1D Inversion Results of VTEM Survey Wahpeton Project, North Dakota

For

North Dakota State Water Commission (NDSWC)

Job# GL170349

Geotech Ltd , February , 6th 2018

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AIRBORNE GEOPHYSICAL SURVEYS

1D Inversion parameters and Results

The 1D inversion results are obtained with the 1D GALEI code (https://github.com/GeoscienceAustralia/ga-aem.git). The results are presented as 1D sections, depth slices and 3D voxel model.

The inversion parameters are :

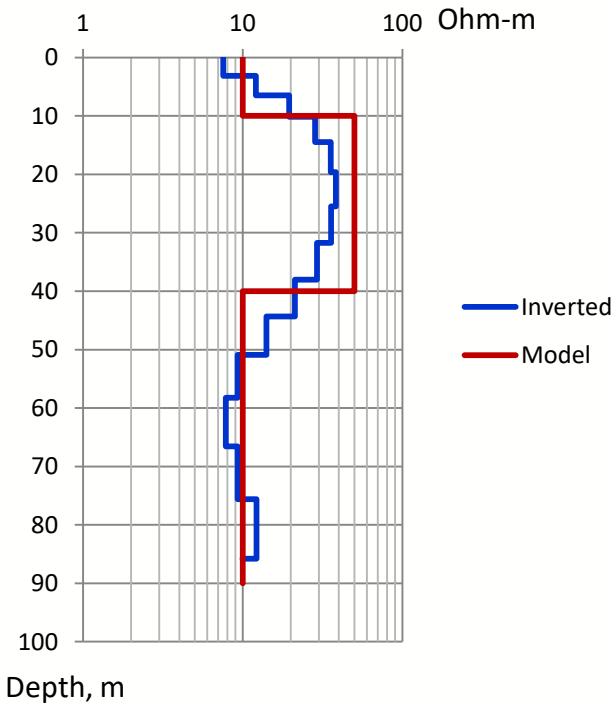
1. Unconstrained Smooth inversion style
2. Homogenous starting model composed of 33 layers (100 ohm-m)
3. Inversion noise= 3% + variable system noise

System Sensitivity

The system sensitivity to for layers detections is assessed through the Forward/inversion modeling results of a multi-layer earth model.

Forward/Inverse Modeling of synthetic models for VTEM system sensitivity

3-layer model



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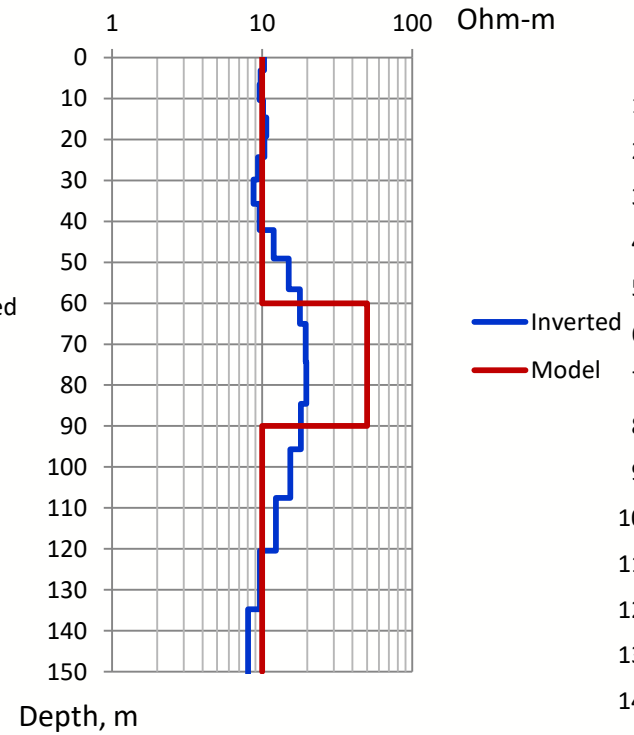
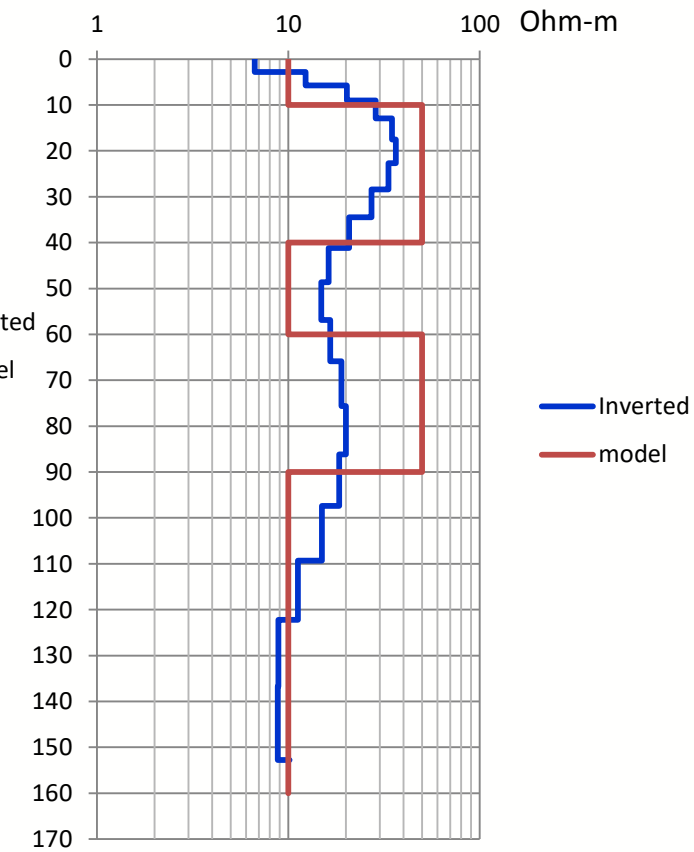
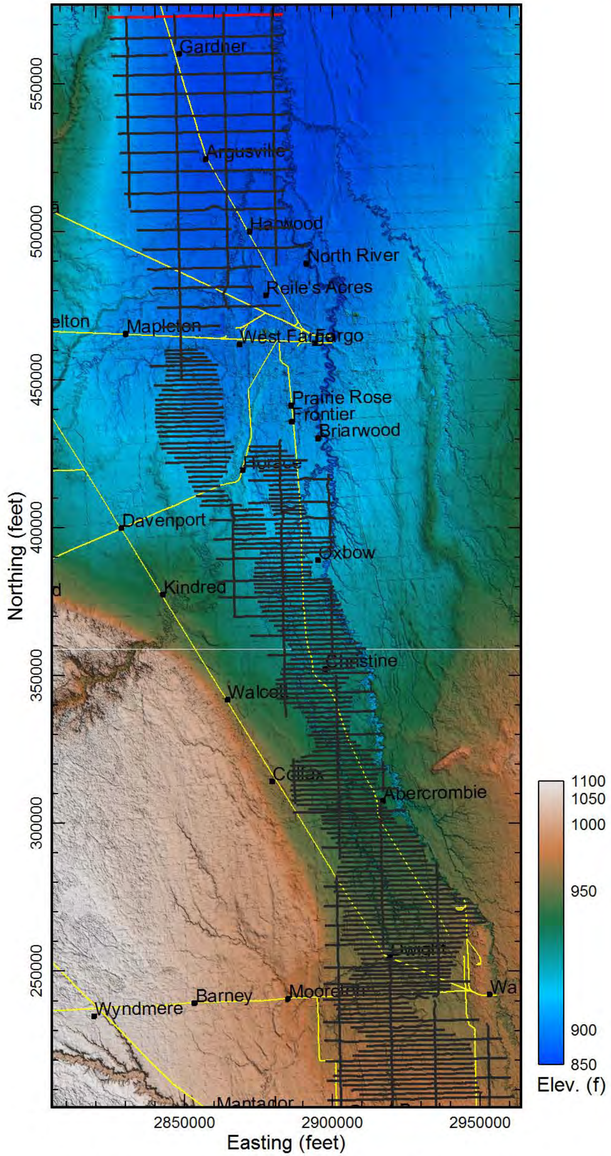


5-layer model



1D Resistivity Sections

1D Resistivity section plots including the dB/dt-z decays , PLM and 1D inversion results are presented for all survey lines. Coordinates and elevation units are in feet.



Map projection: NAD83 SPN Dakota South (int. feet)

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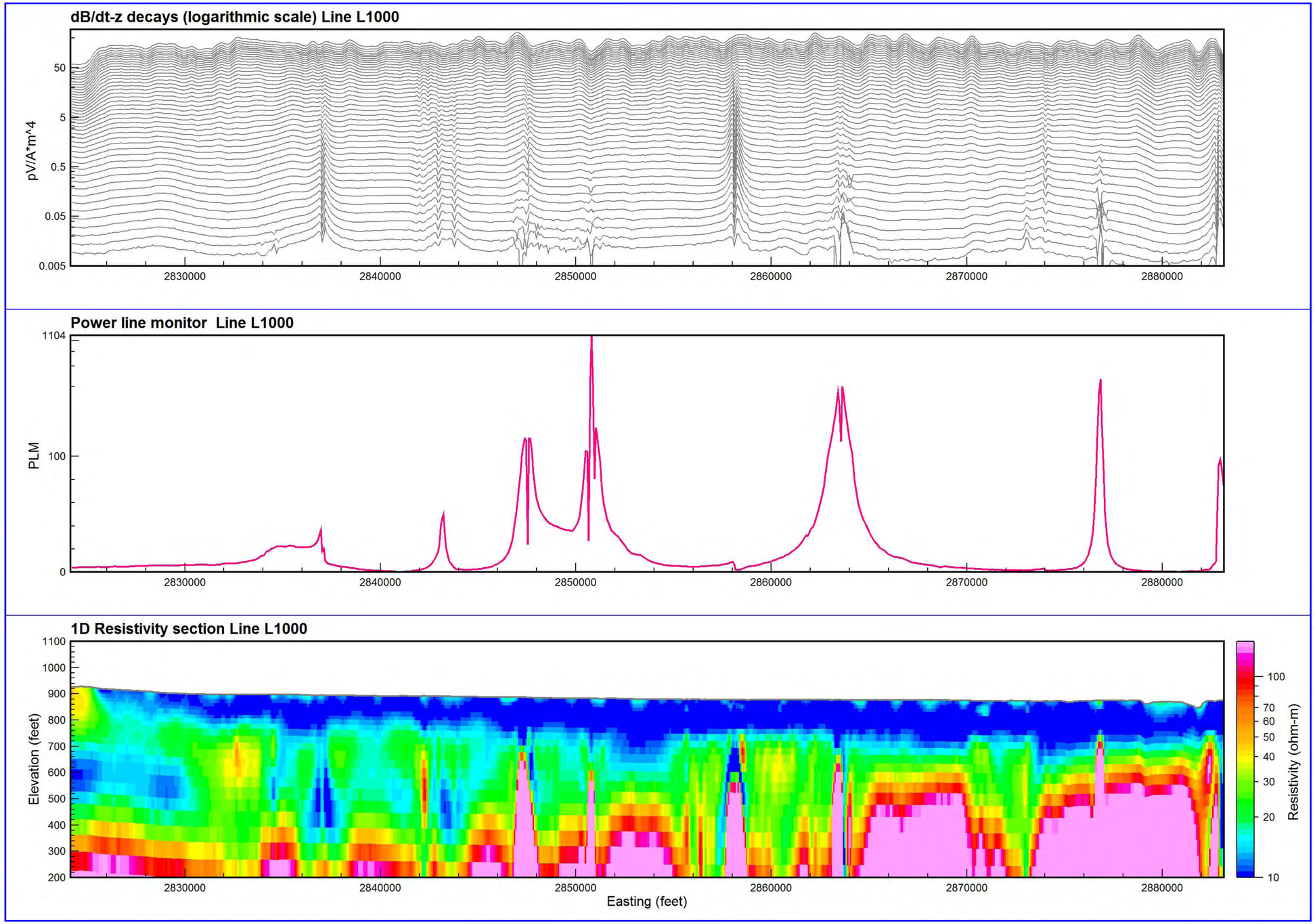

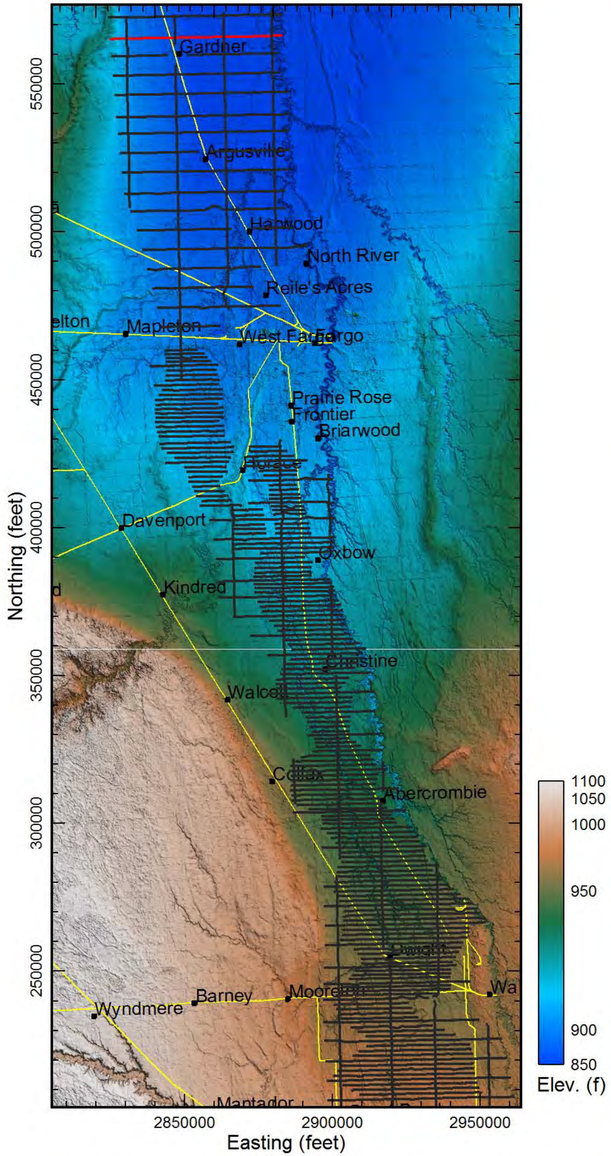

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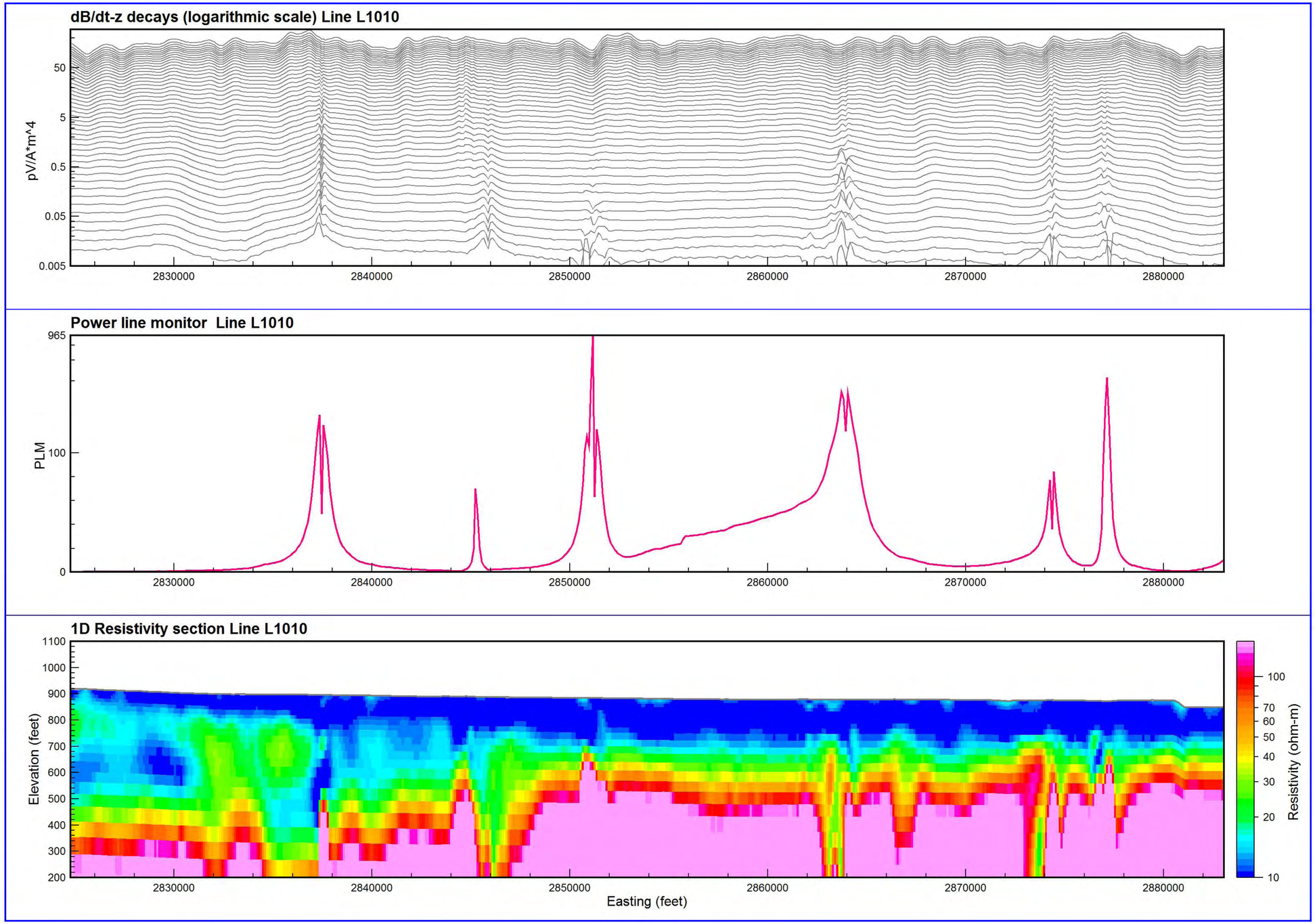

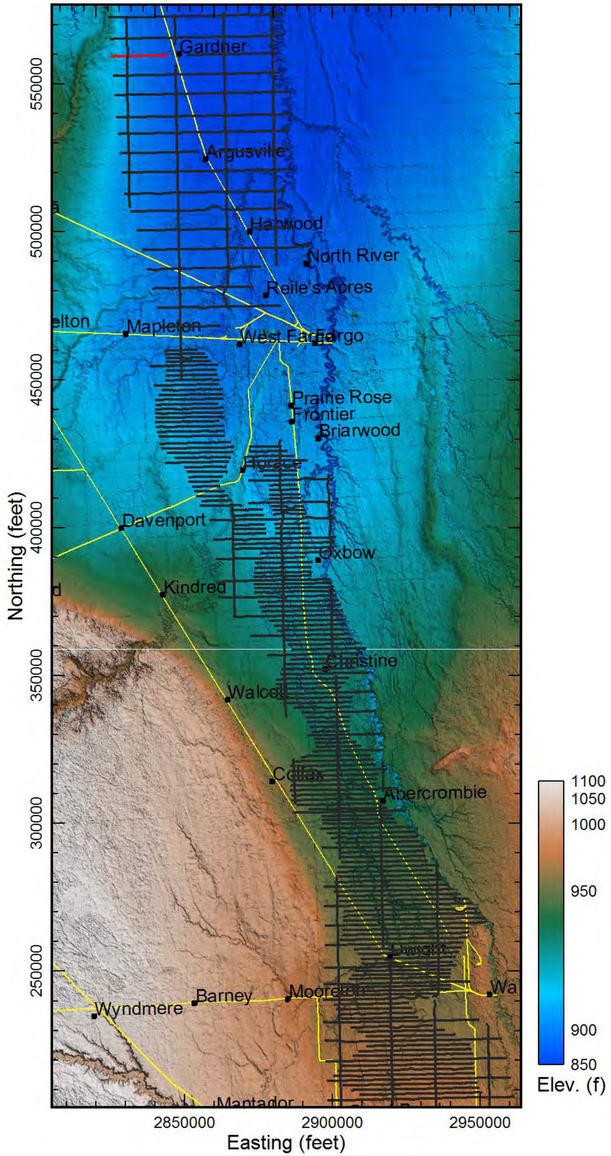

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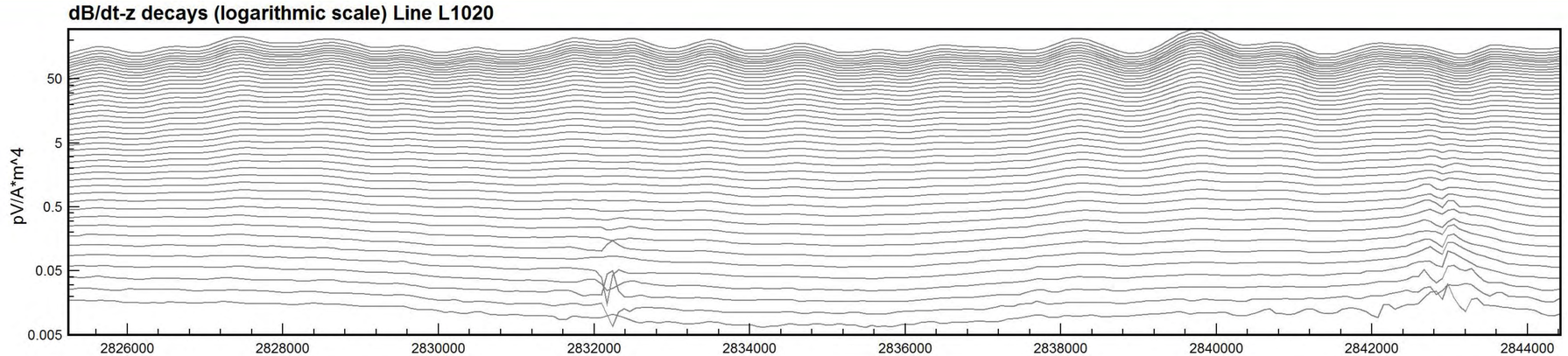

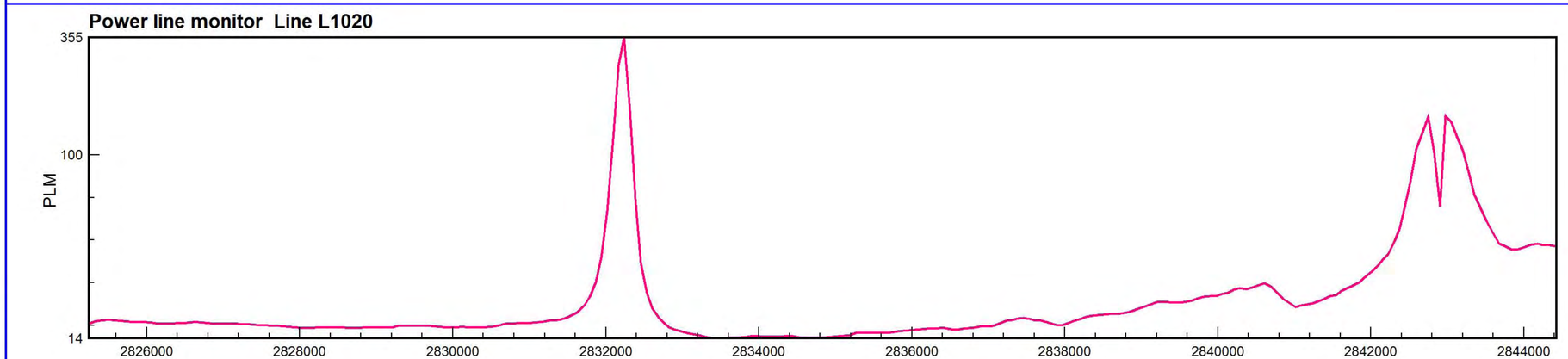

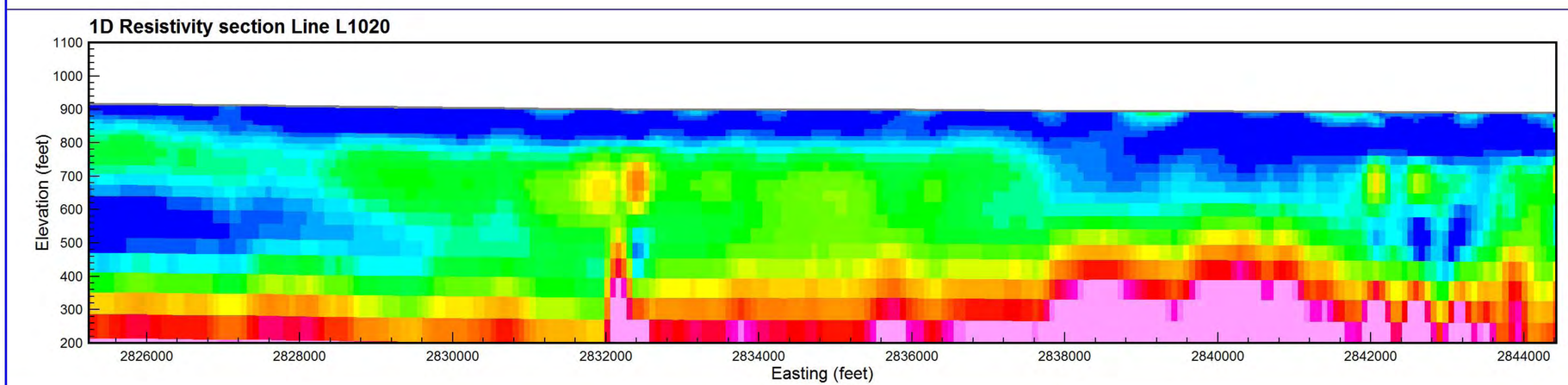

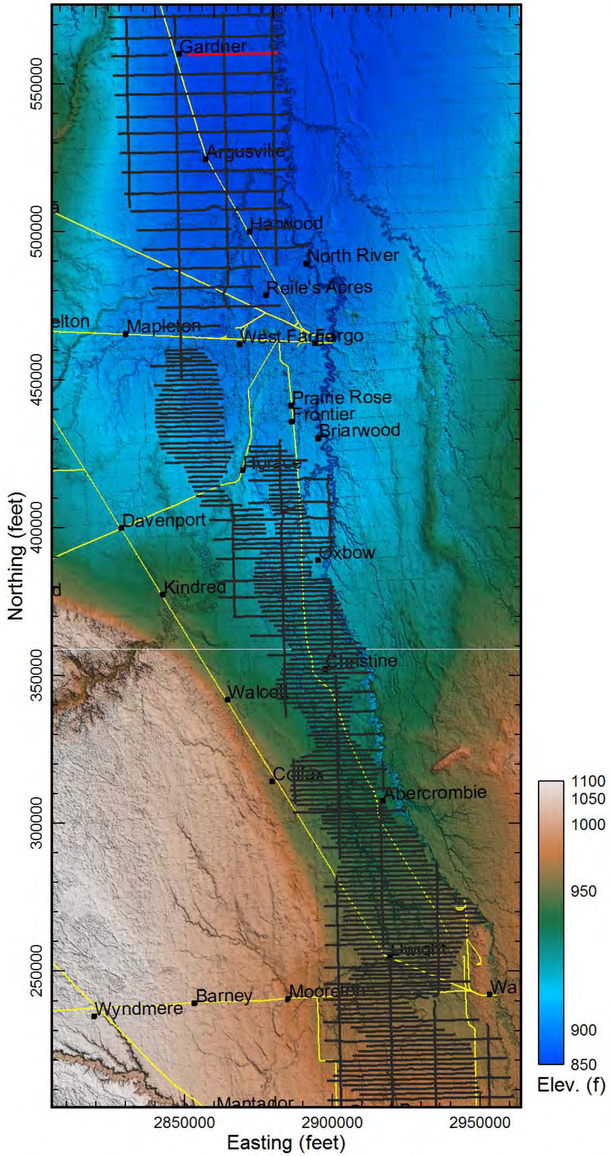

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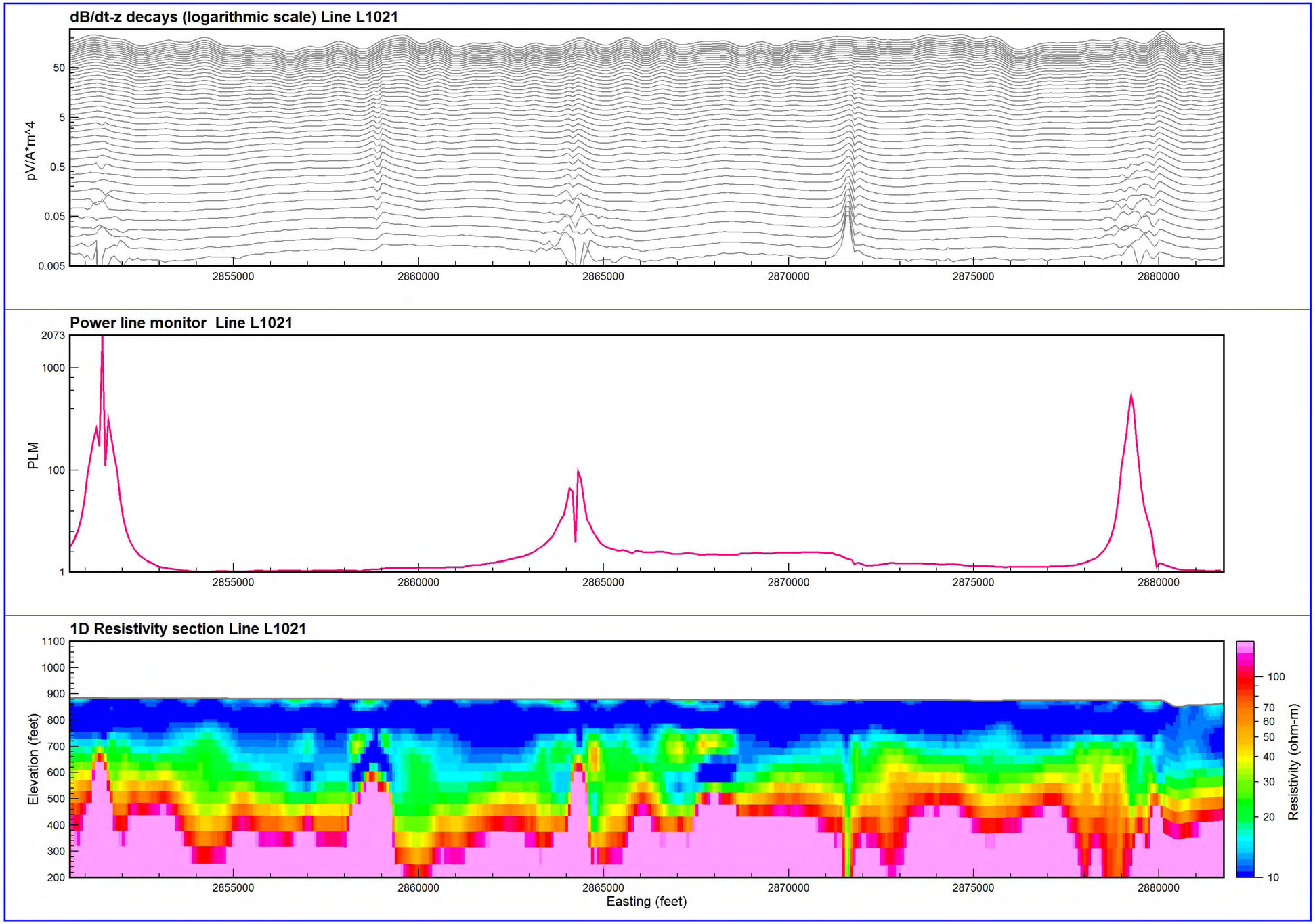

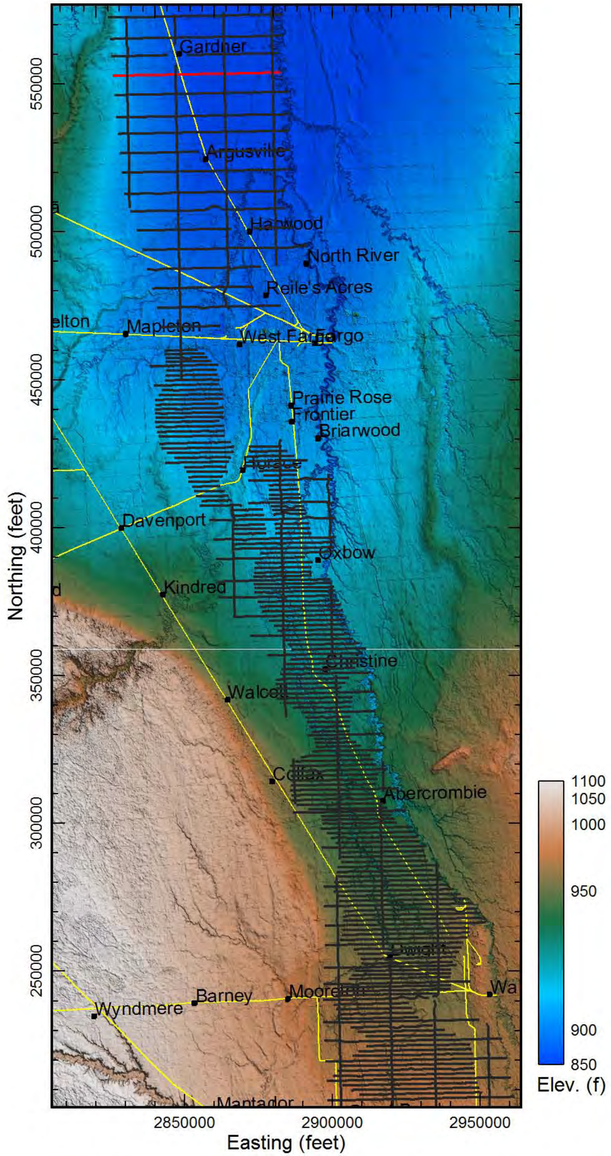

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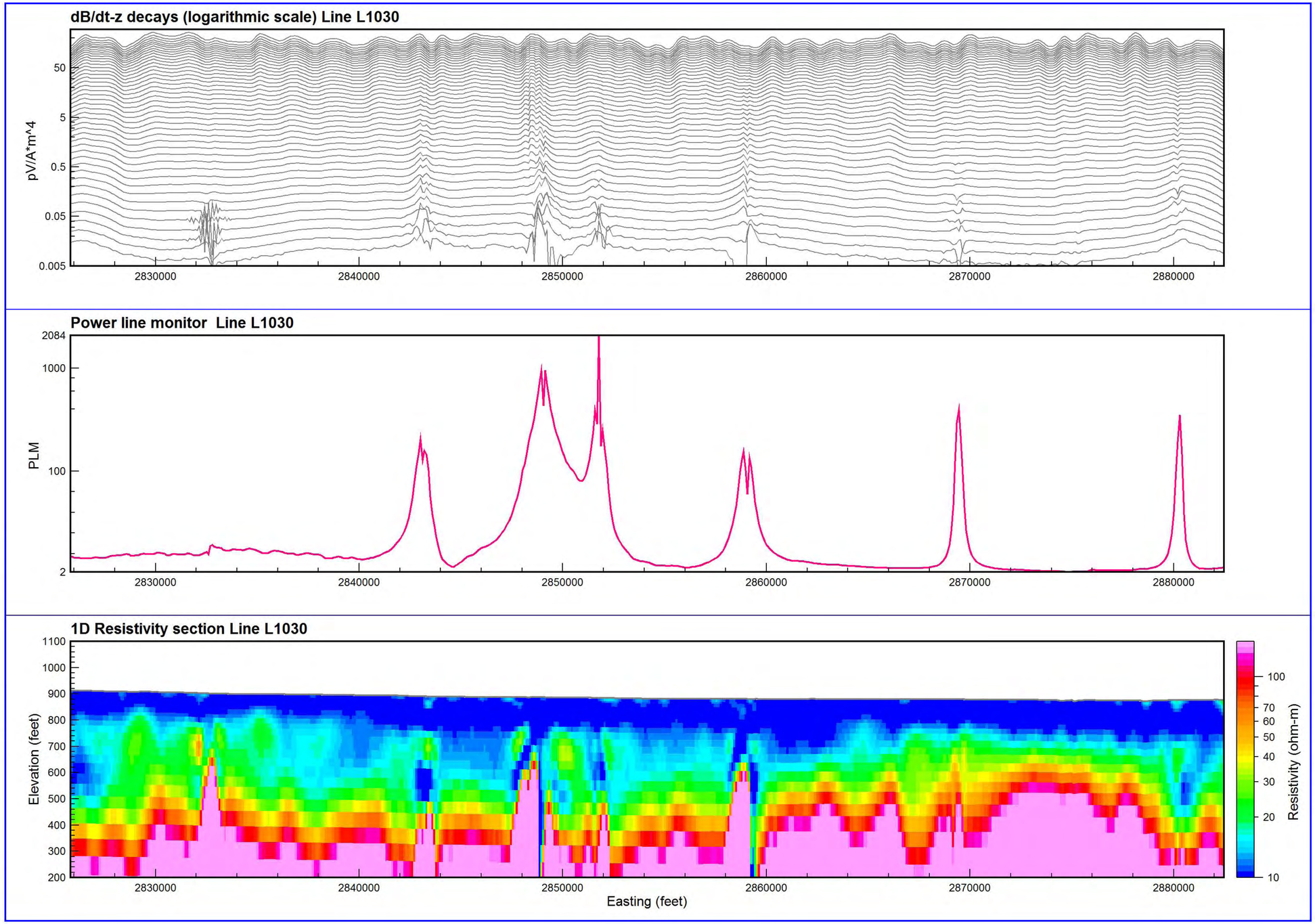

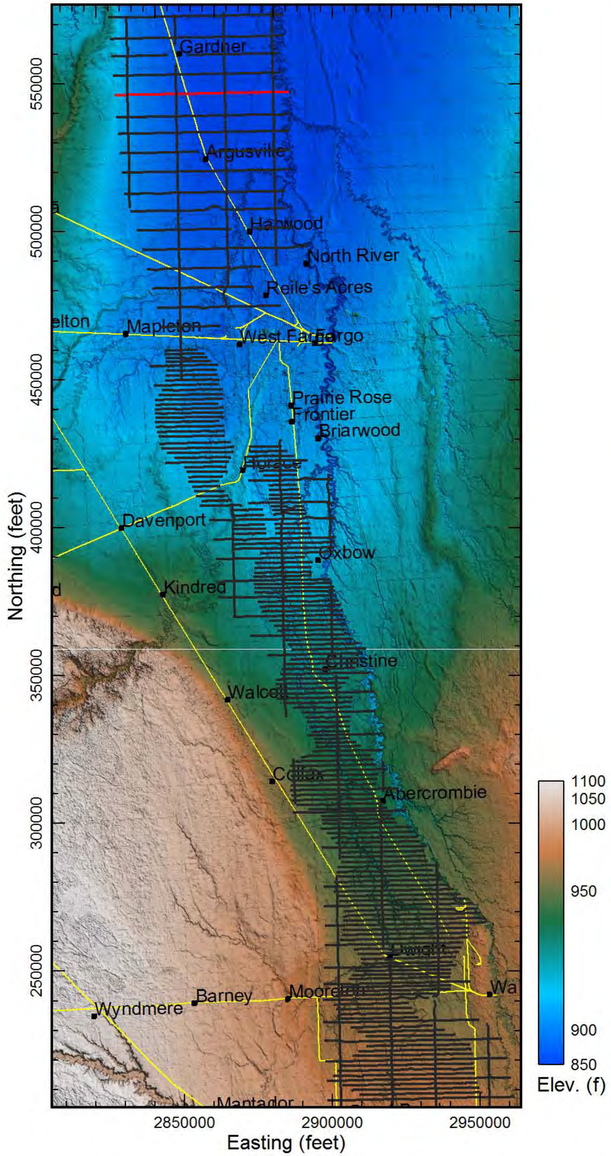

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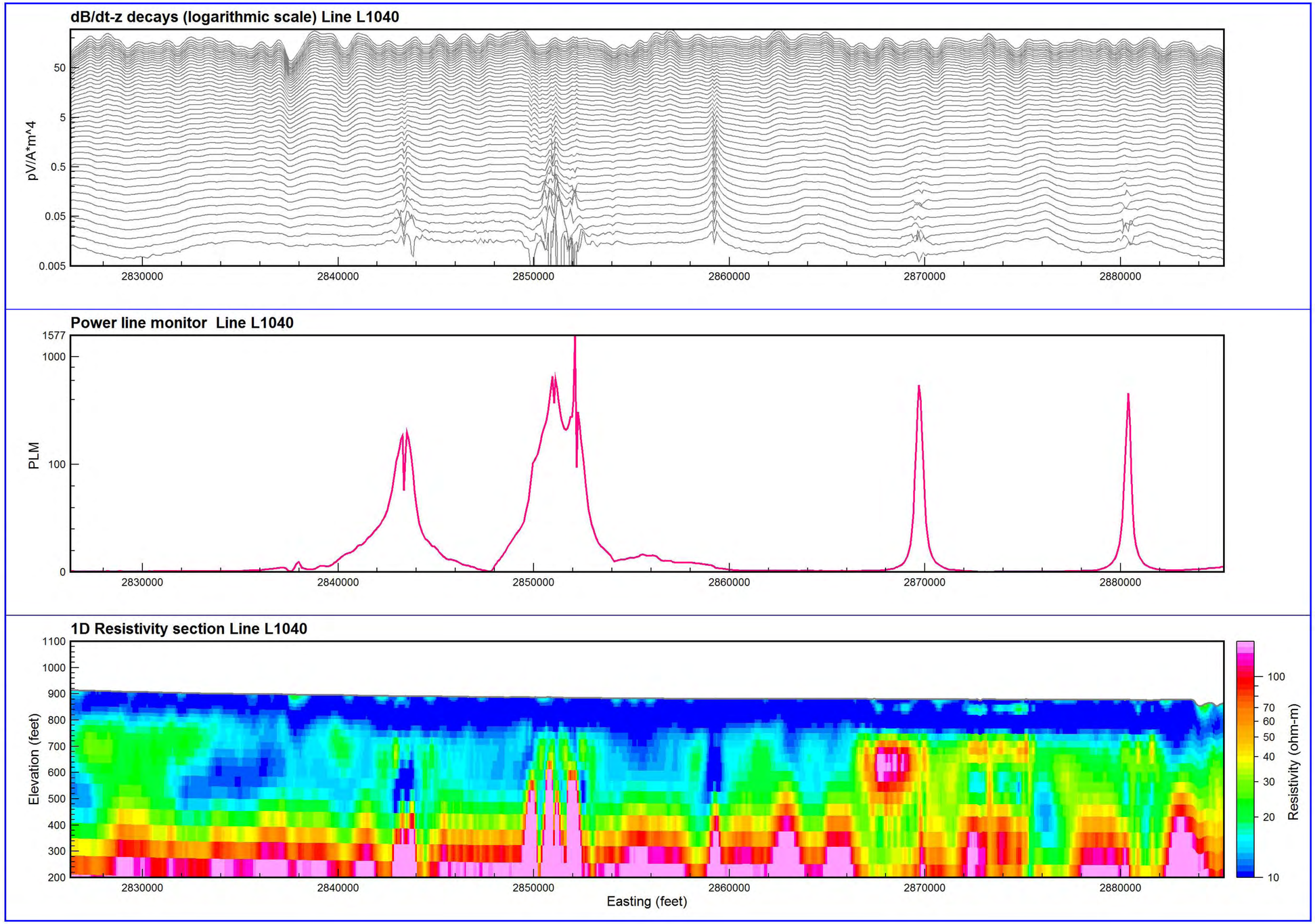

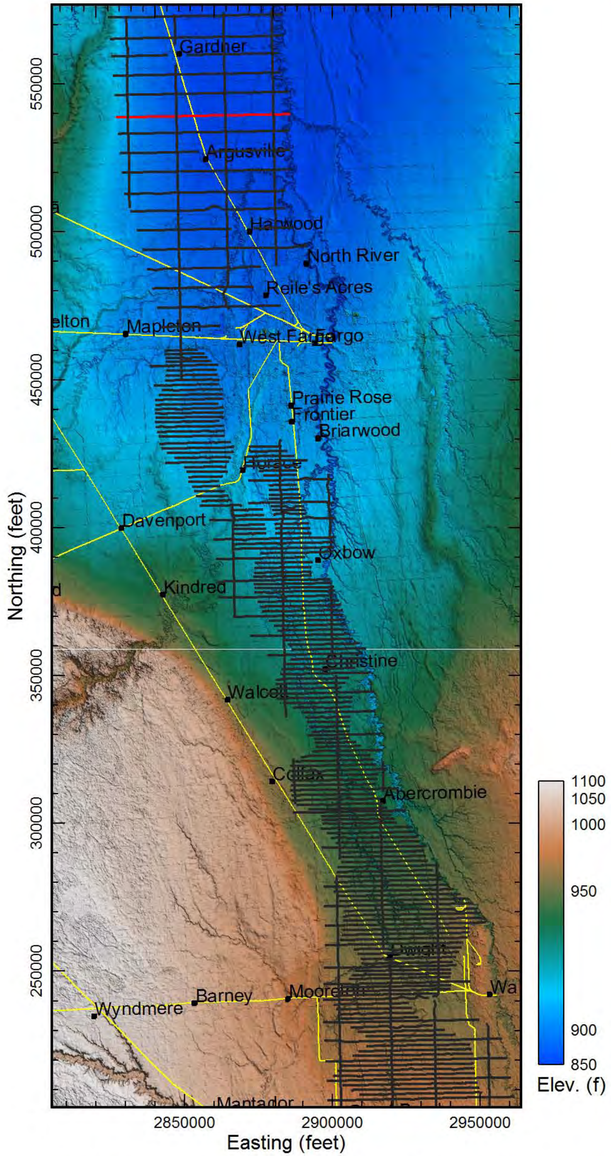

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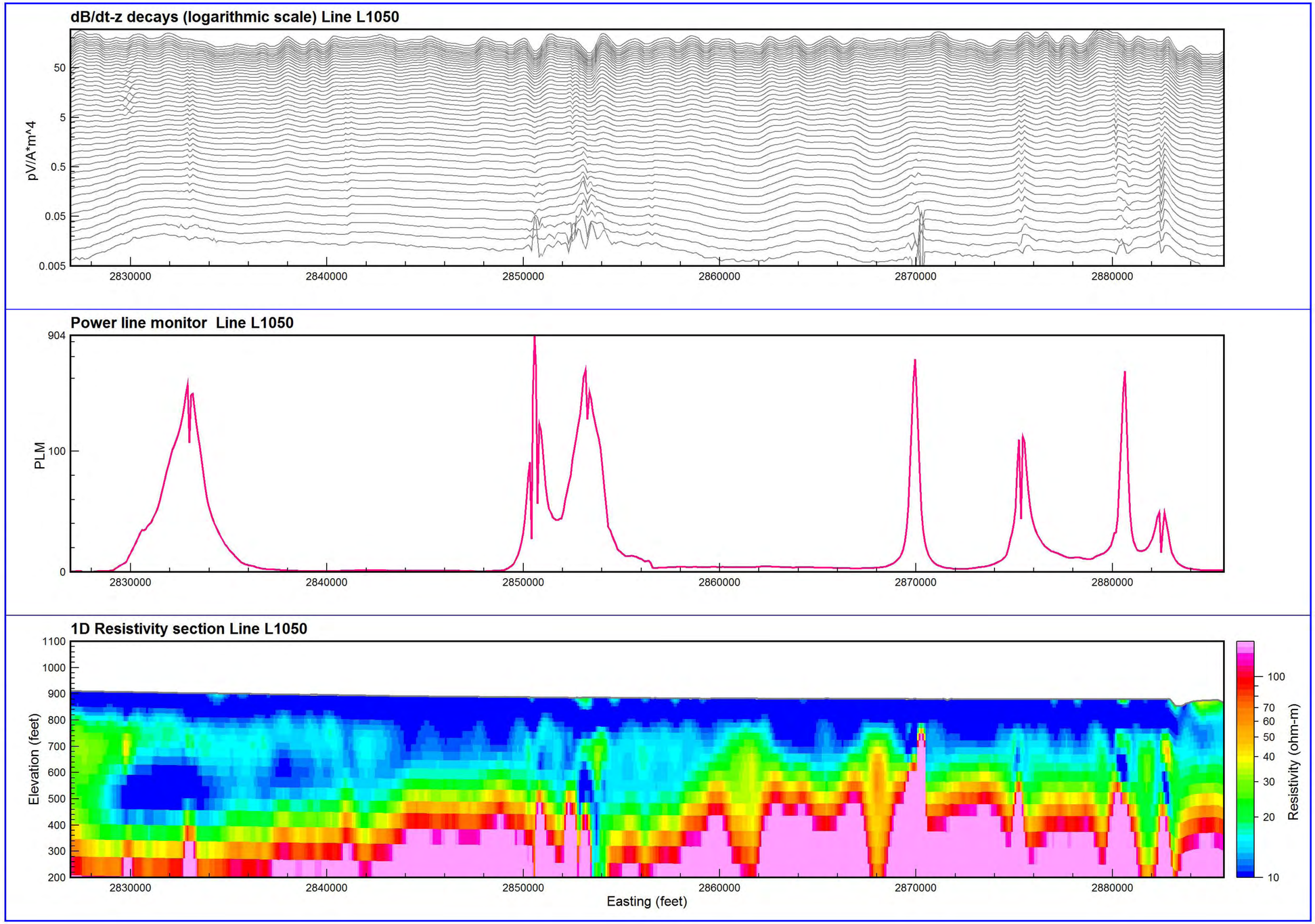

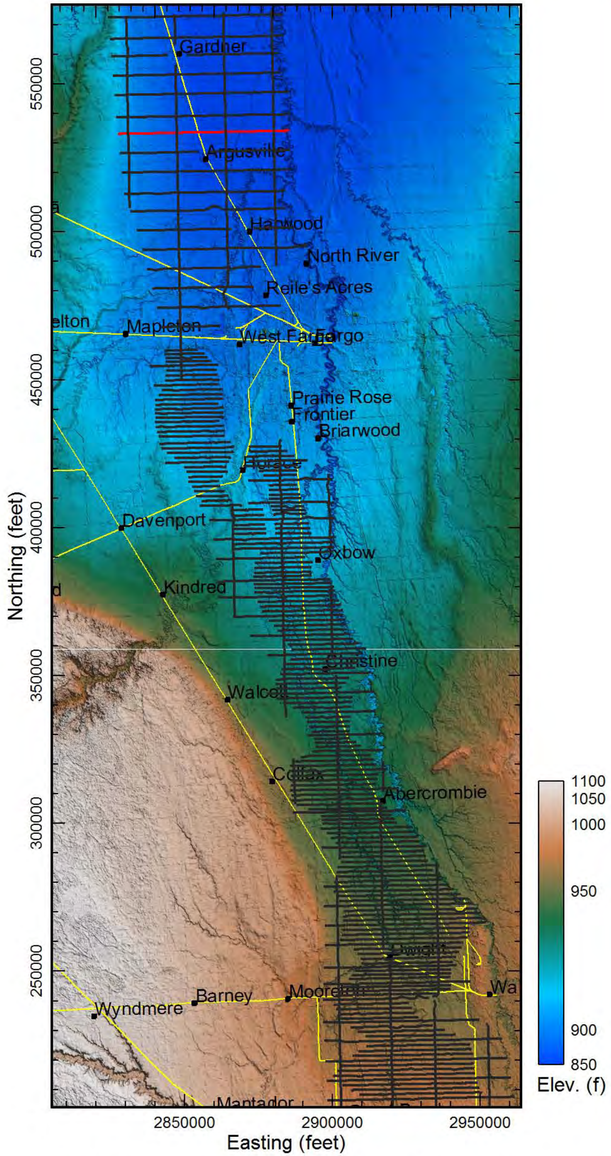

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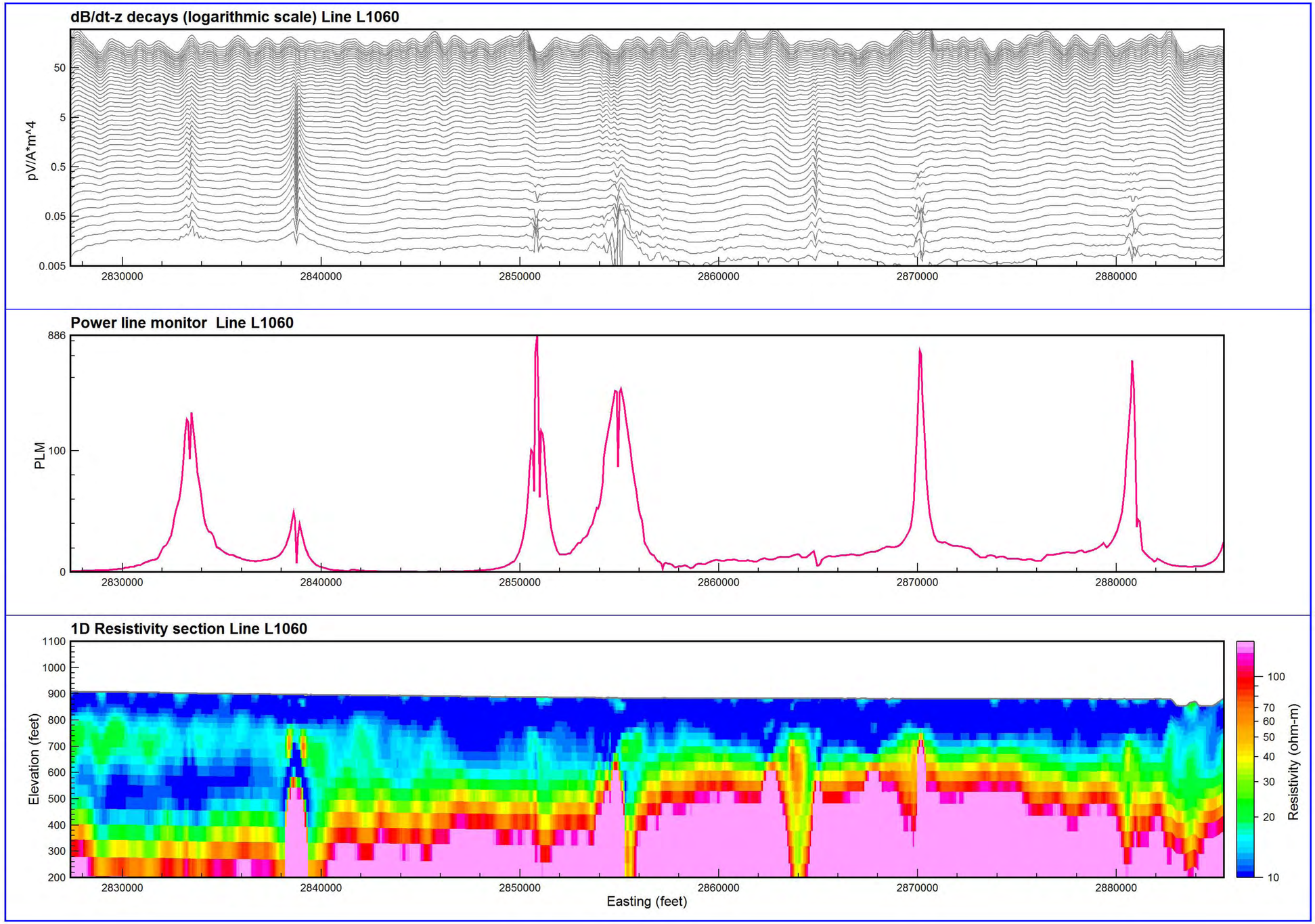

