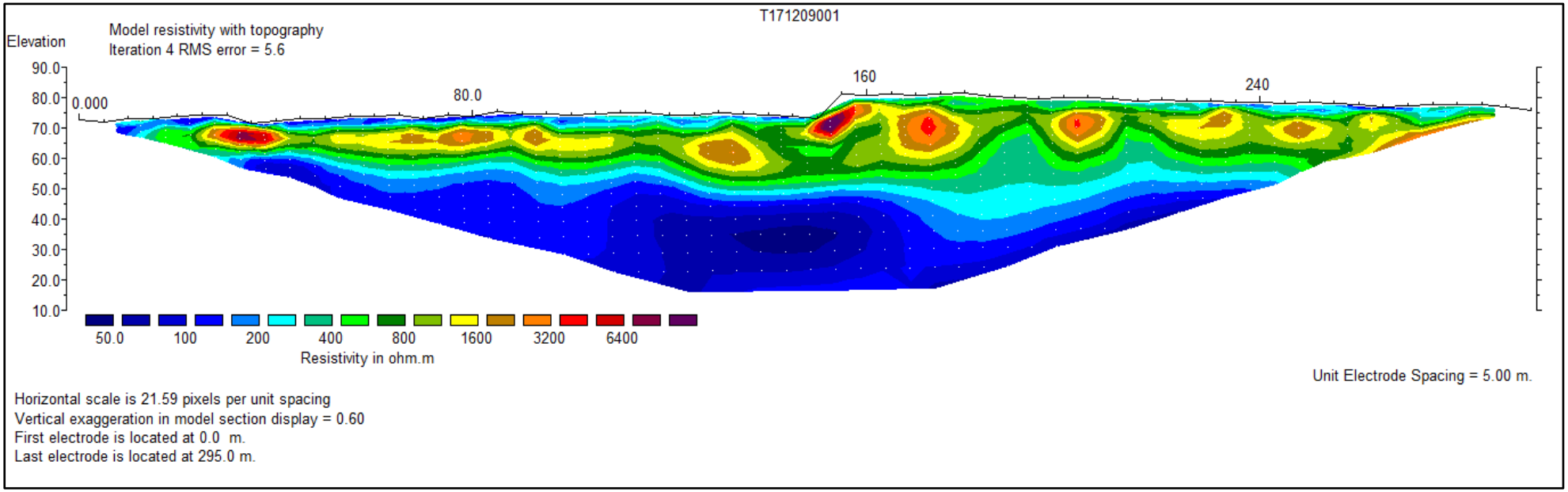
Lampiran 2

Hasil Inversi Res2Dinv

Lintasan 1



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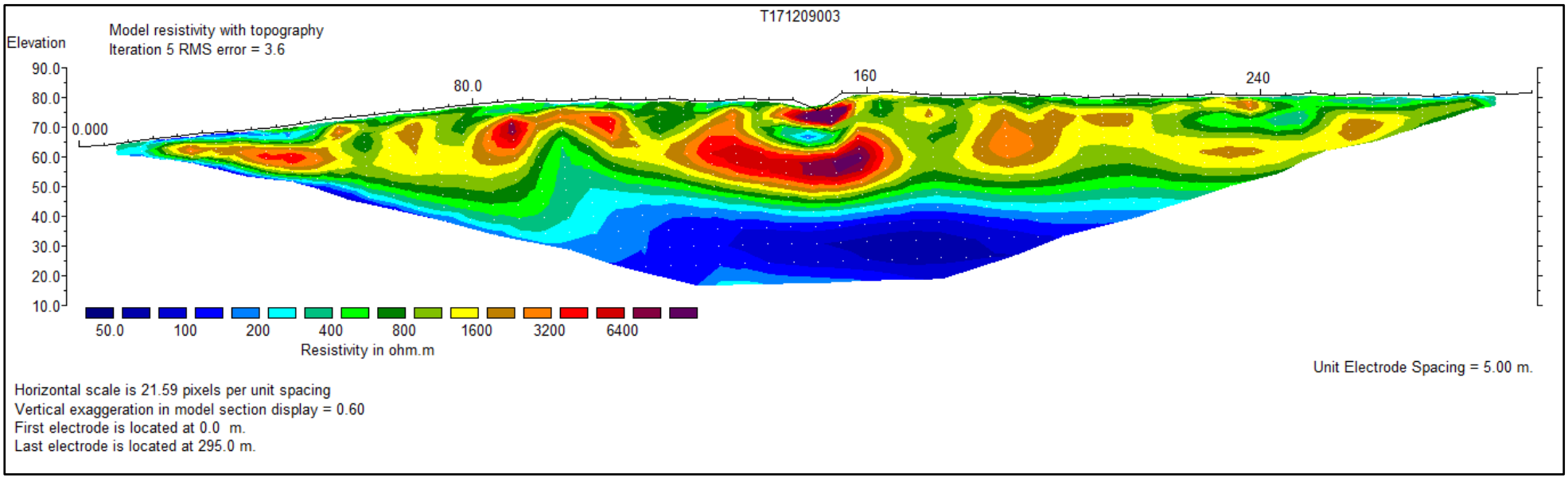
Lintasan 2



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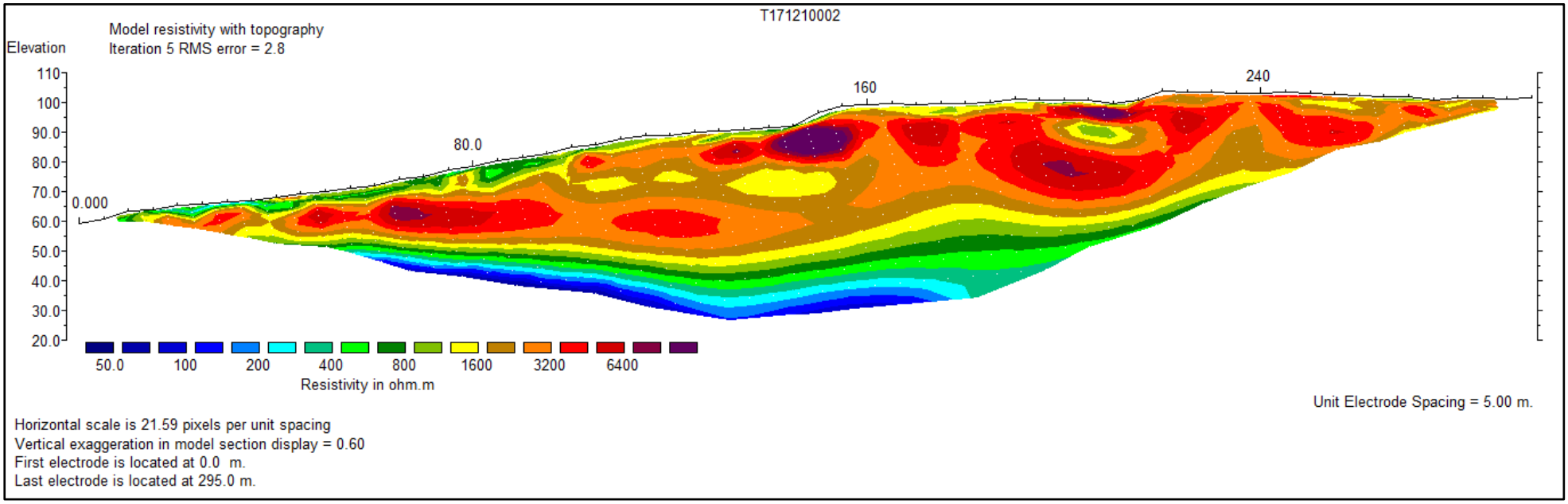
Lintasan 3



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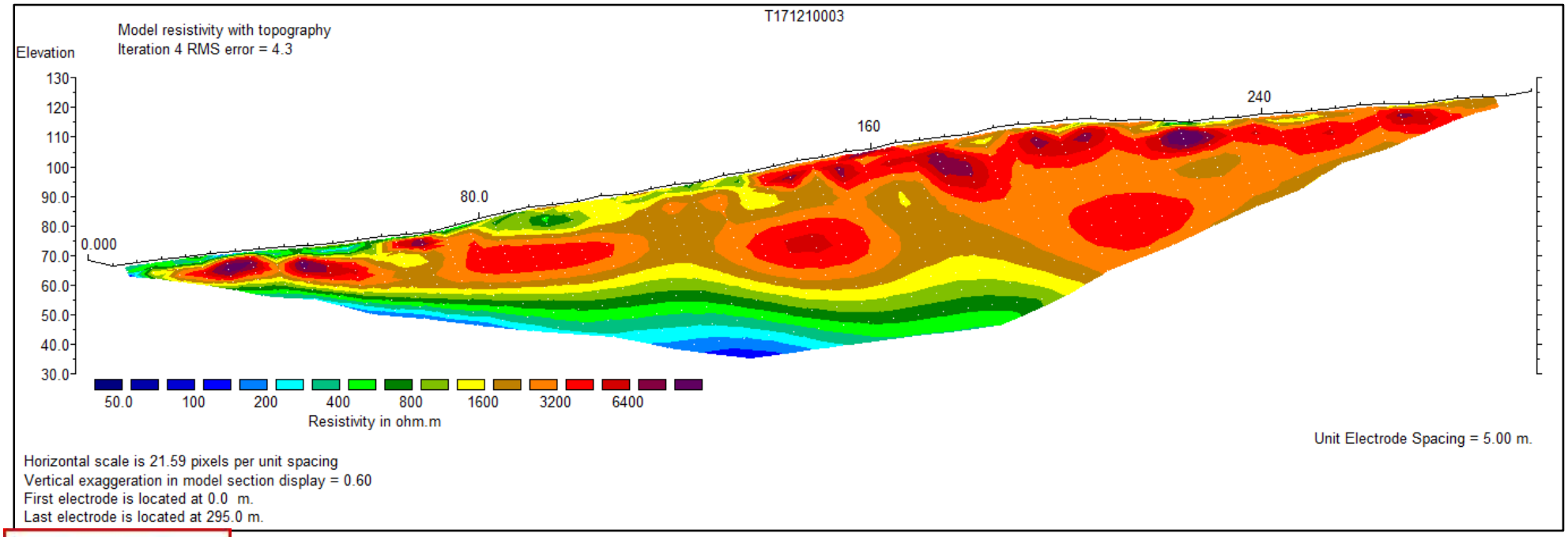
Lintasan 4