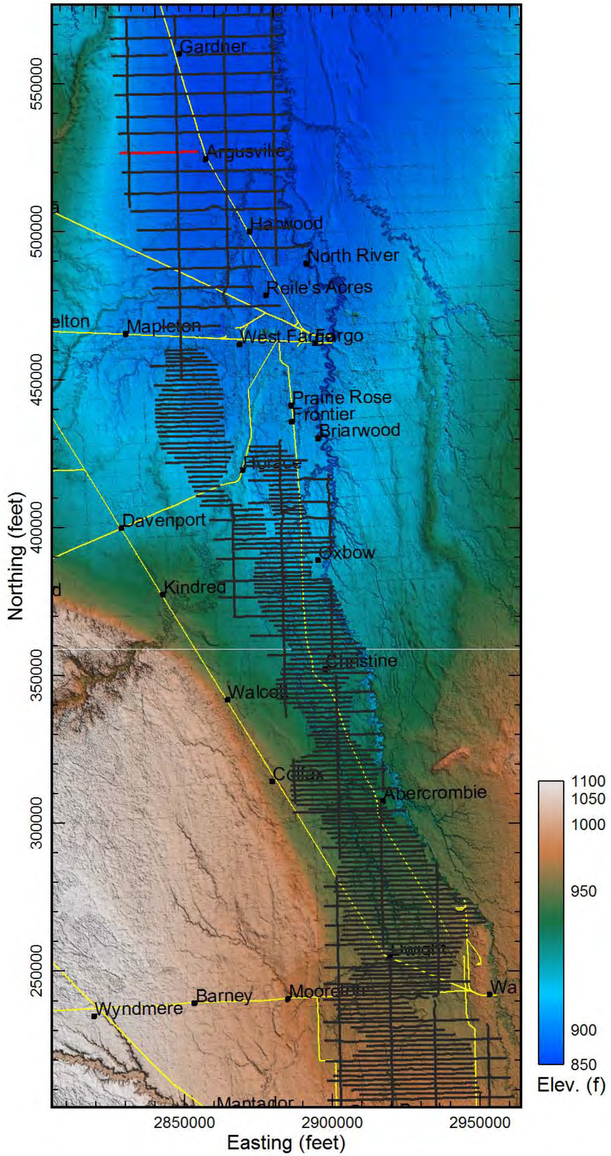

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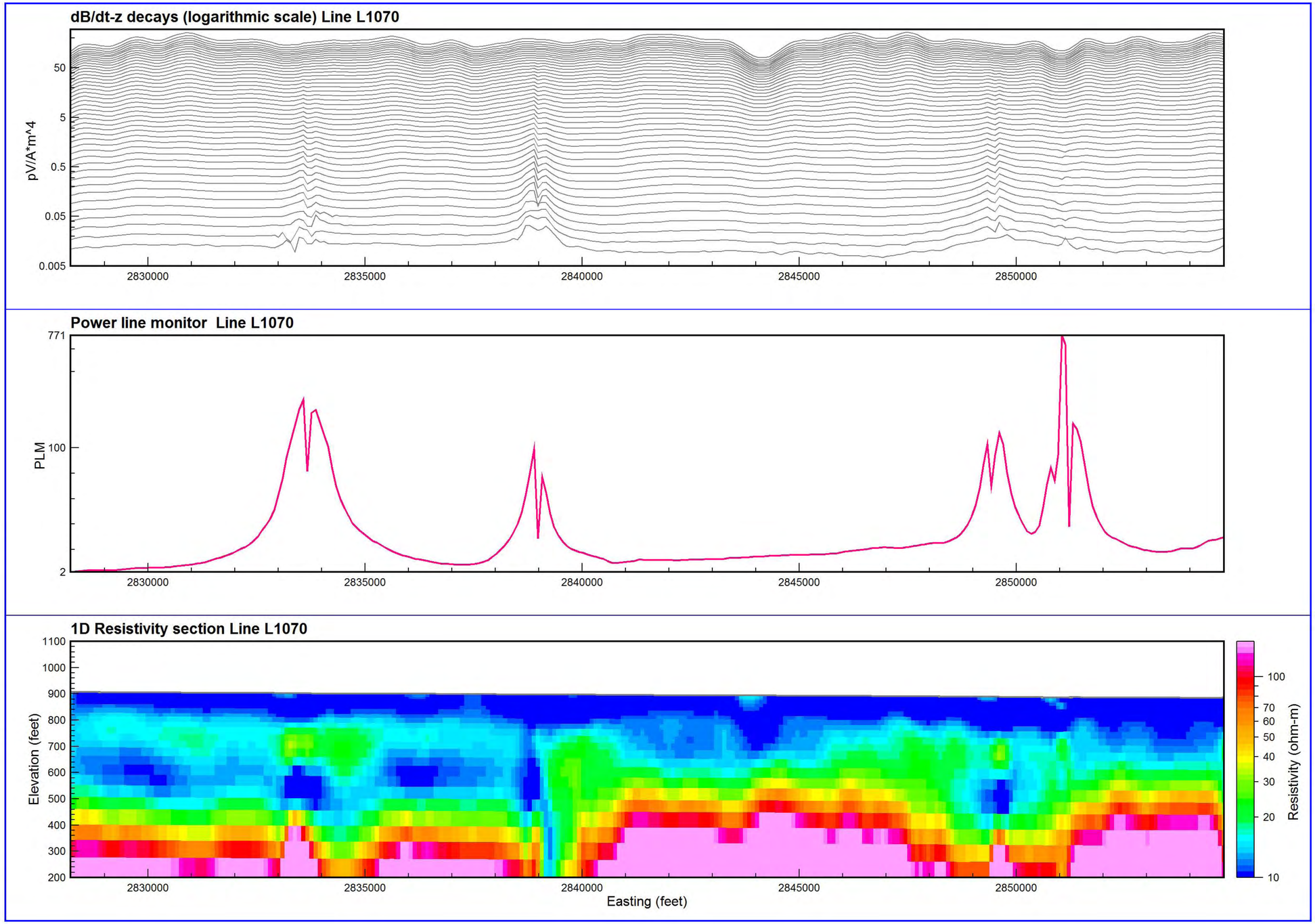

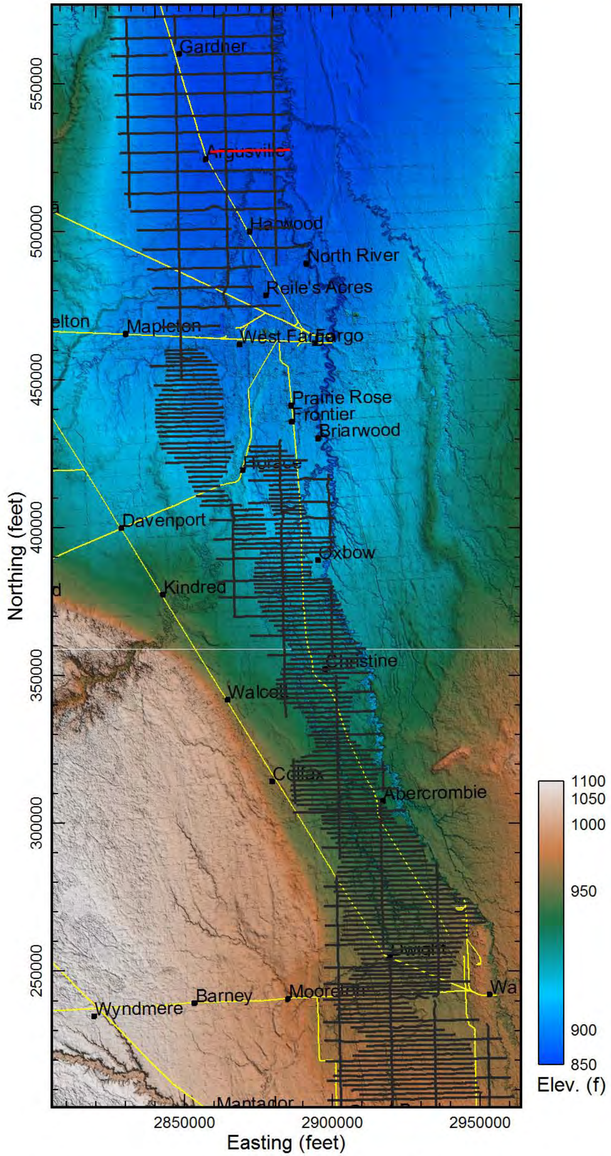

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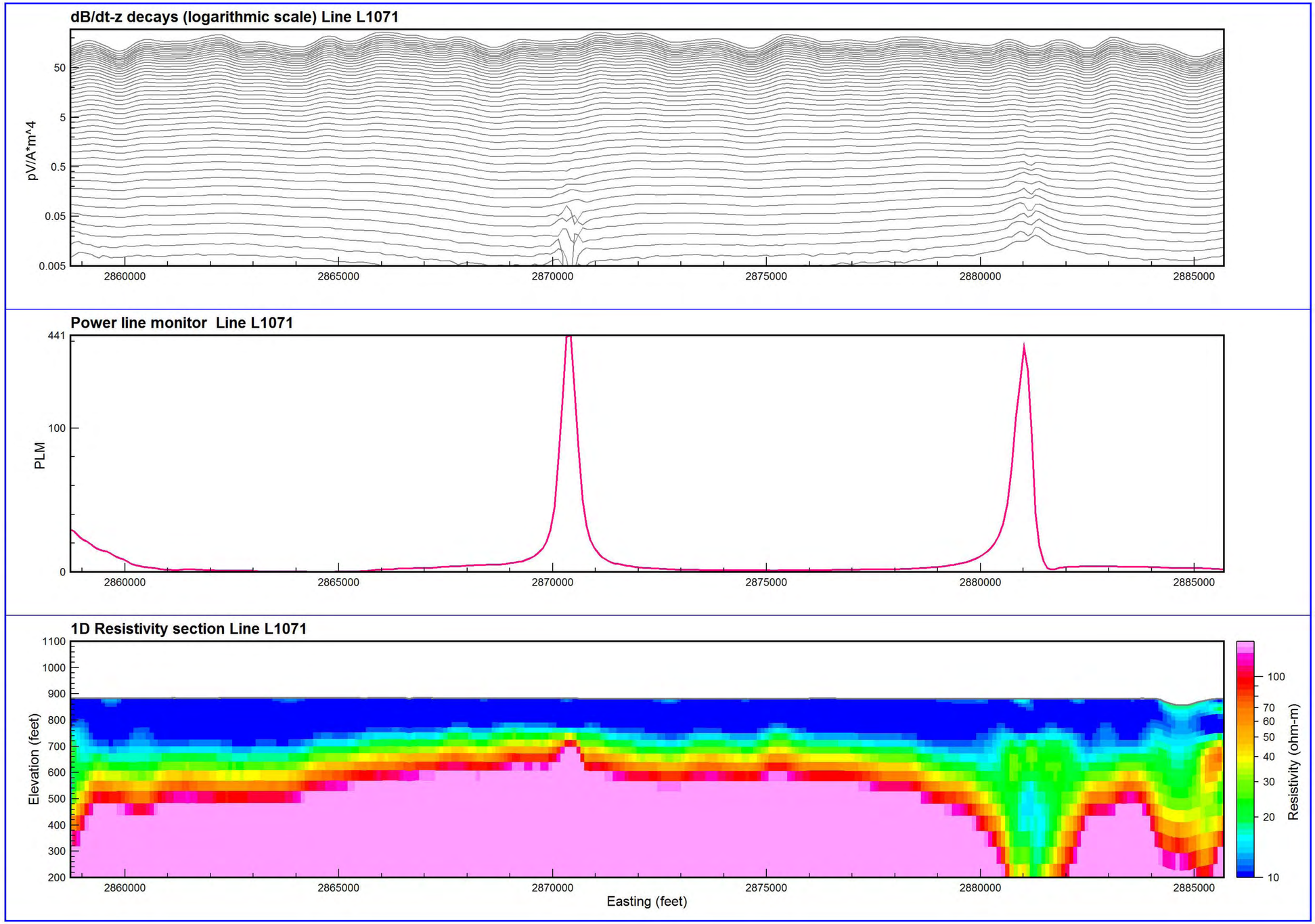

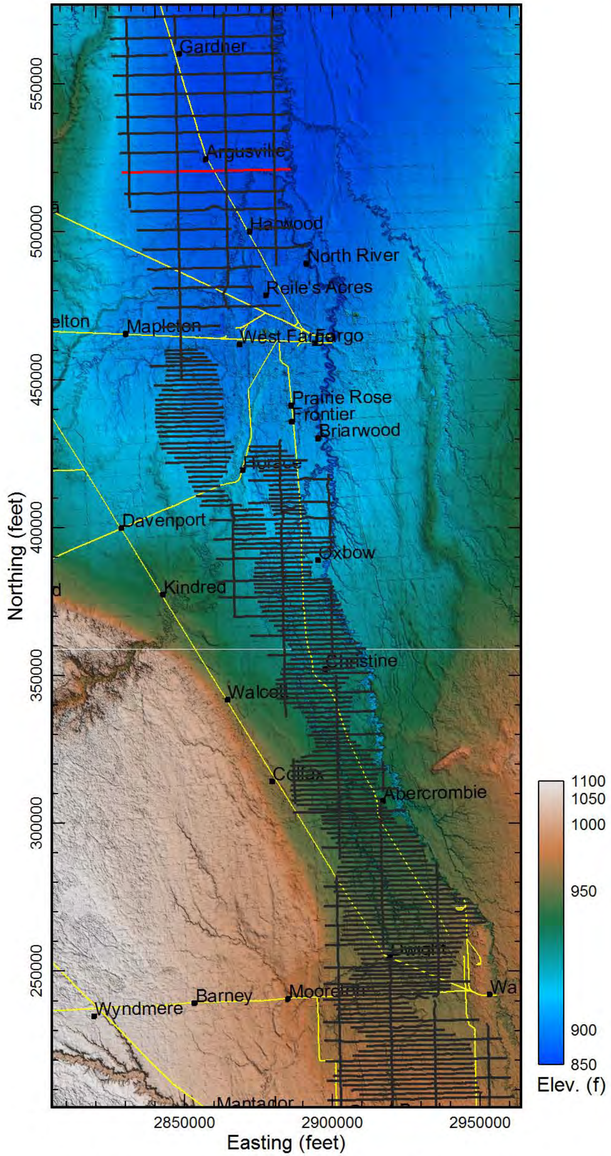

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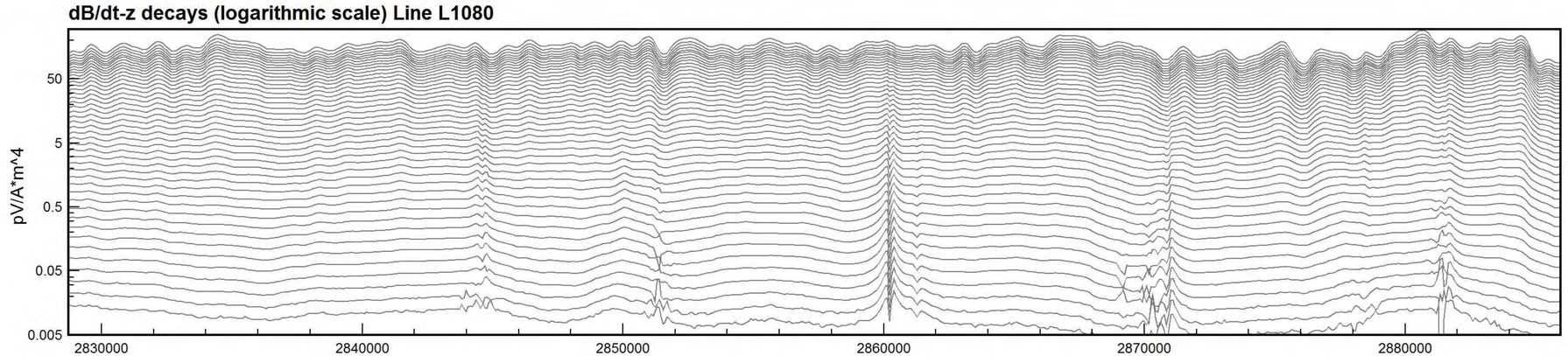

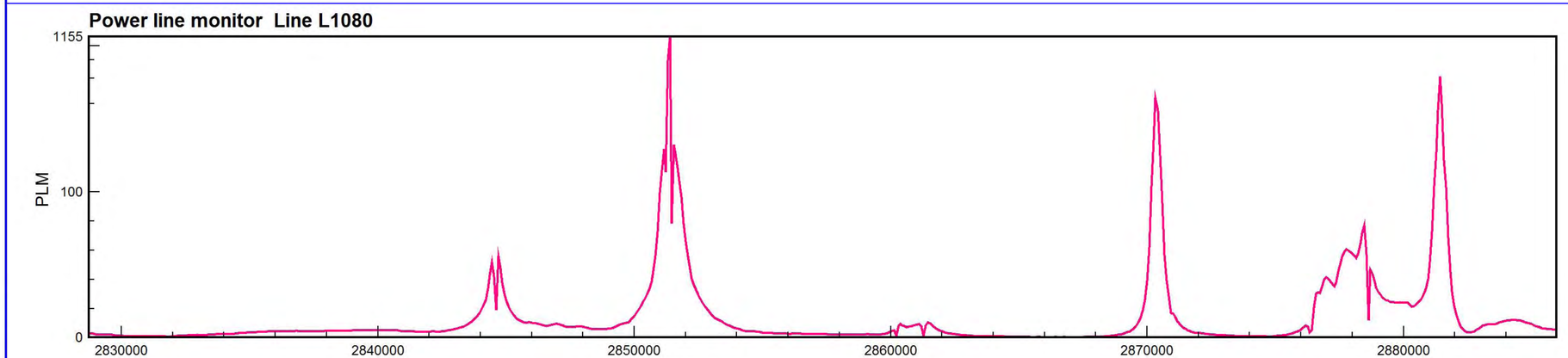

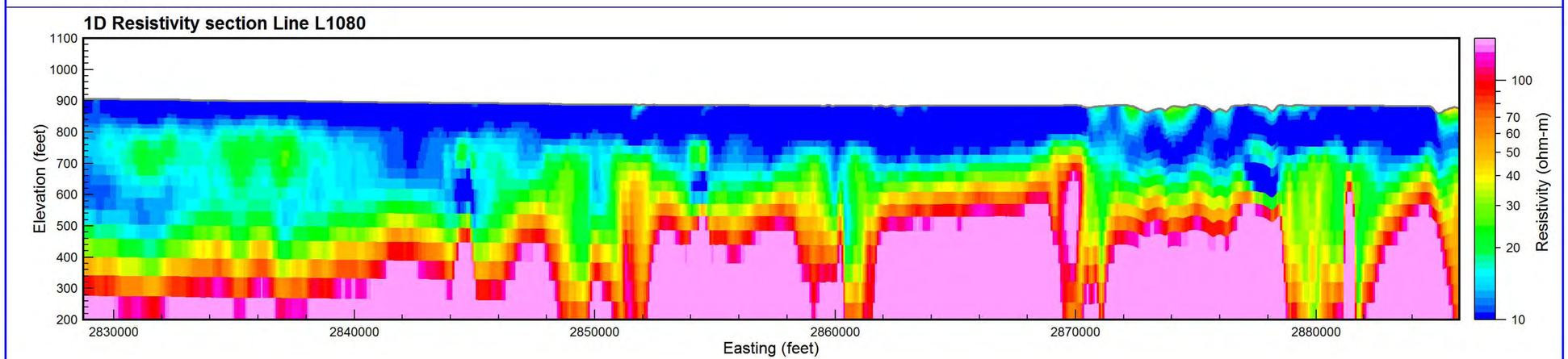

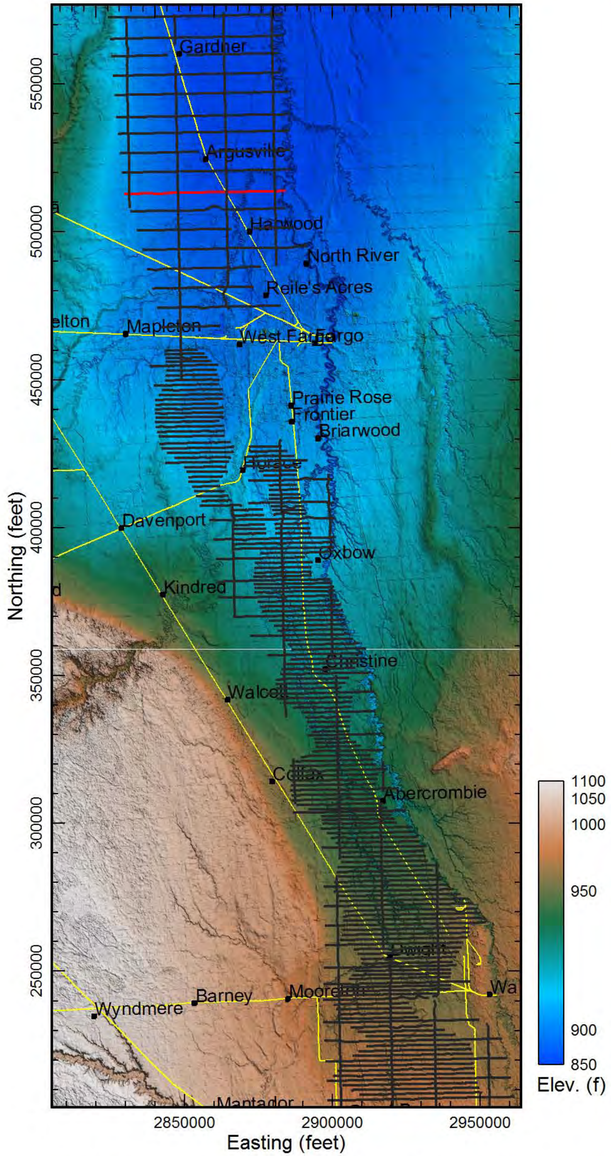

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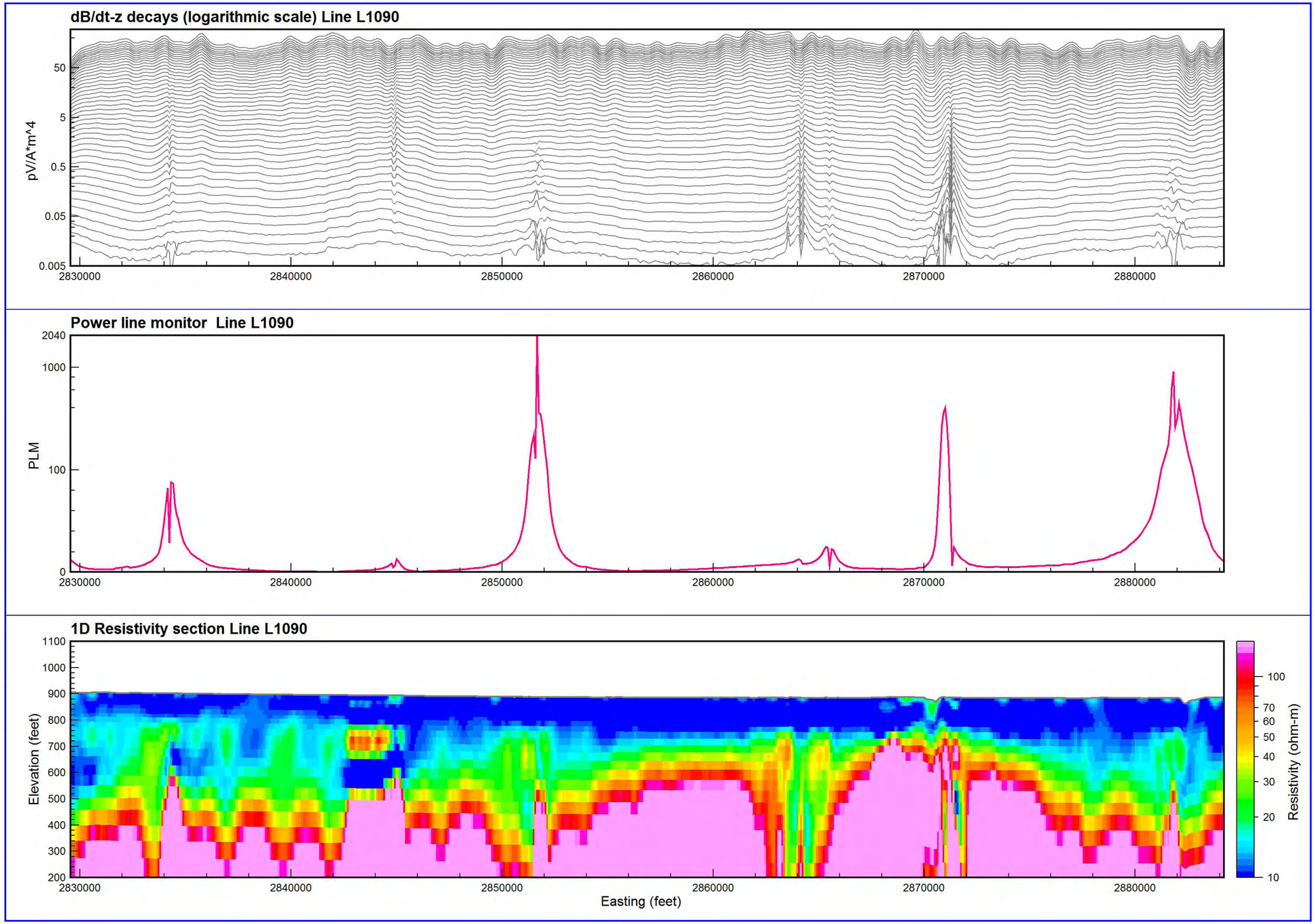

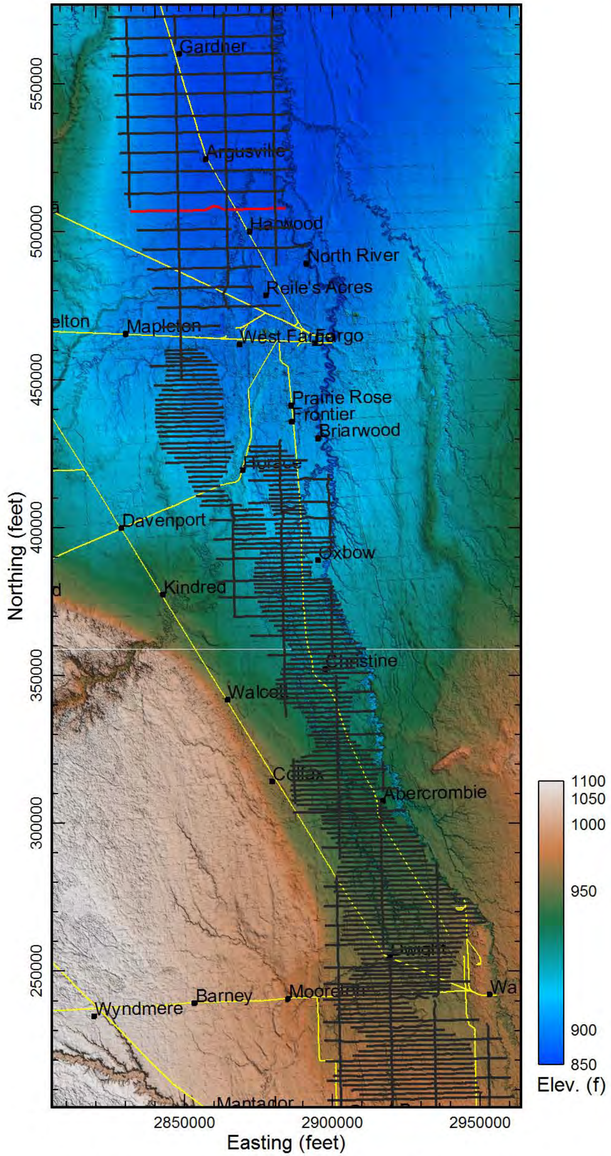

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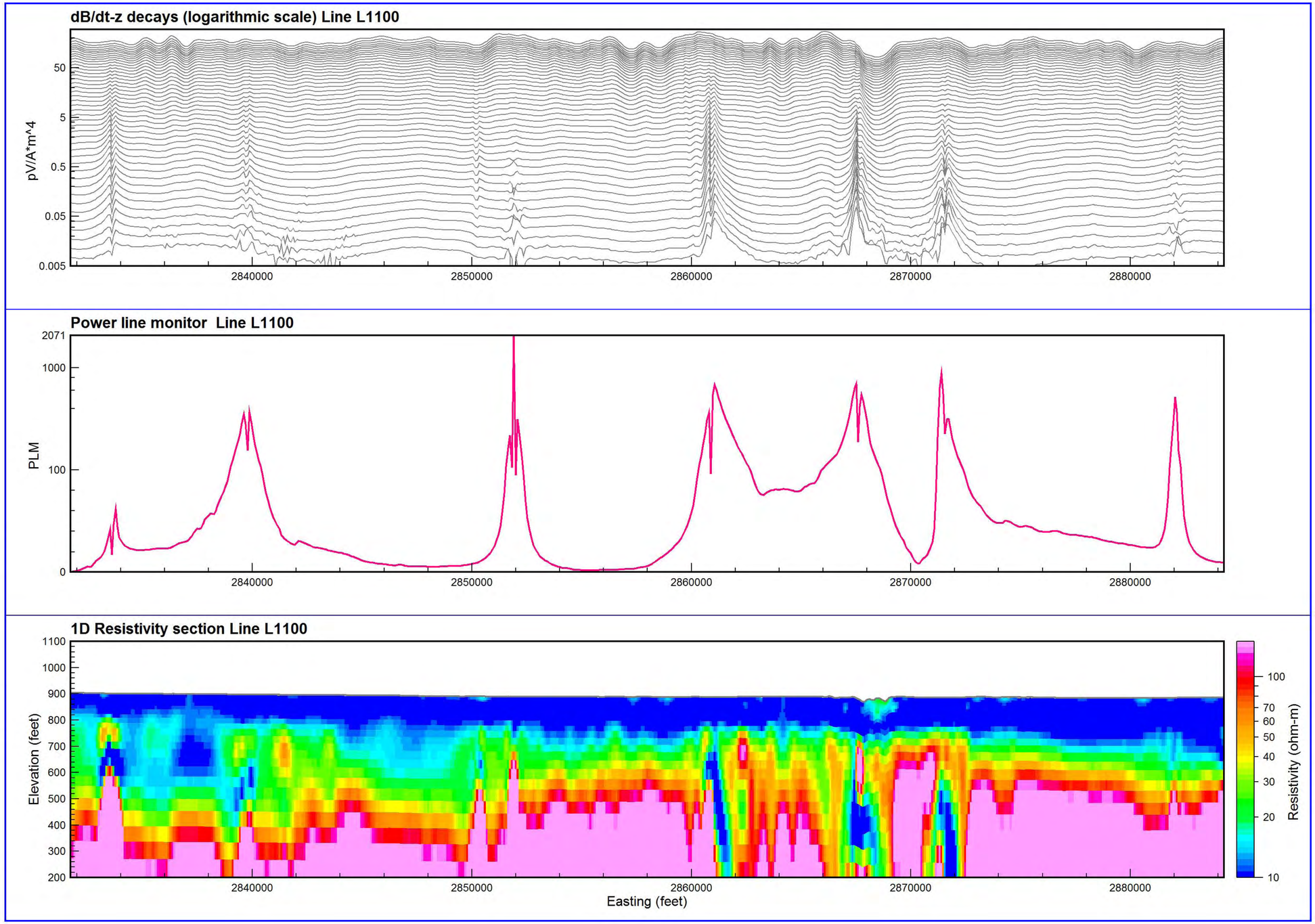

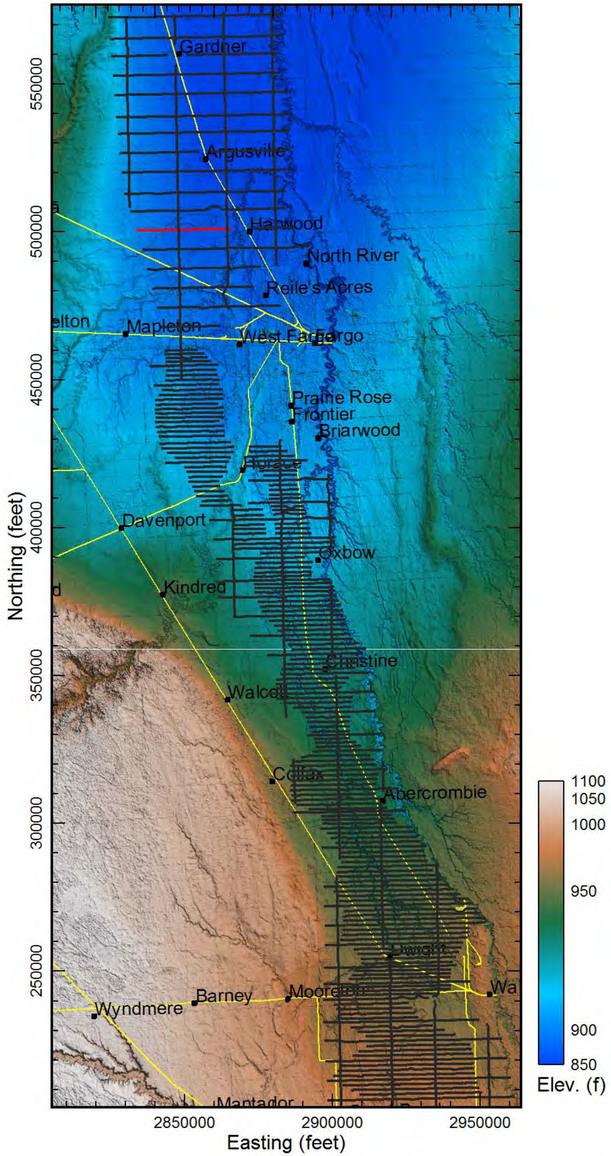

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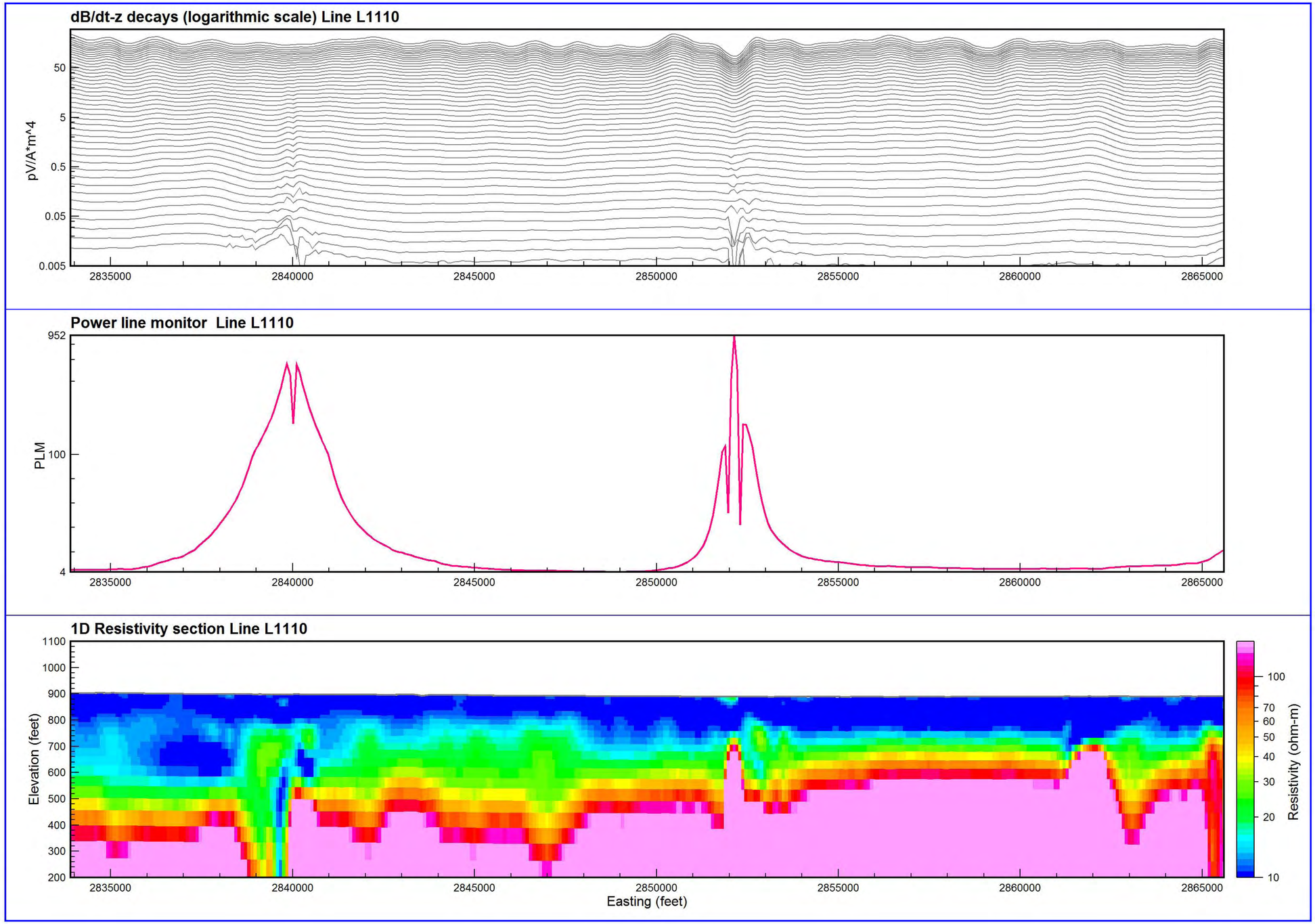

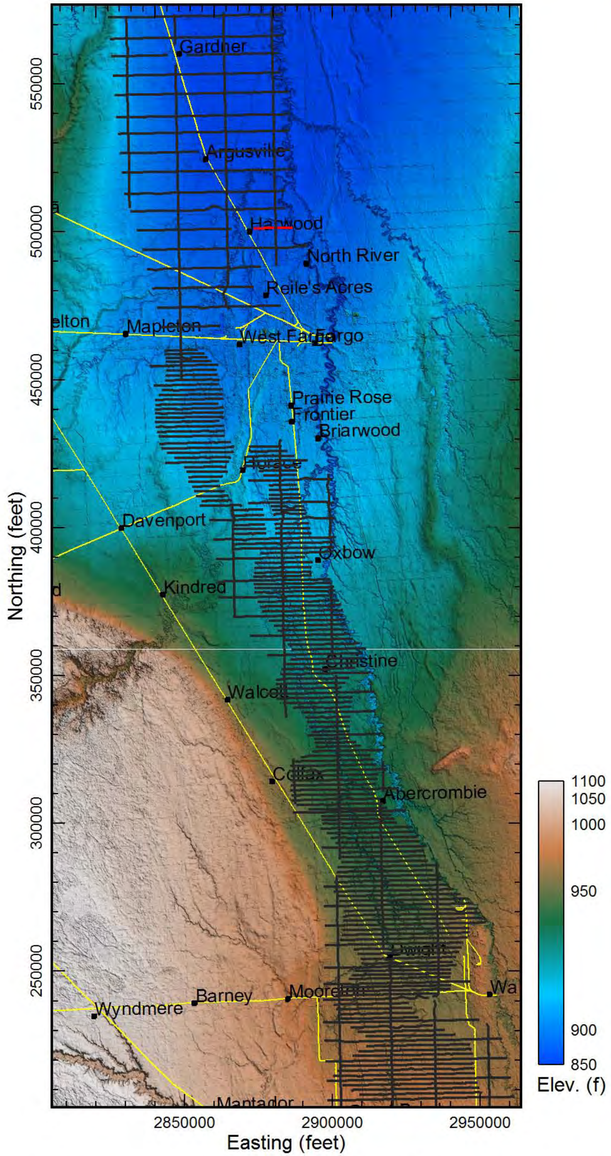

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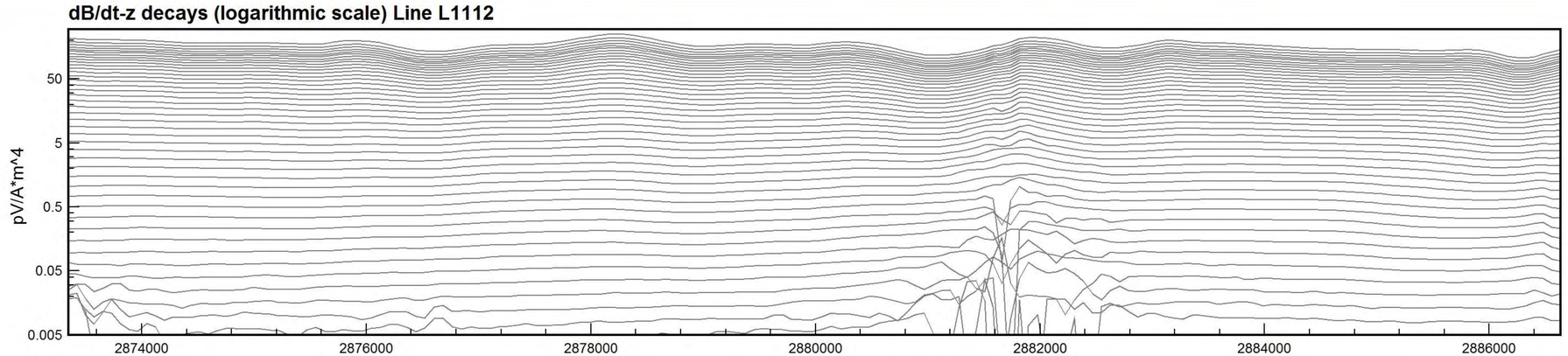

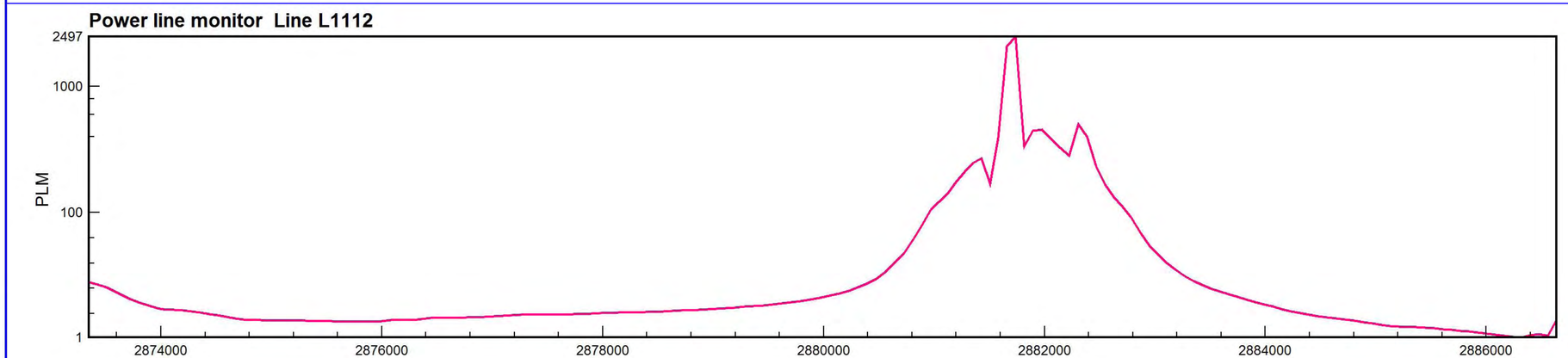

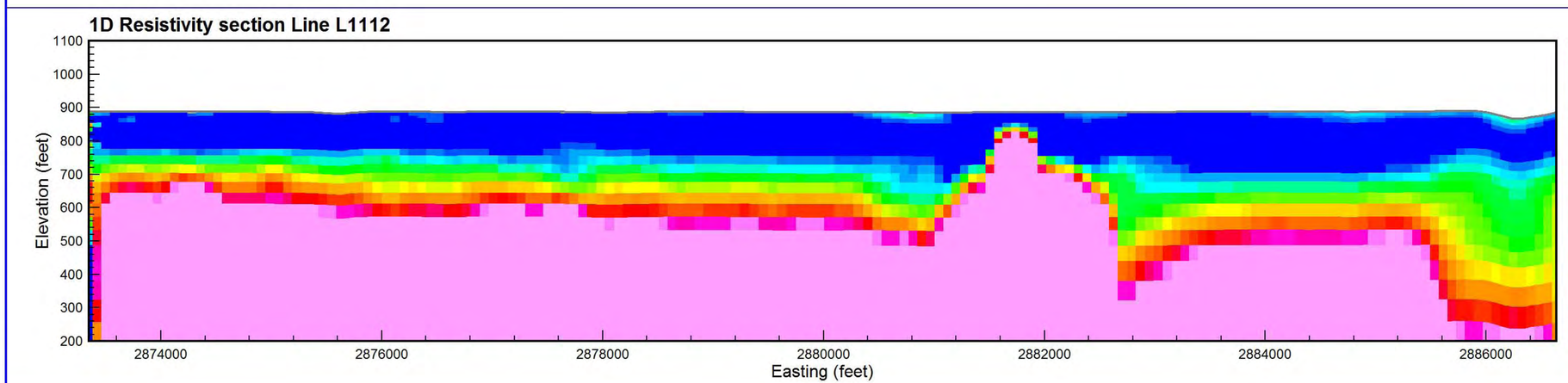

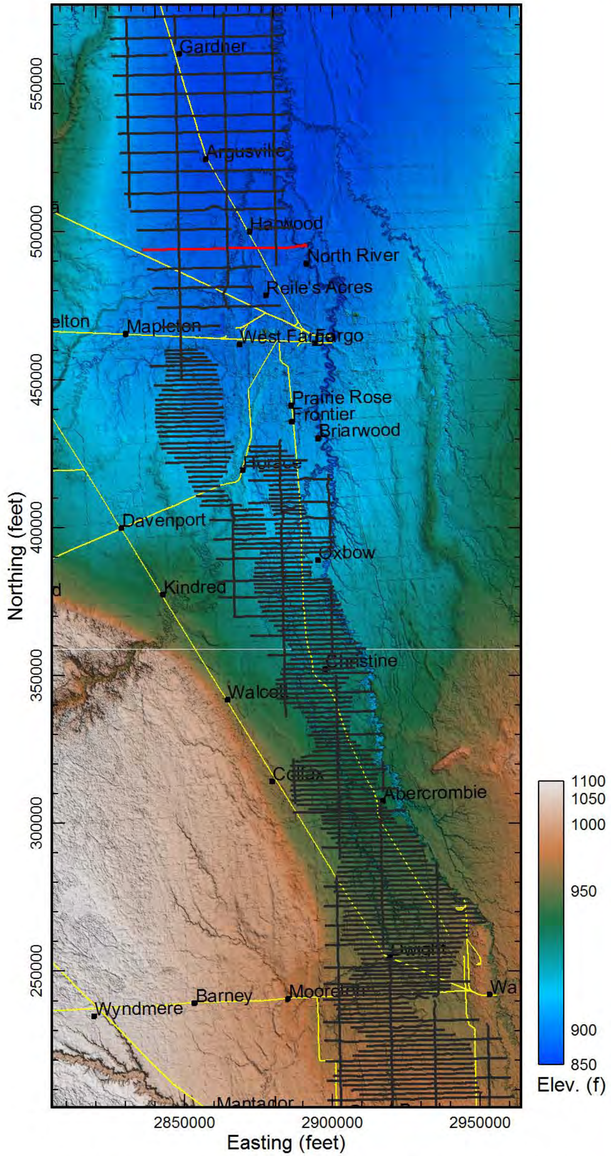

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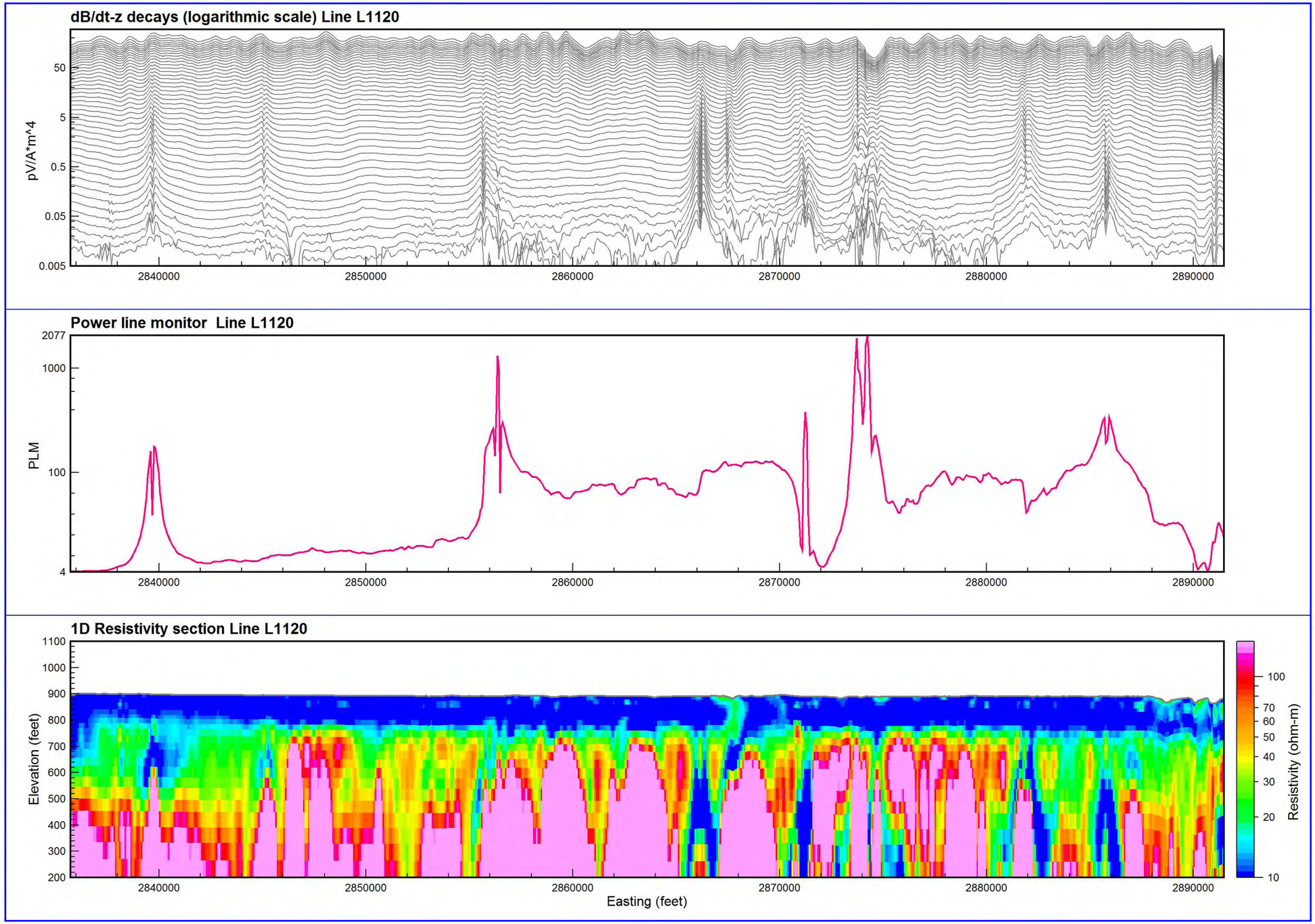