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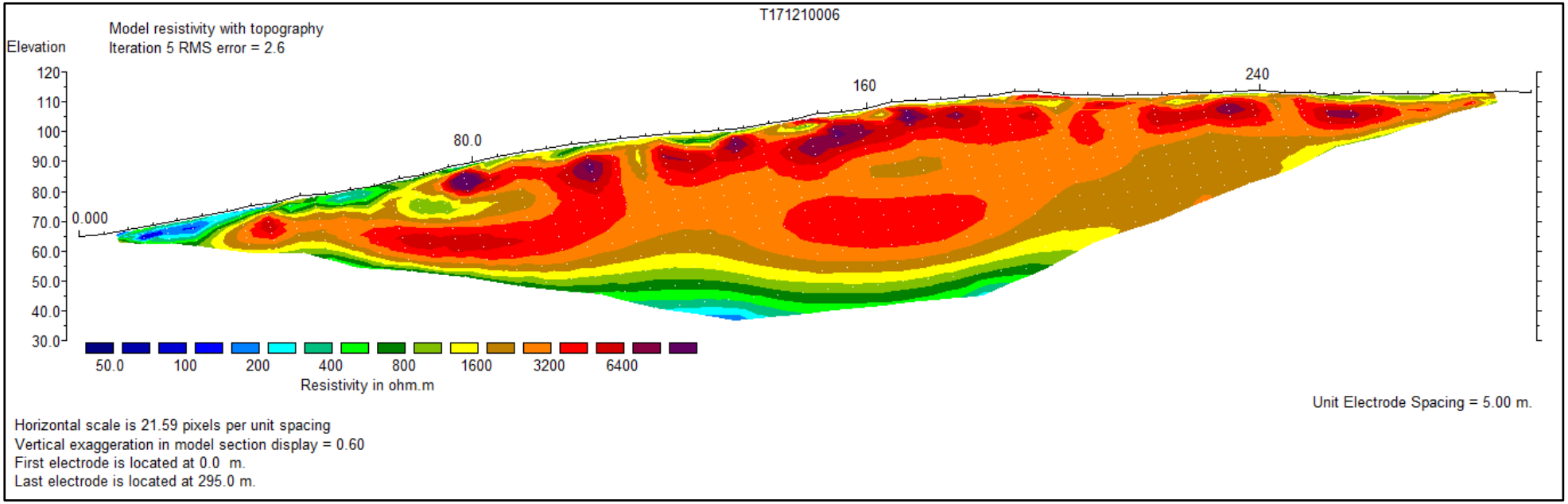
Lintasan 5