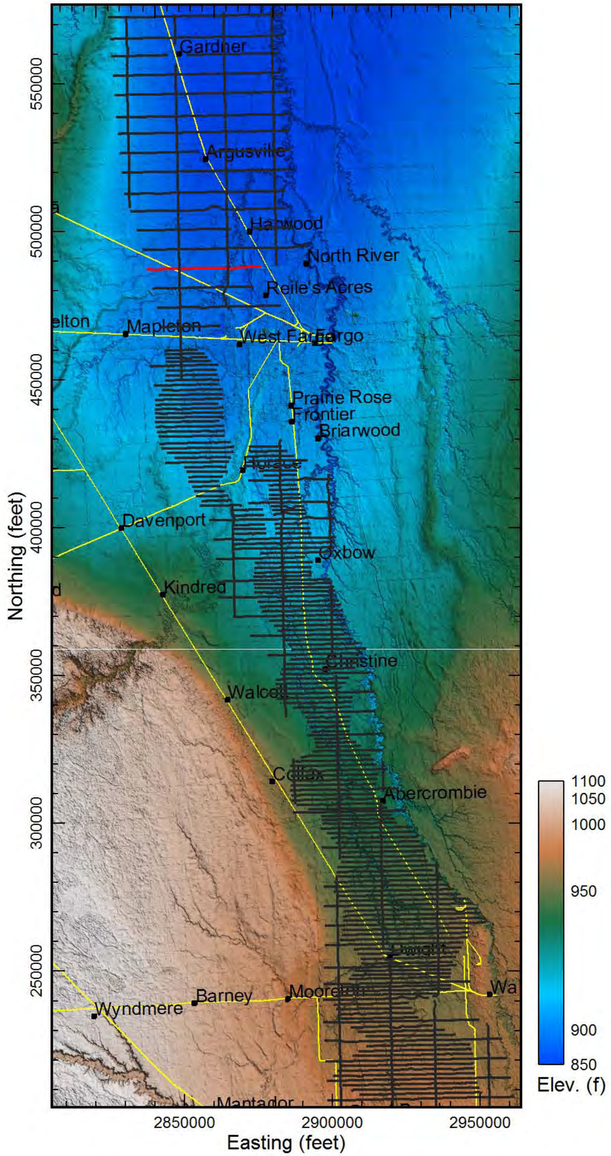

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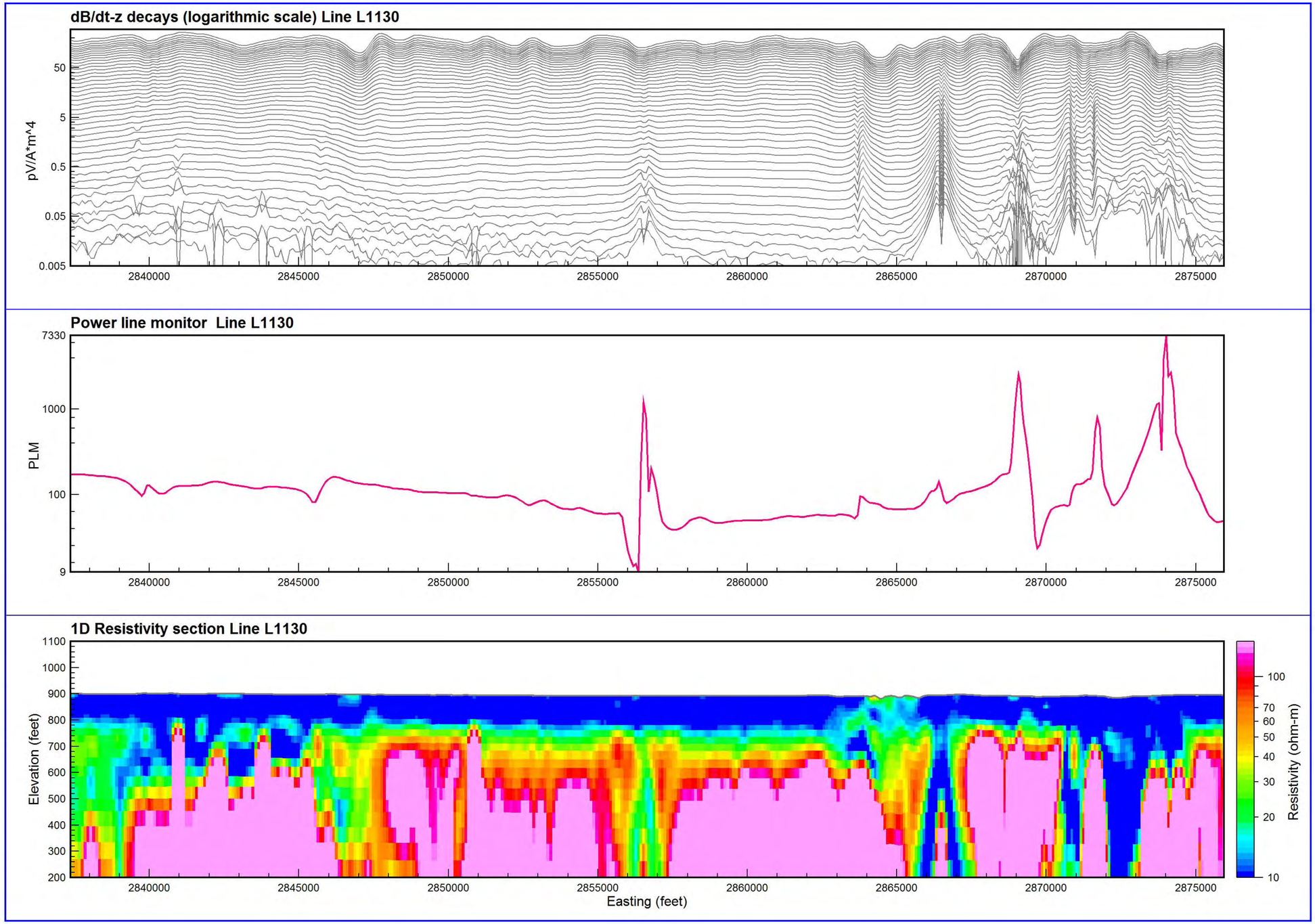

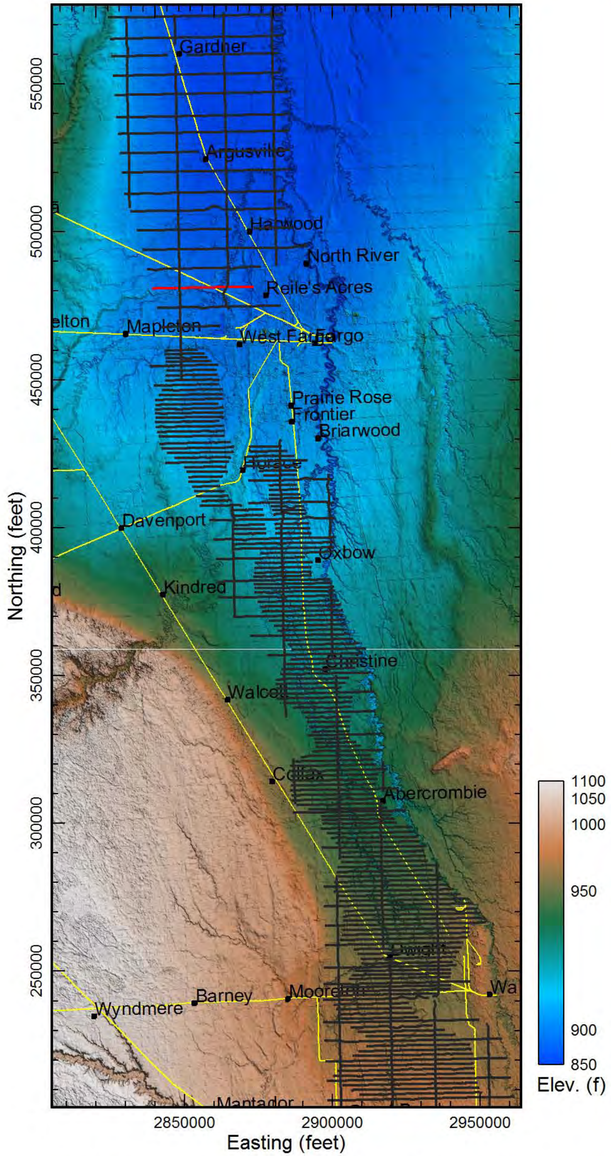

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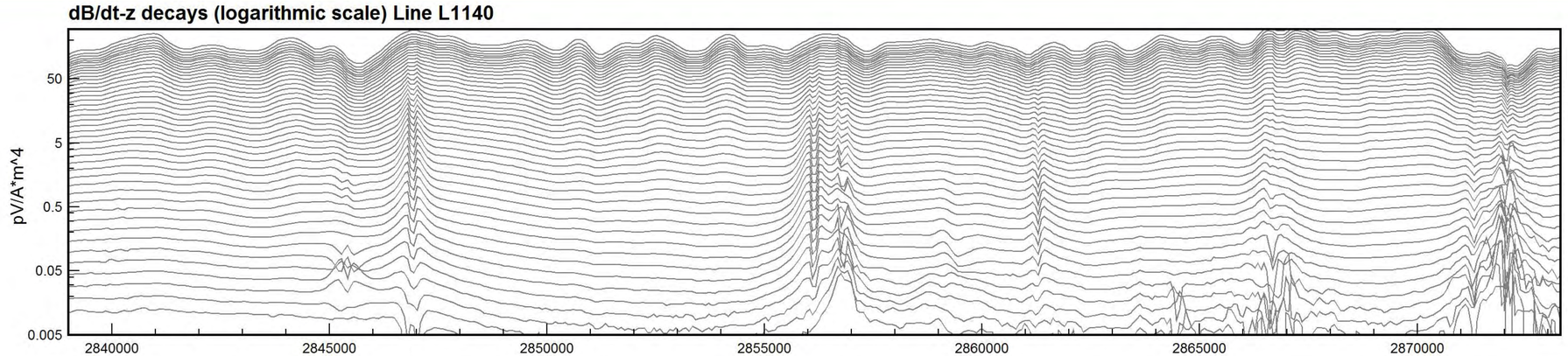

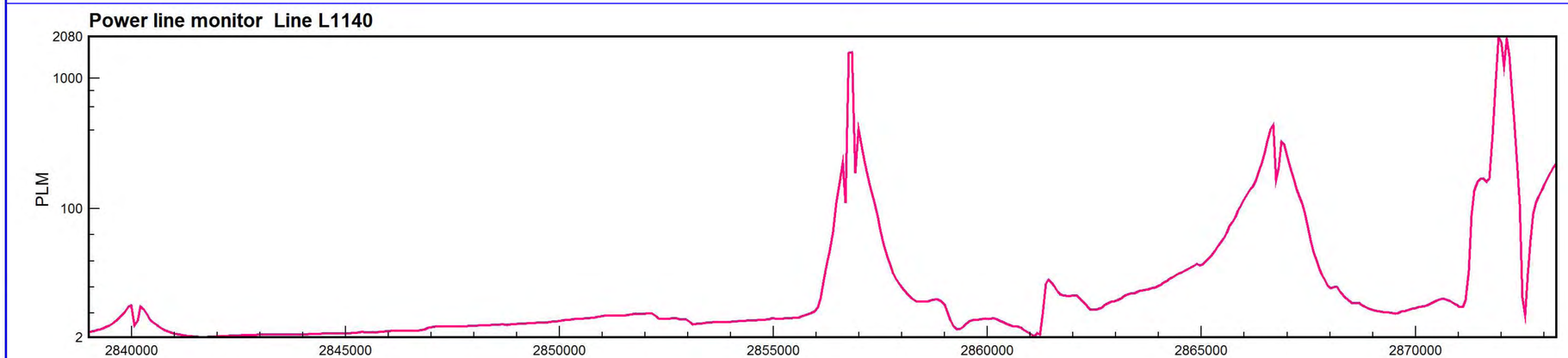

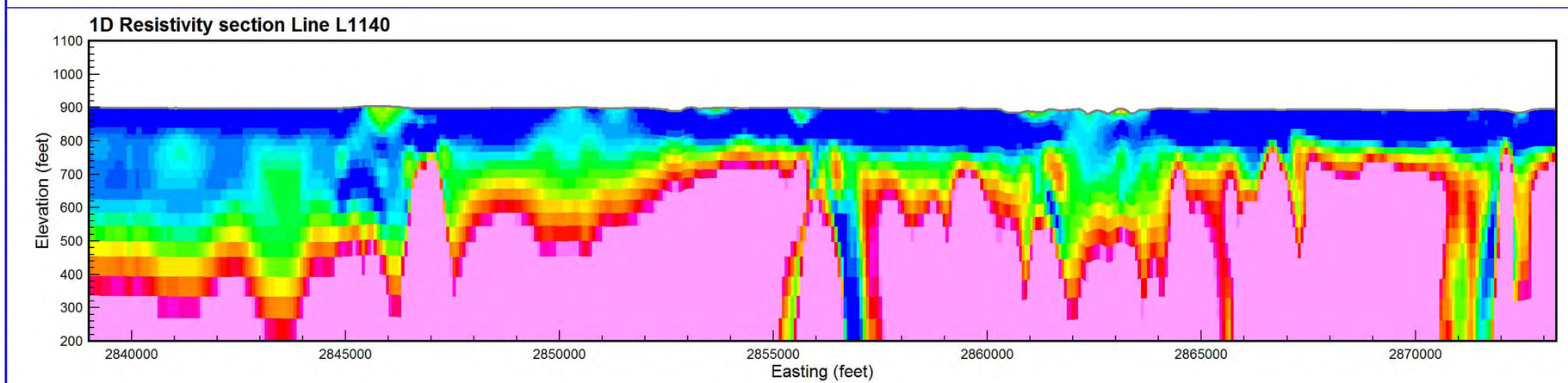

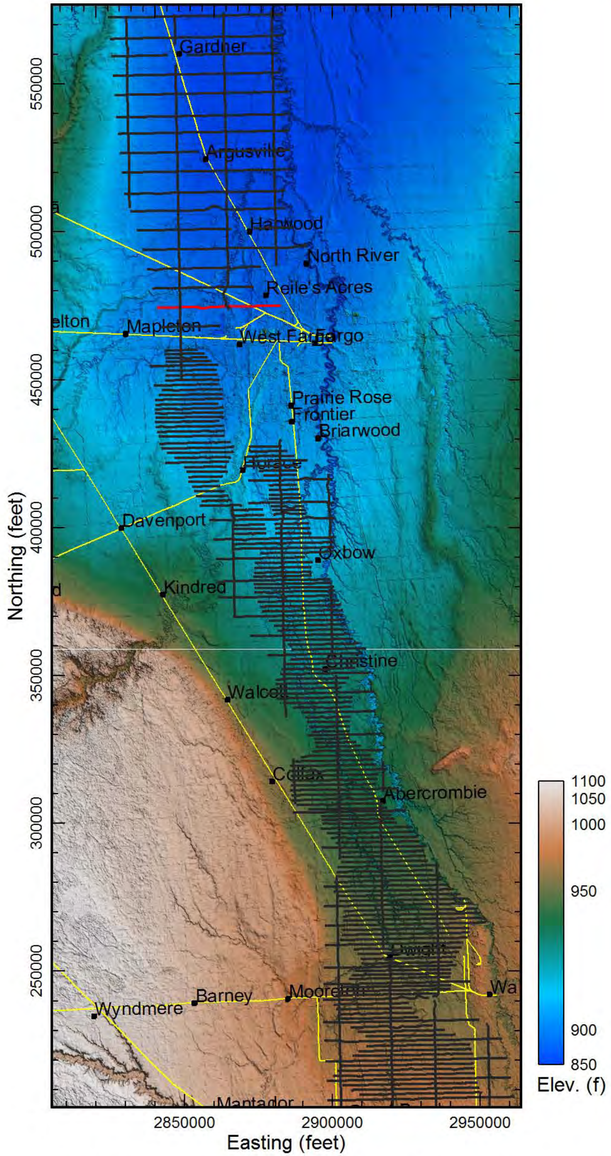

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Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

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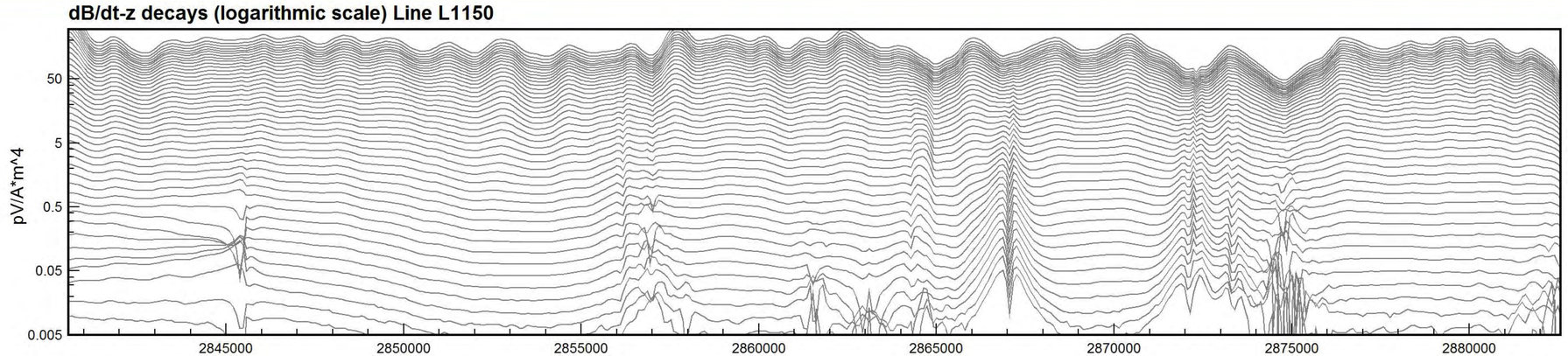

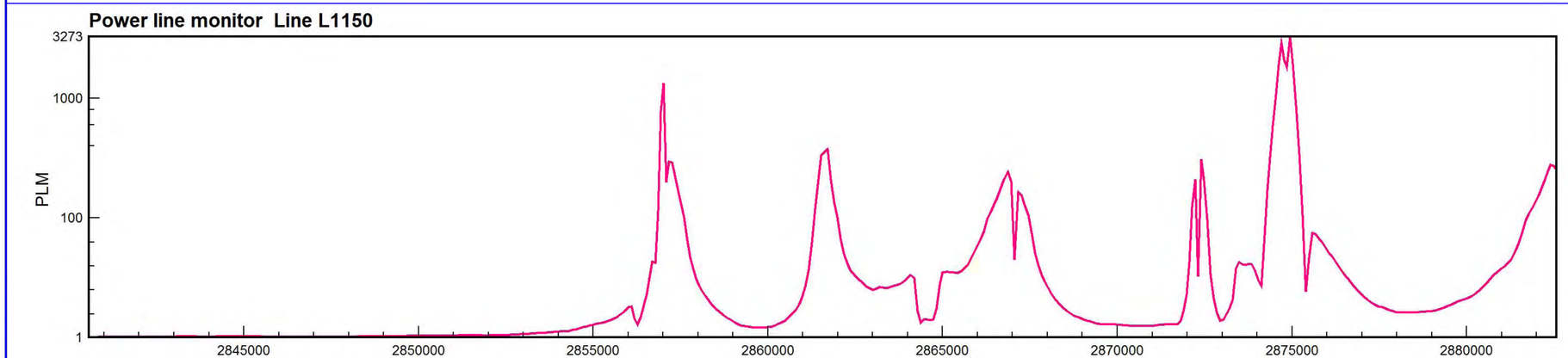

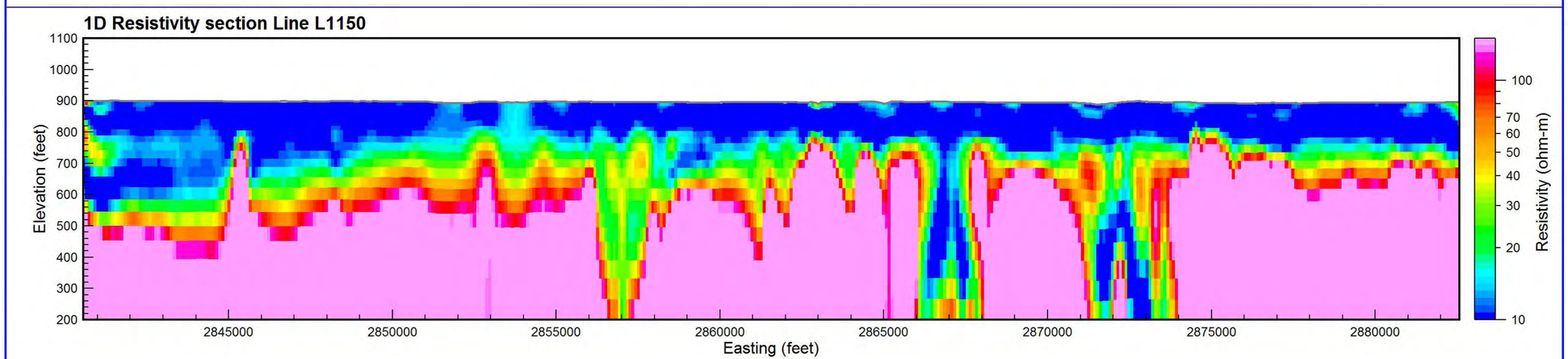

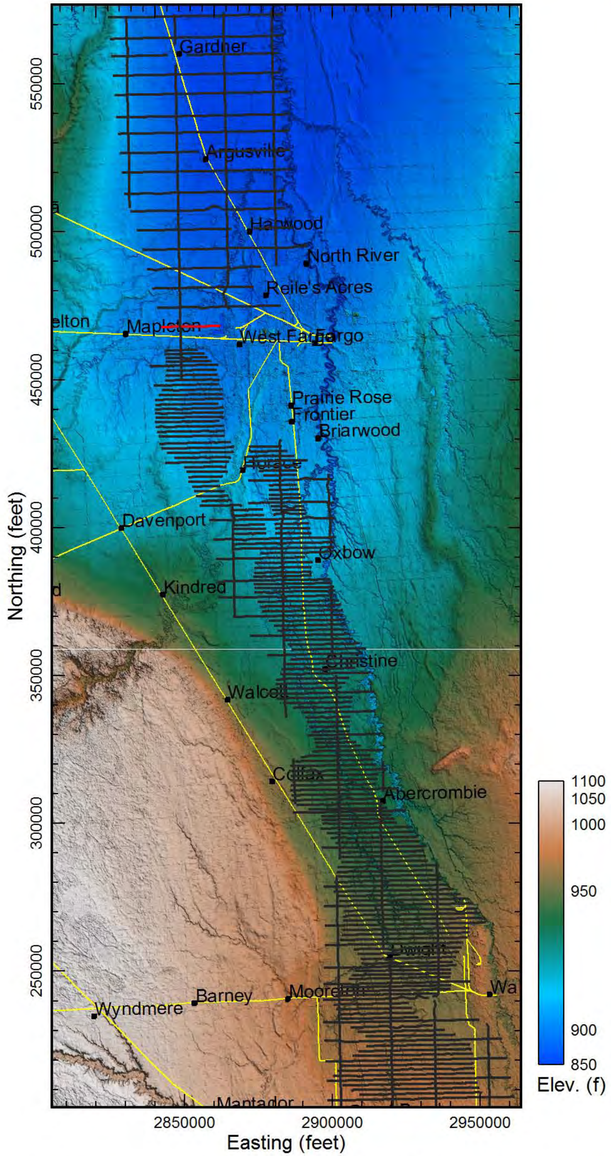

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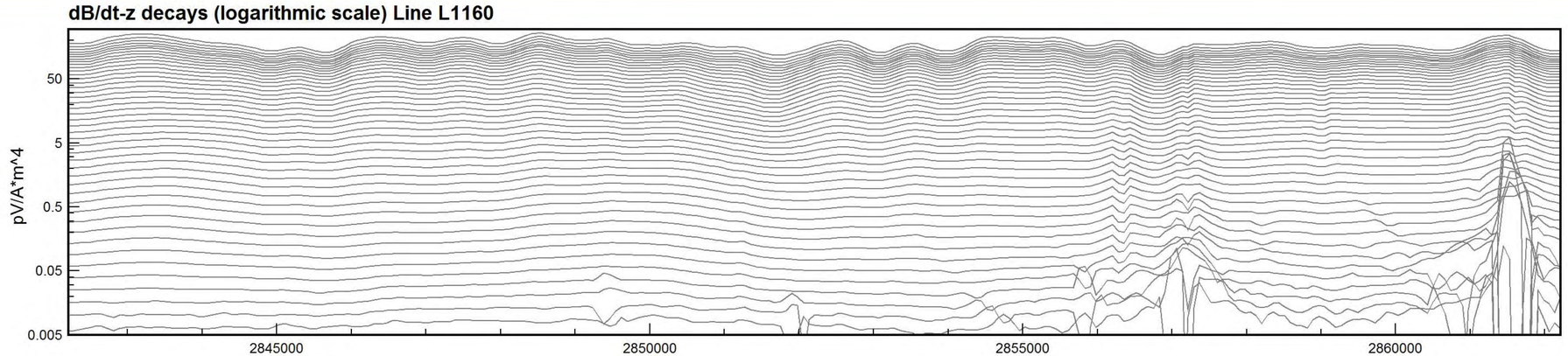

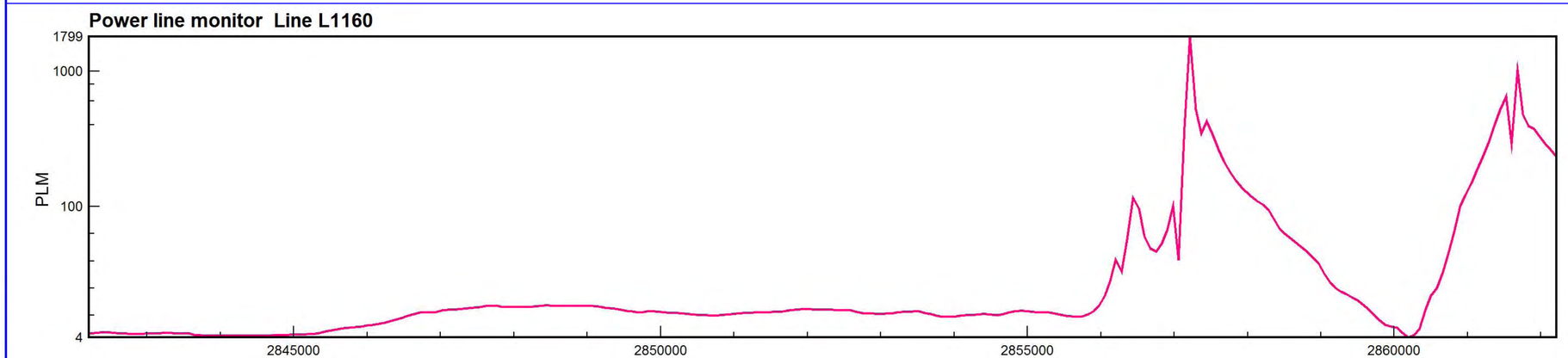

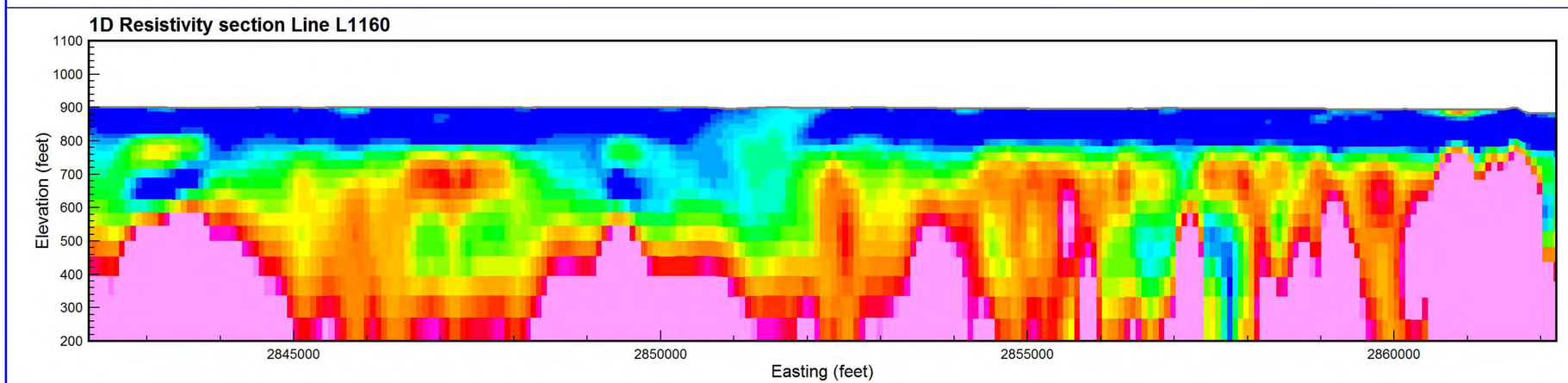

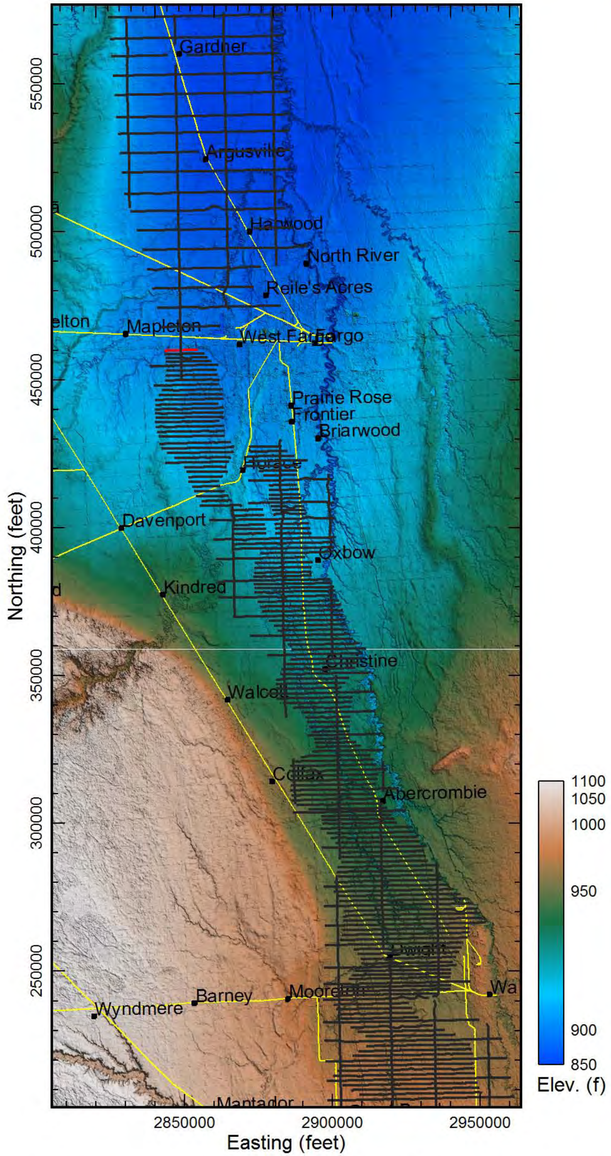

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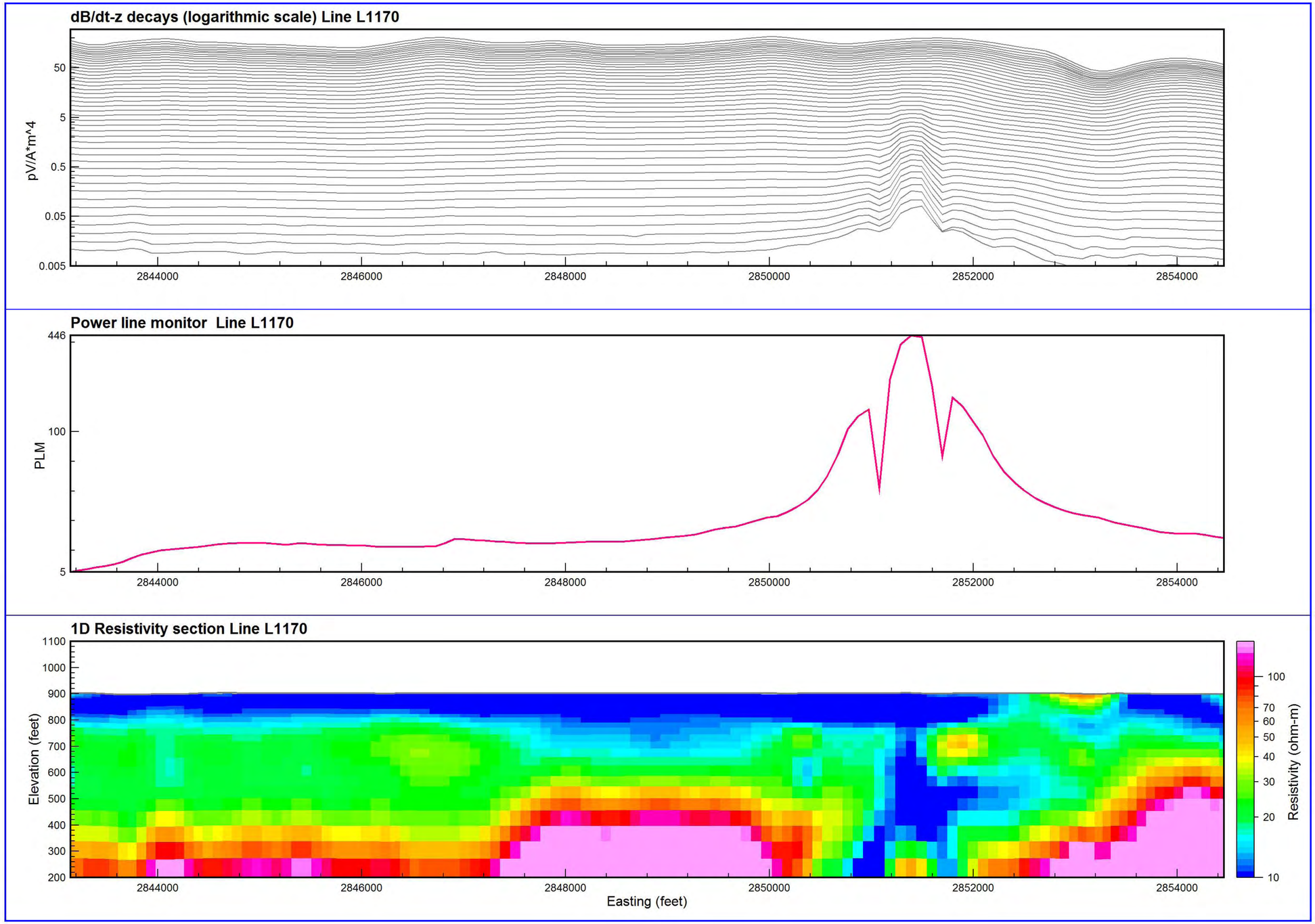

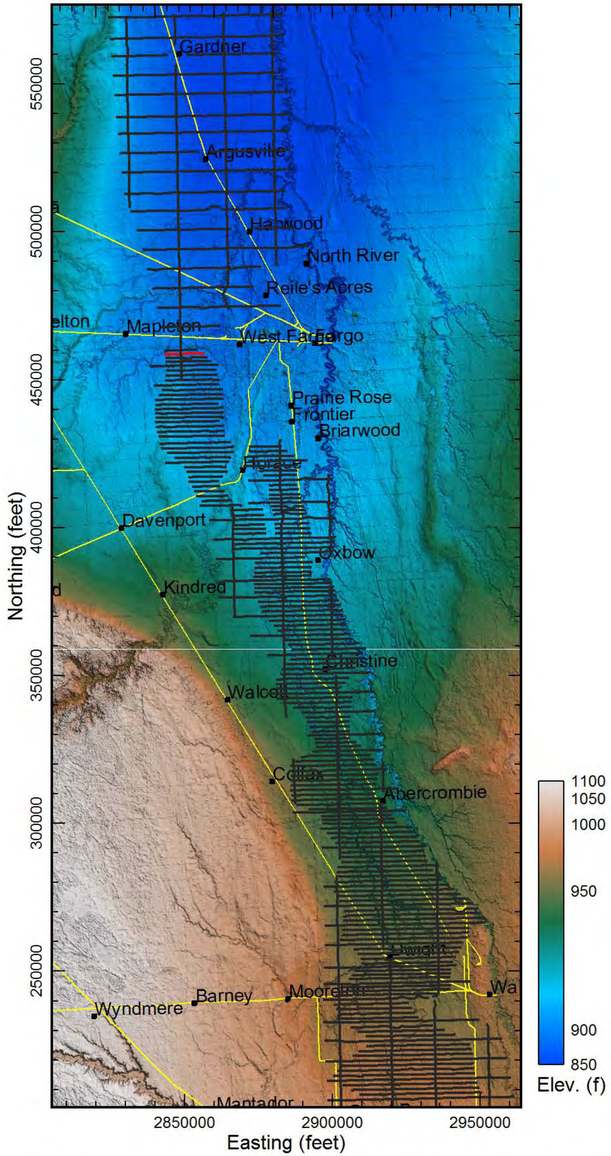

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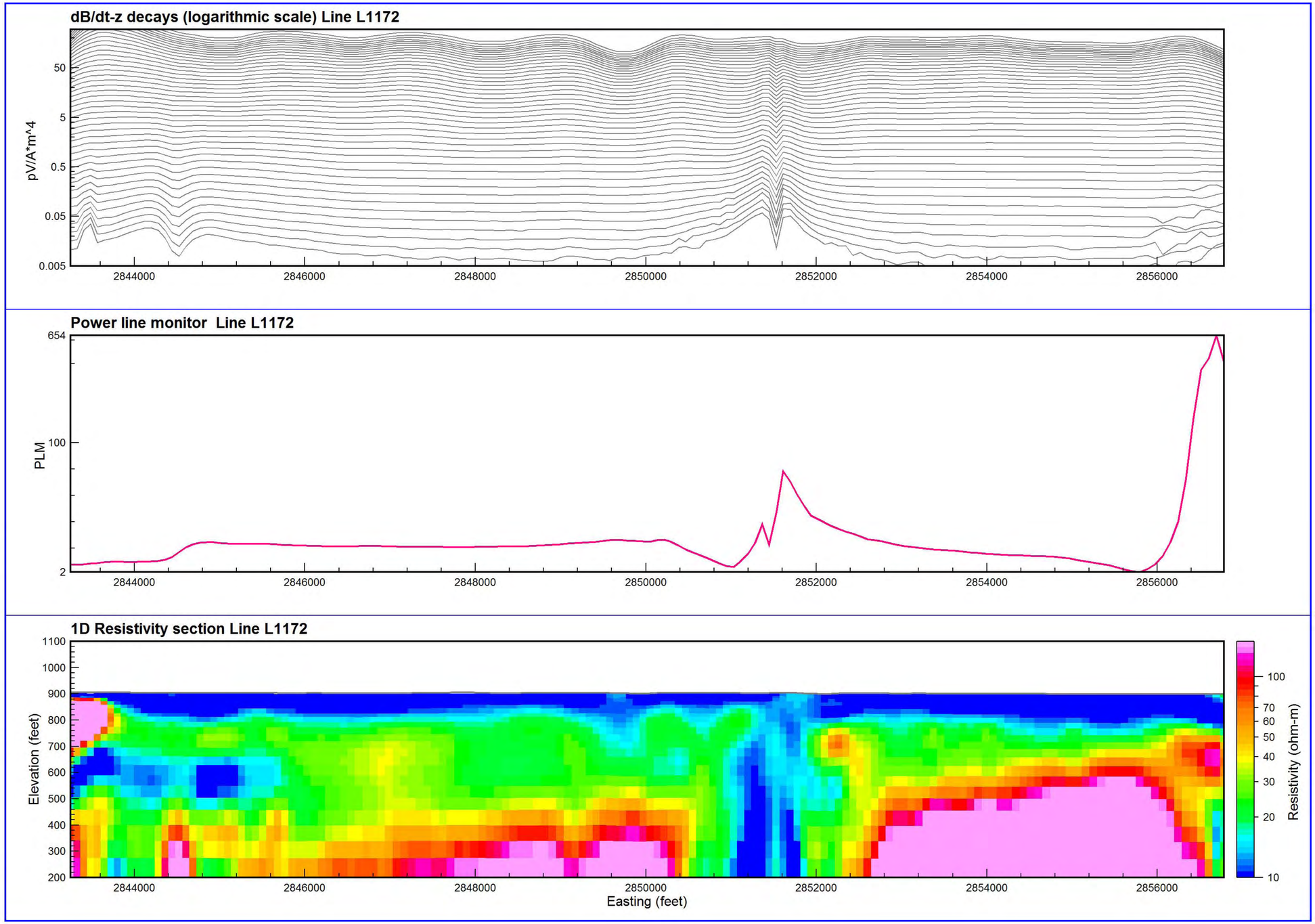

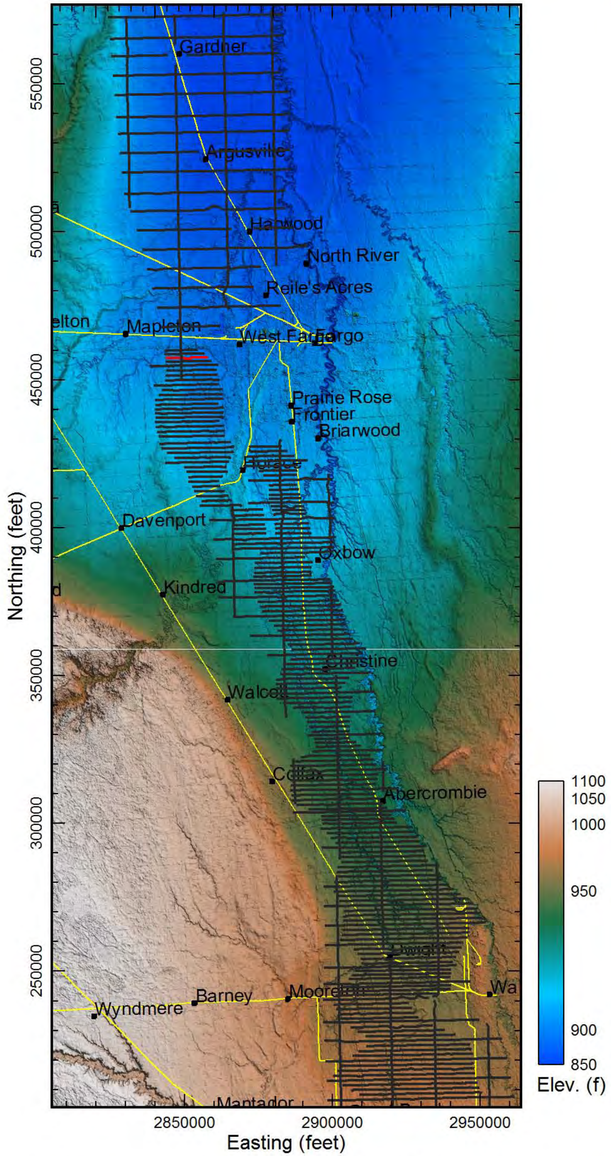

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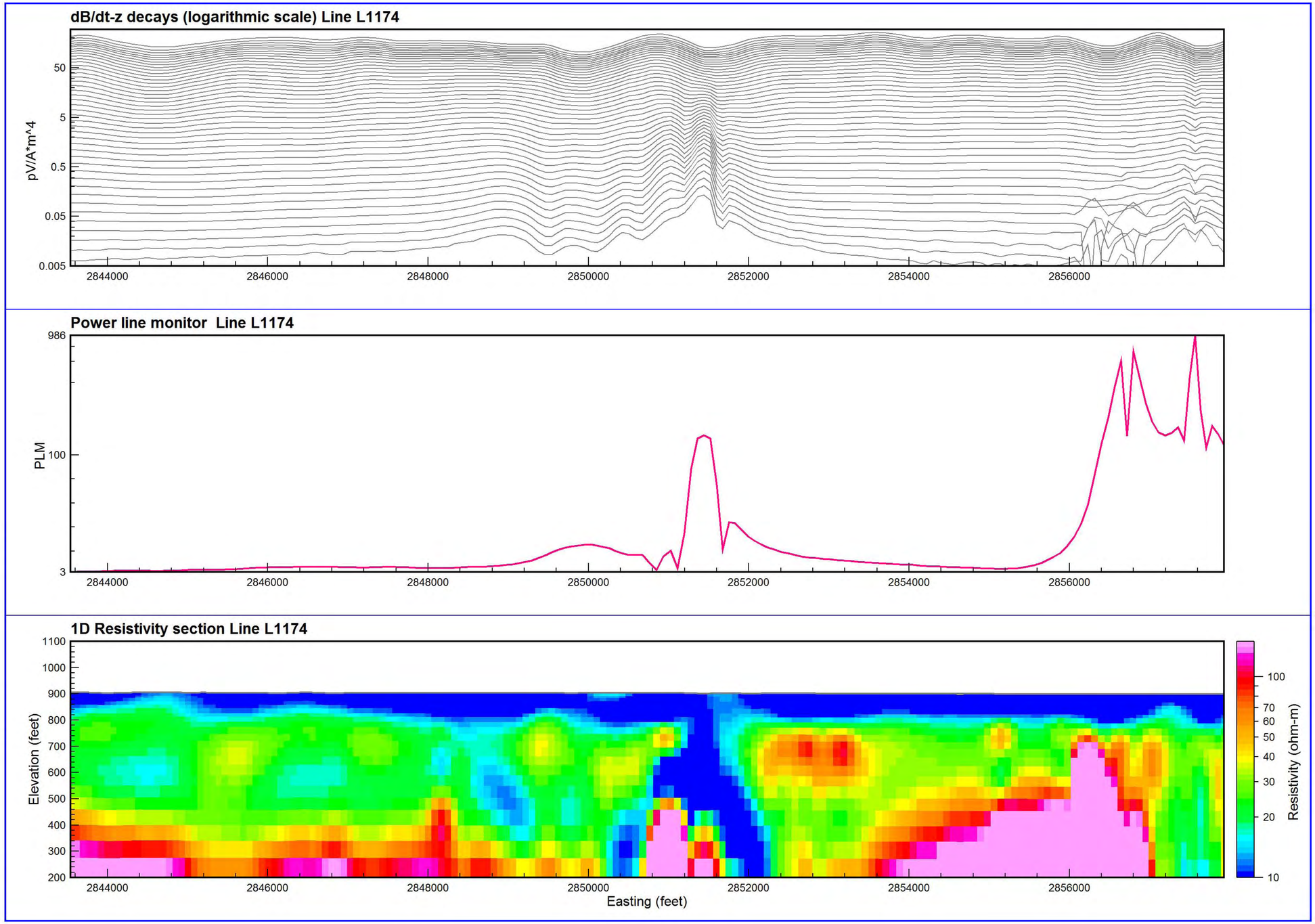

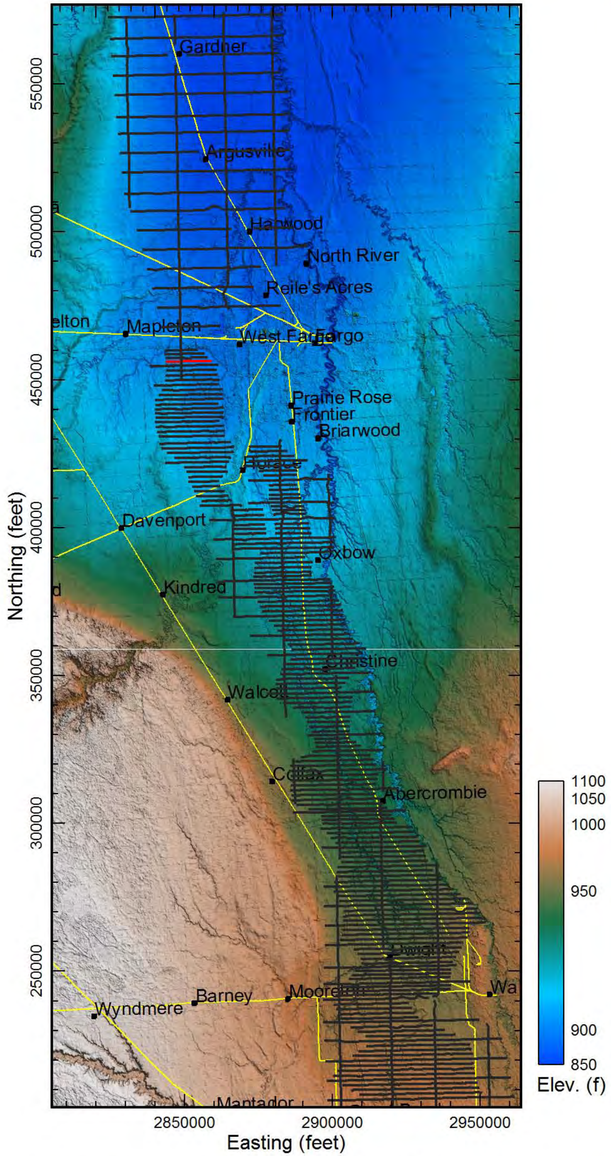

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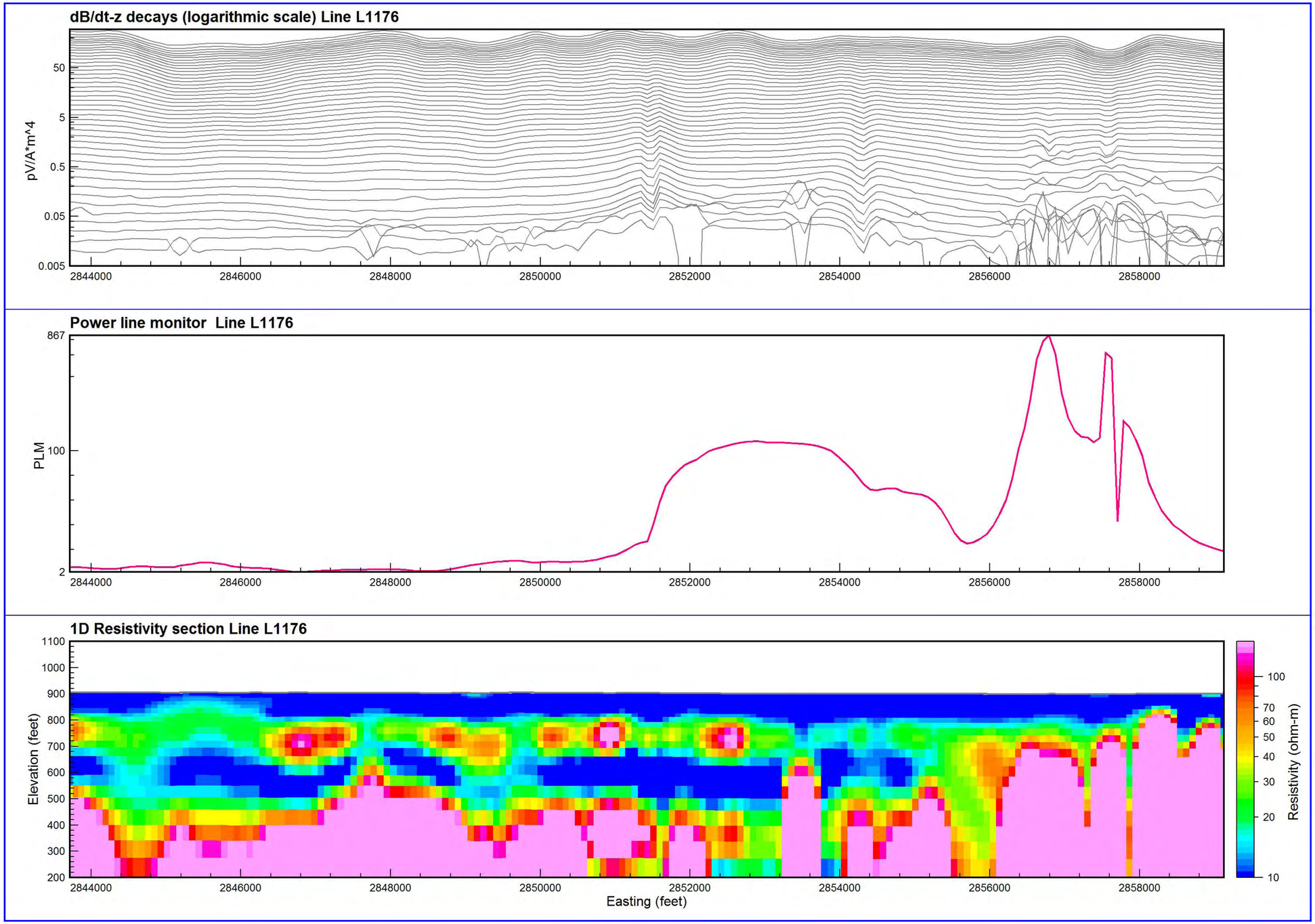

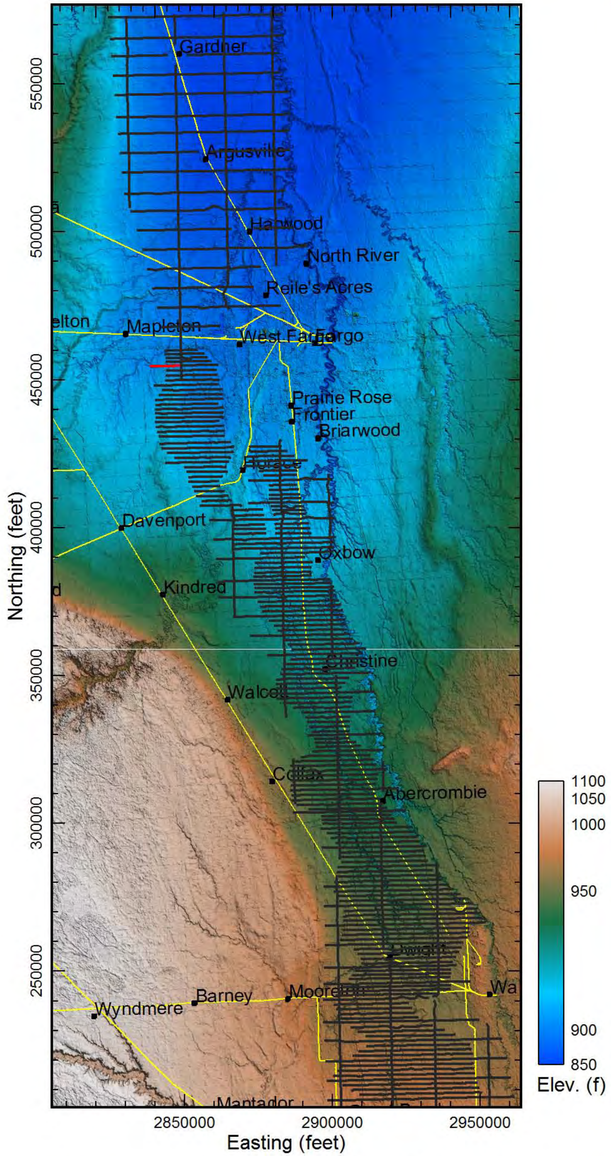

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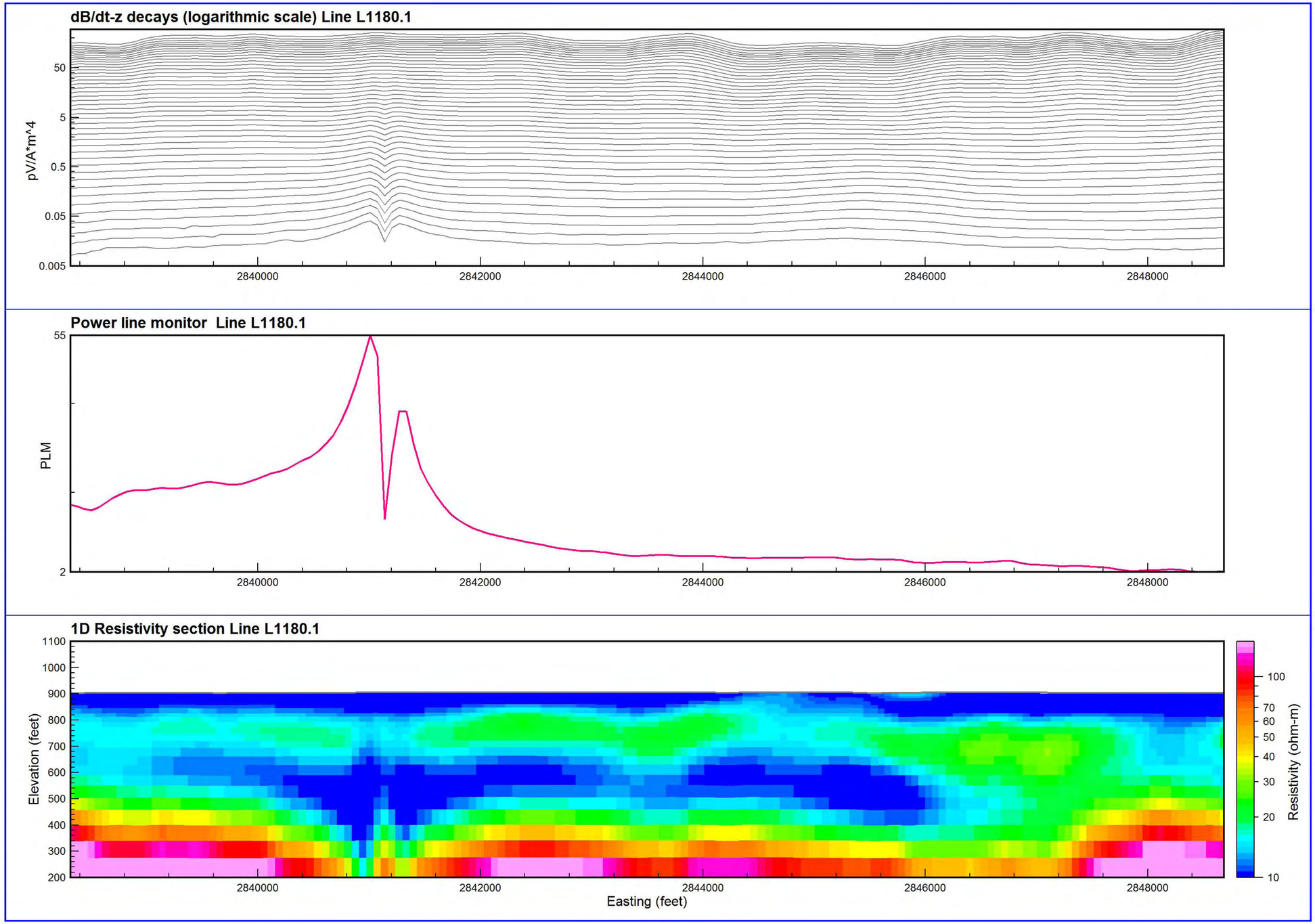

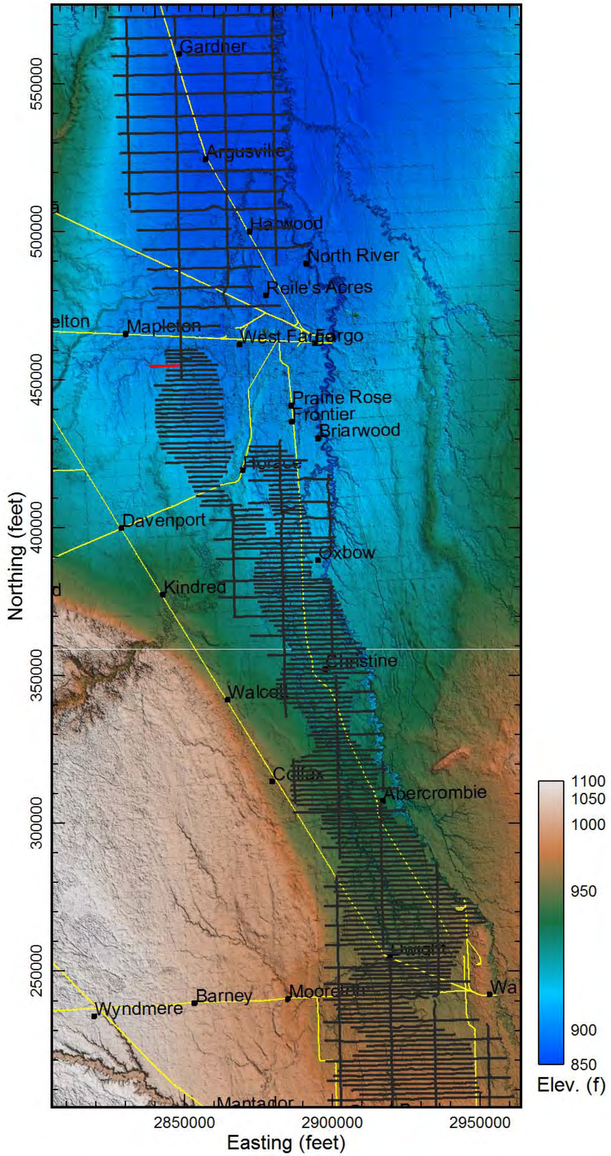

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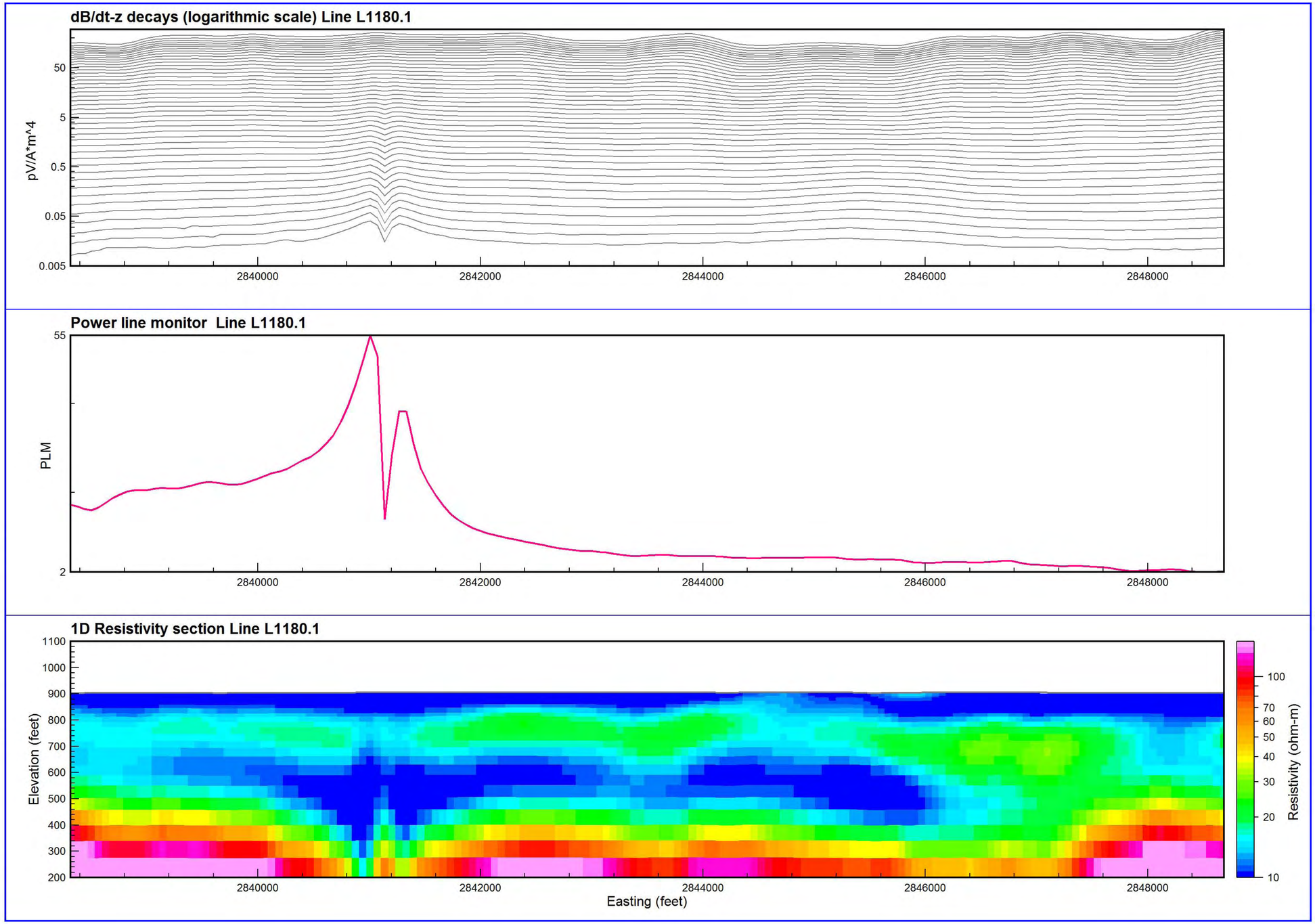

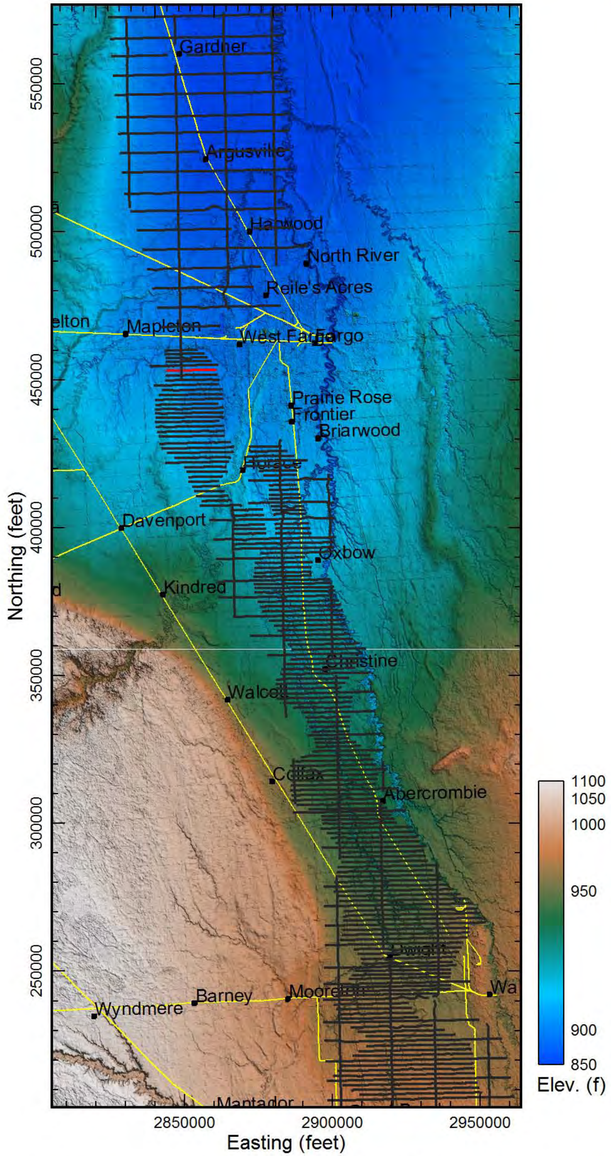

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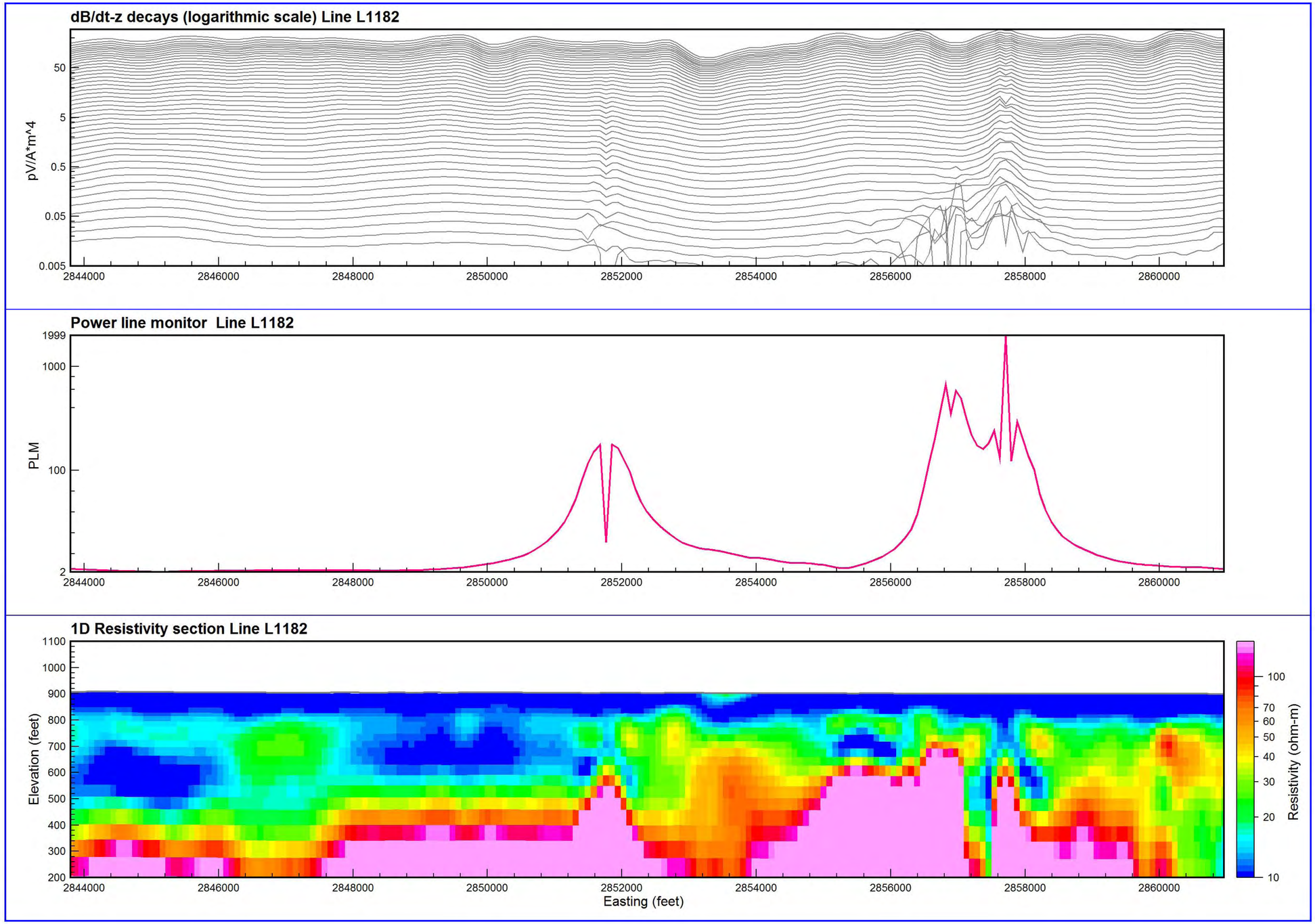

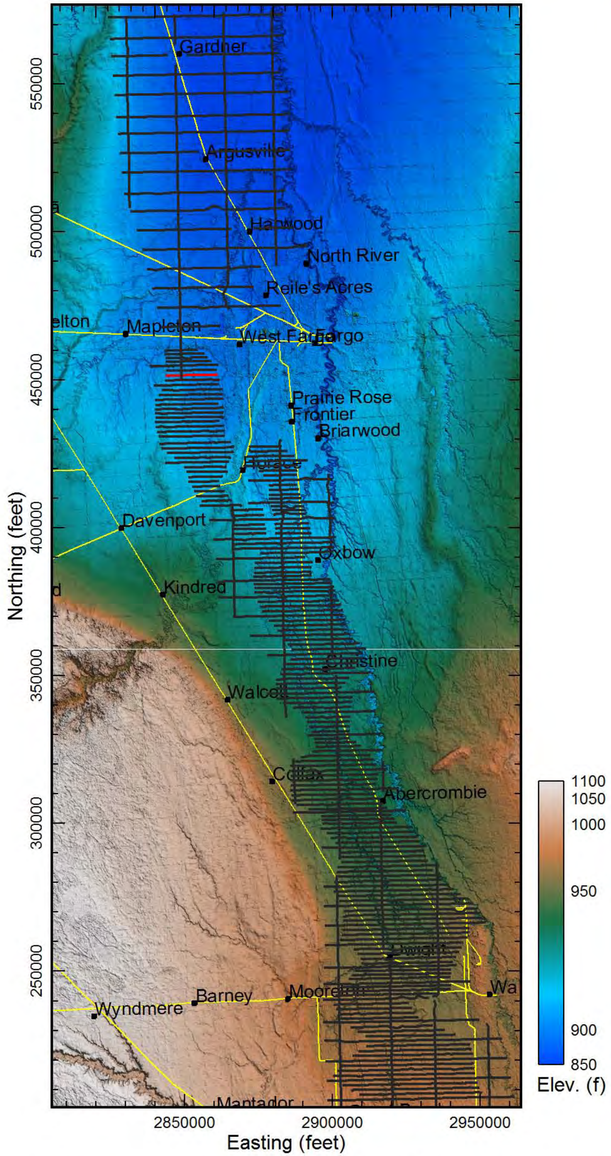

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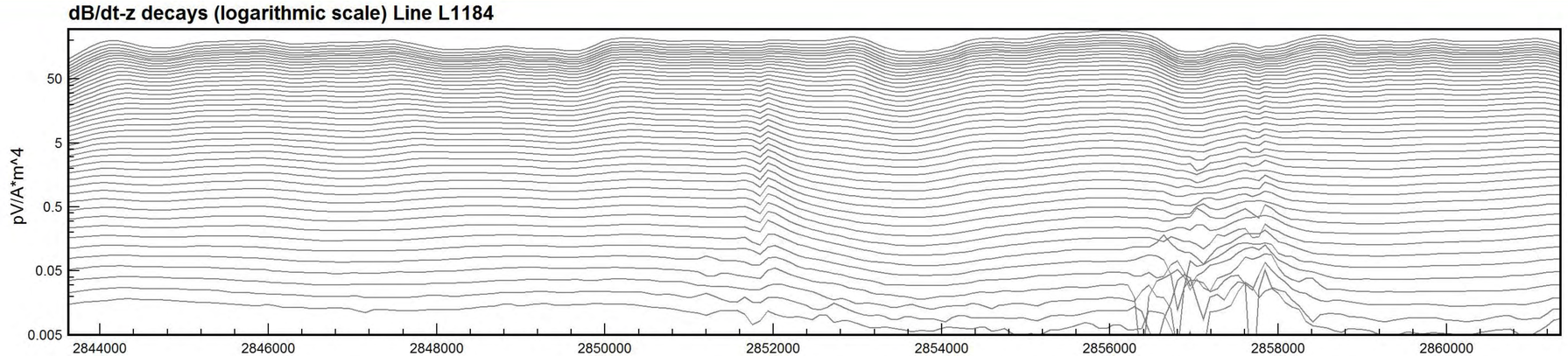

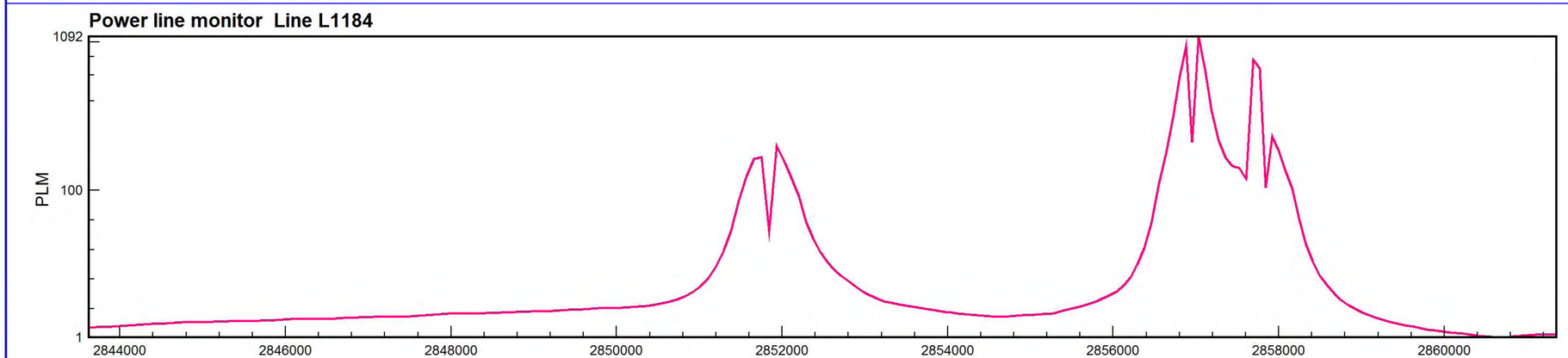

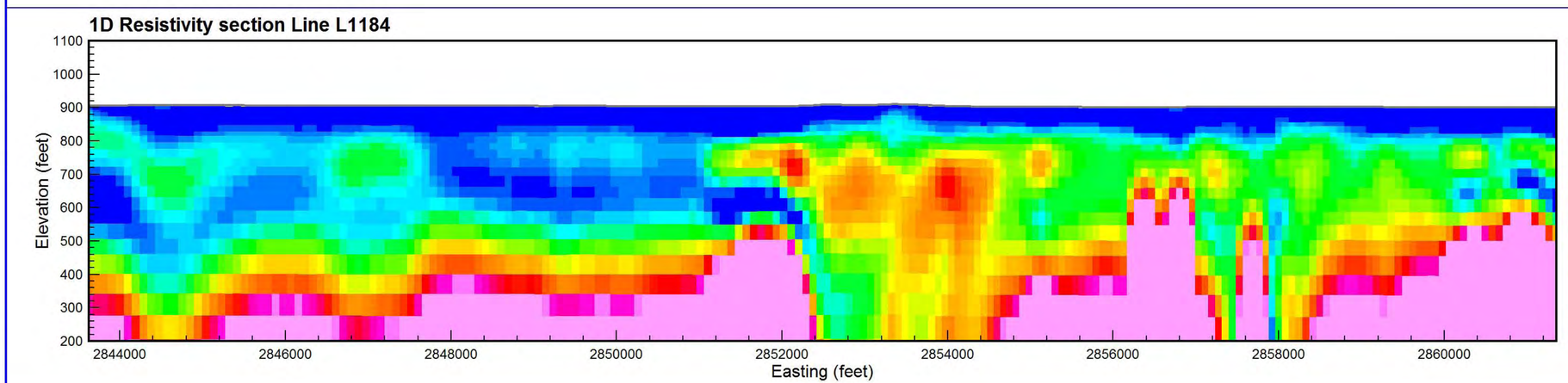

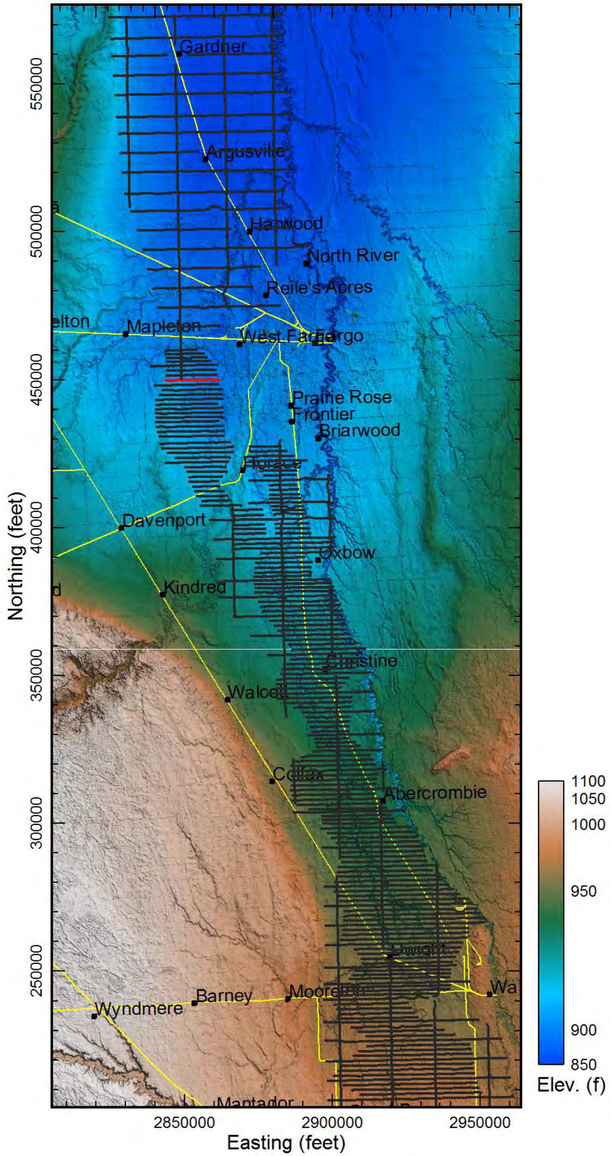

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Unconstrained 1D inversion results
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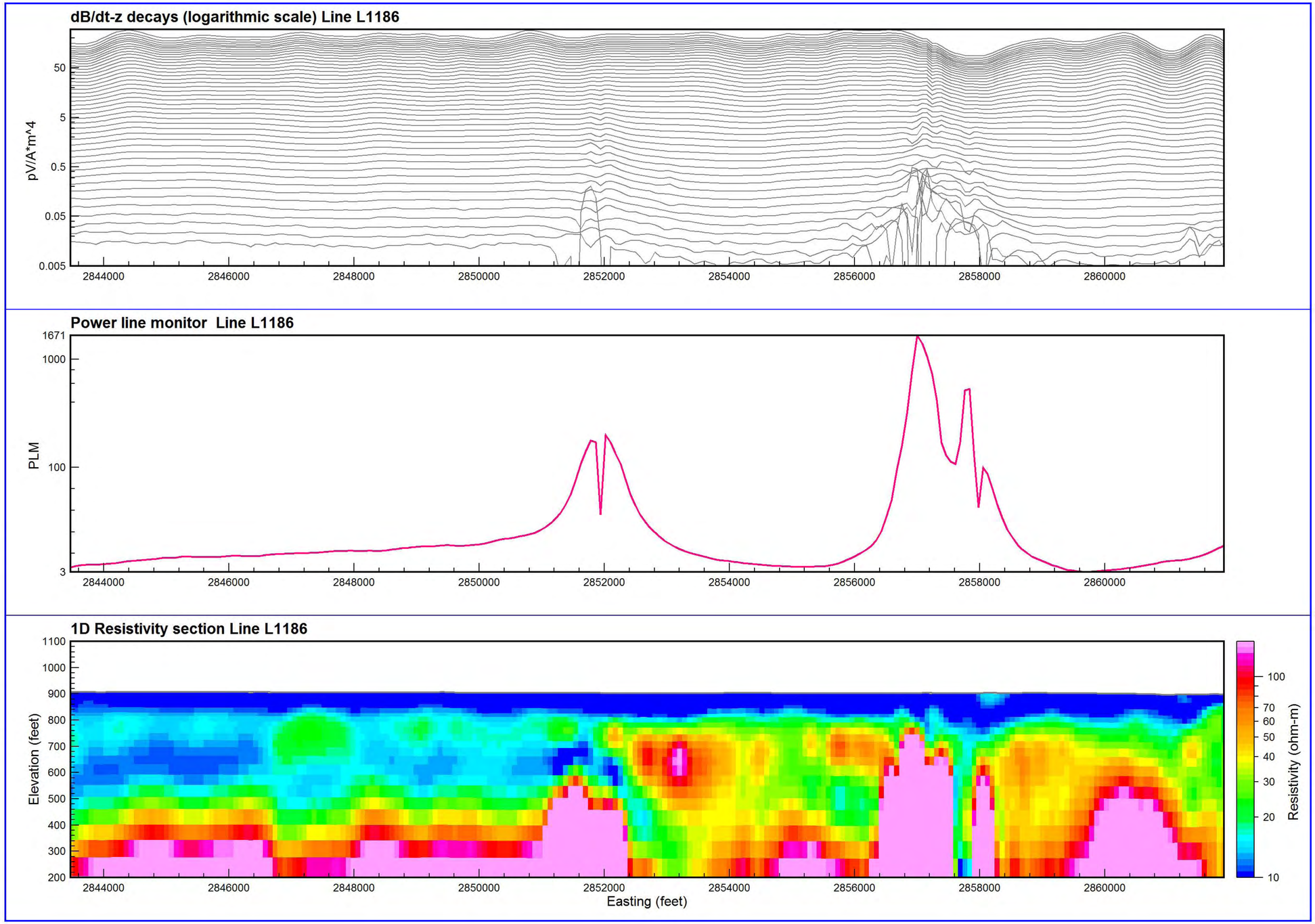

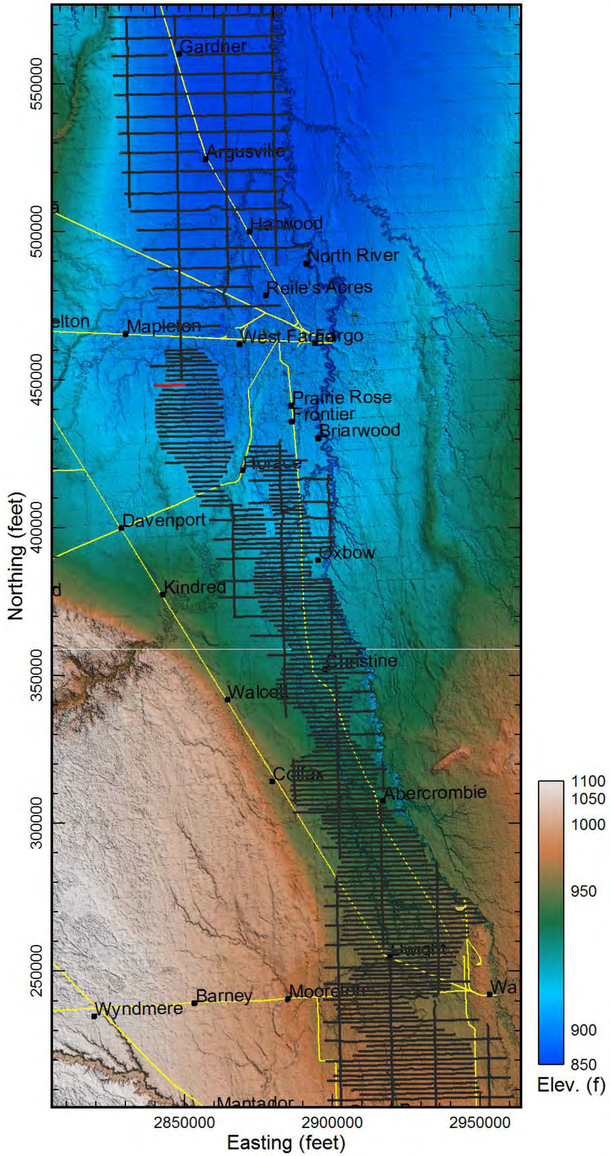

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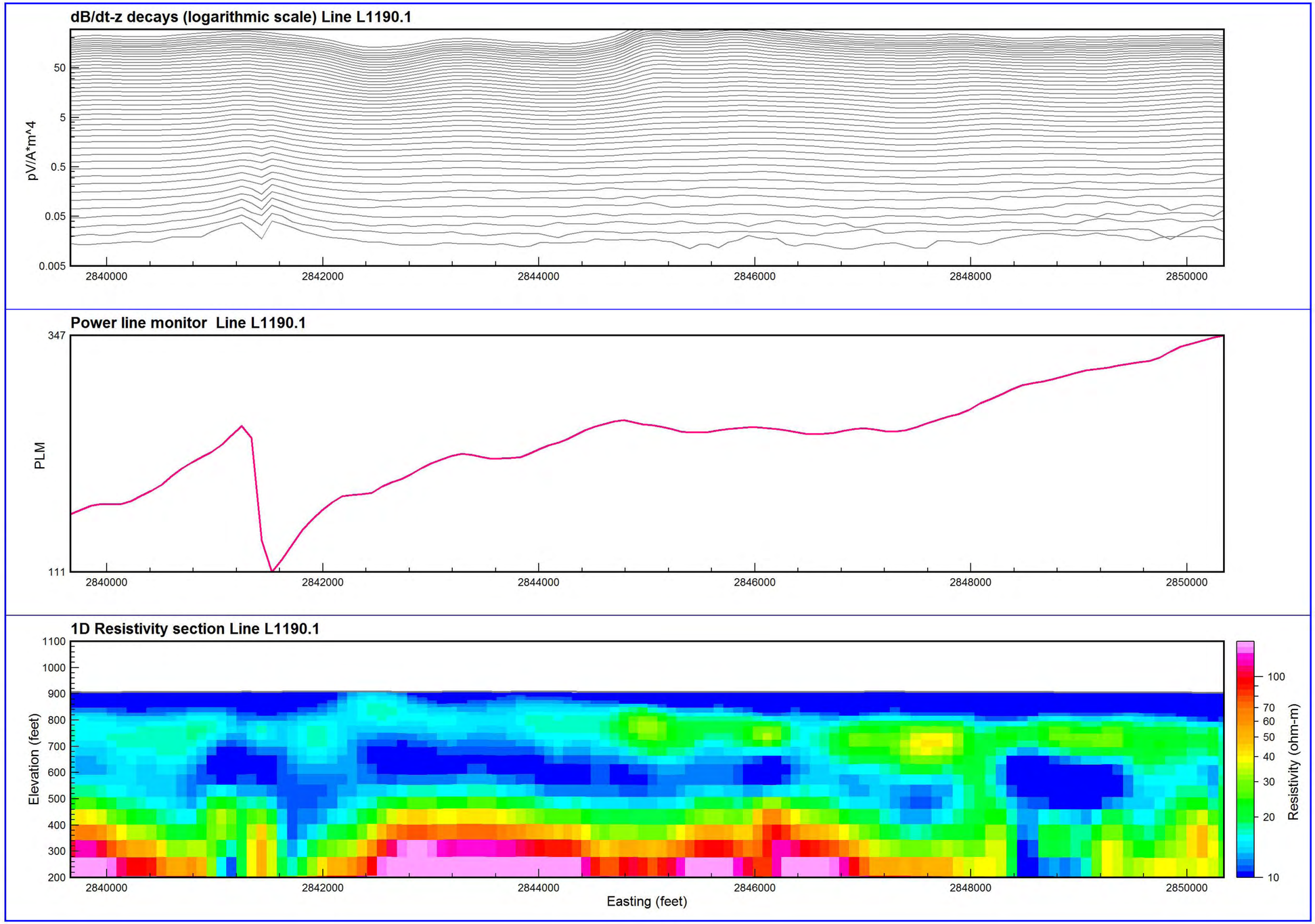

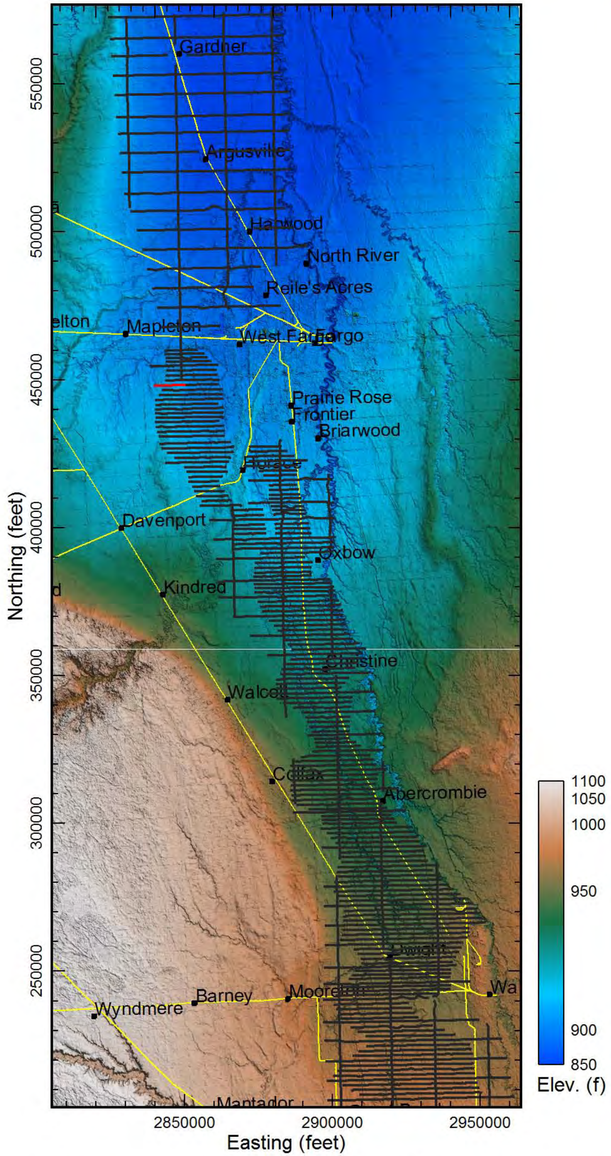

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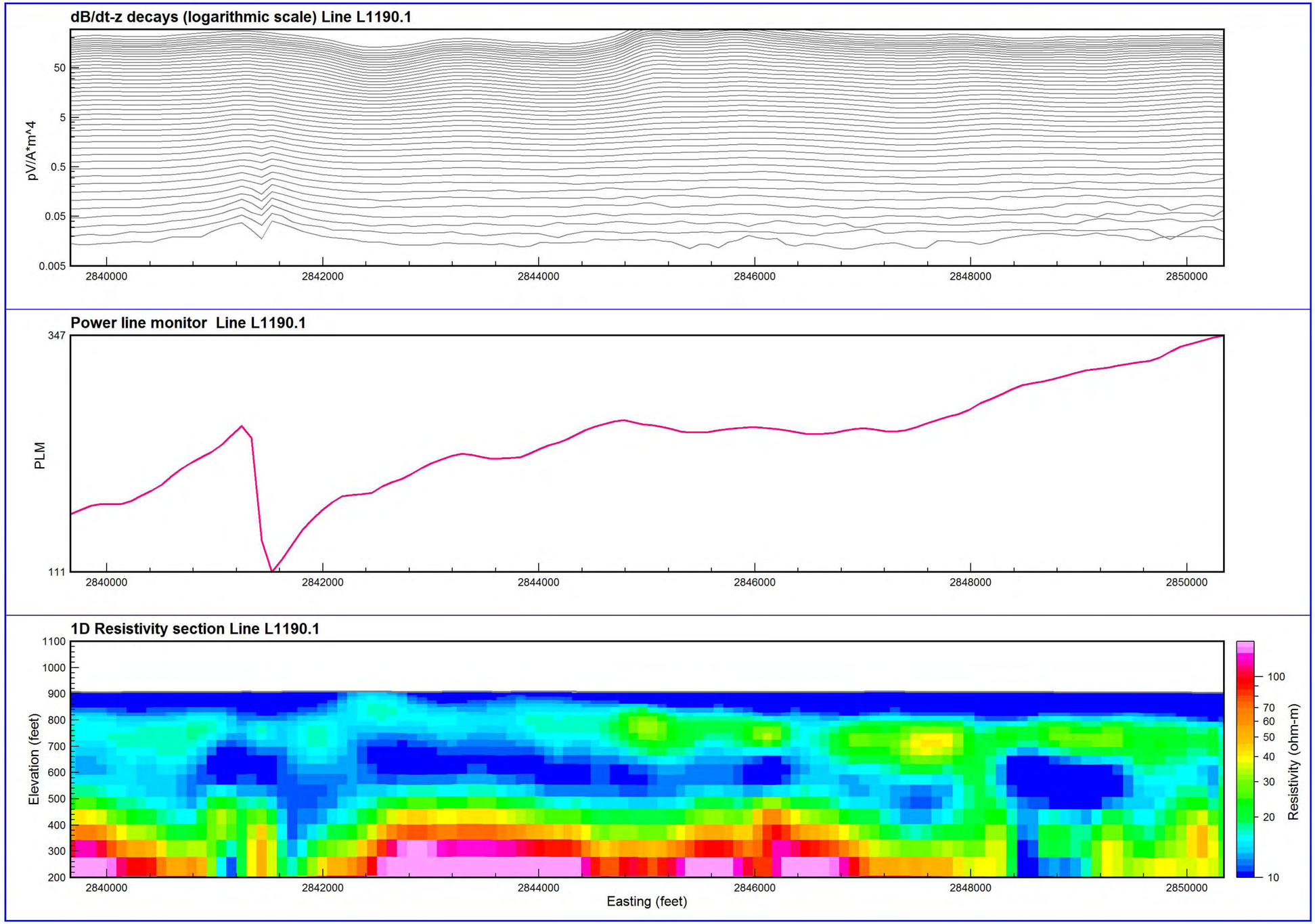

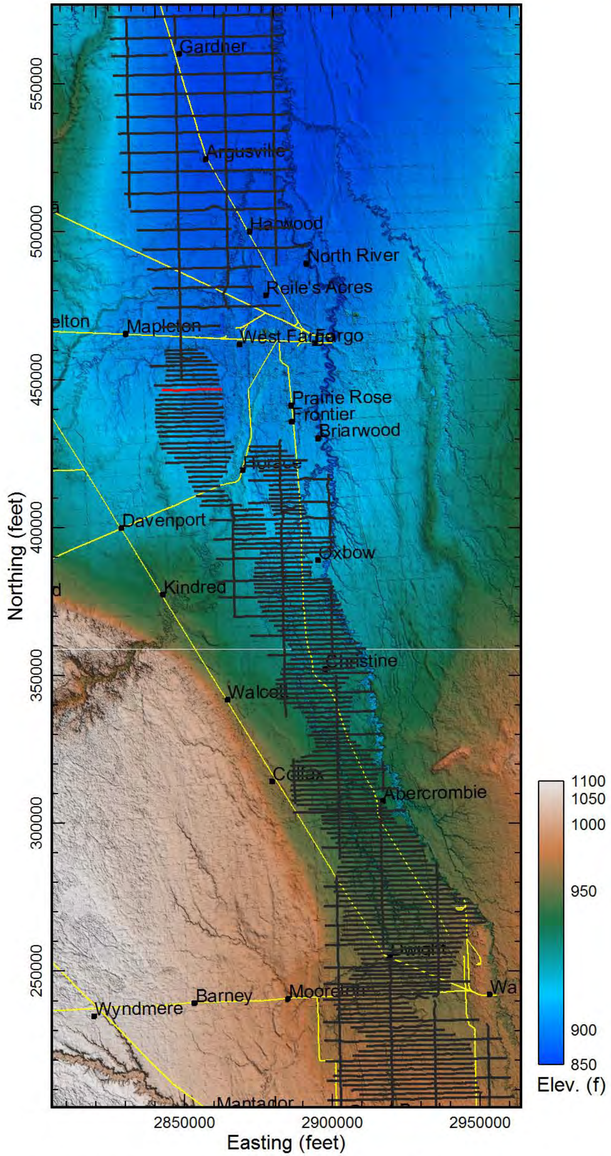

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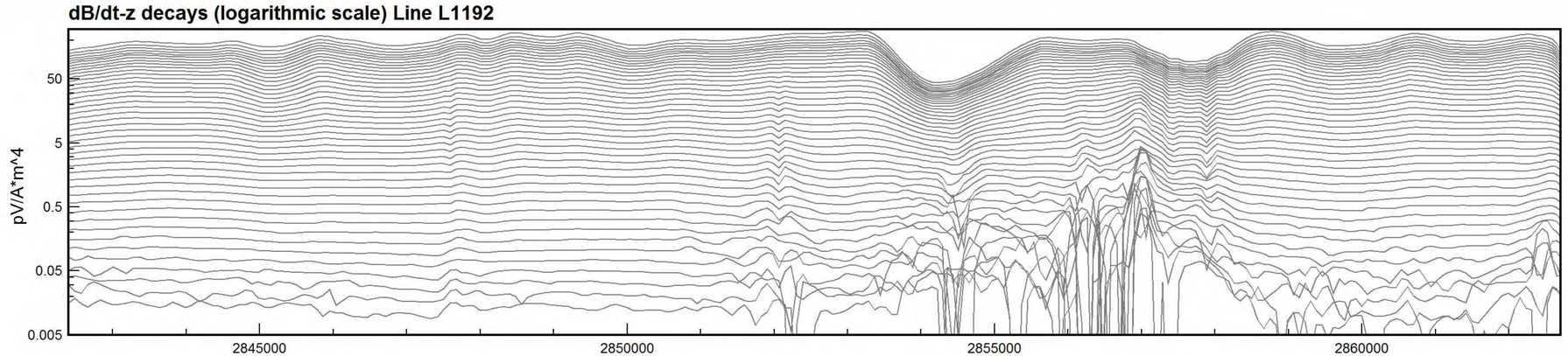

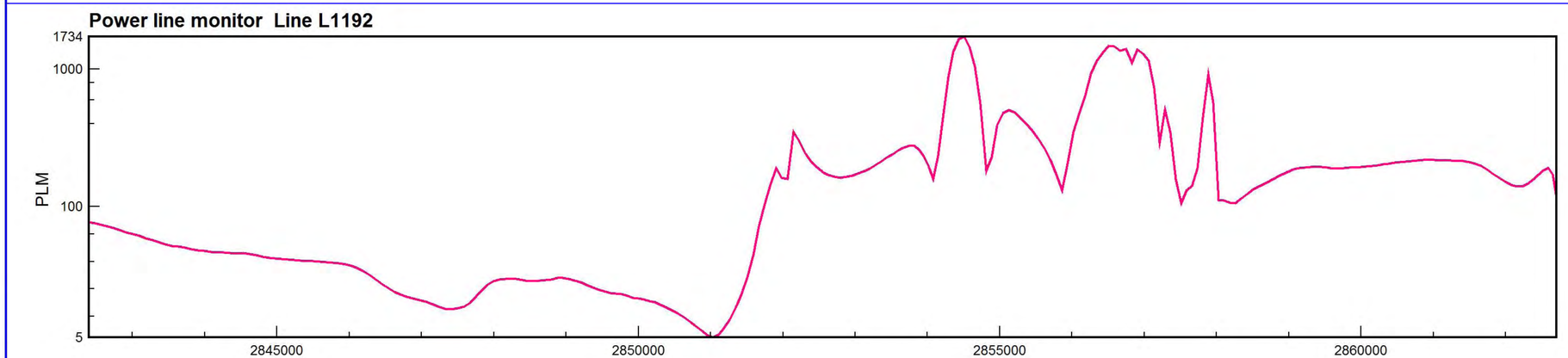

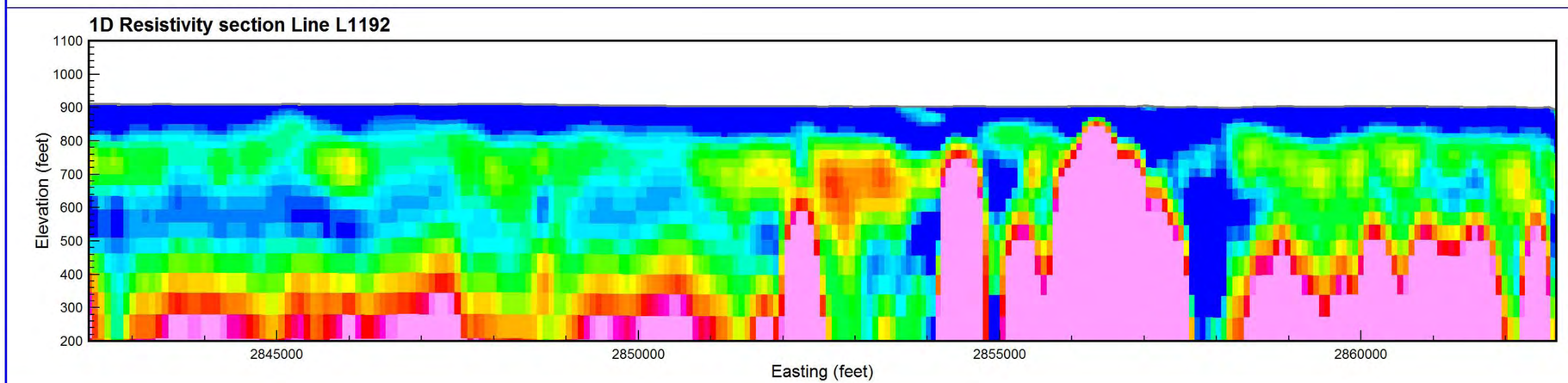

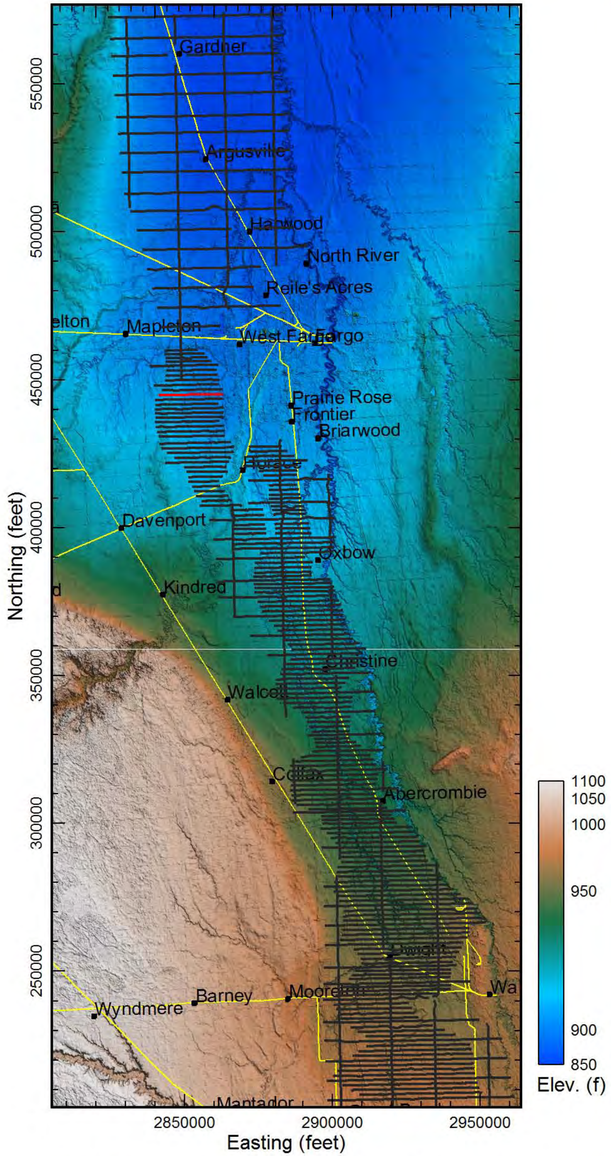

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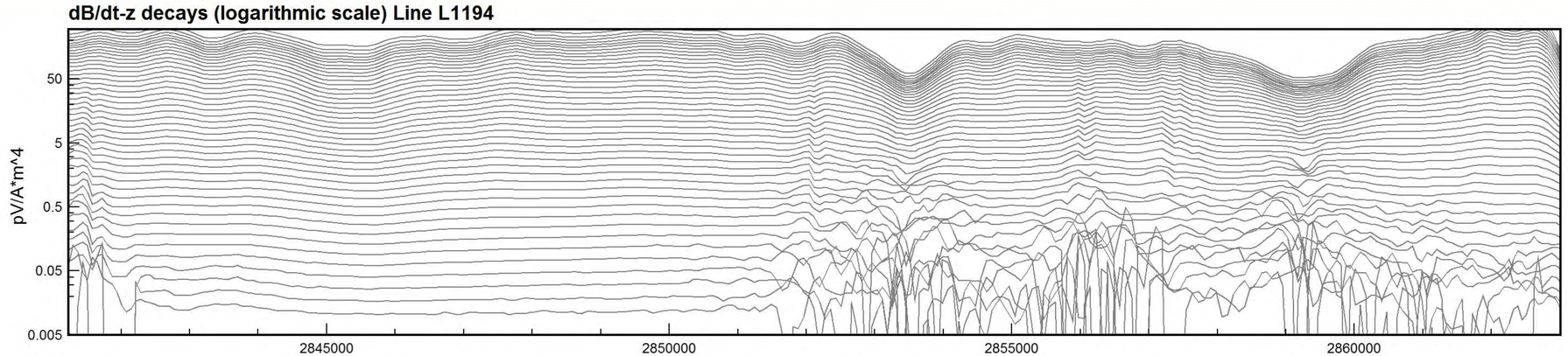

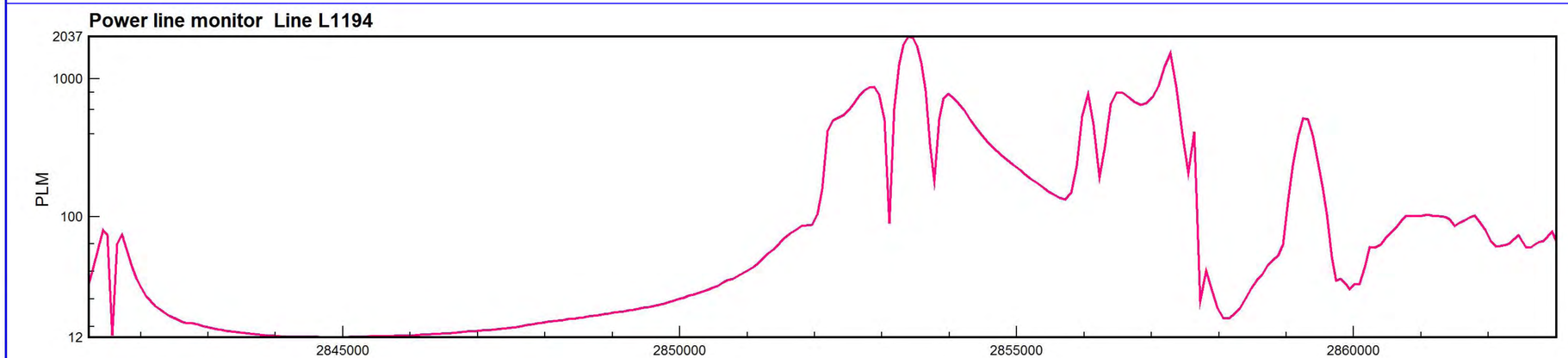

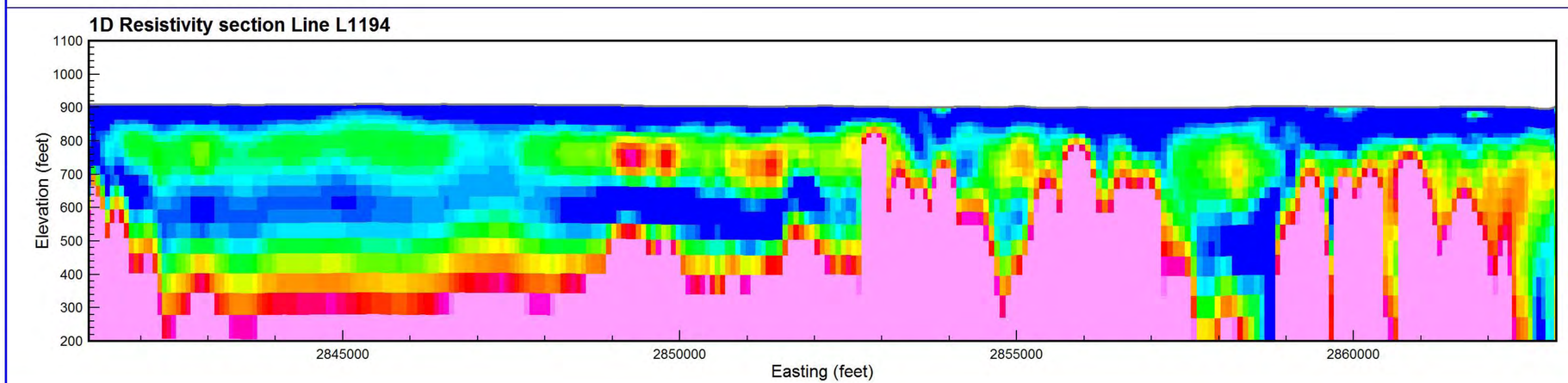

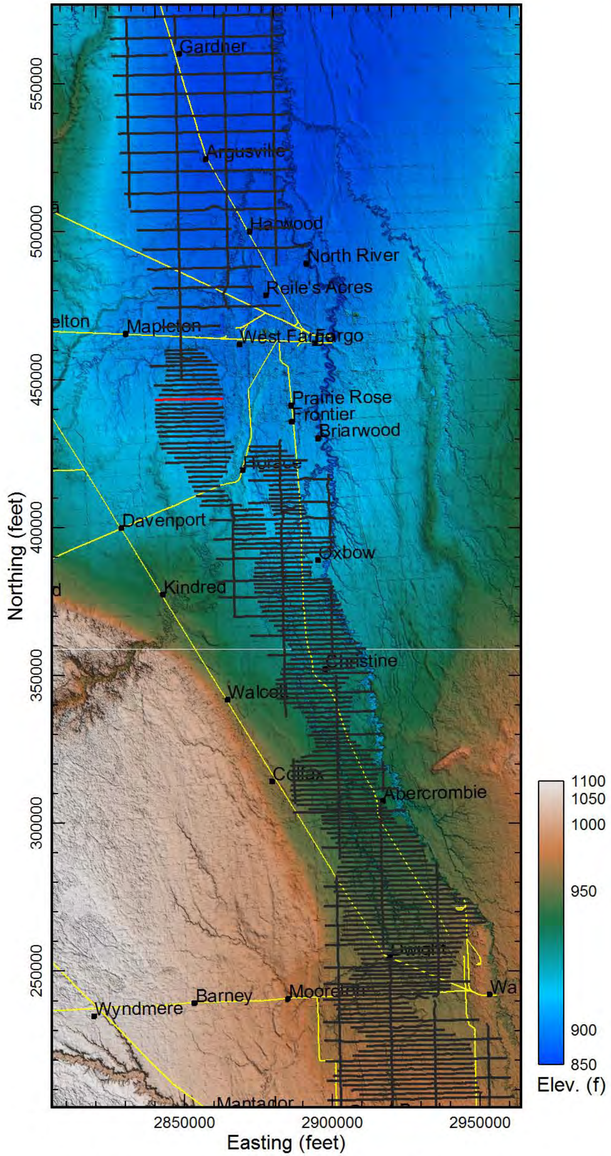

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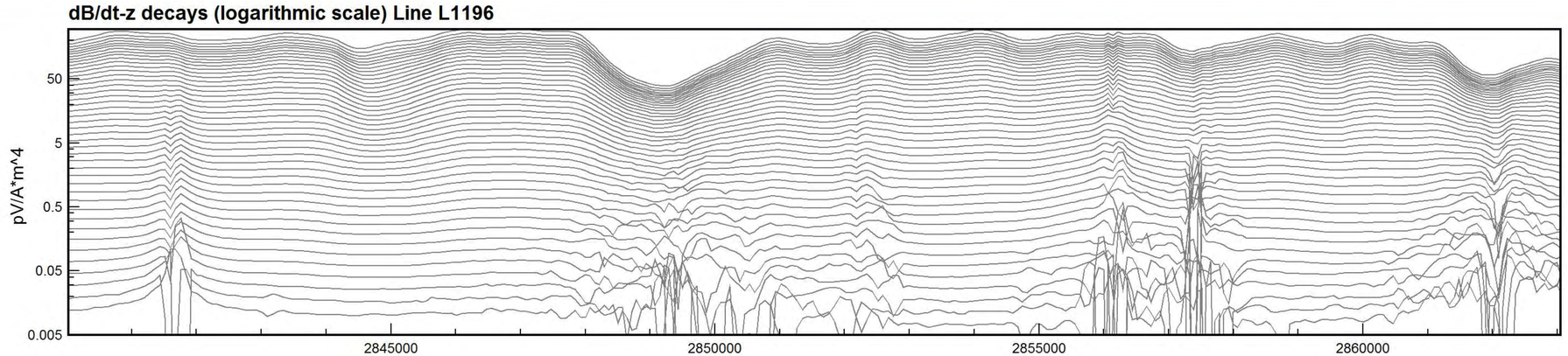