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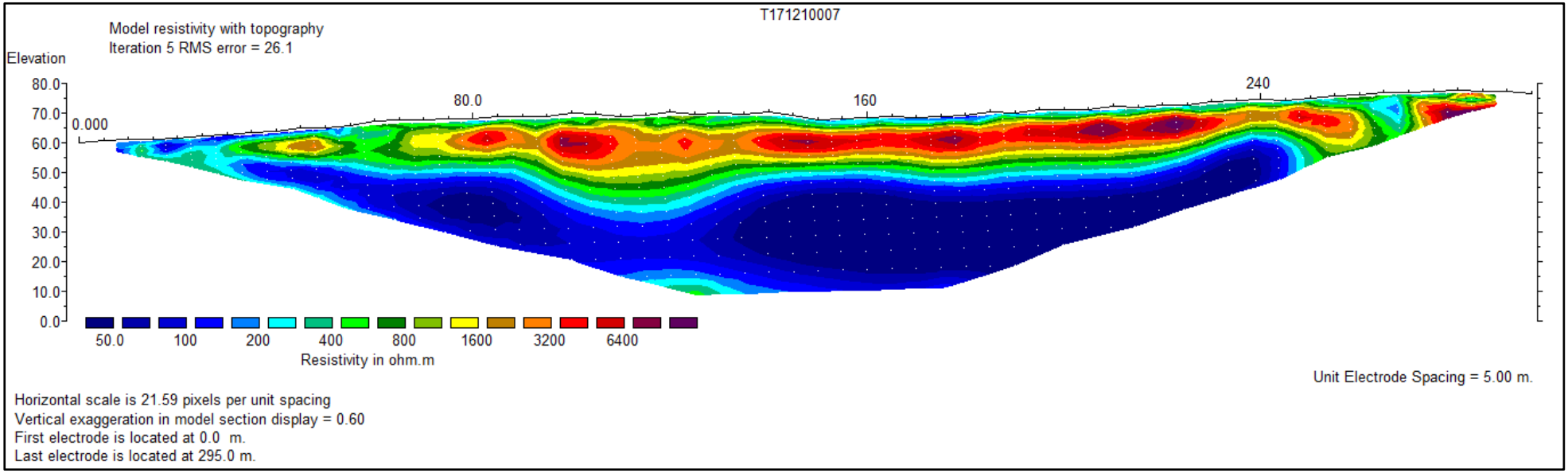
Lintasan 6



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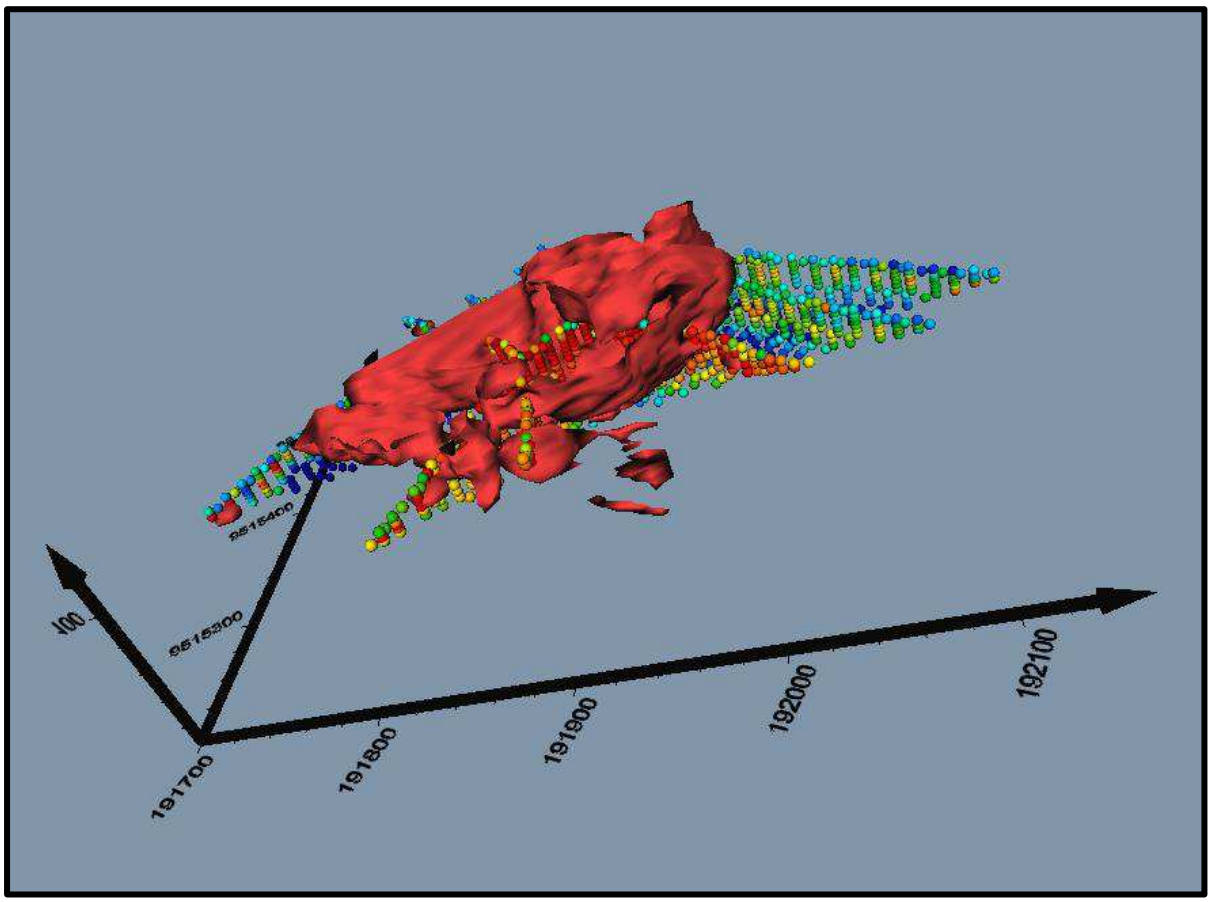
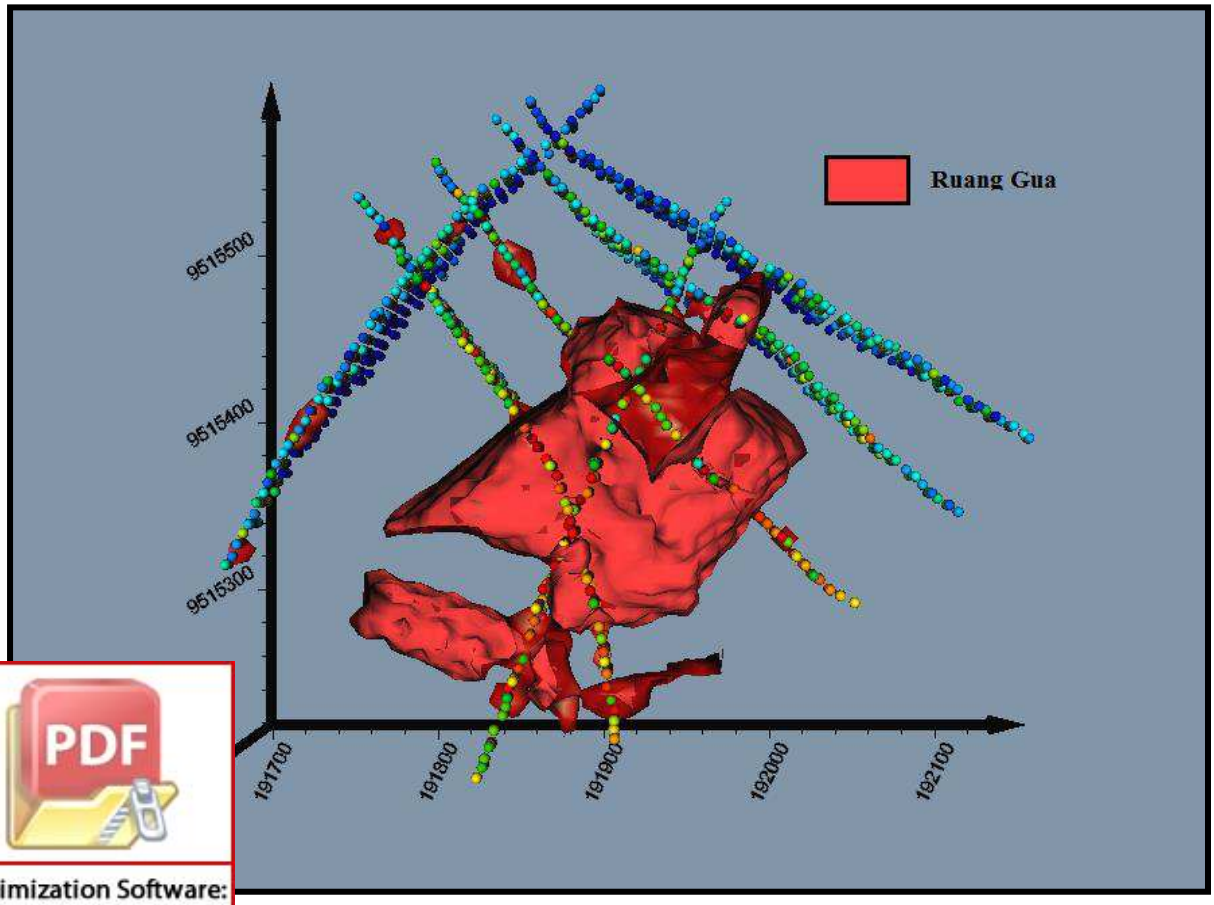
Lampiran 3

Hasil Permodelan 3D





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Lampiran 4

Lokasi Penelitian

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