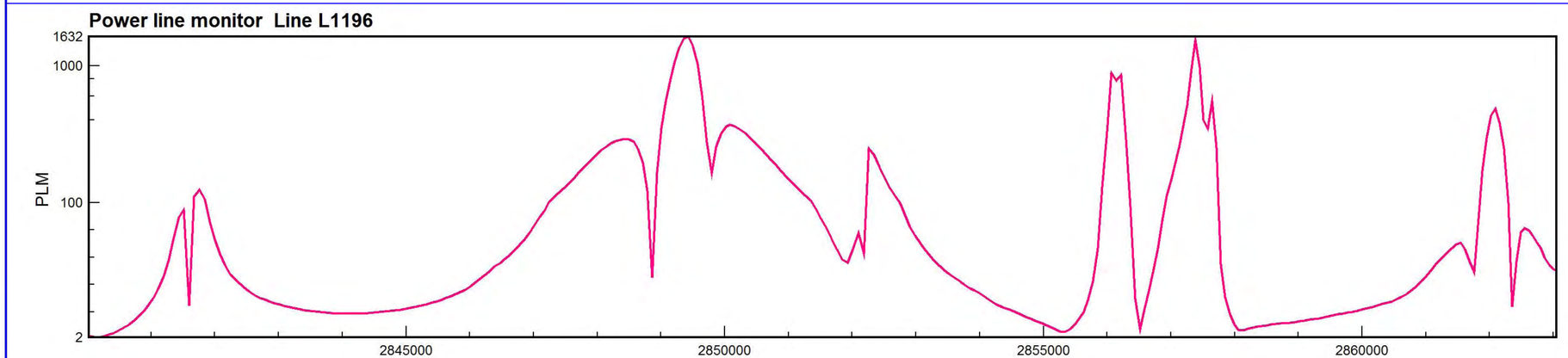

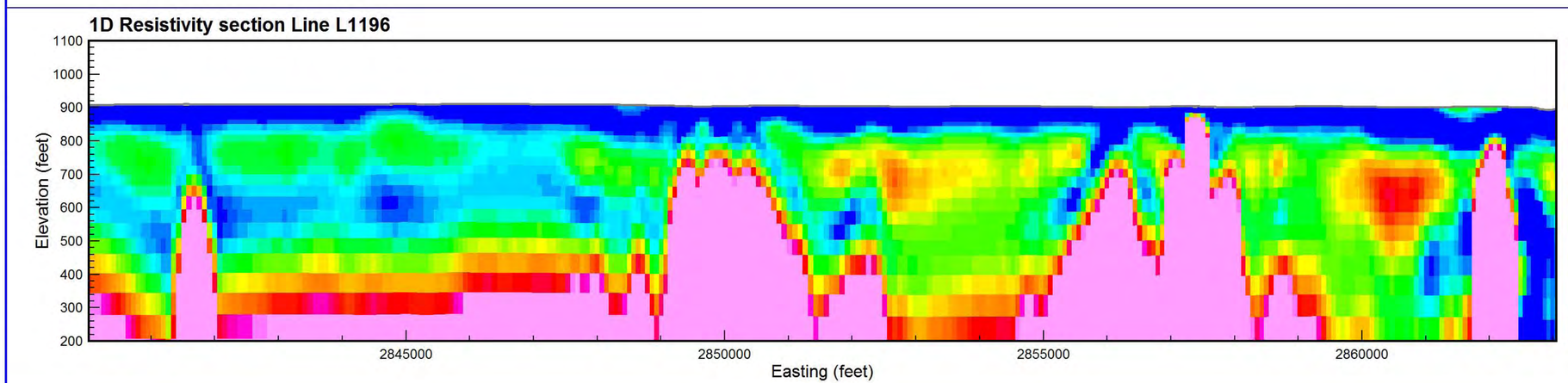

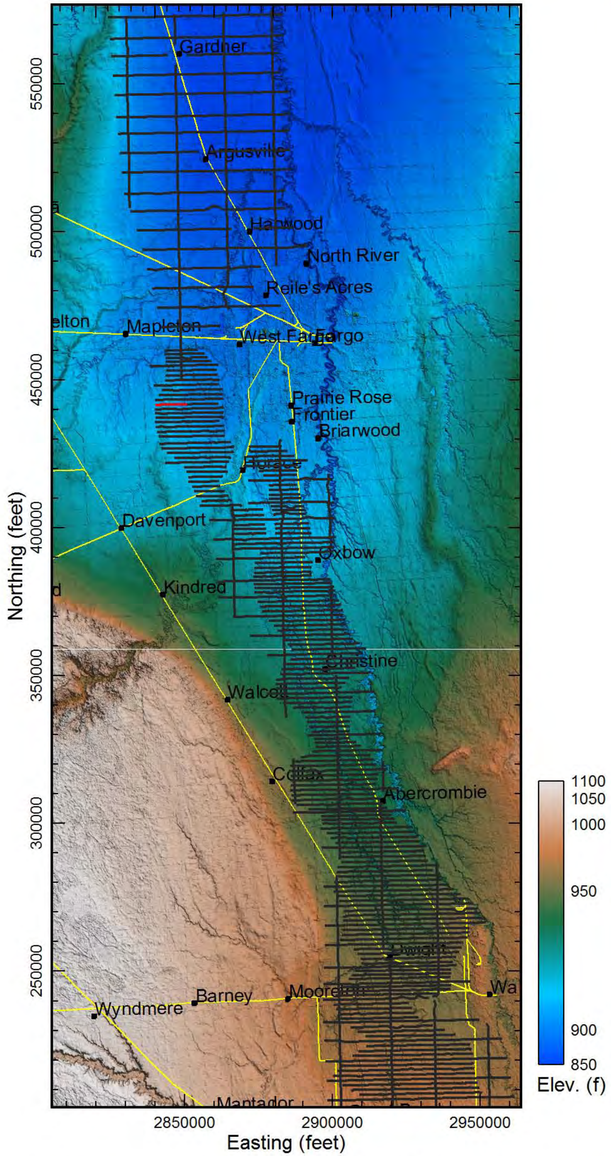

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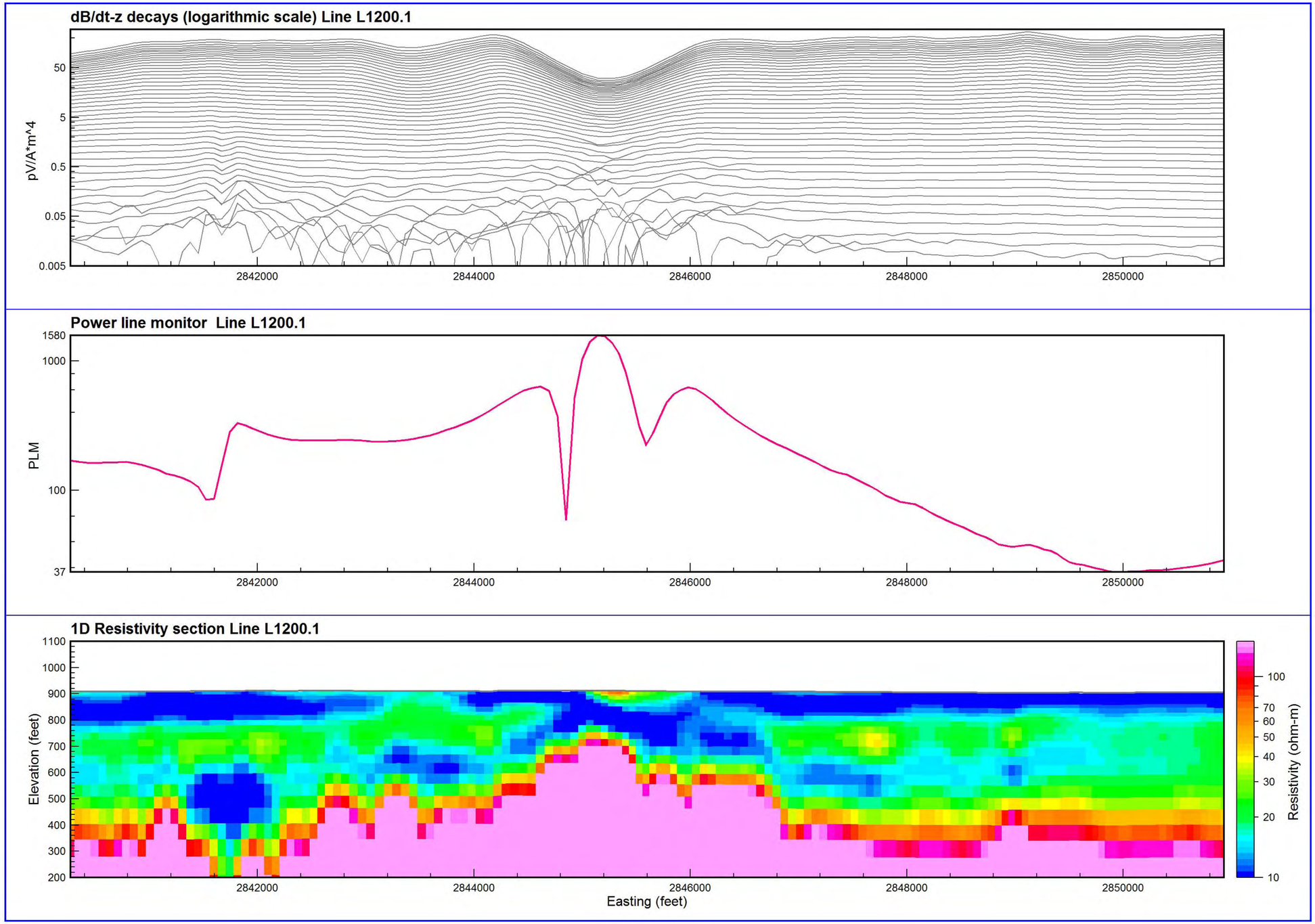

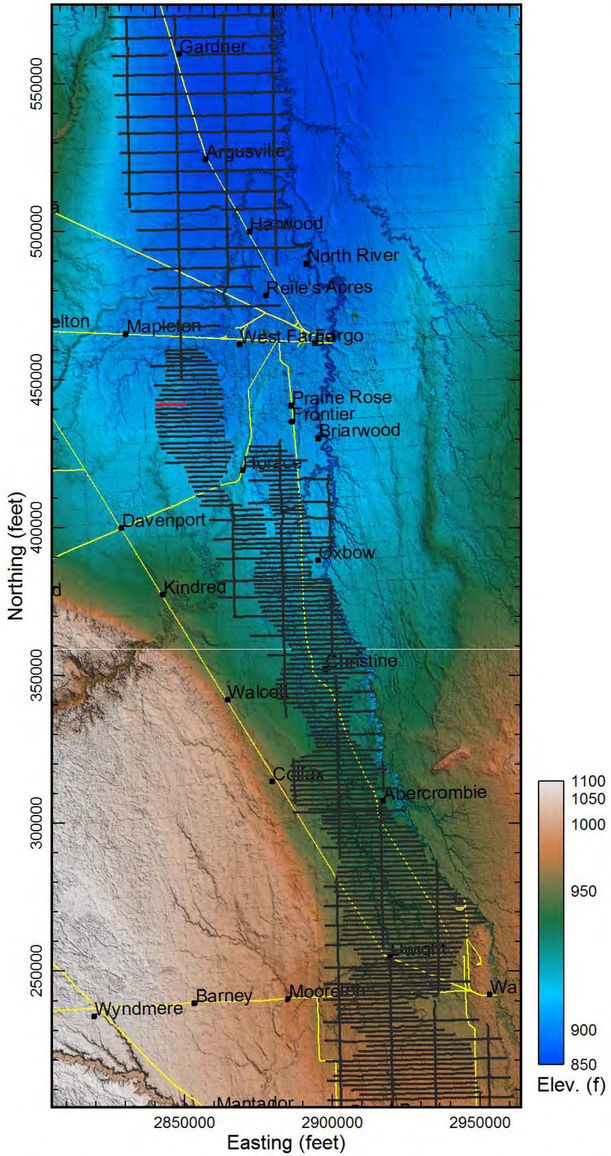

Map projection: NAD83 SPN Dakota South (int. feet)

Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

Date: Feb. 2, 2018

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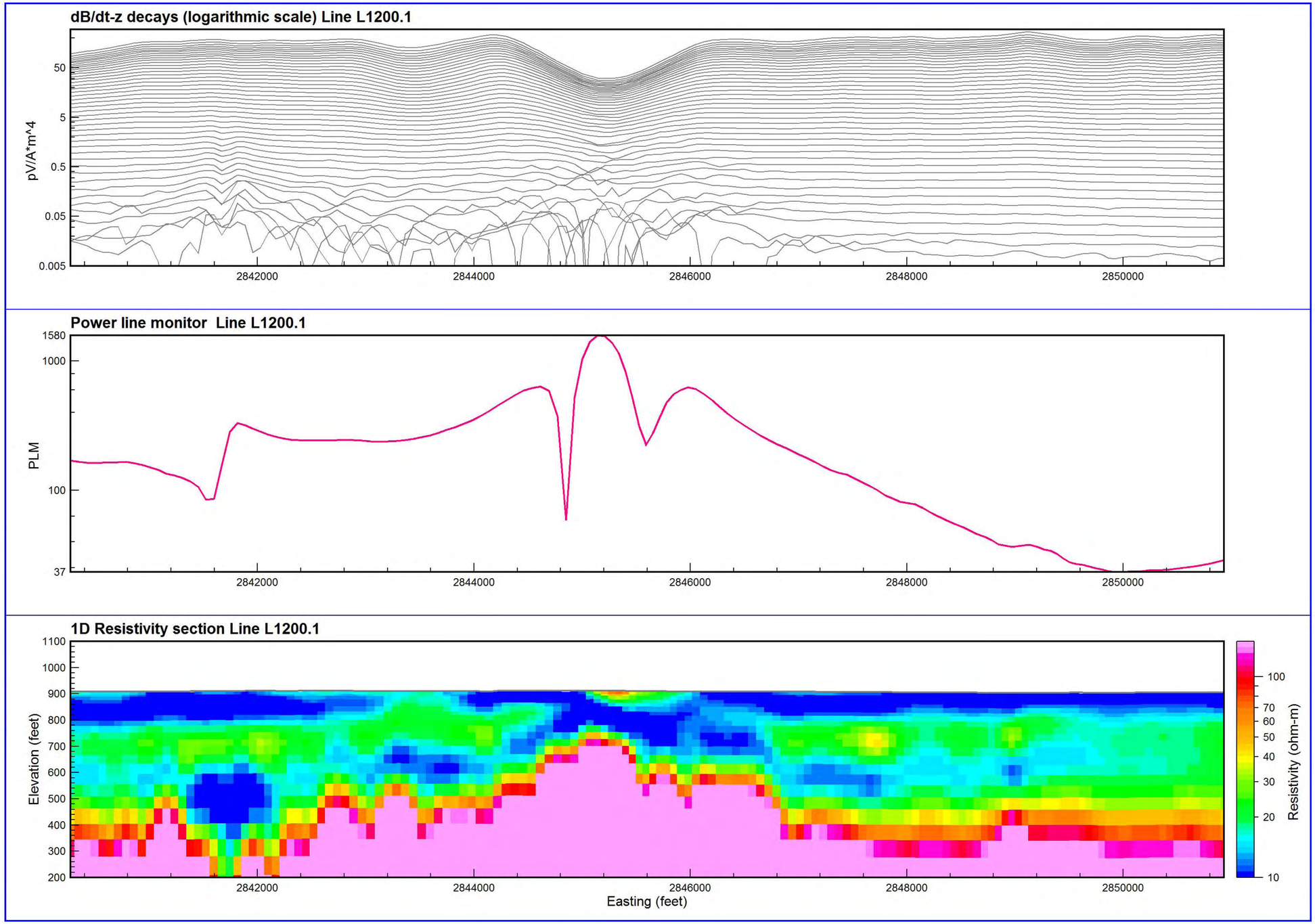

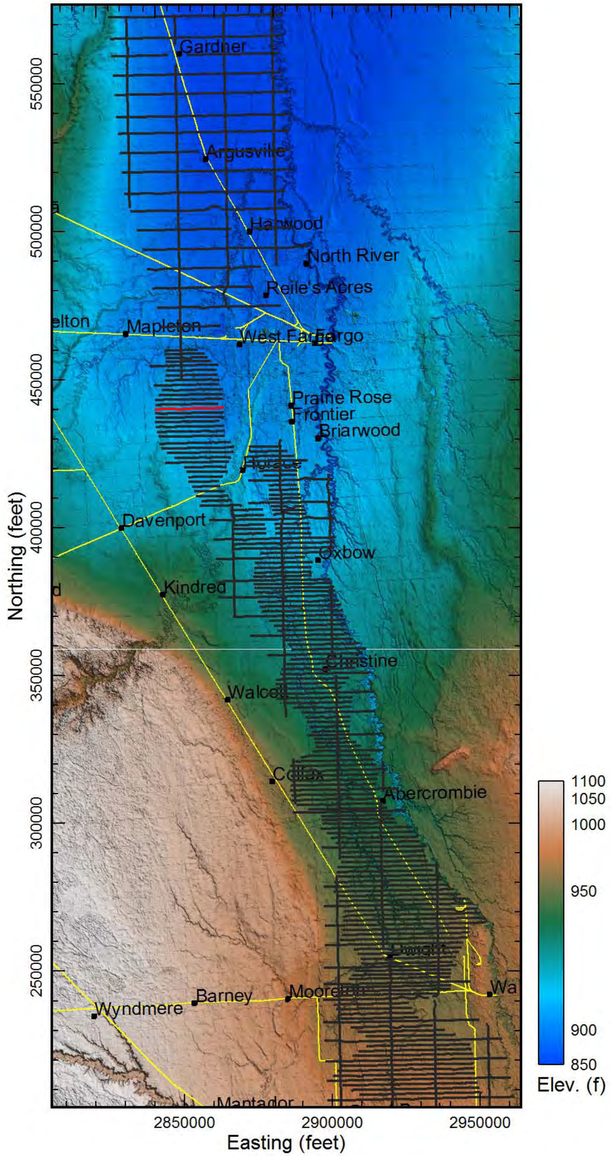

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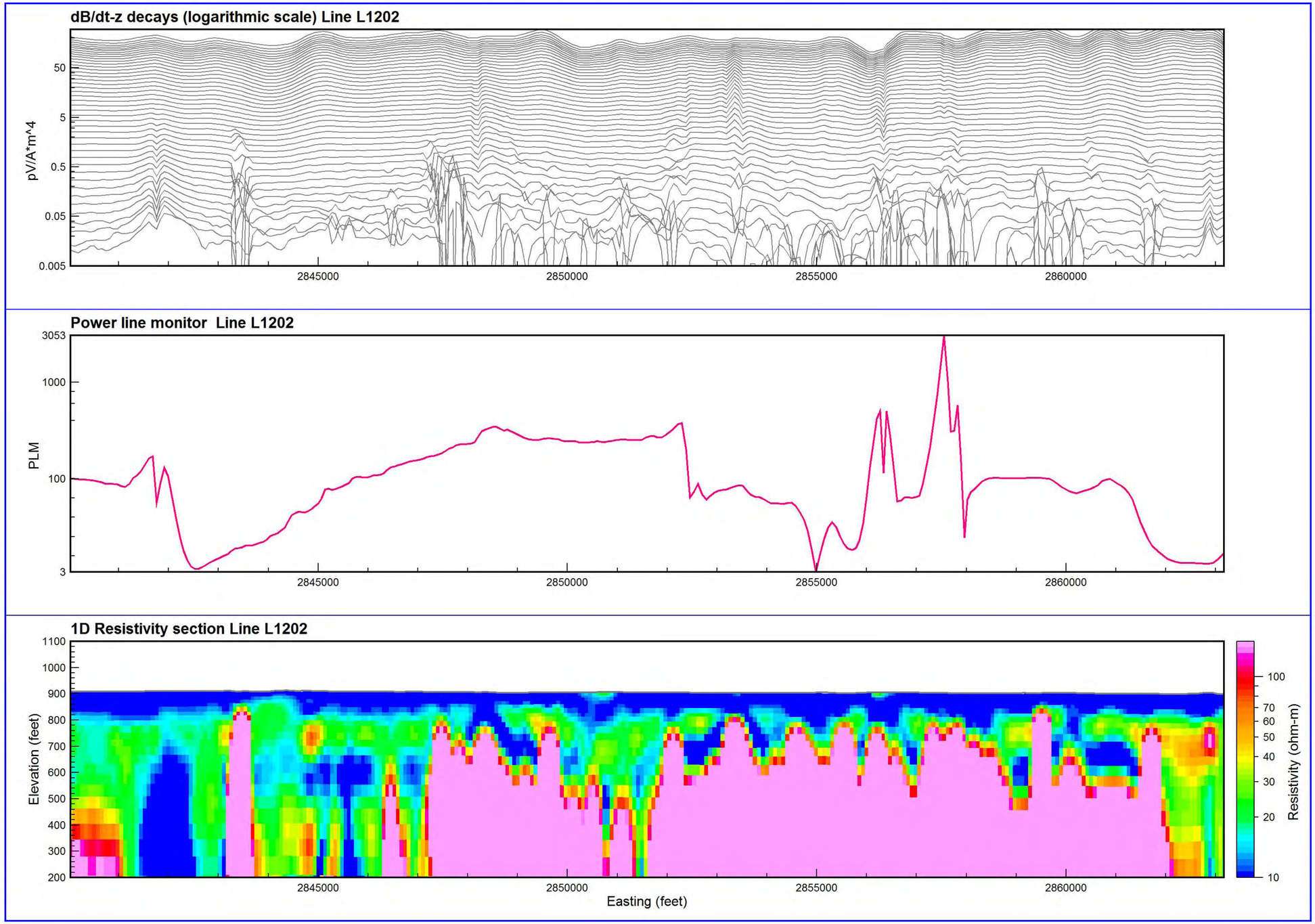

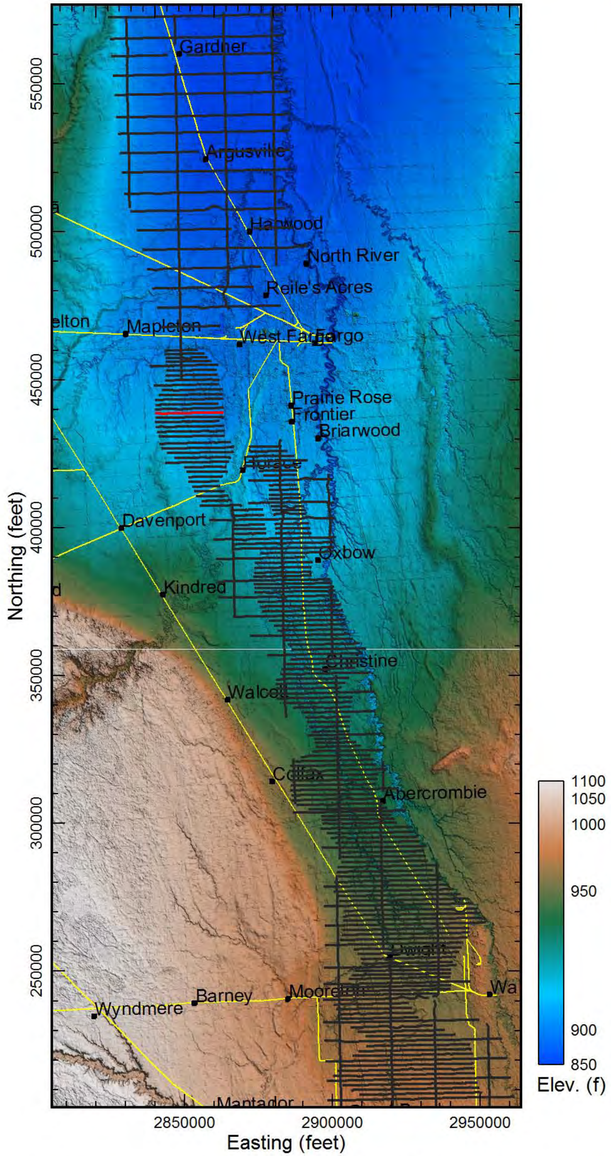

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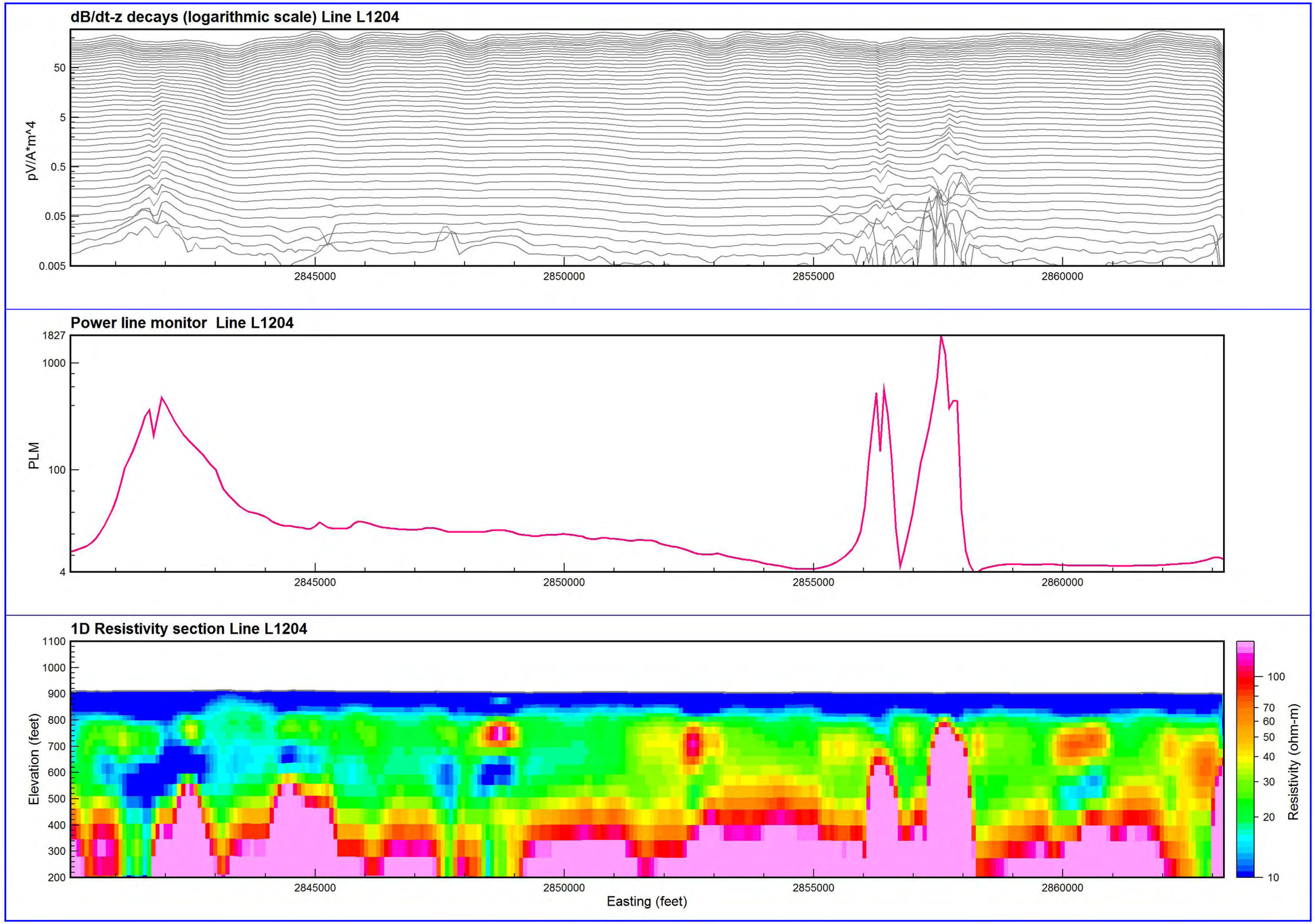

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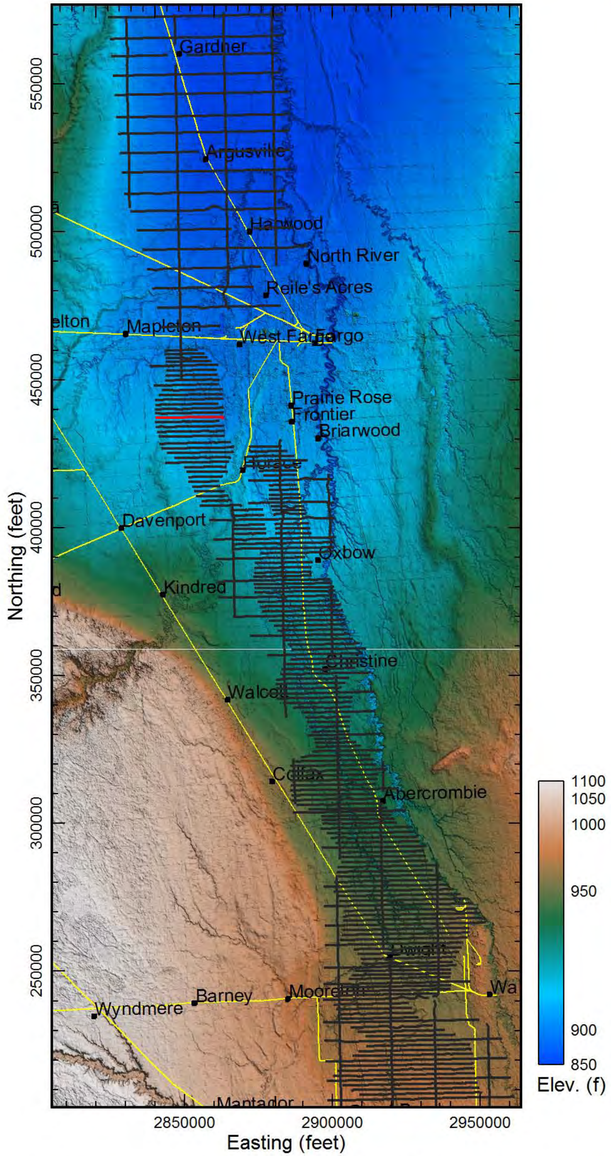

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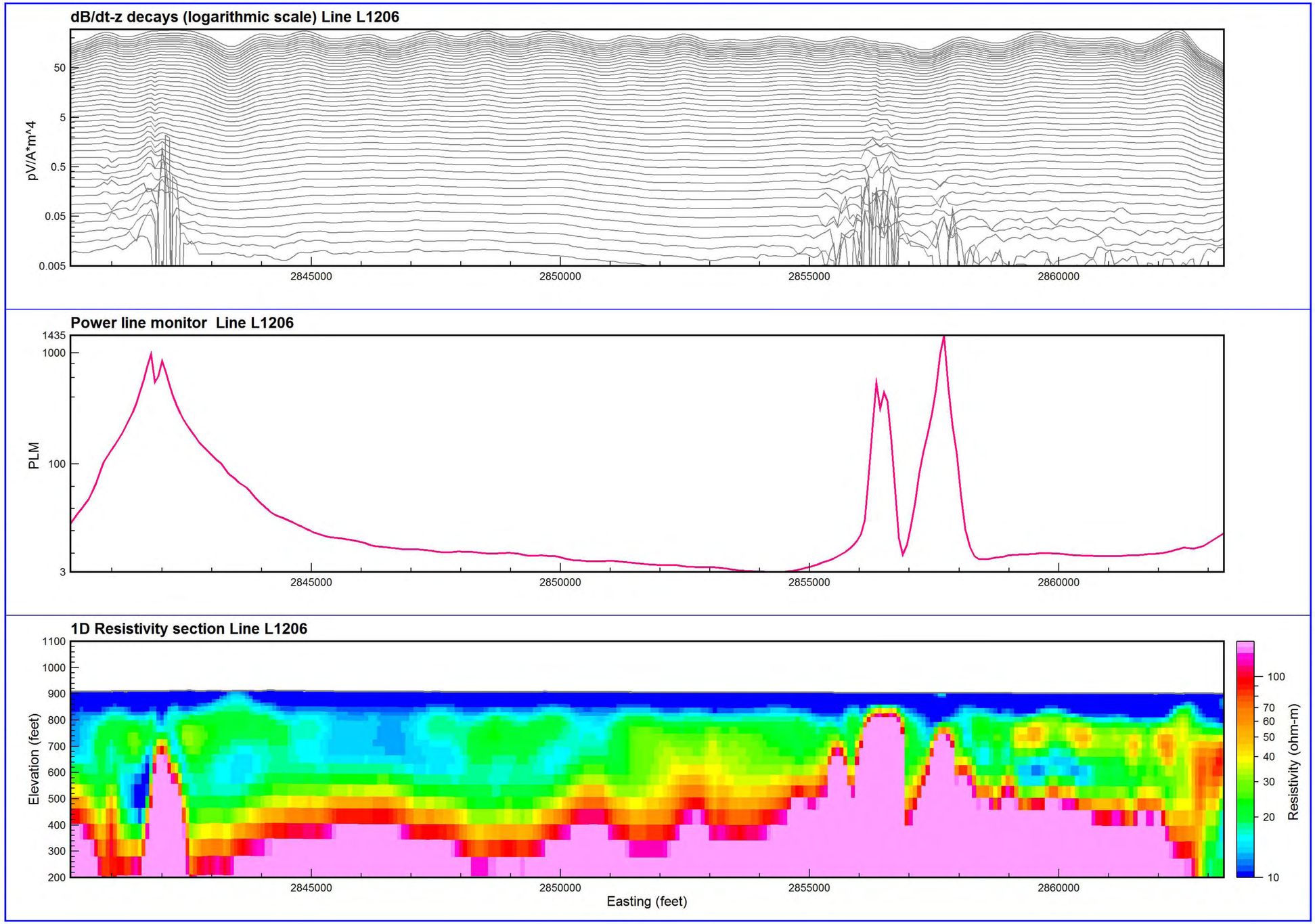

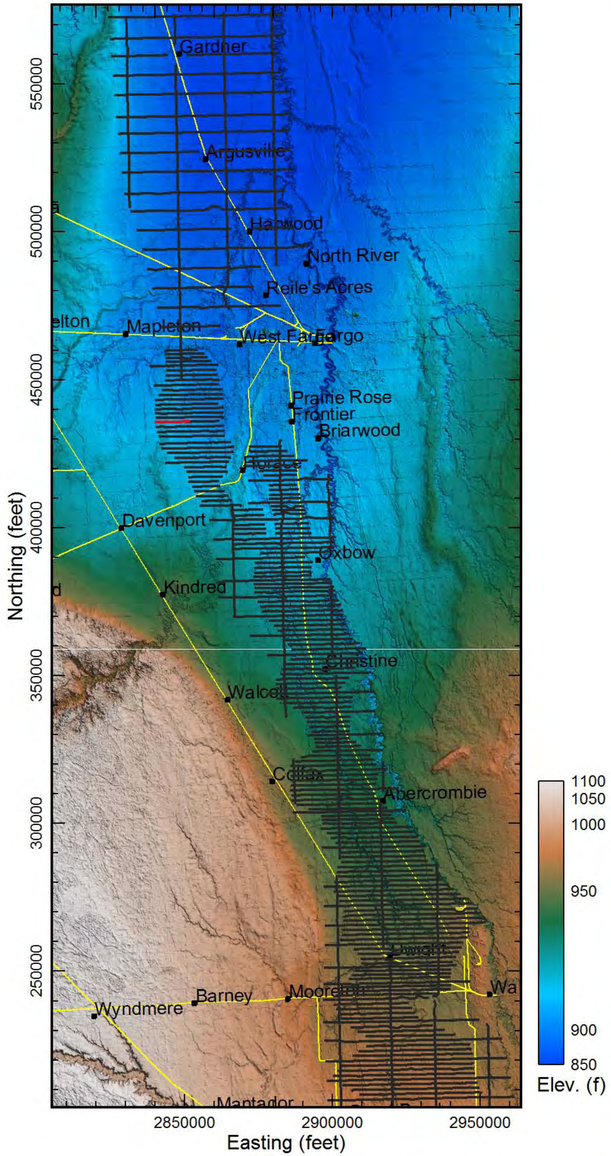

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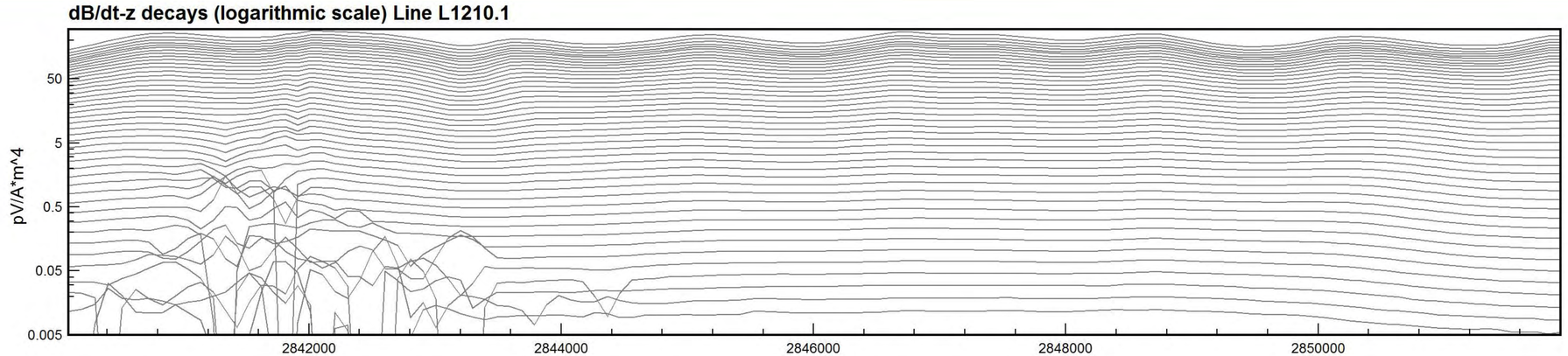

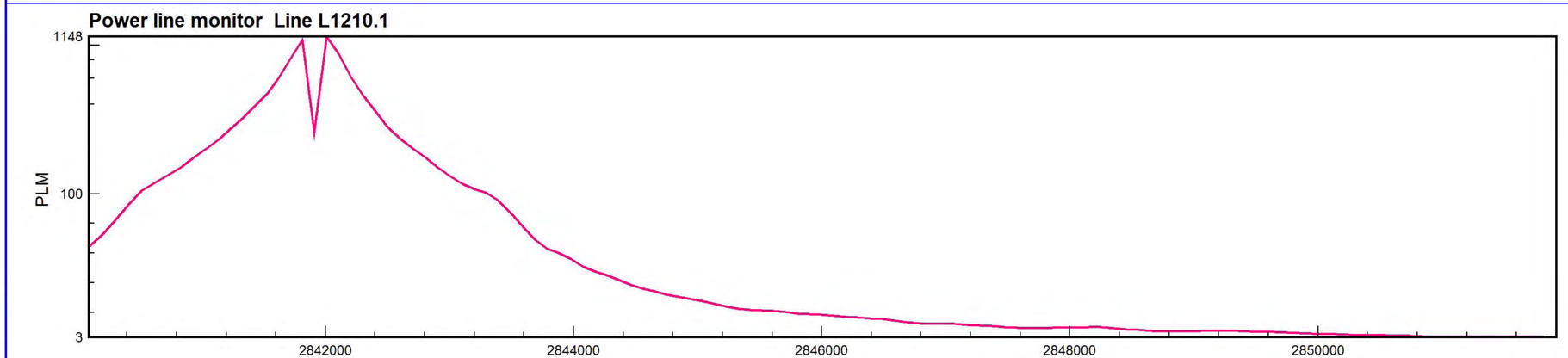

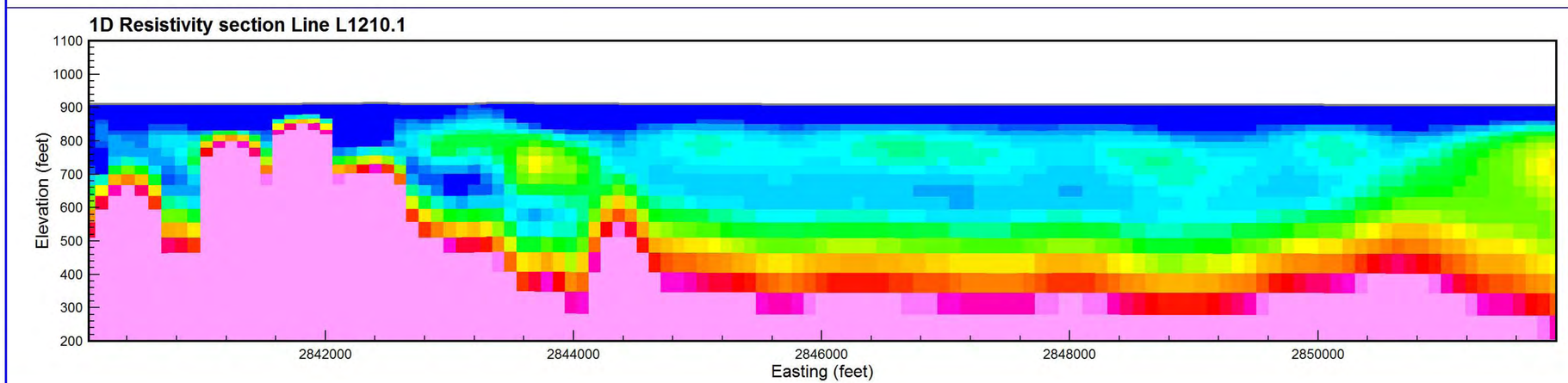

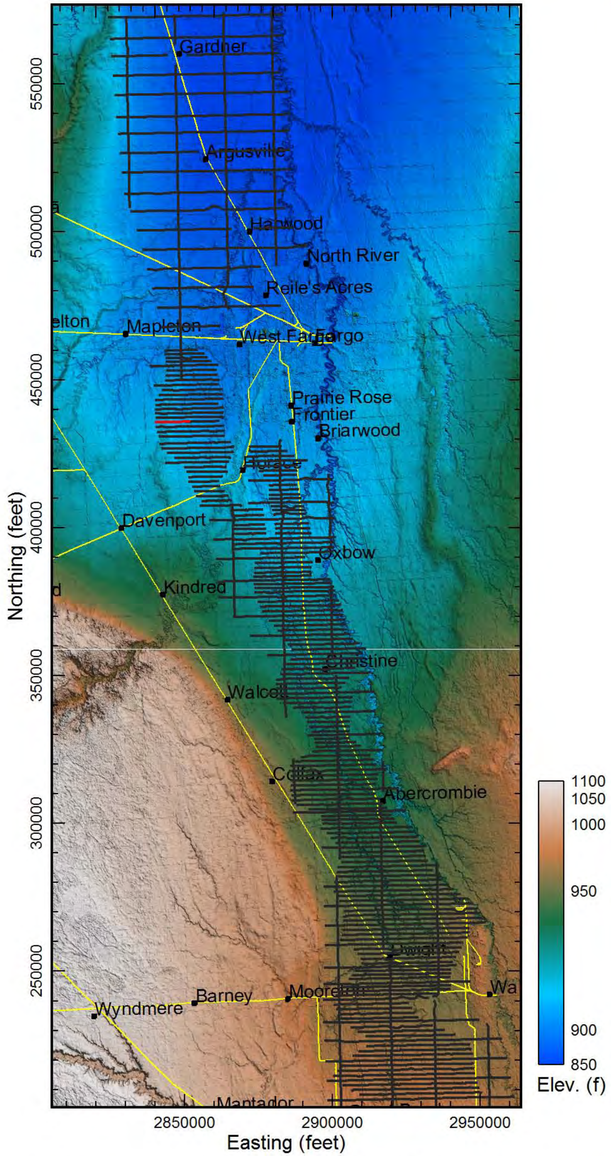

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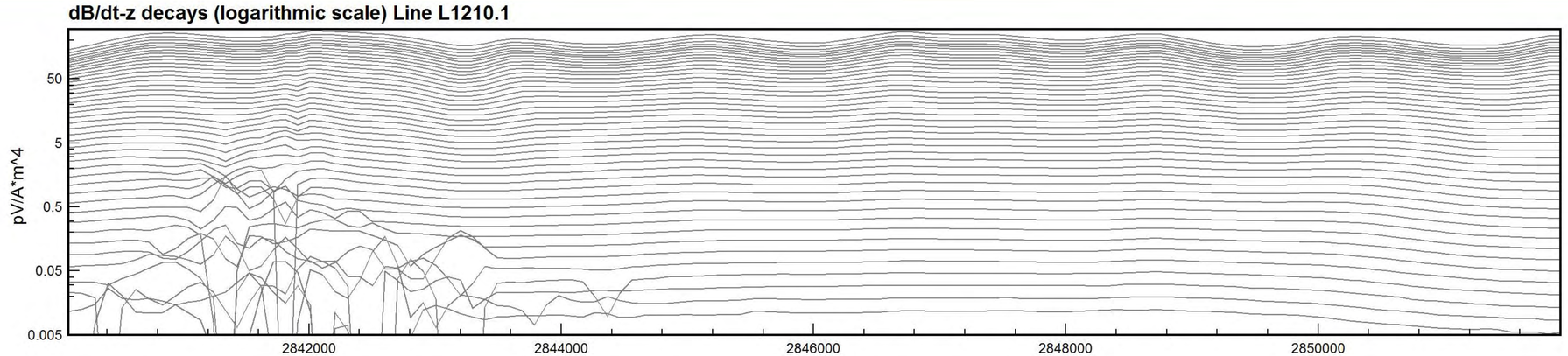

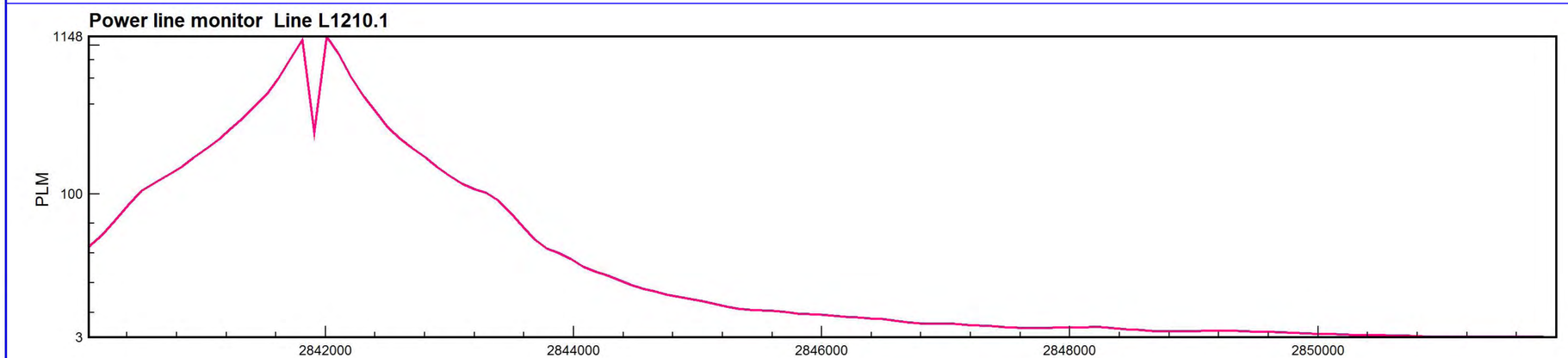

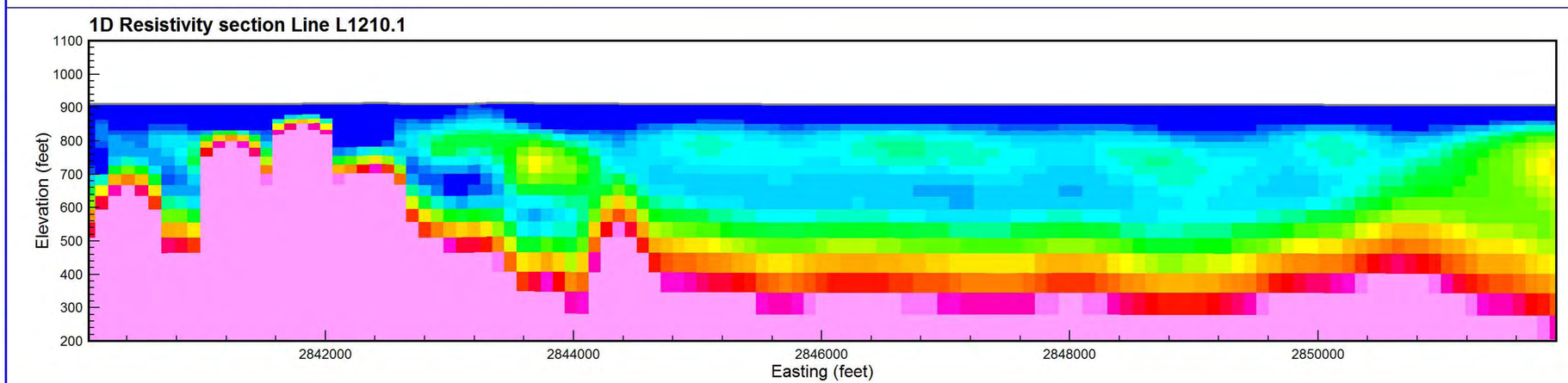

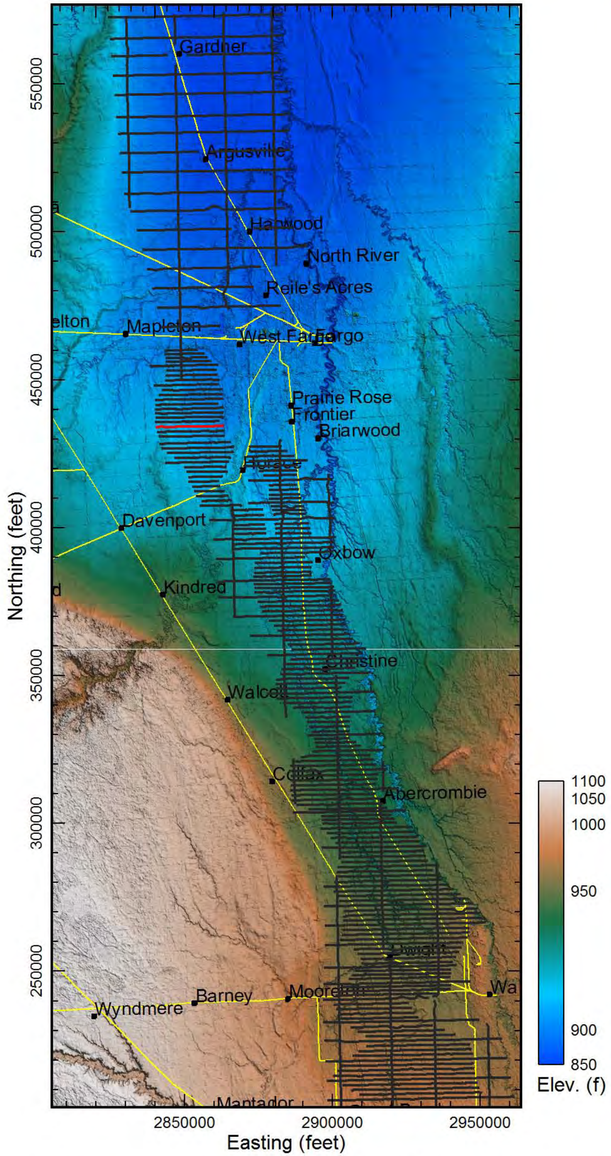

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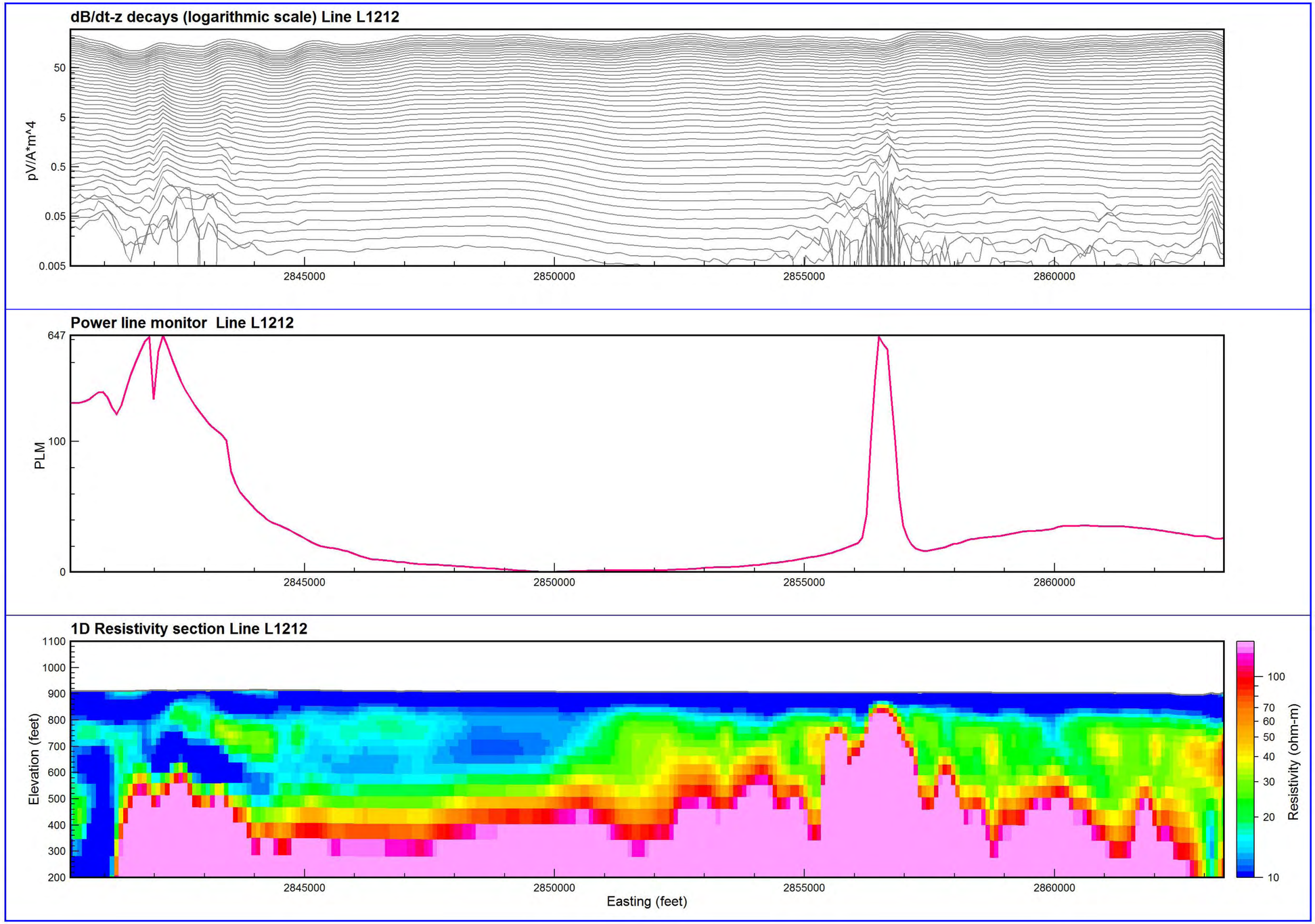

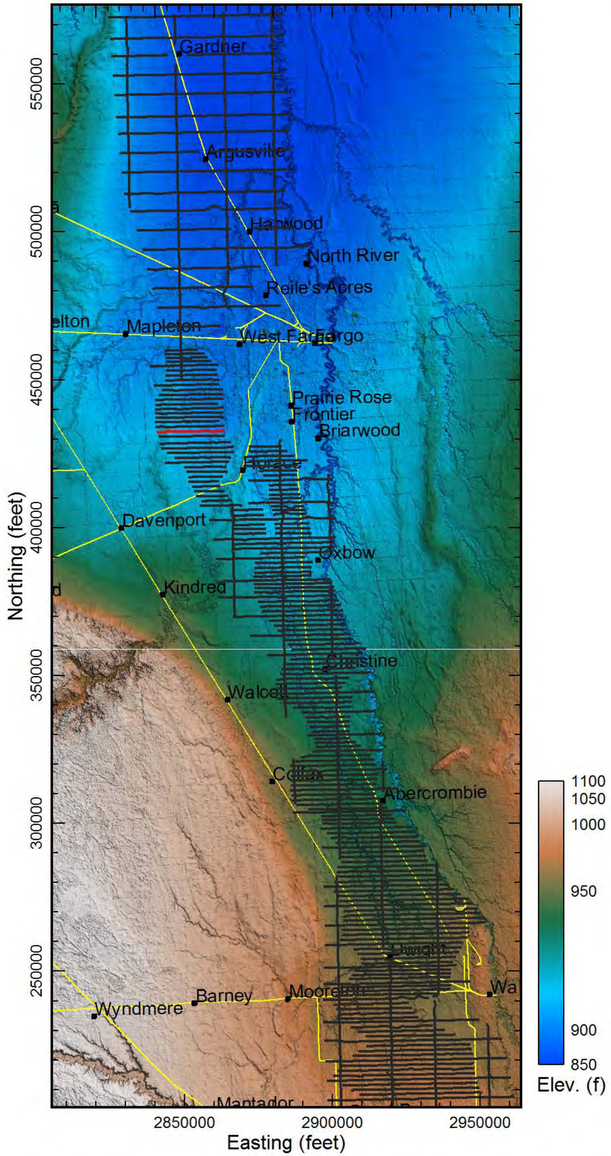

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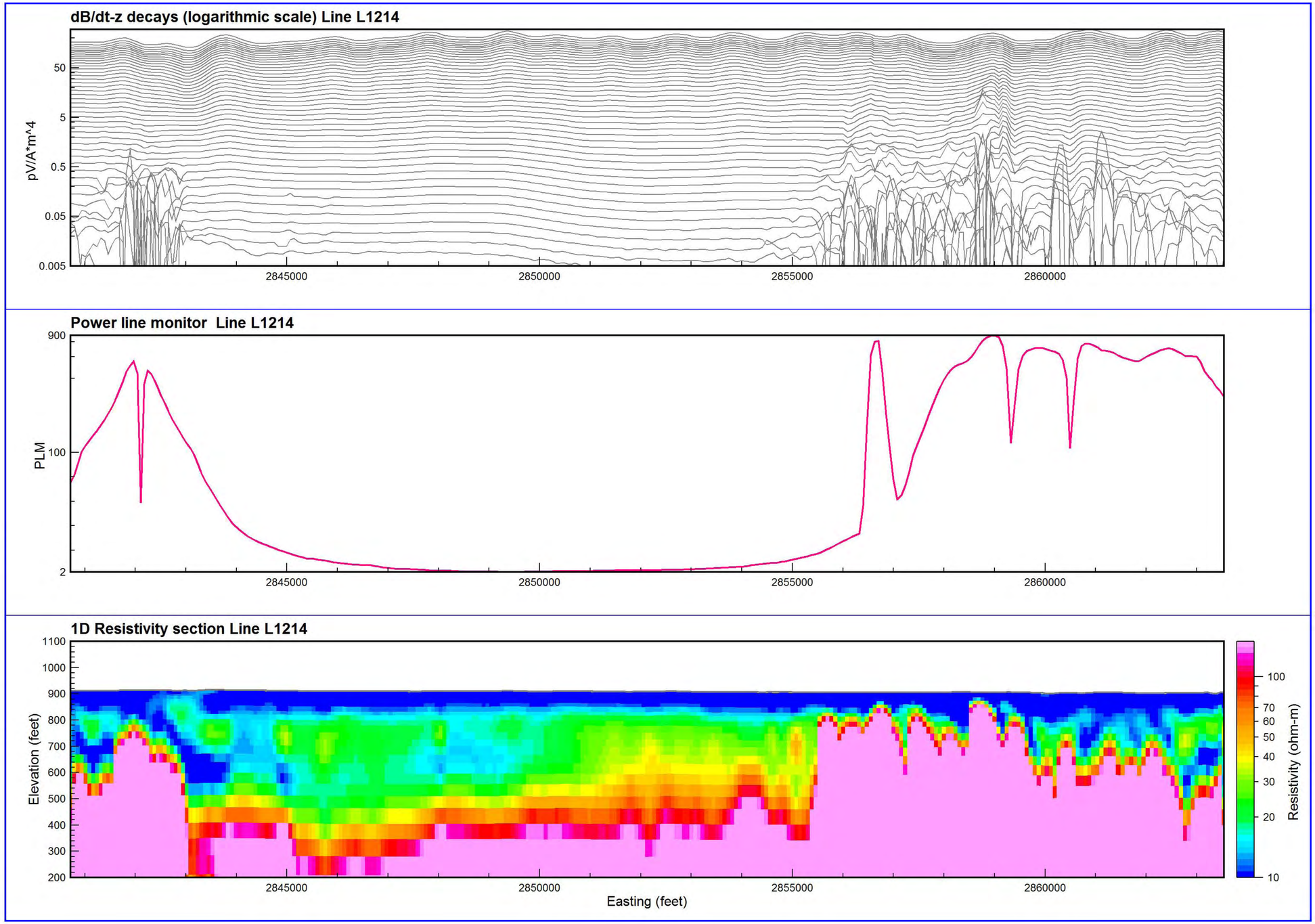

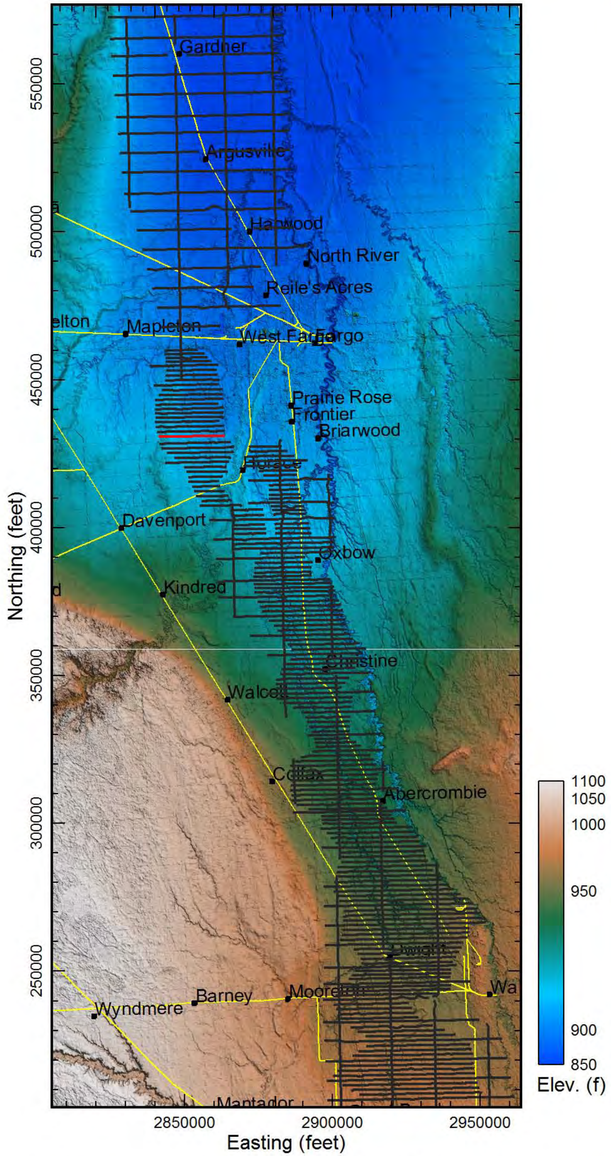

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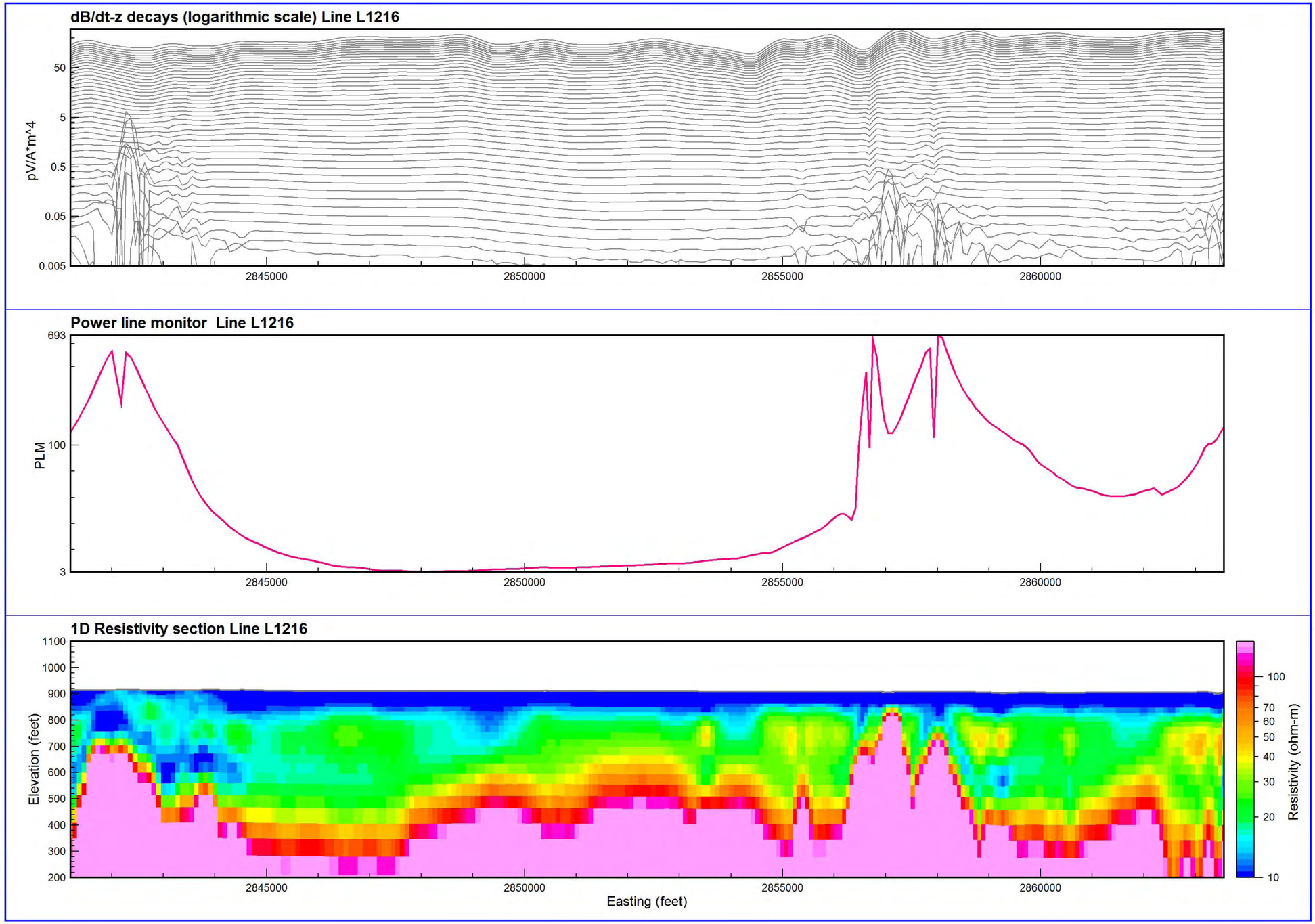

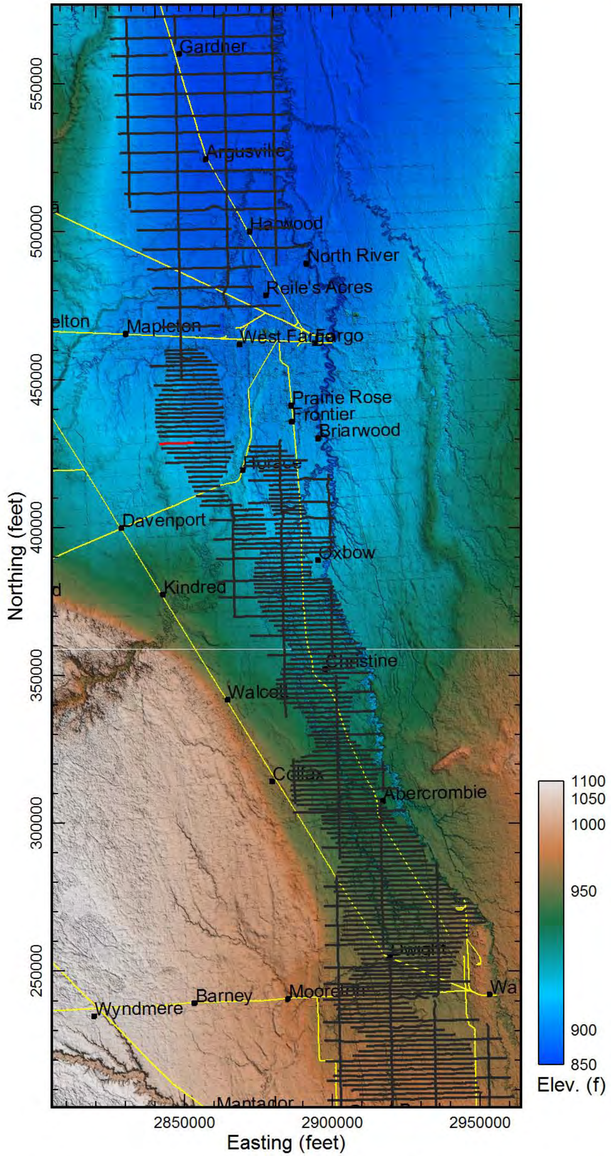

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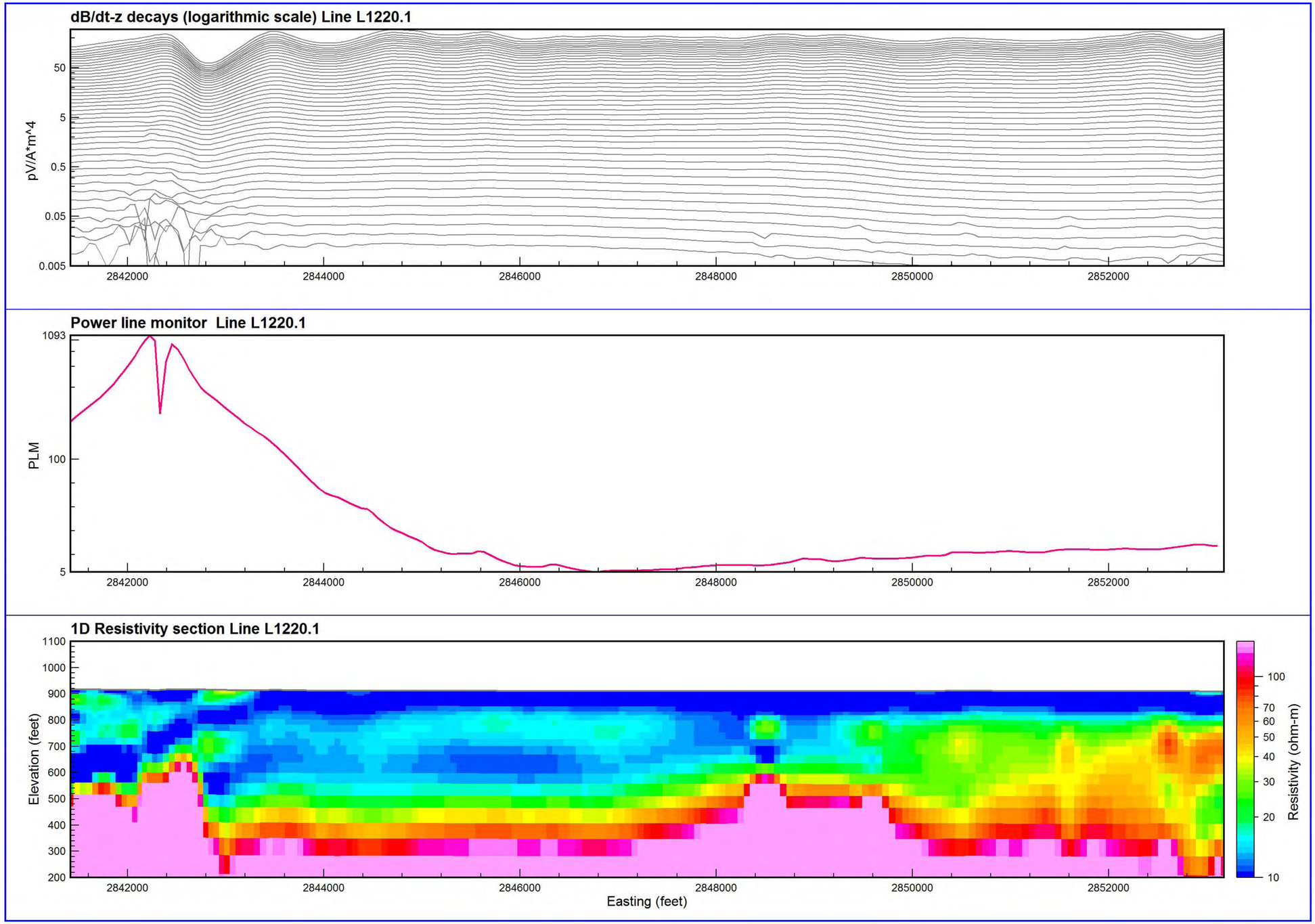

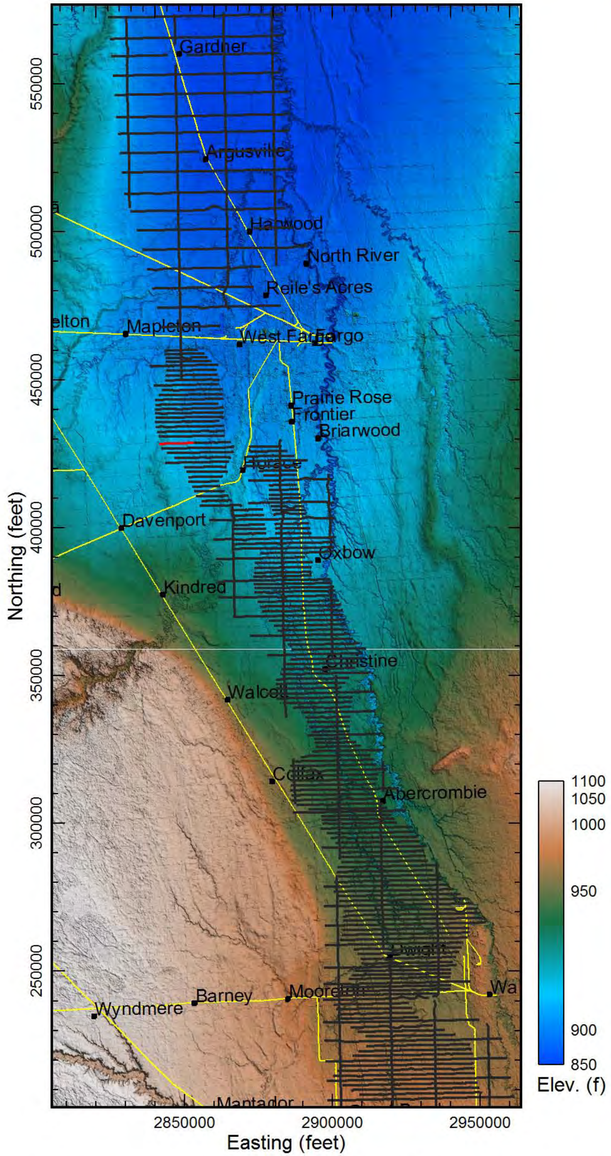

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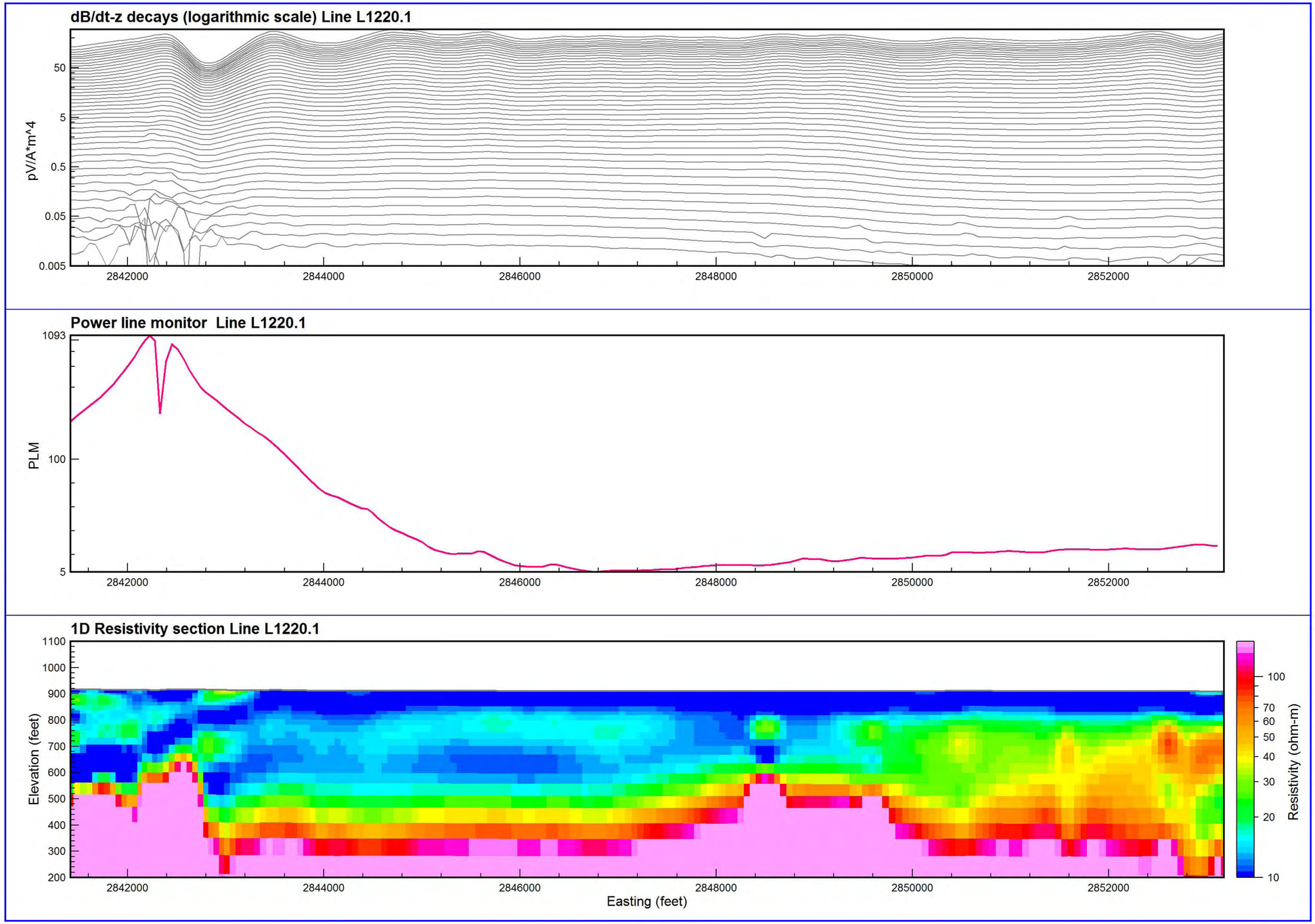

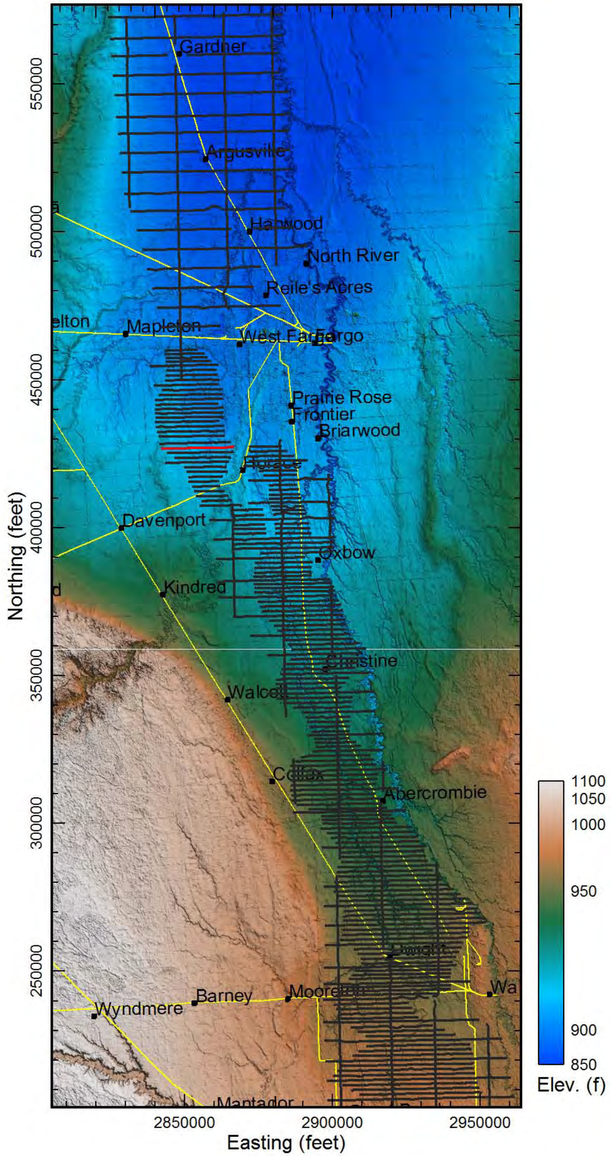

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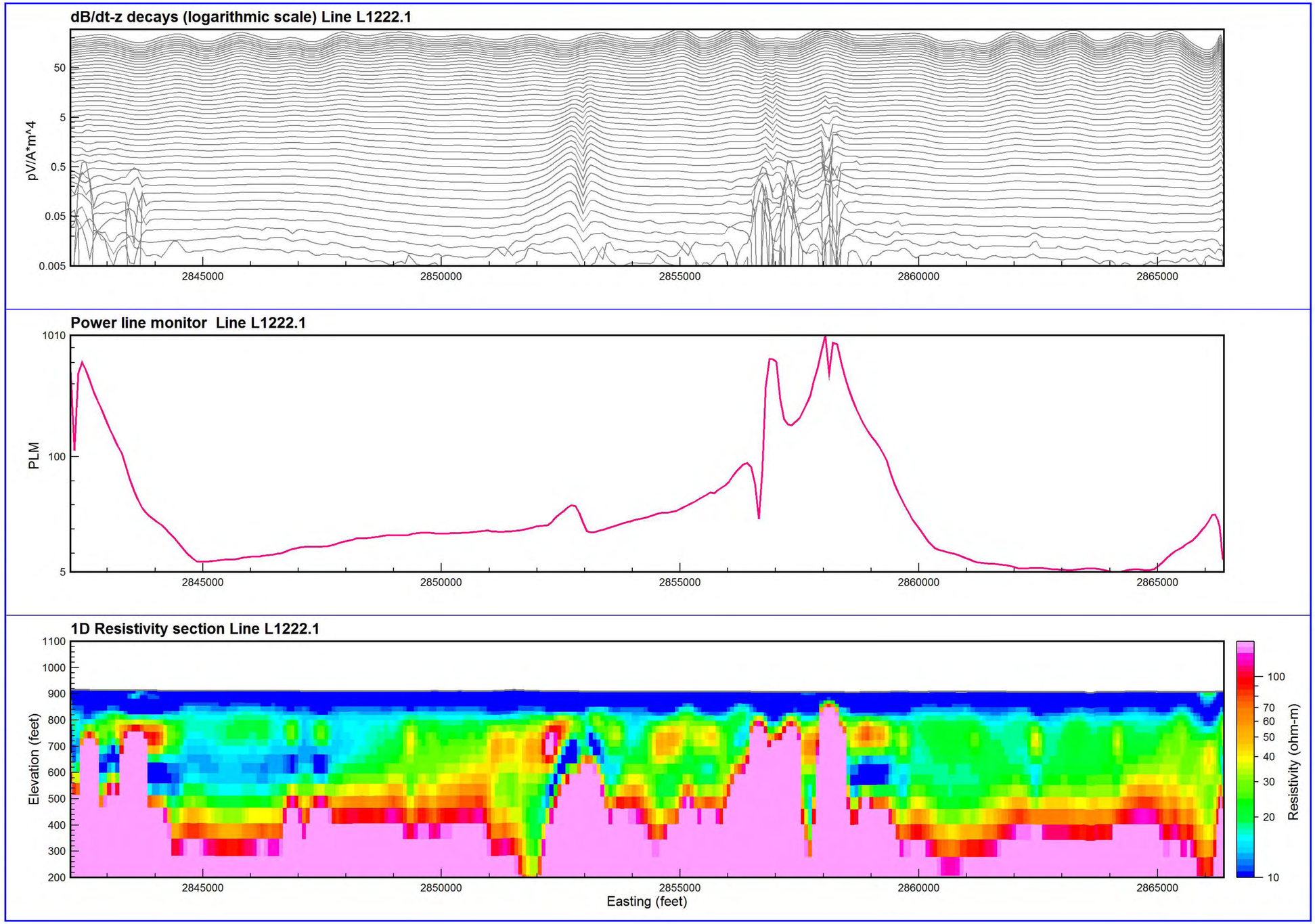

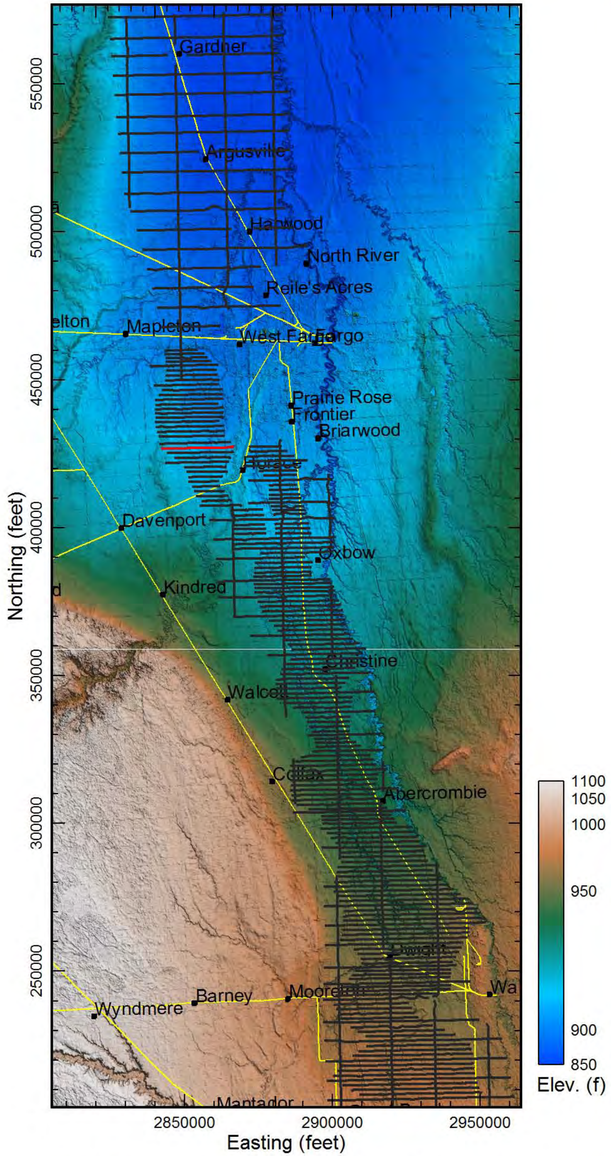

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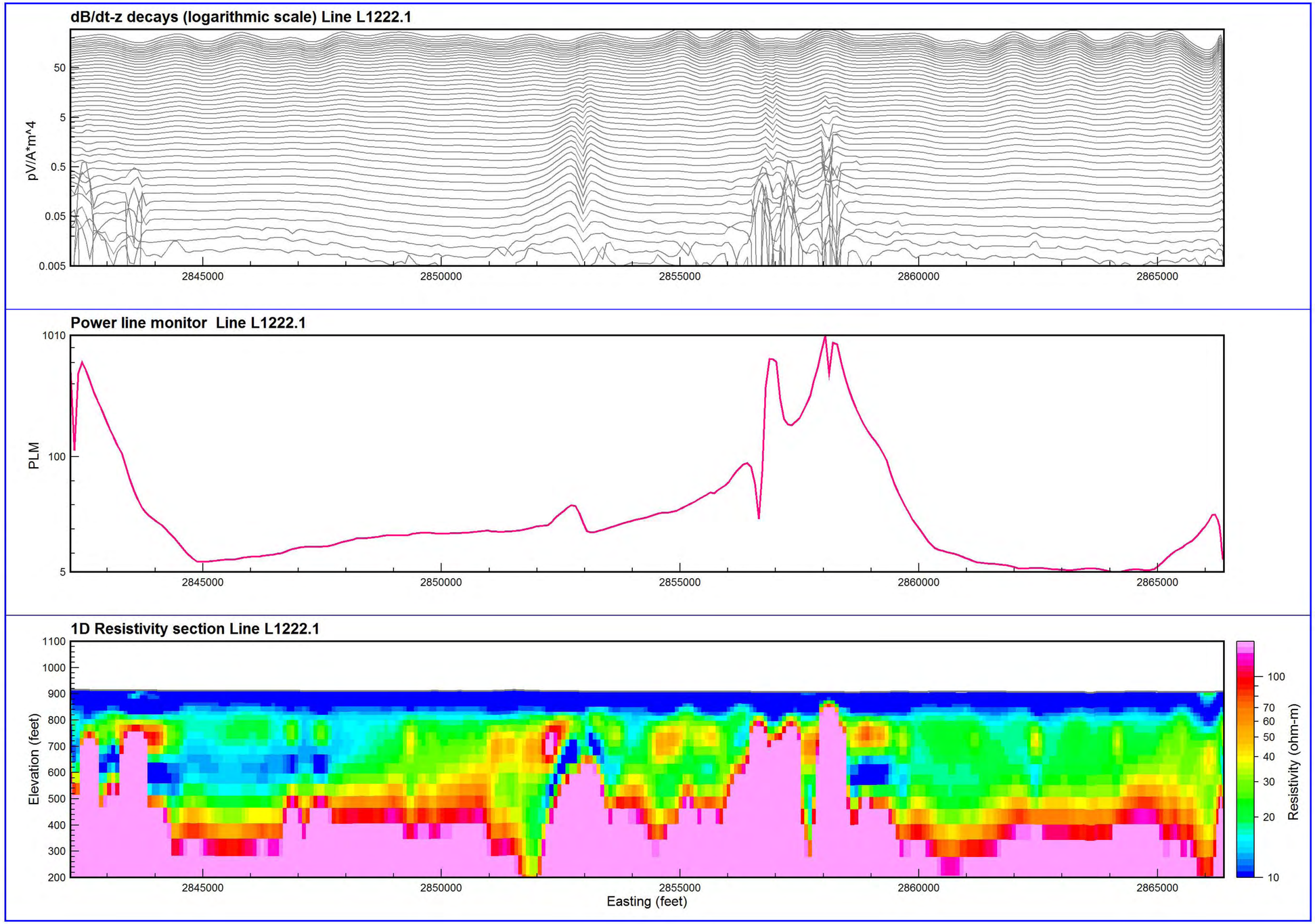

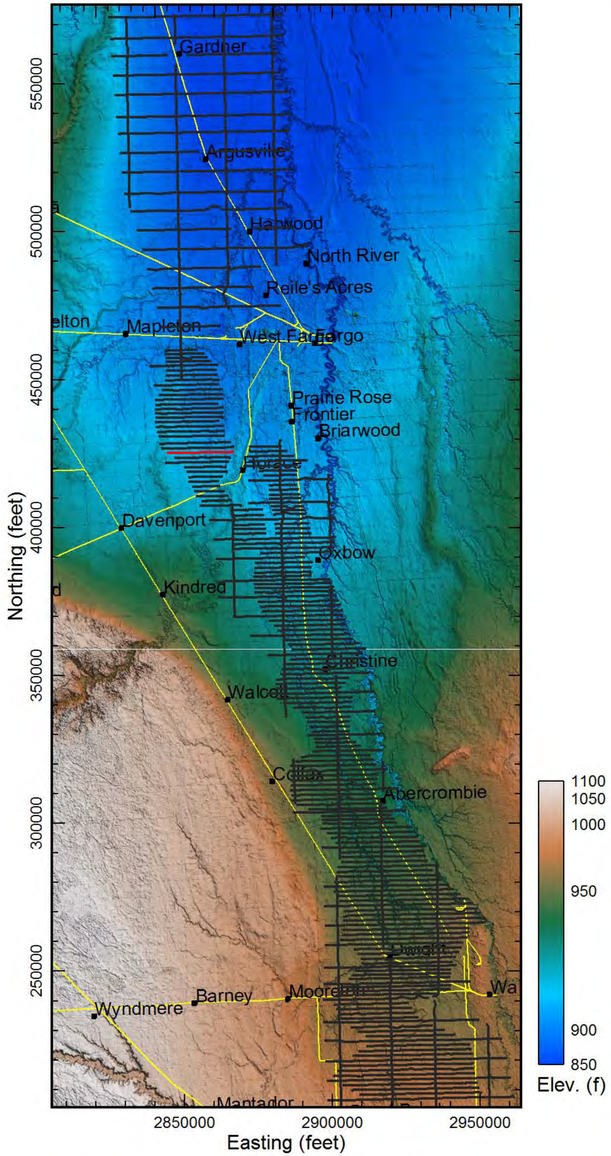

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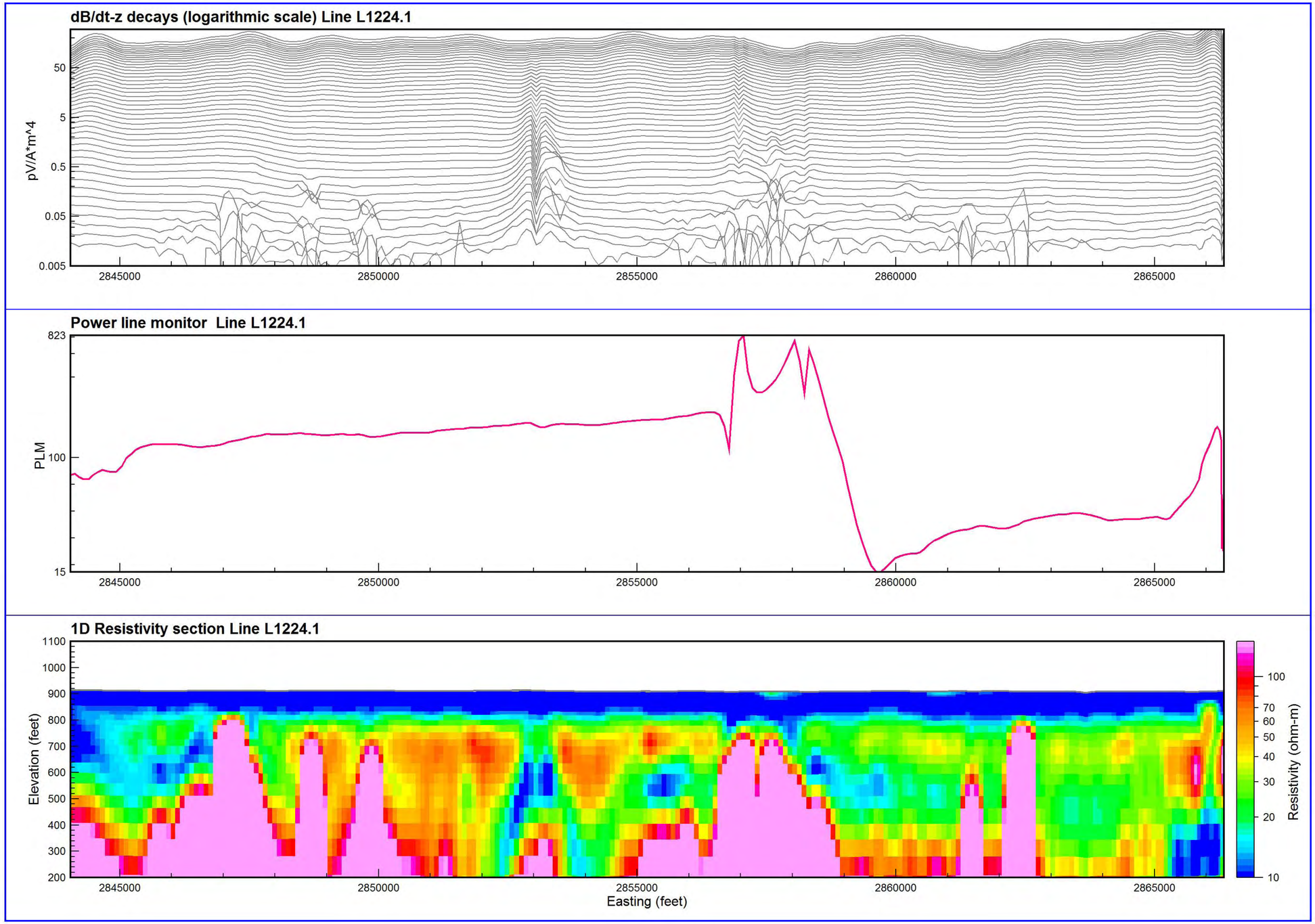

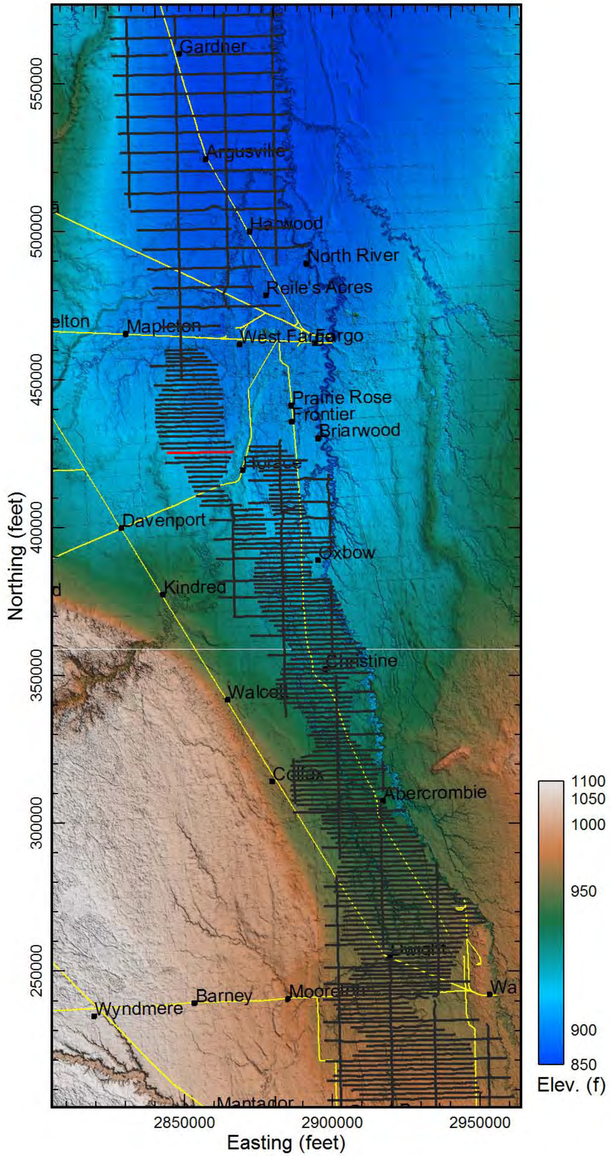

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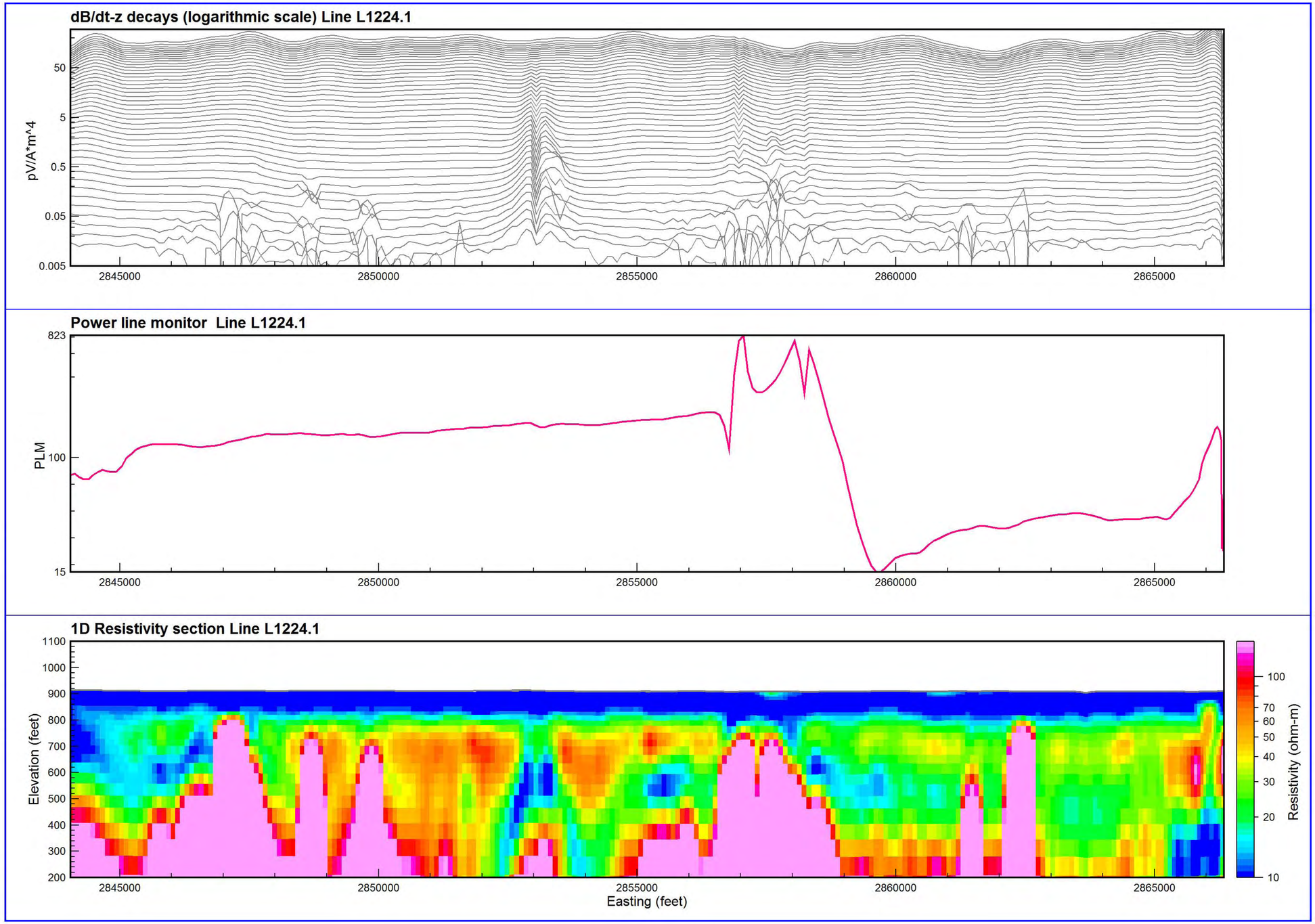

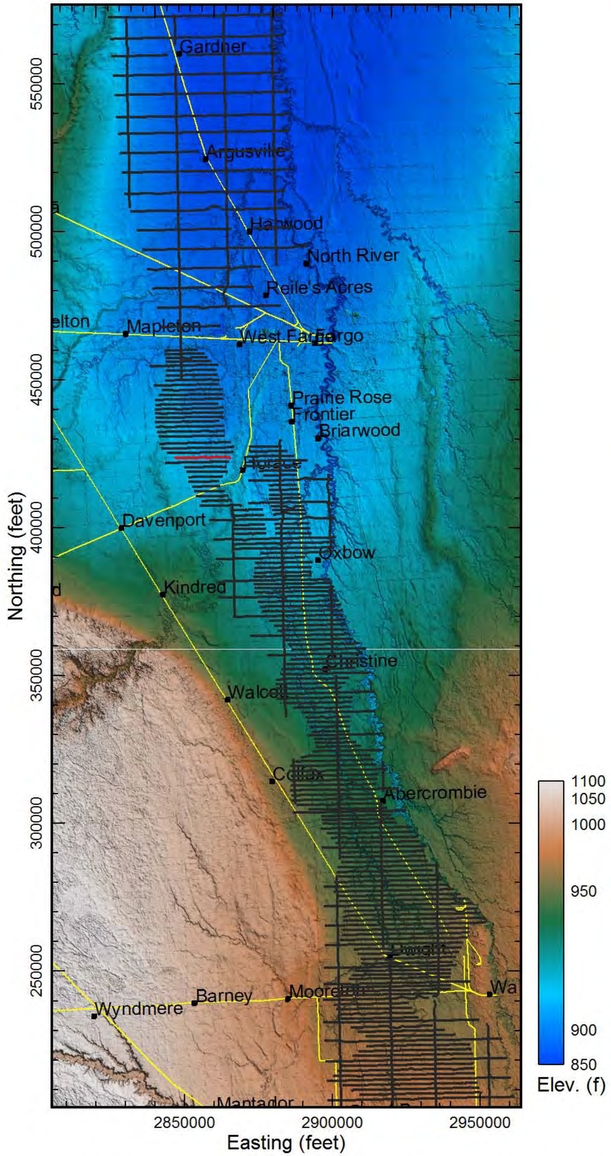

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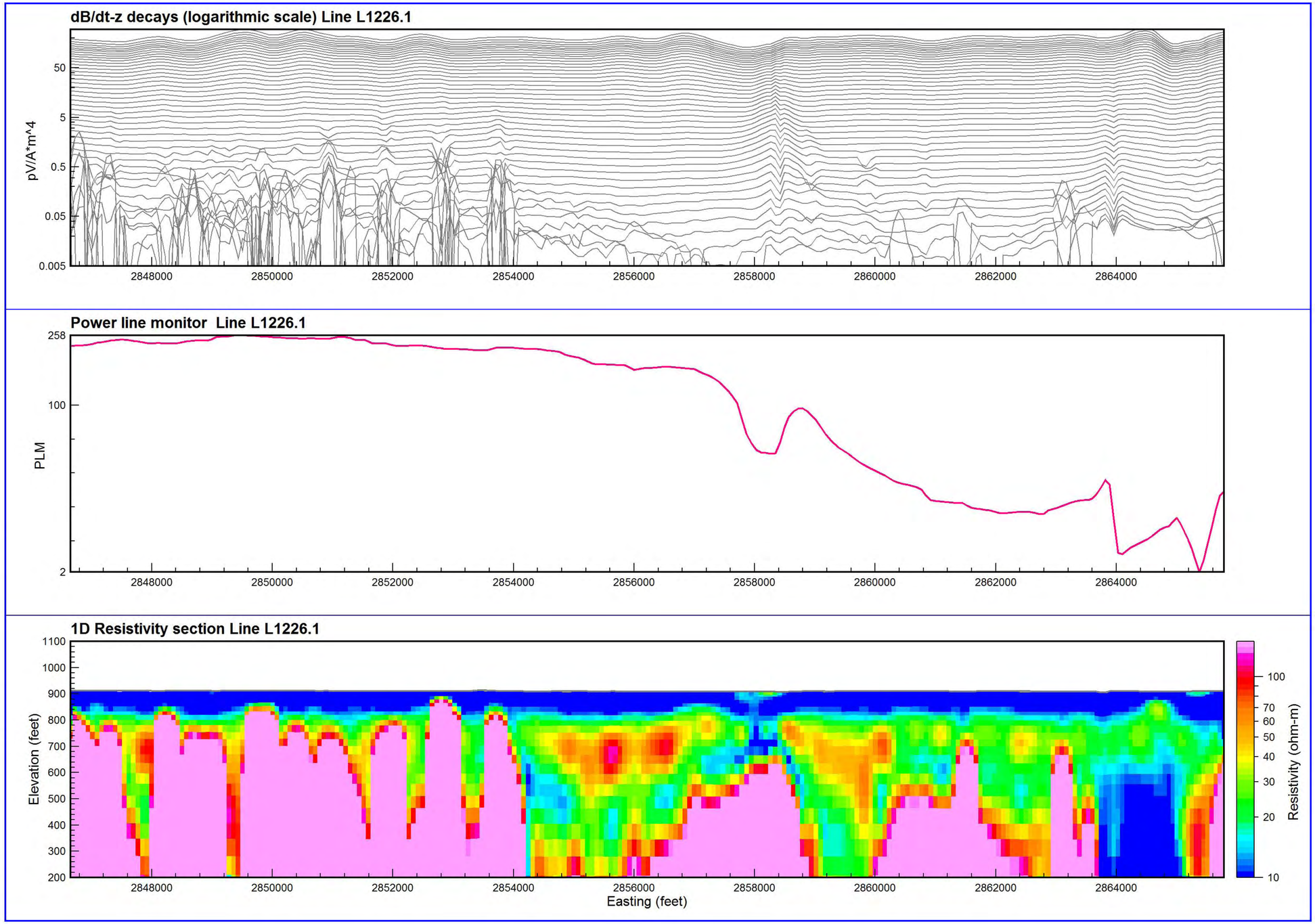

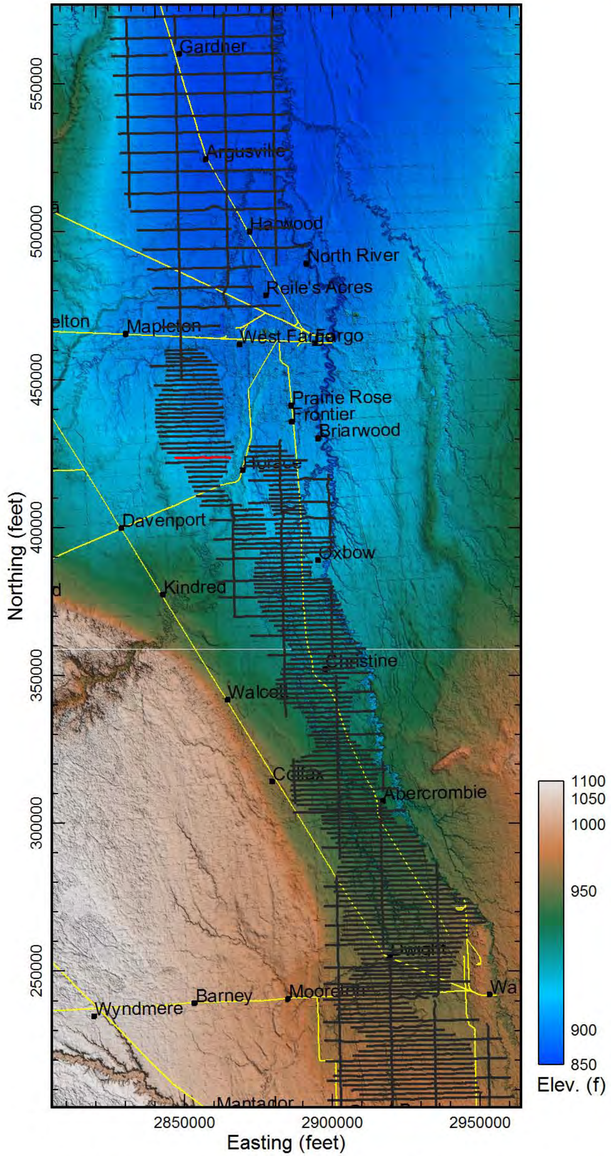

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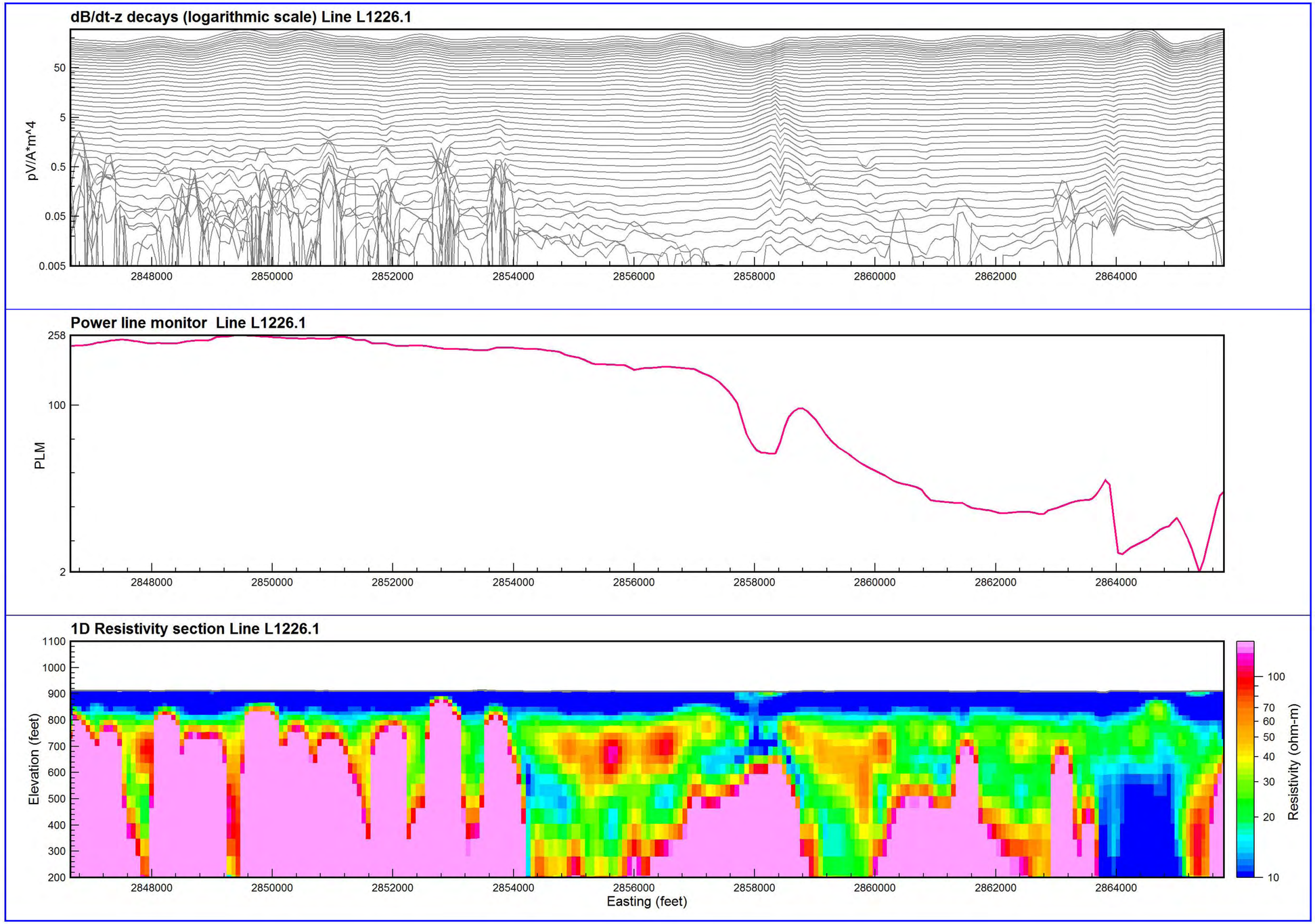

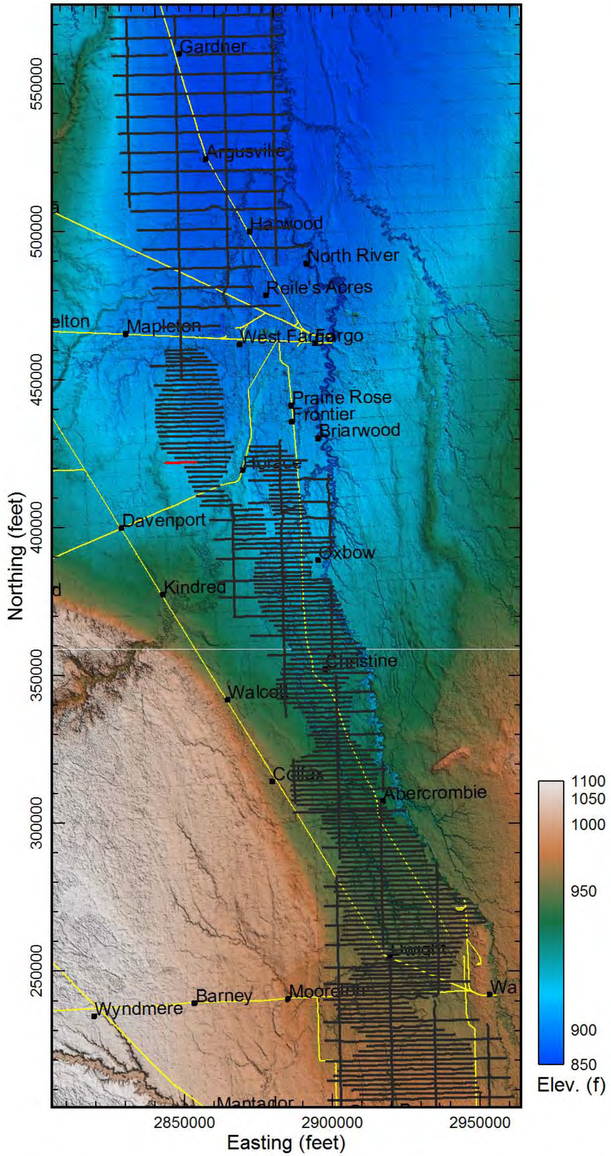

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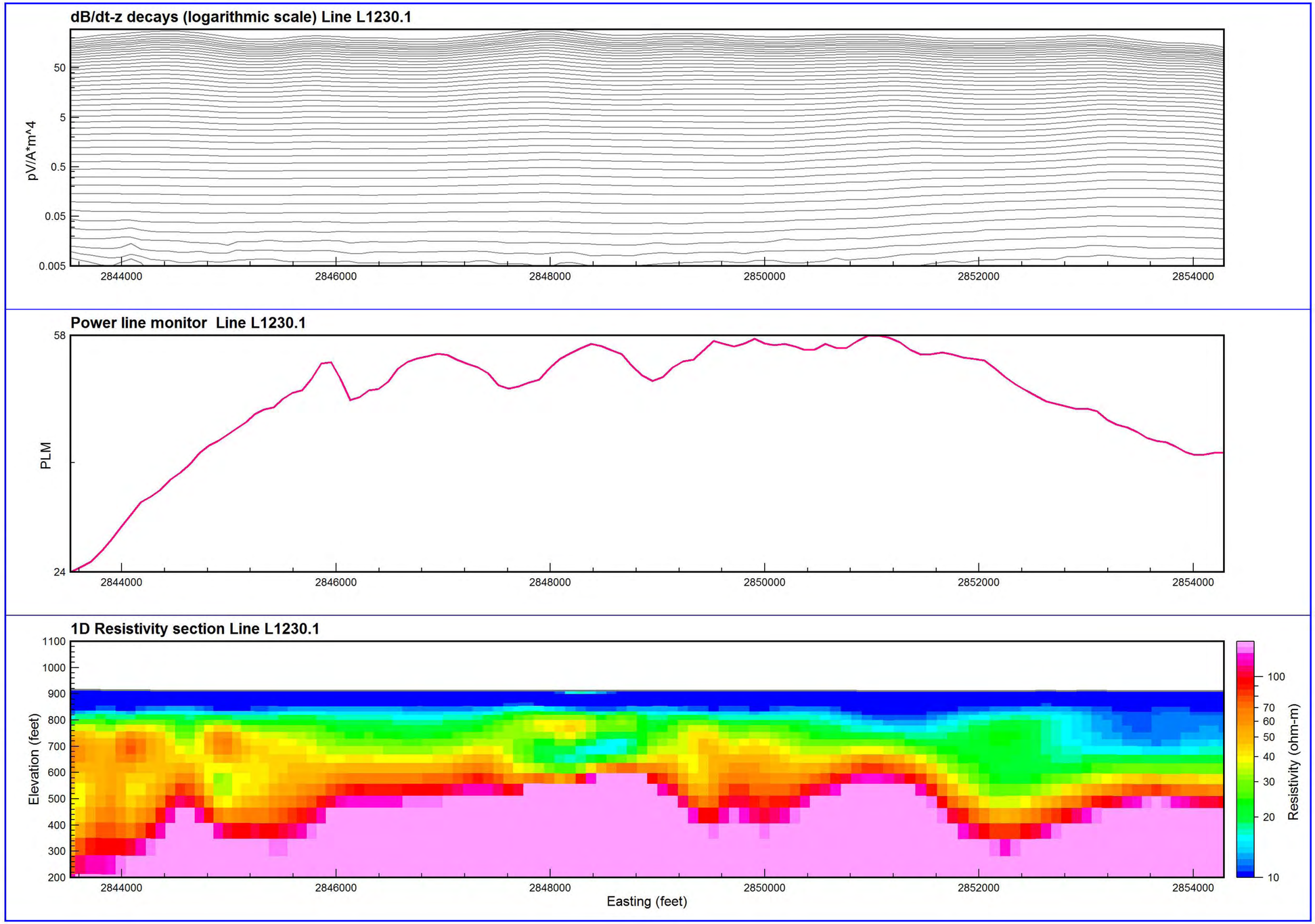

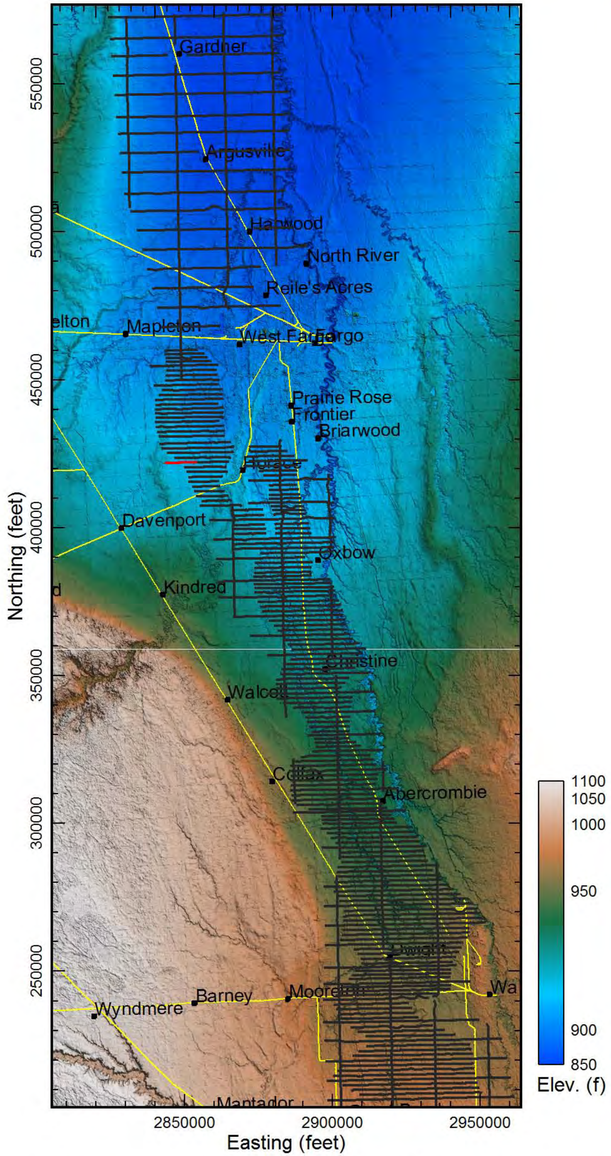

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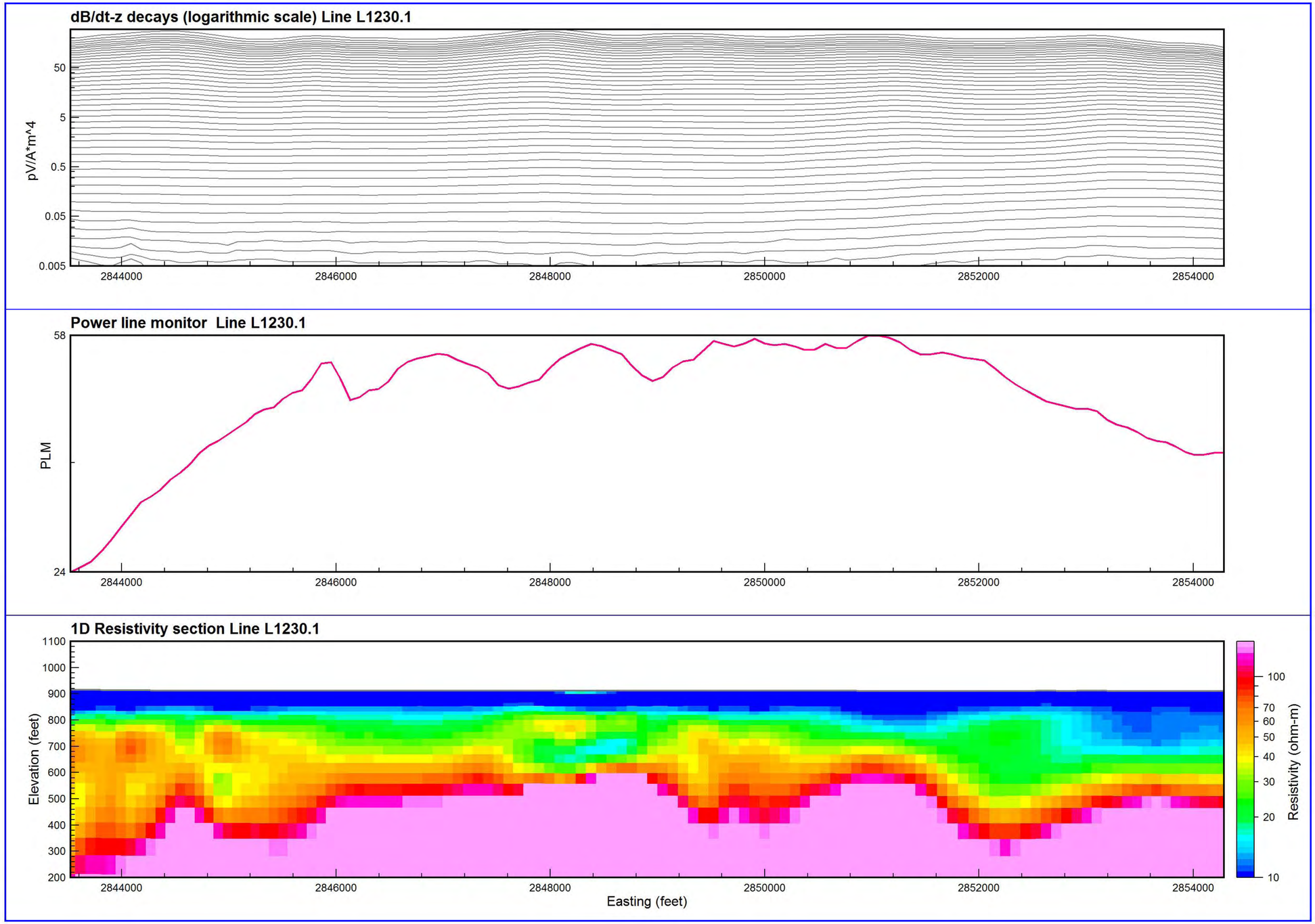

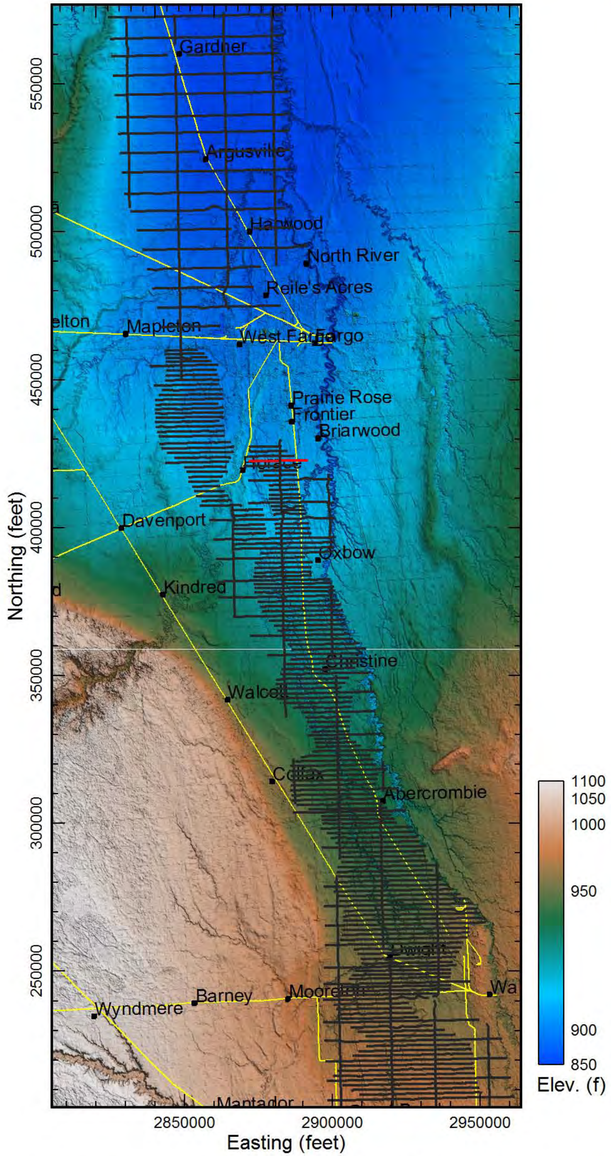

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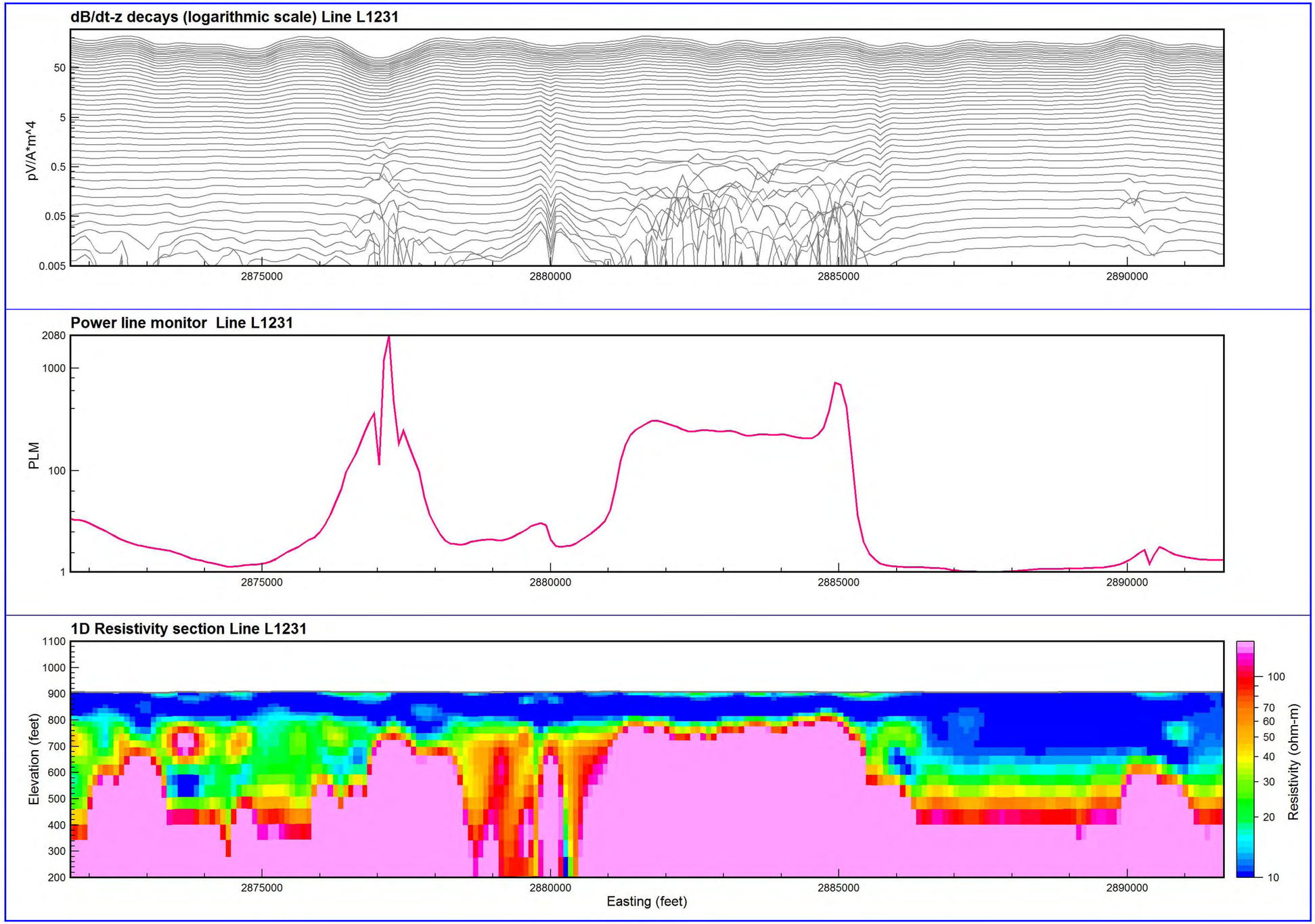

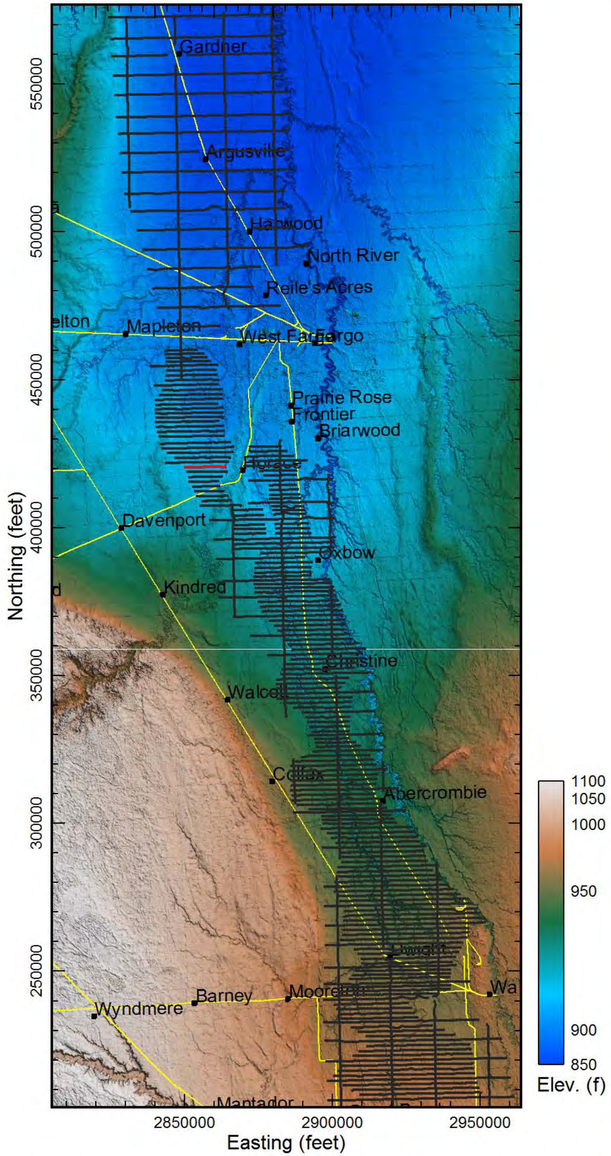

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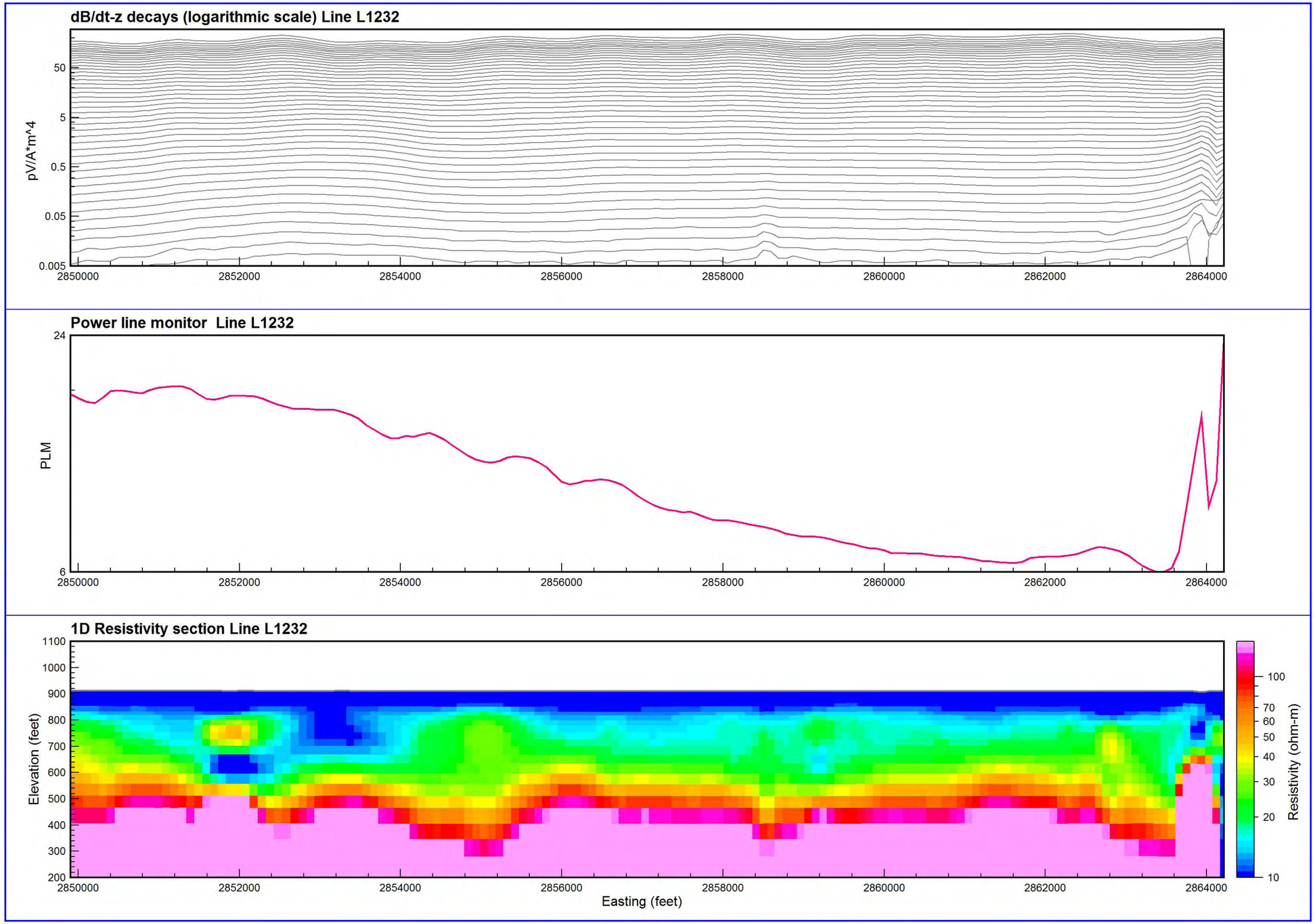

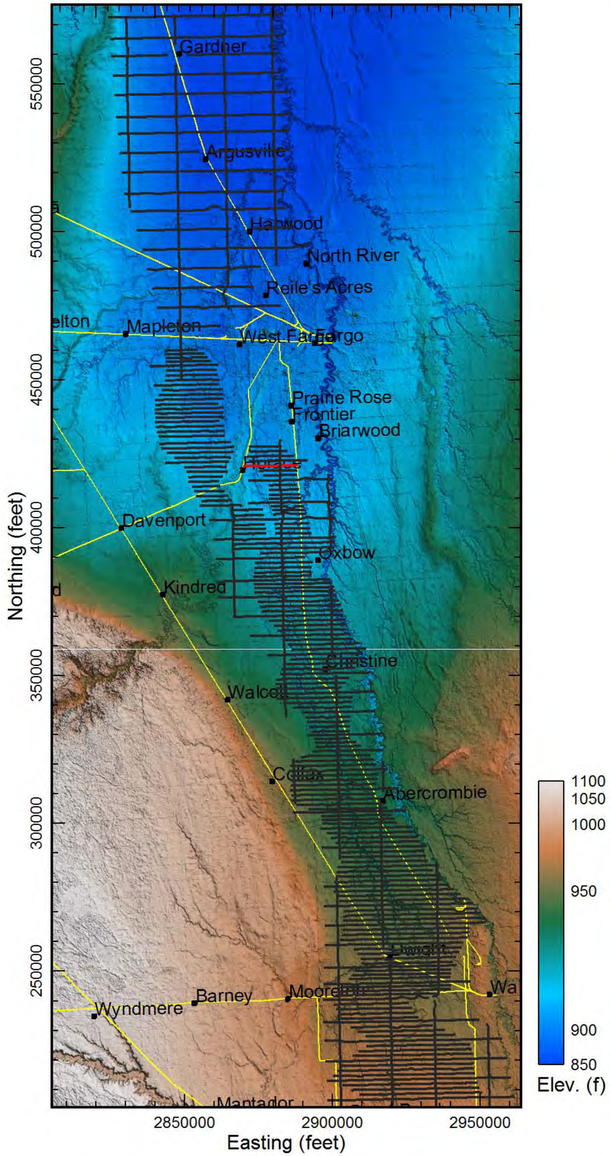

Map projection: NAD83 SPN Dakota South (int. feet)

Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

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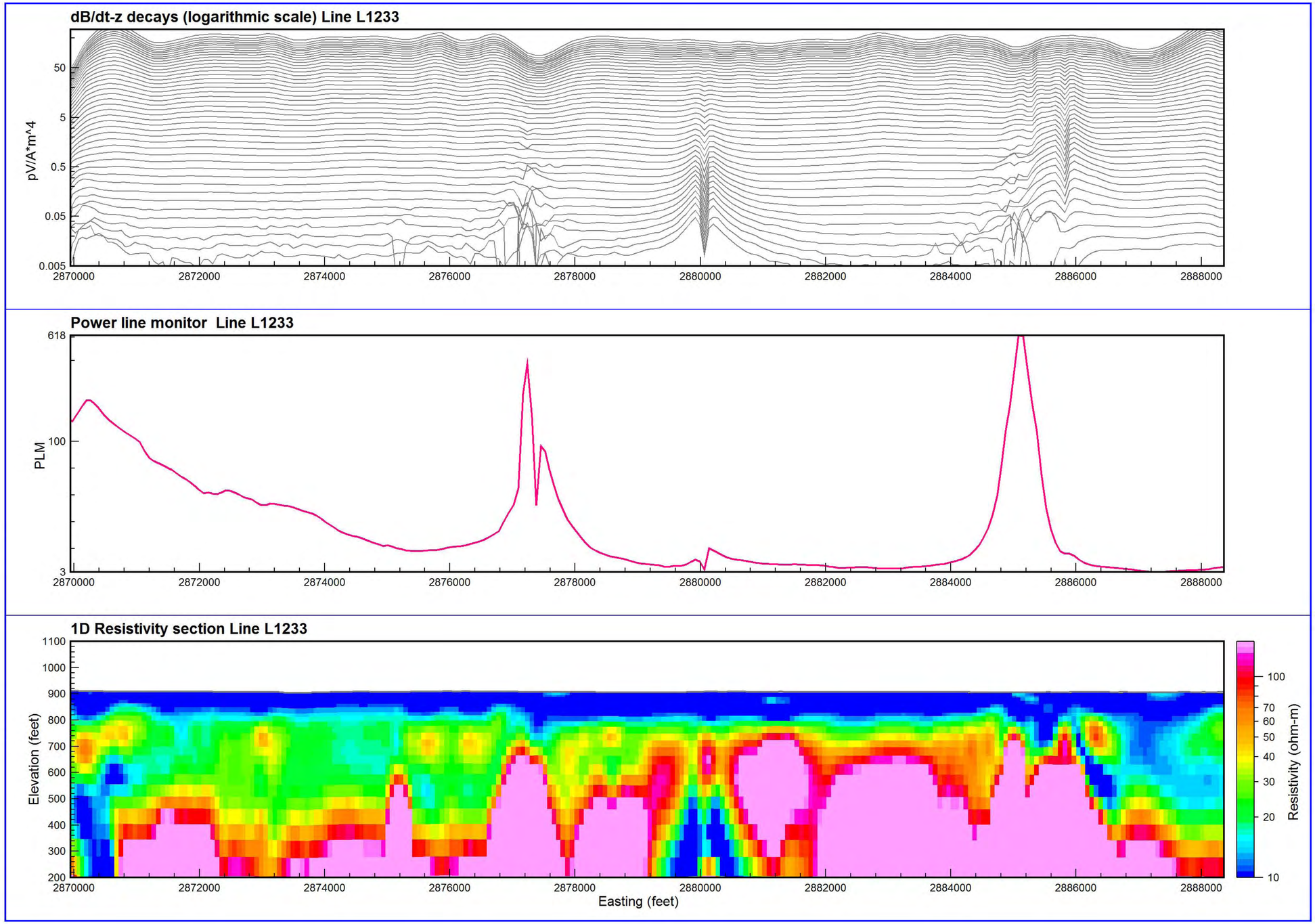

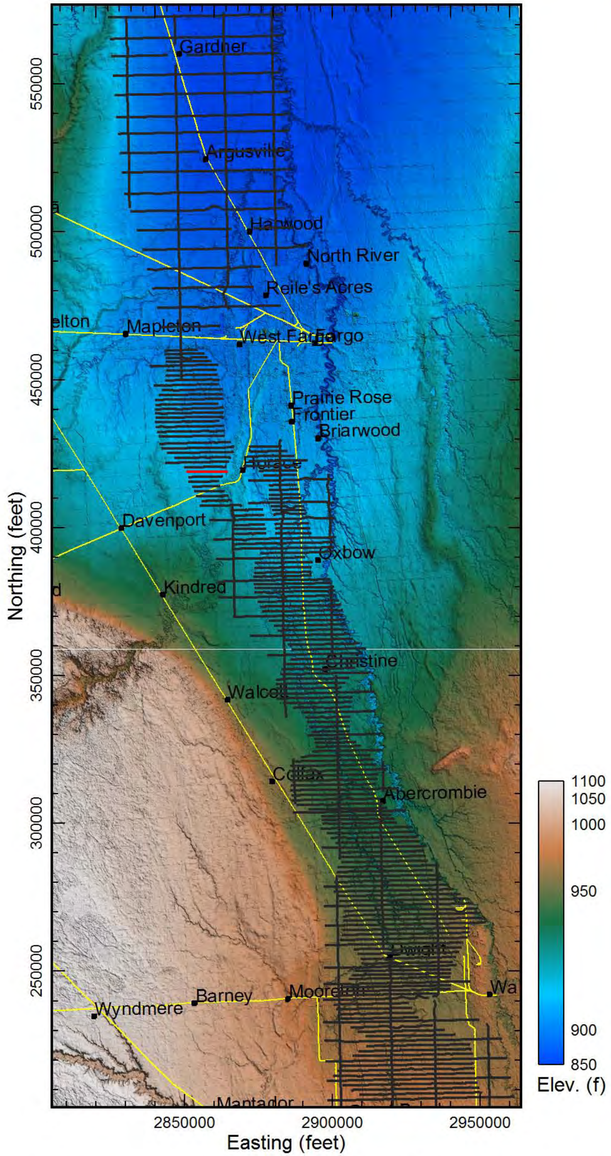

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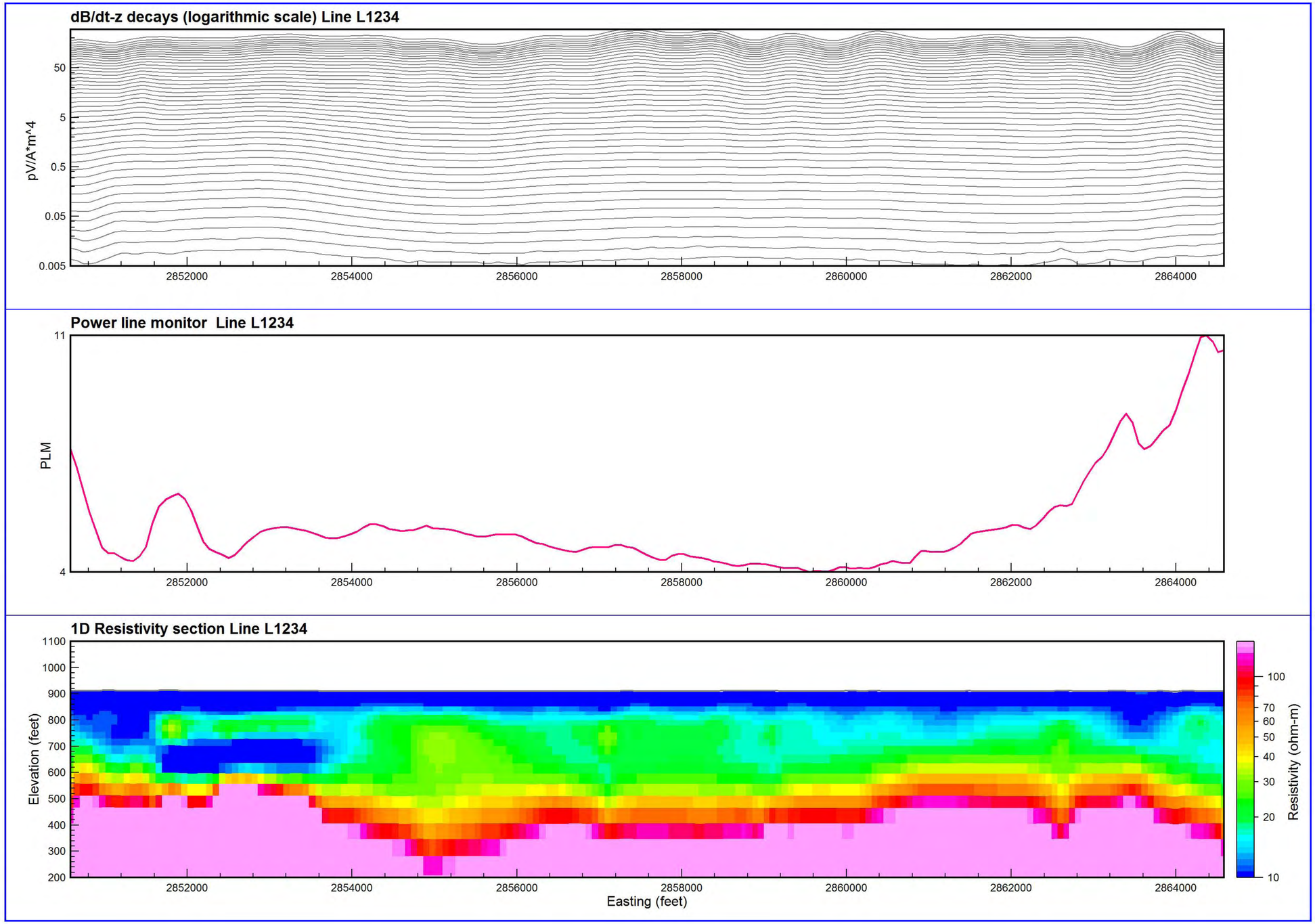

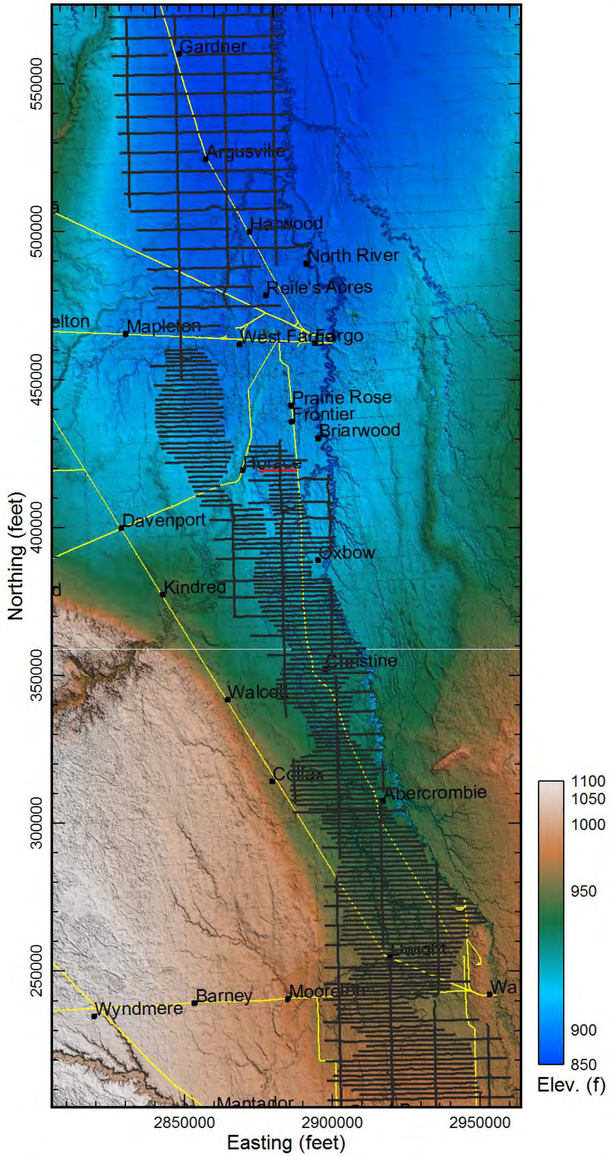

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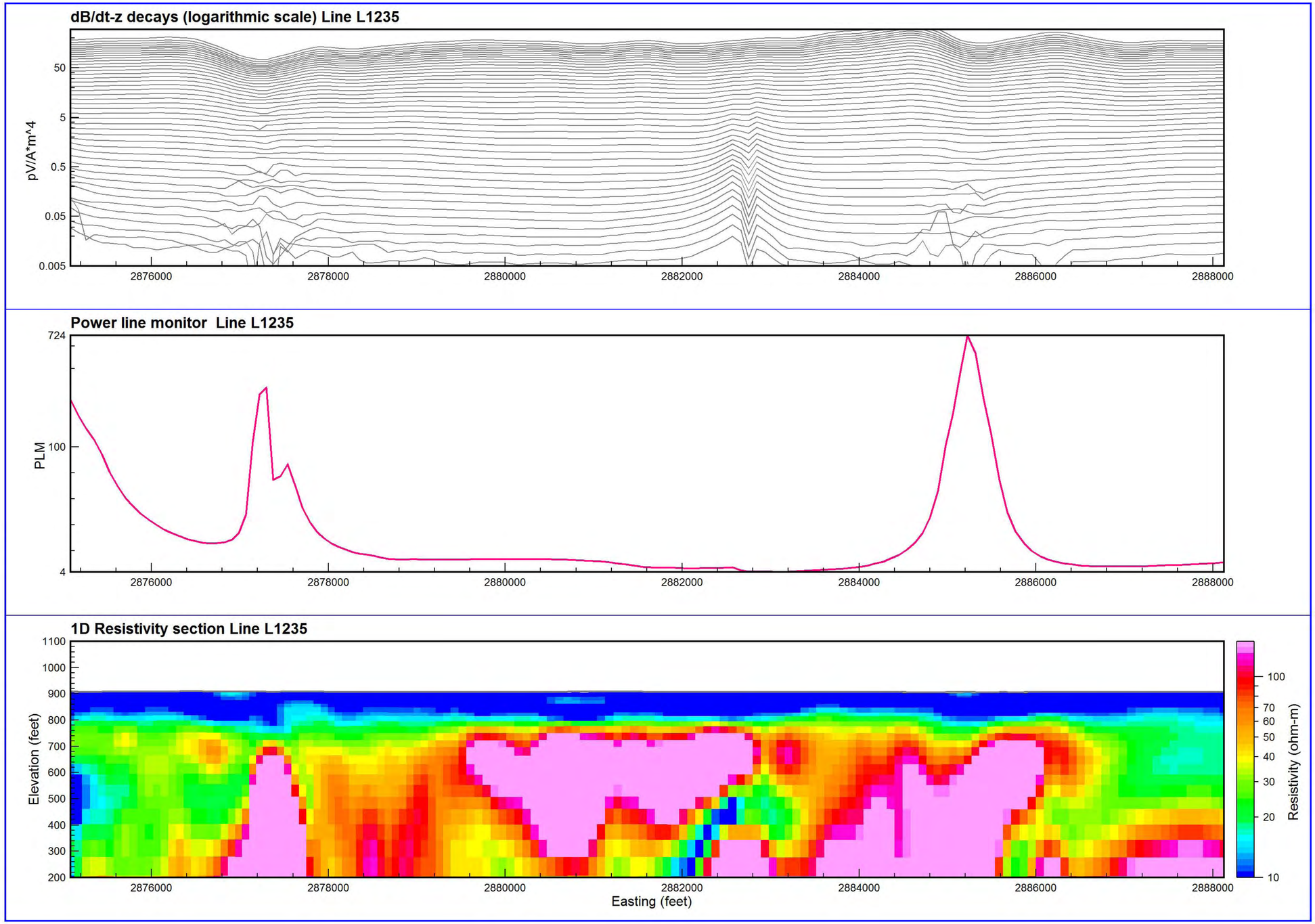

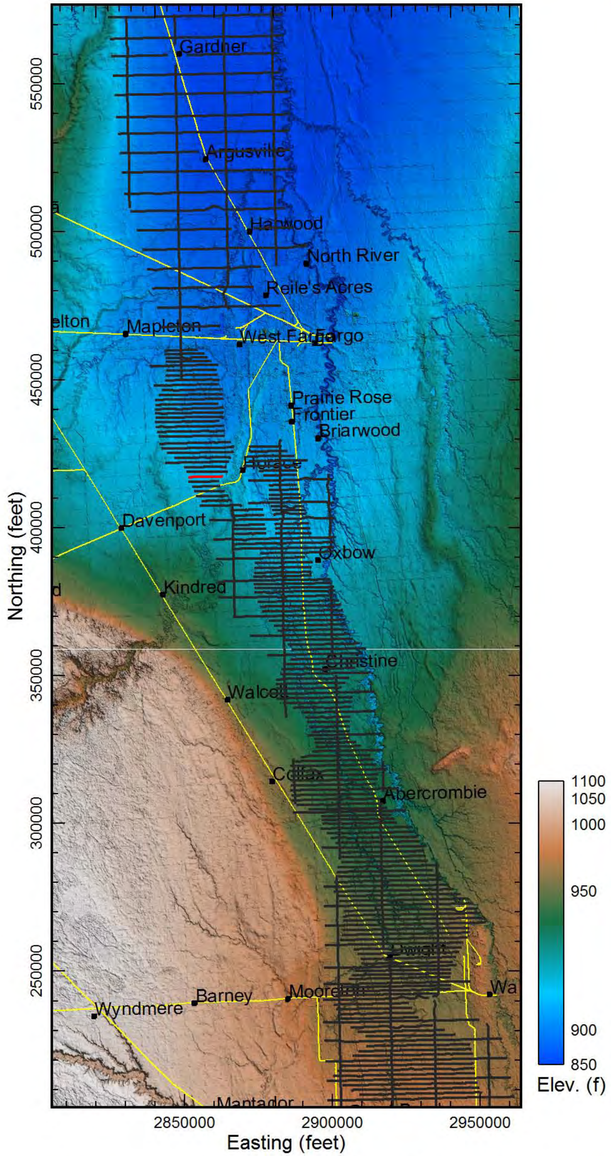

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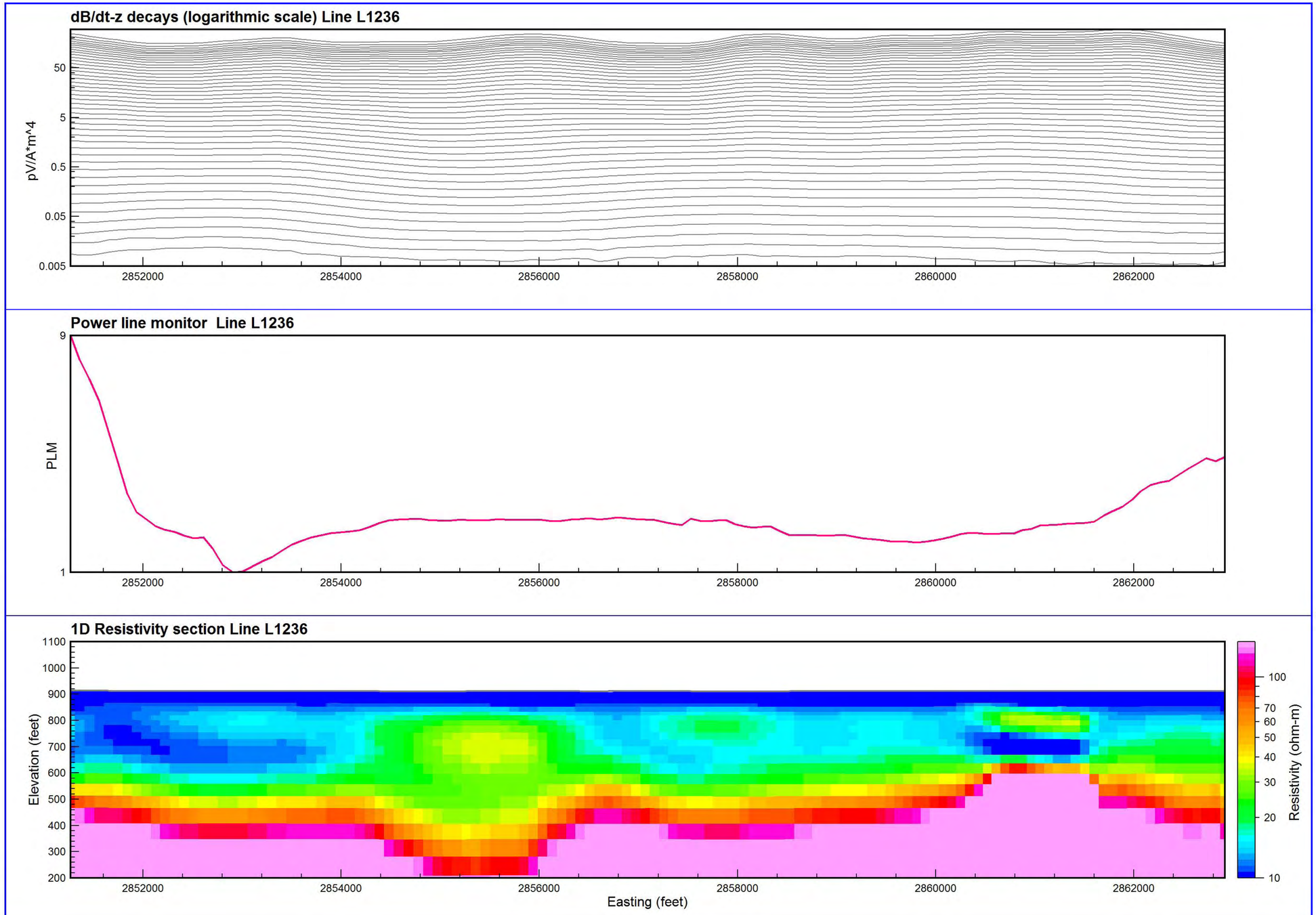

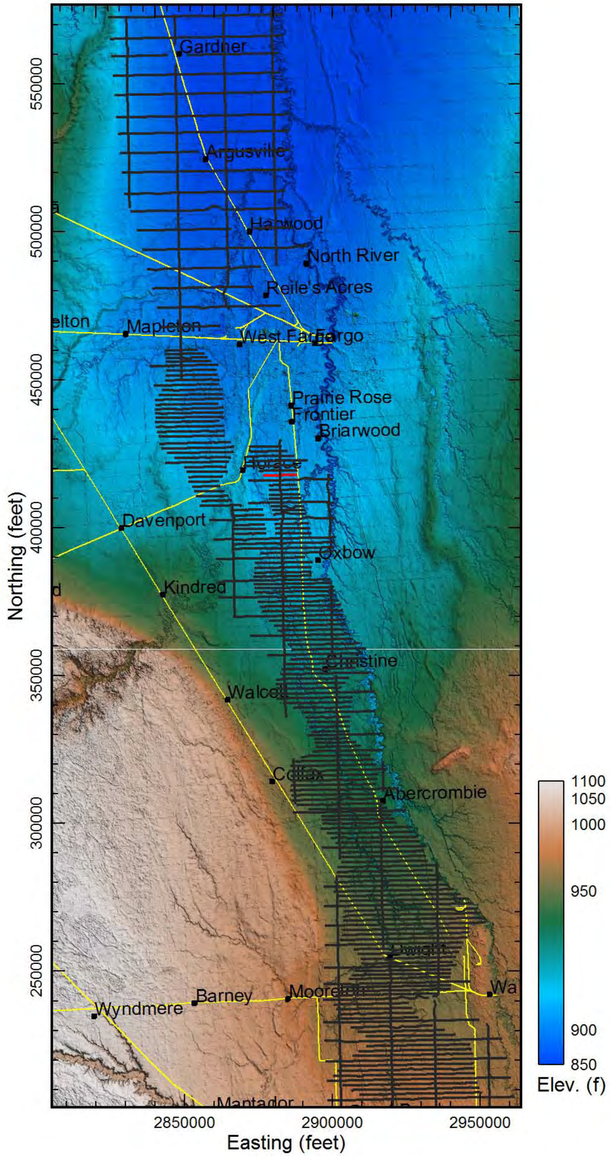

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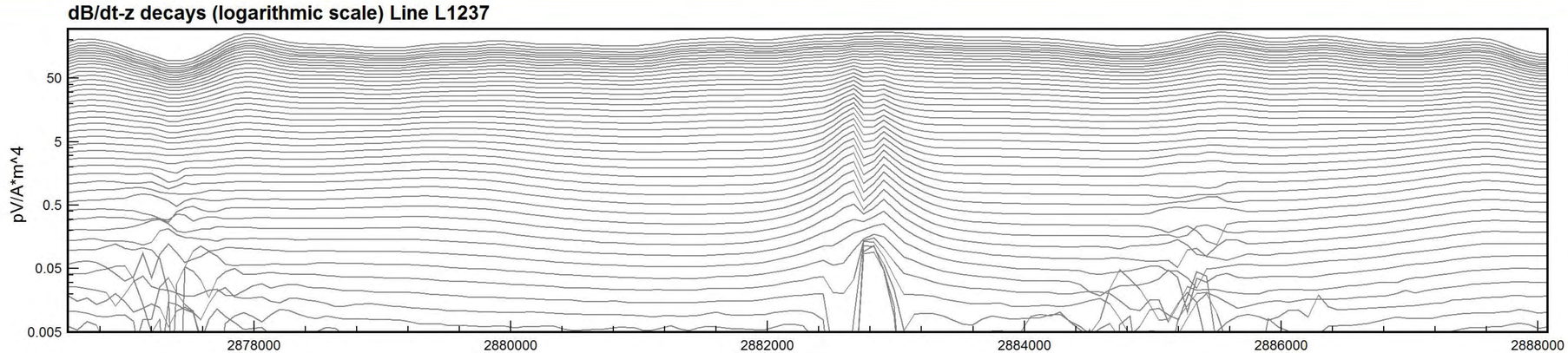

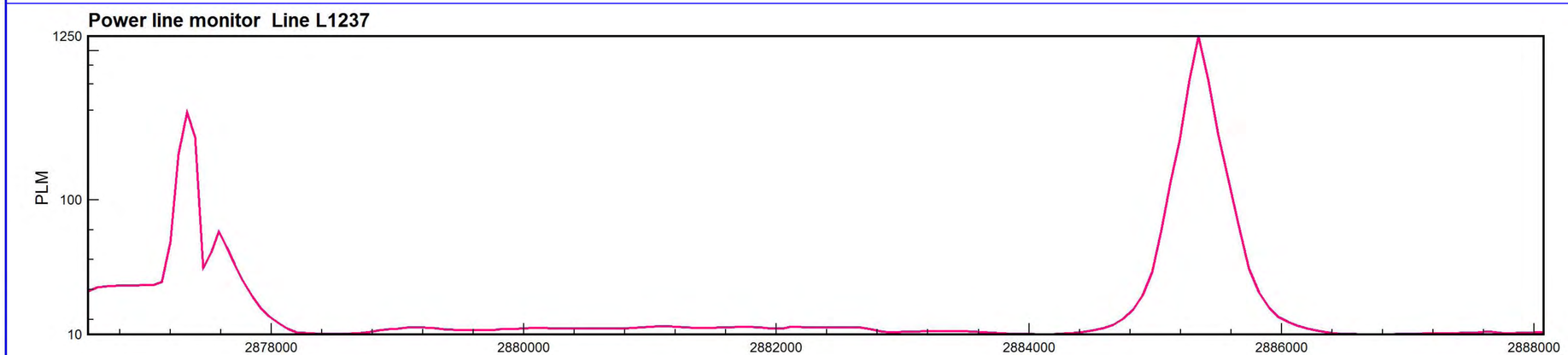

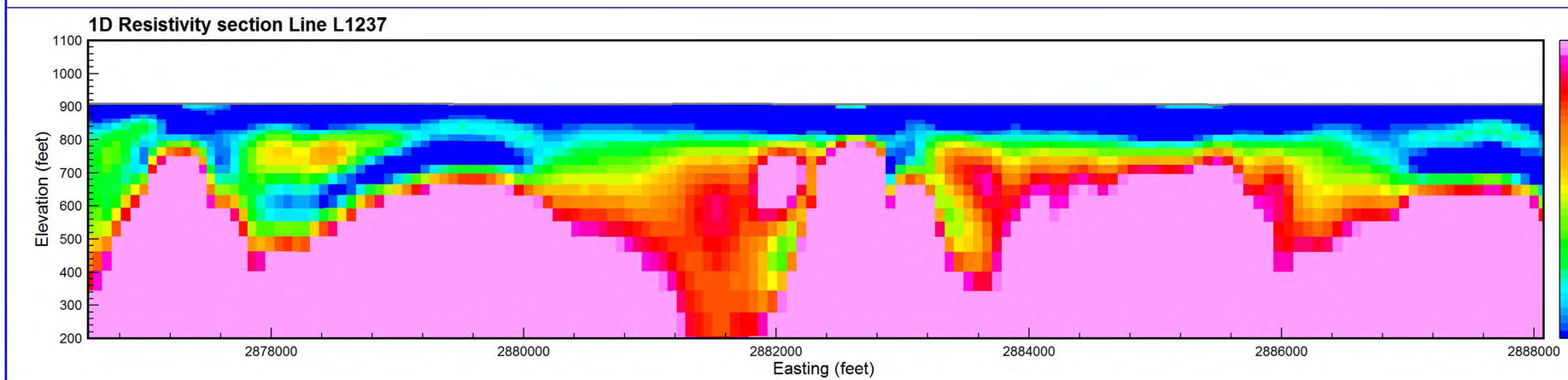

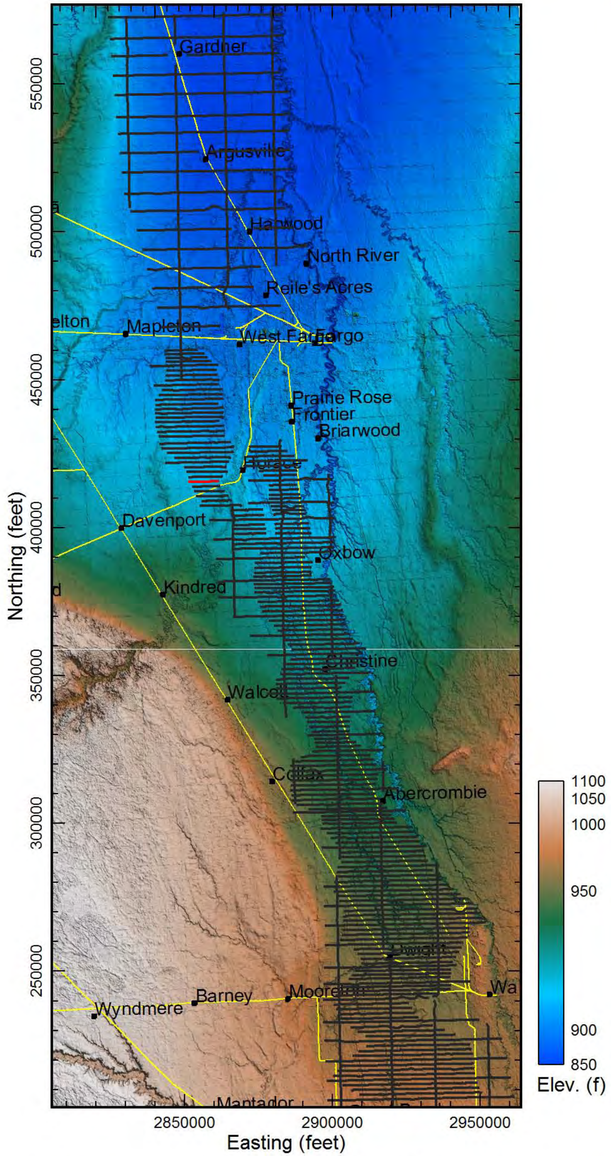

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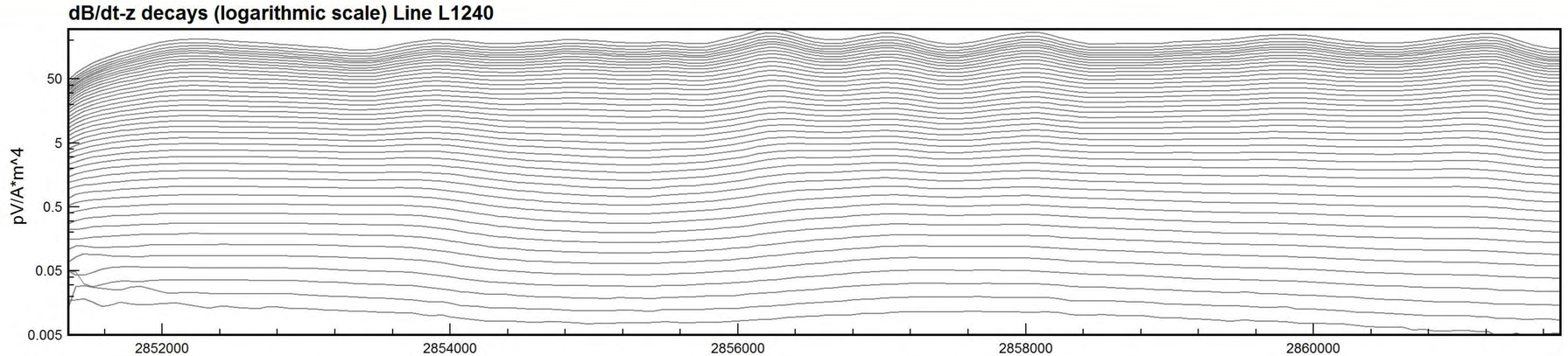

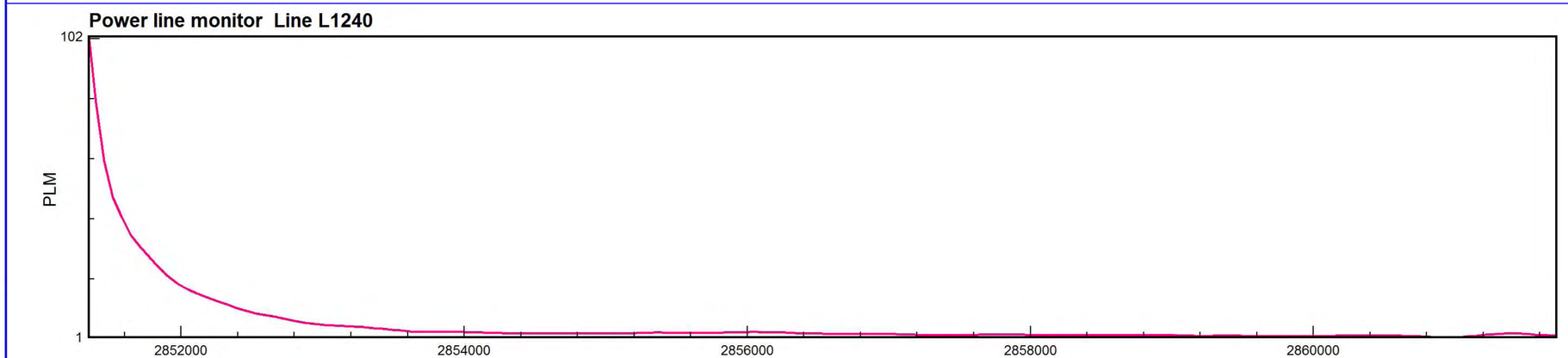

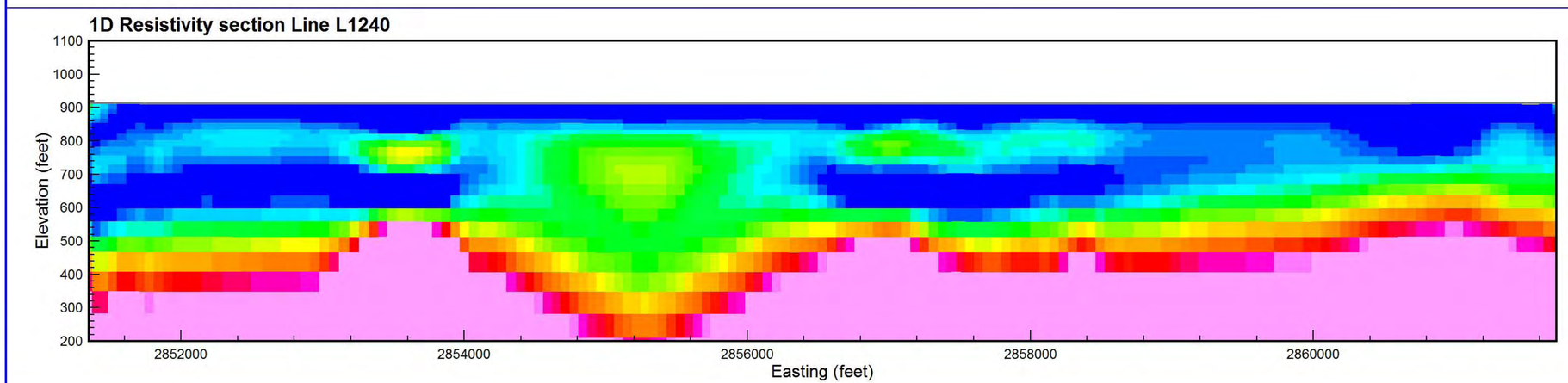

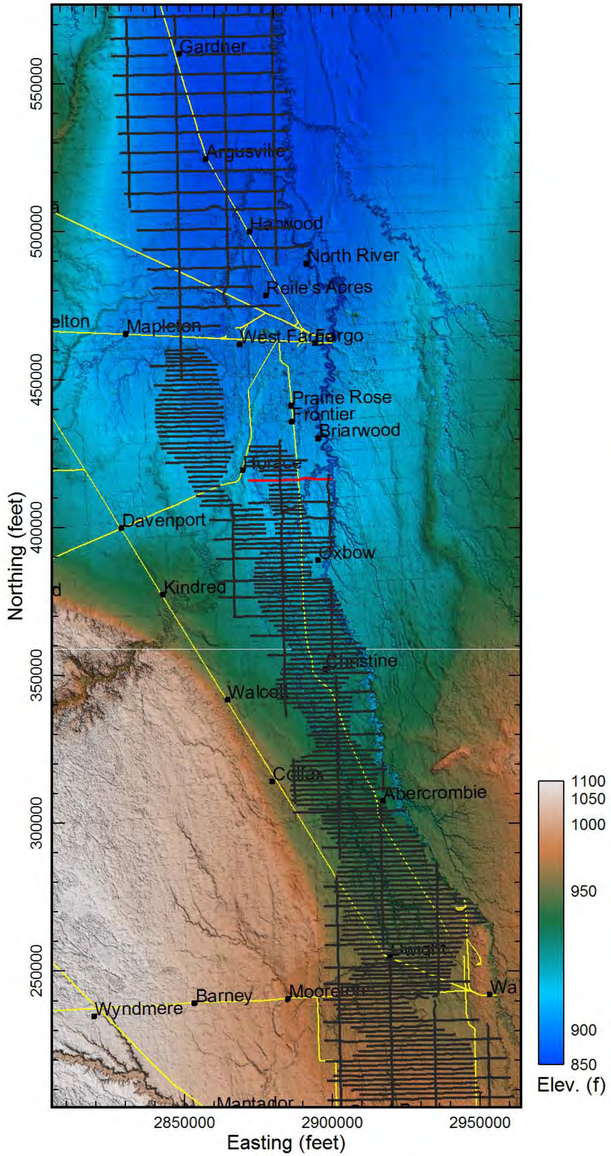

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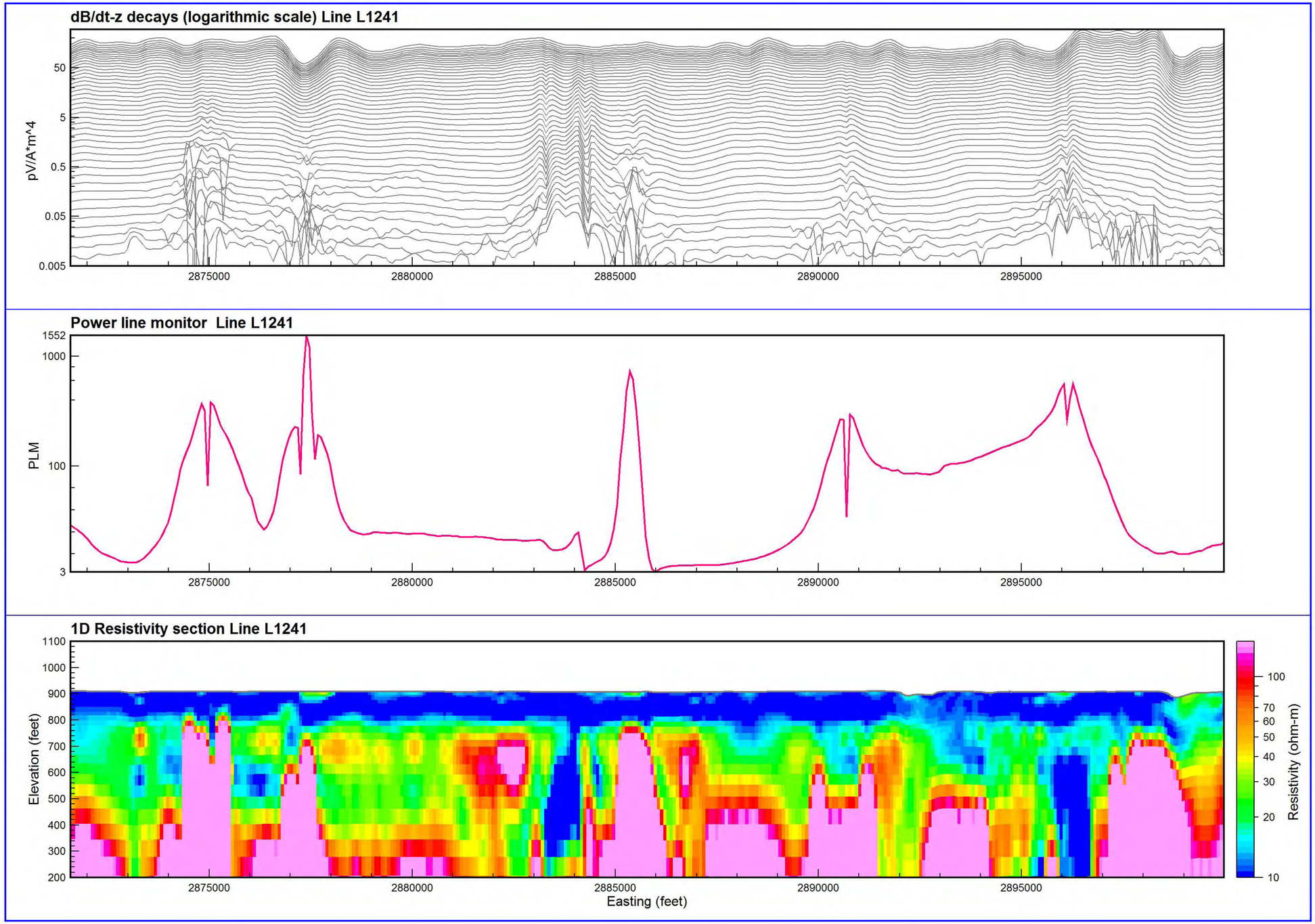

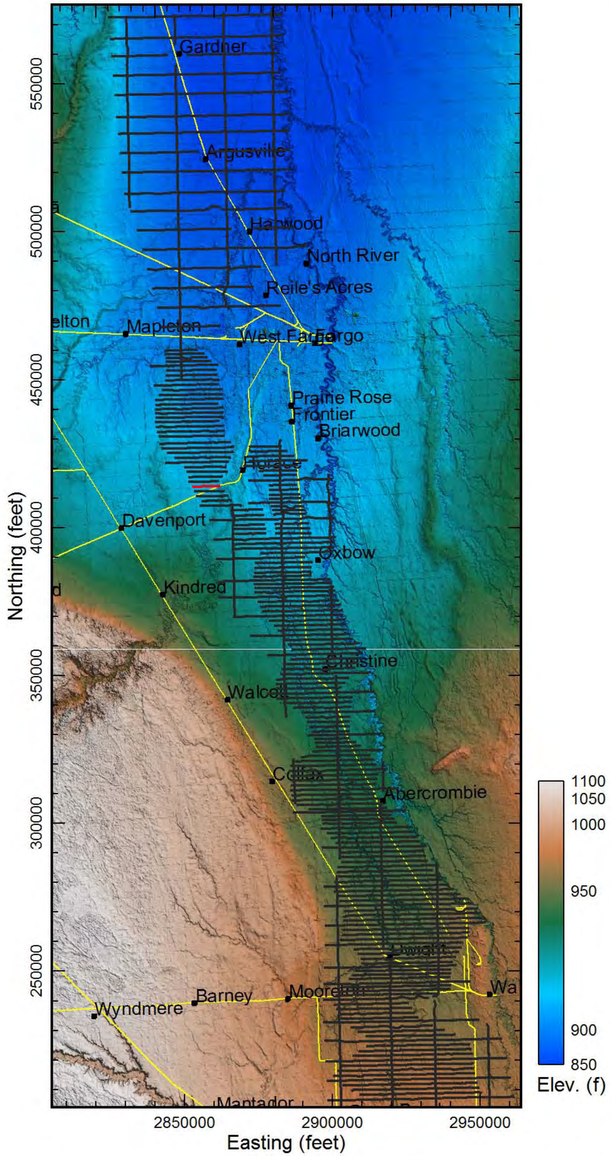

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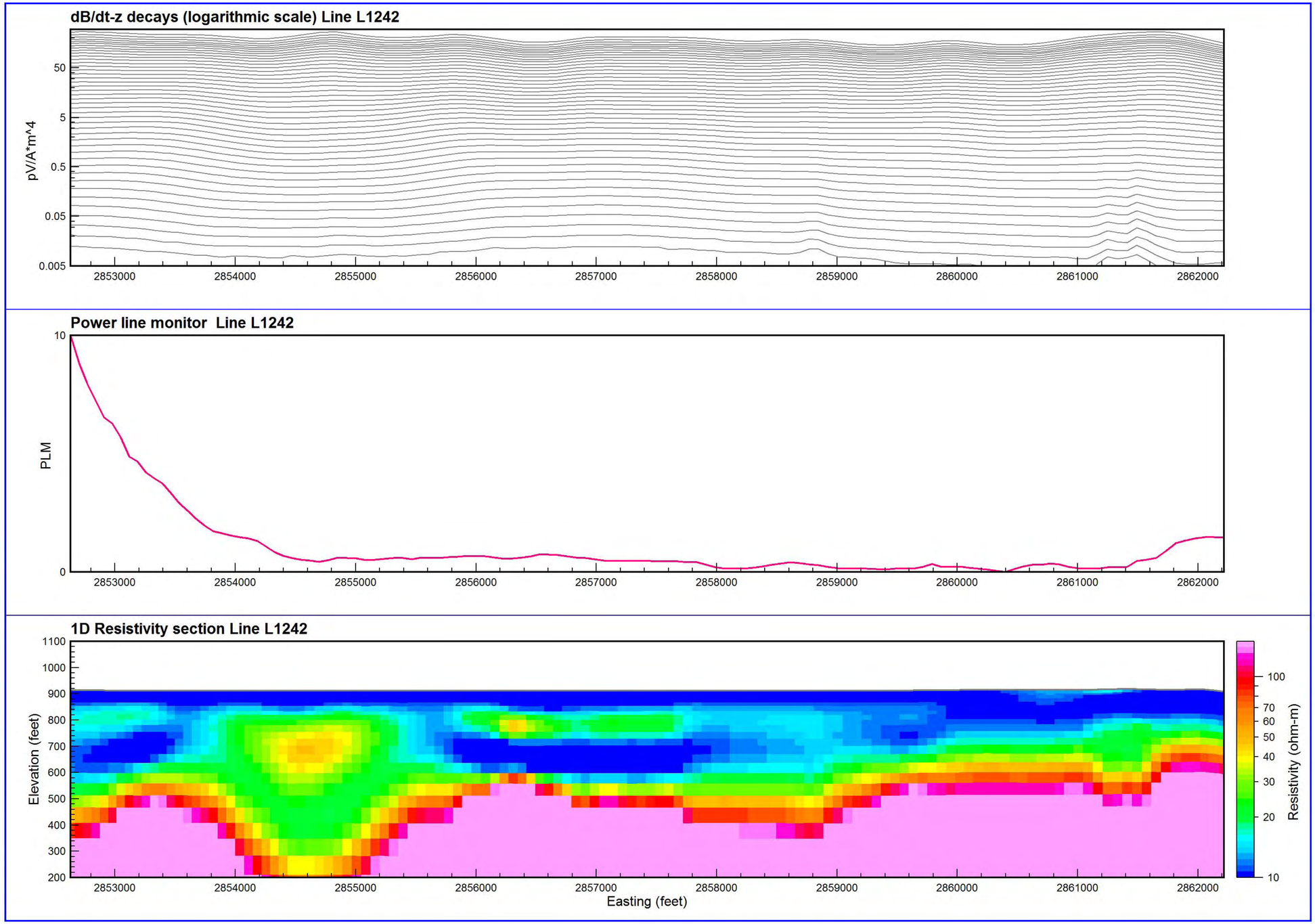

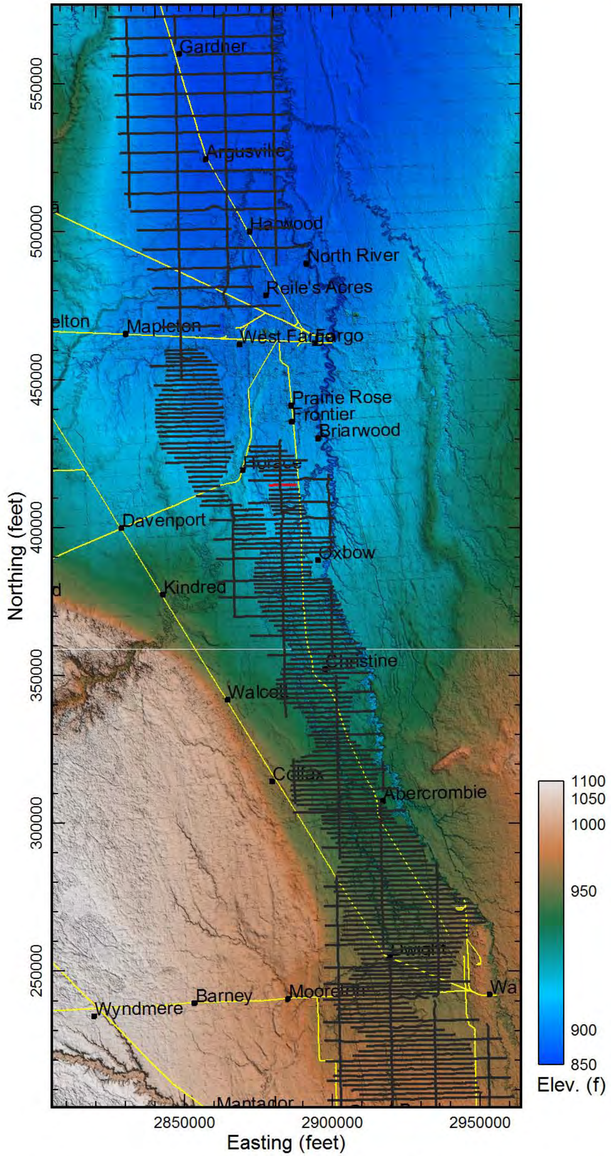

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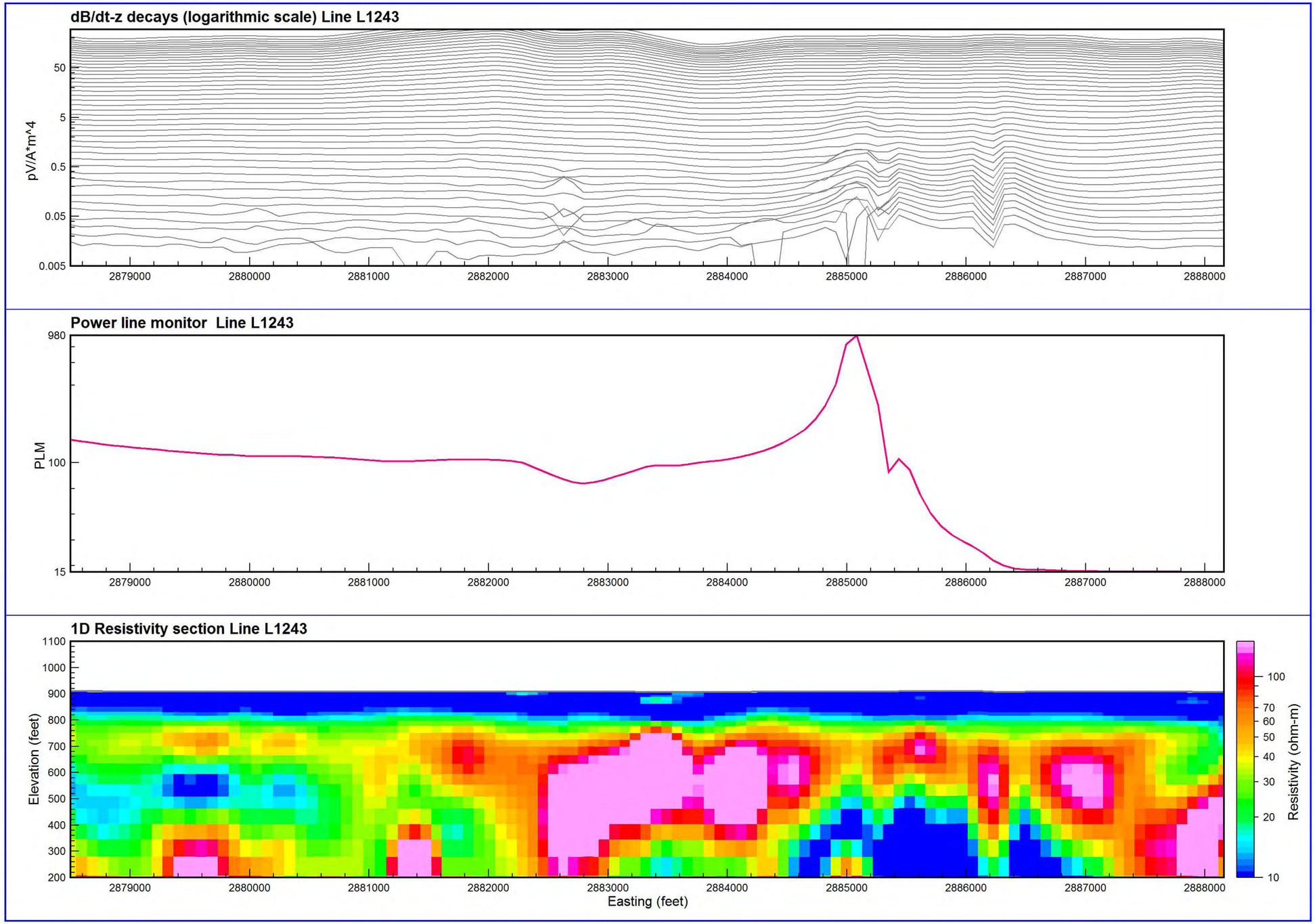

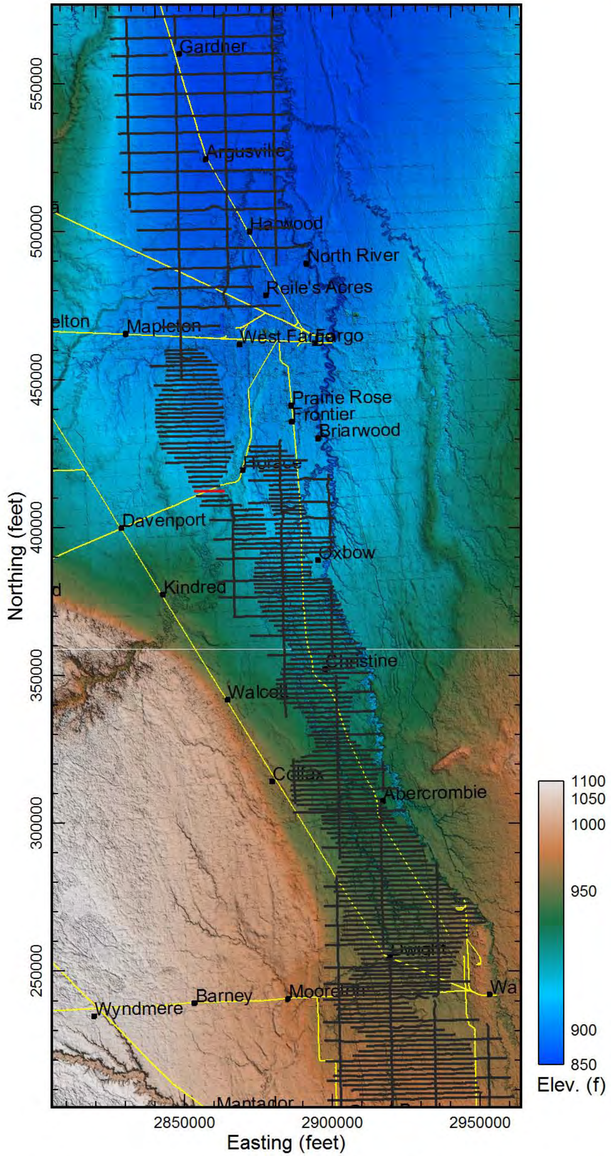

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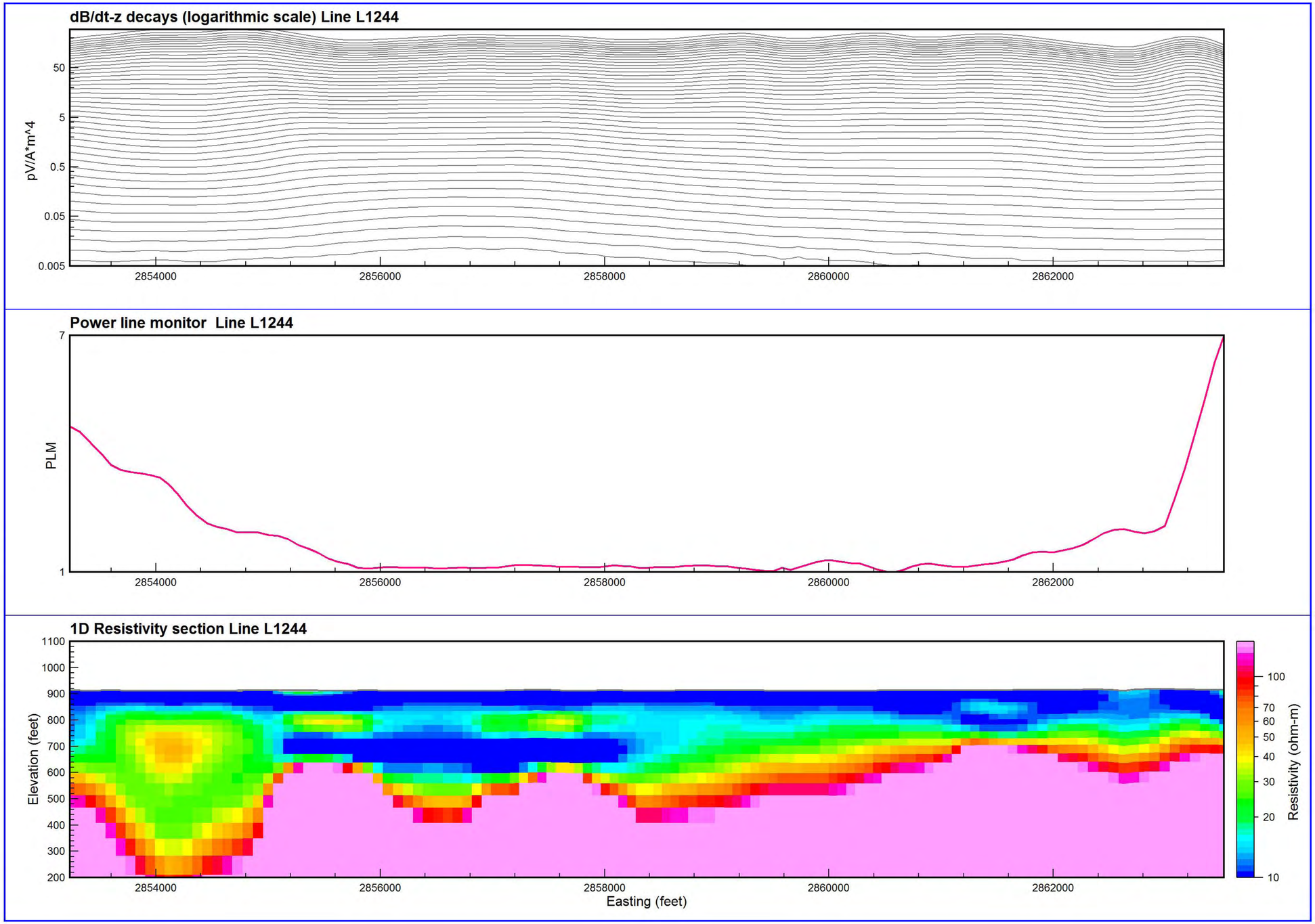

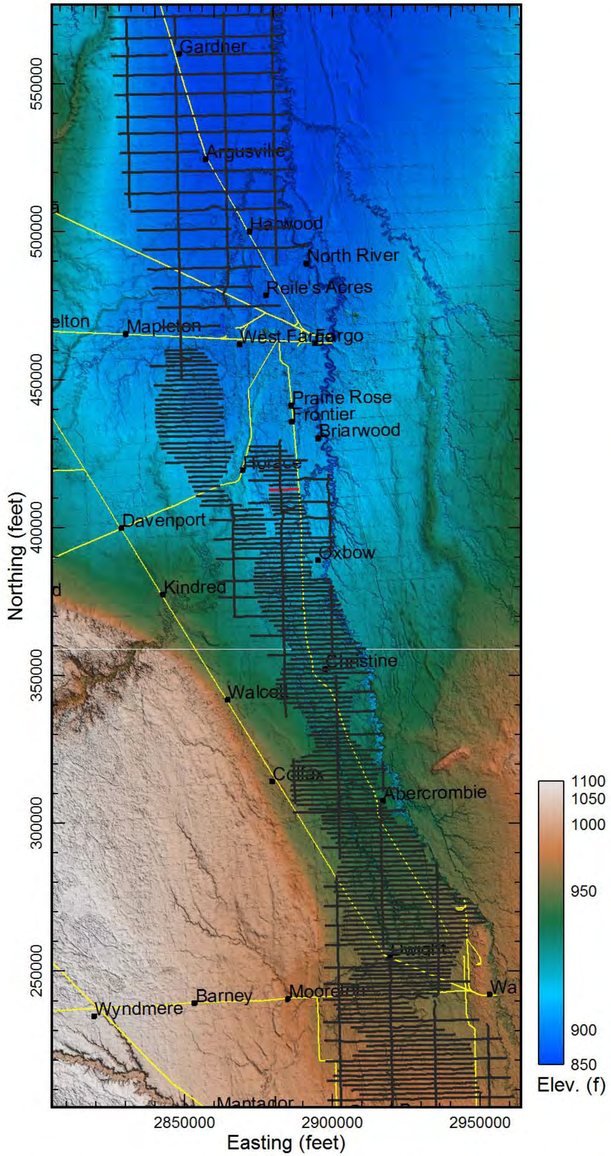

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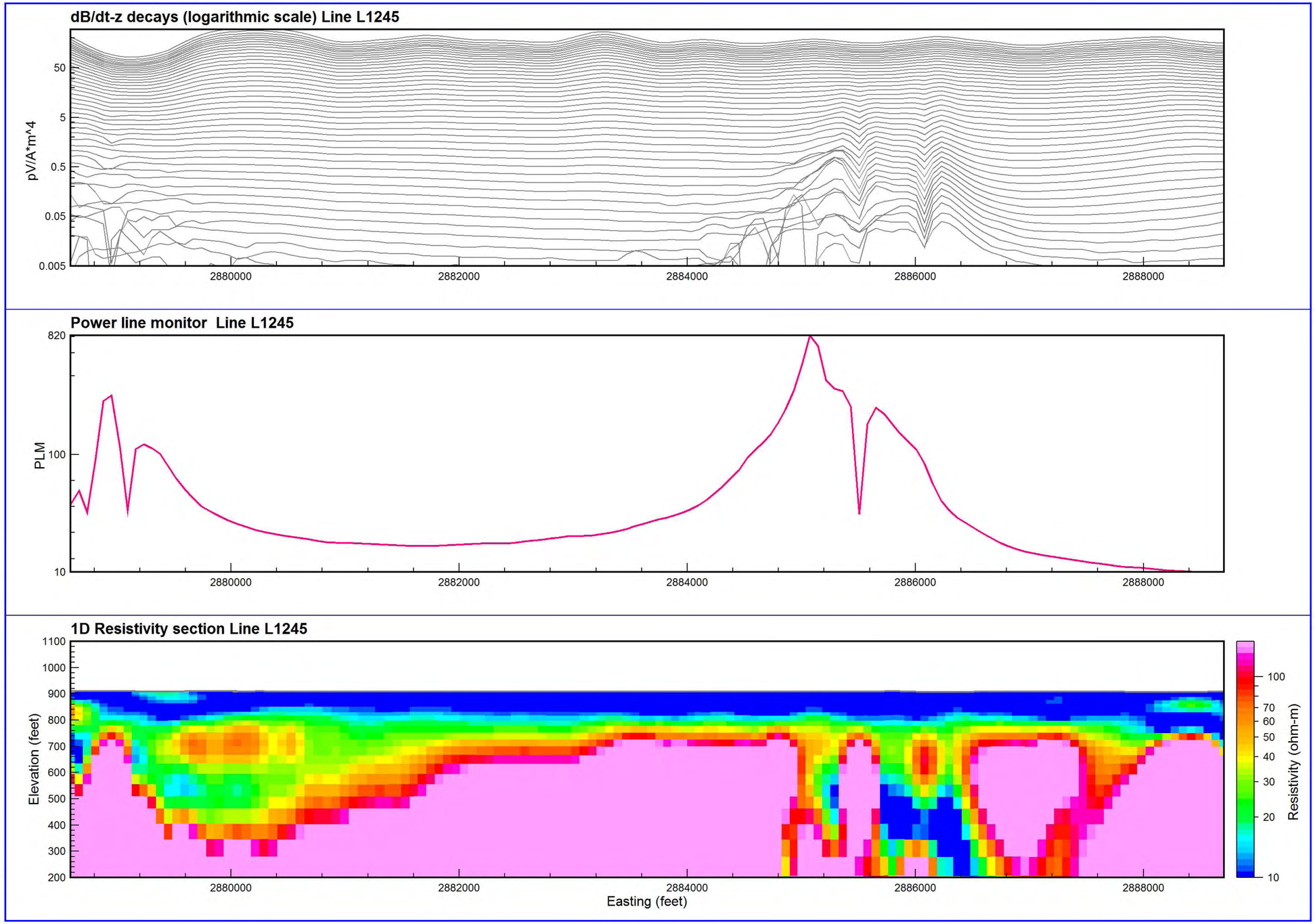

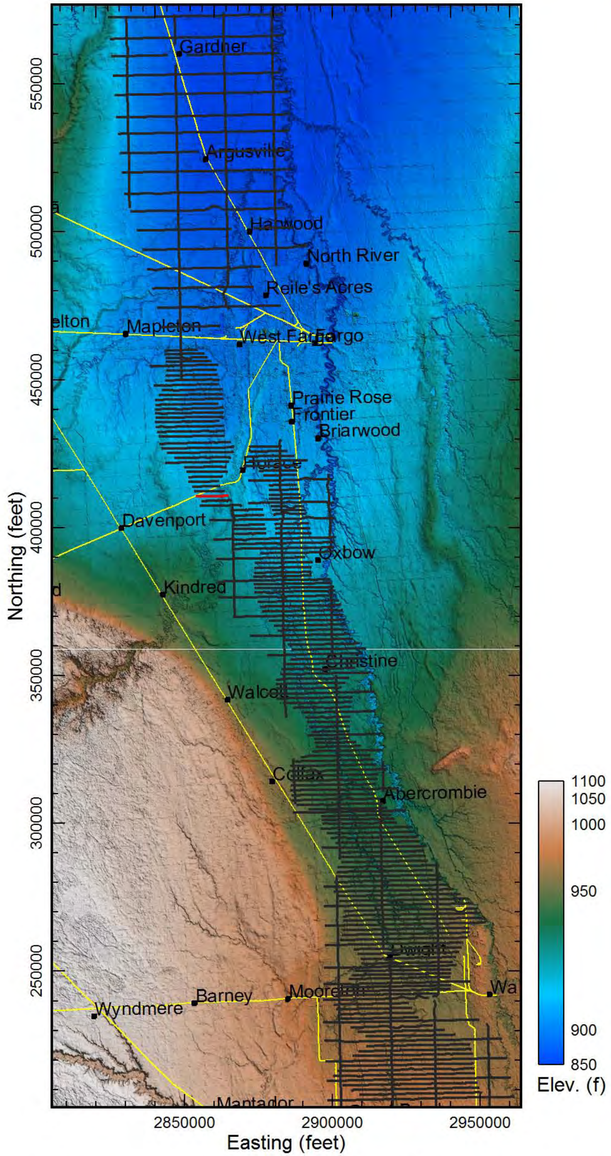

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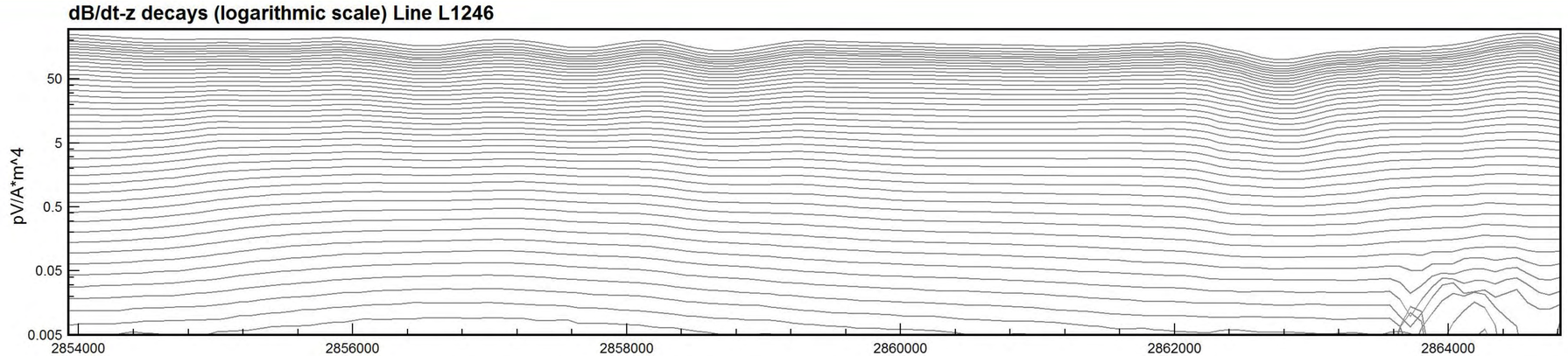

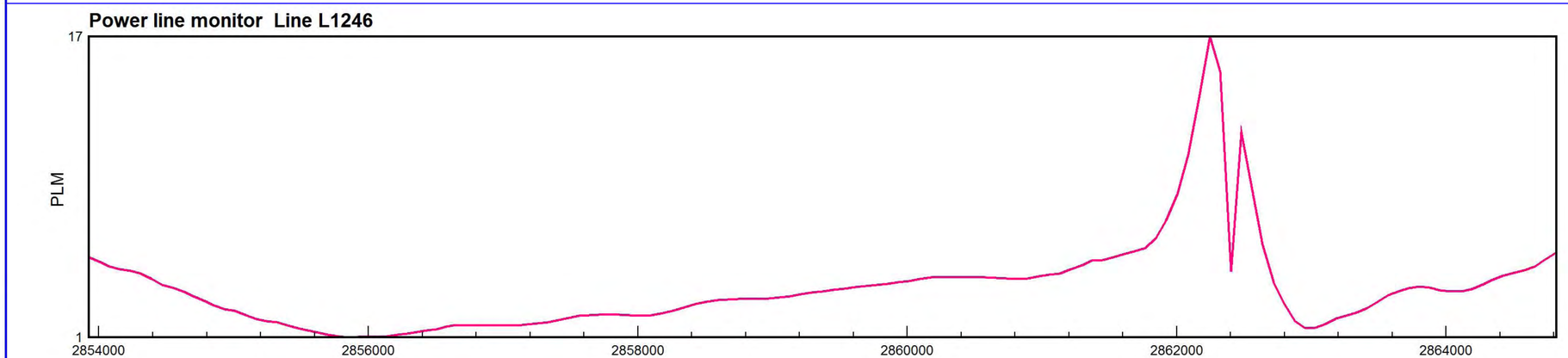

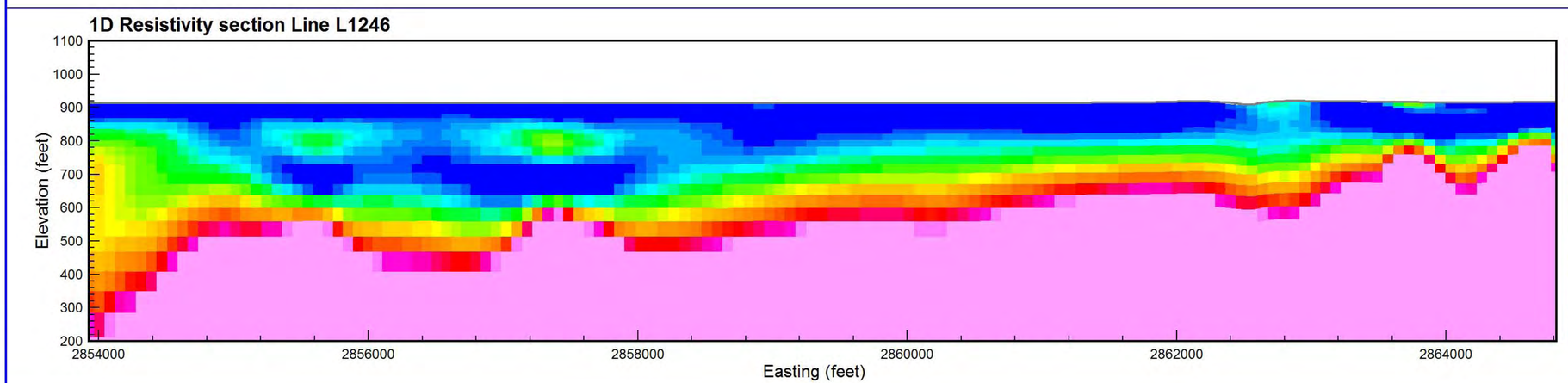

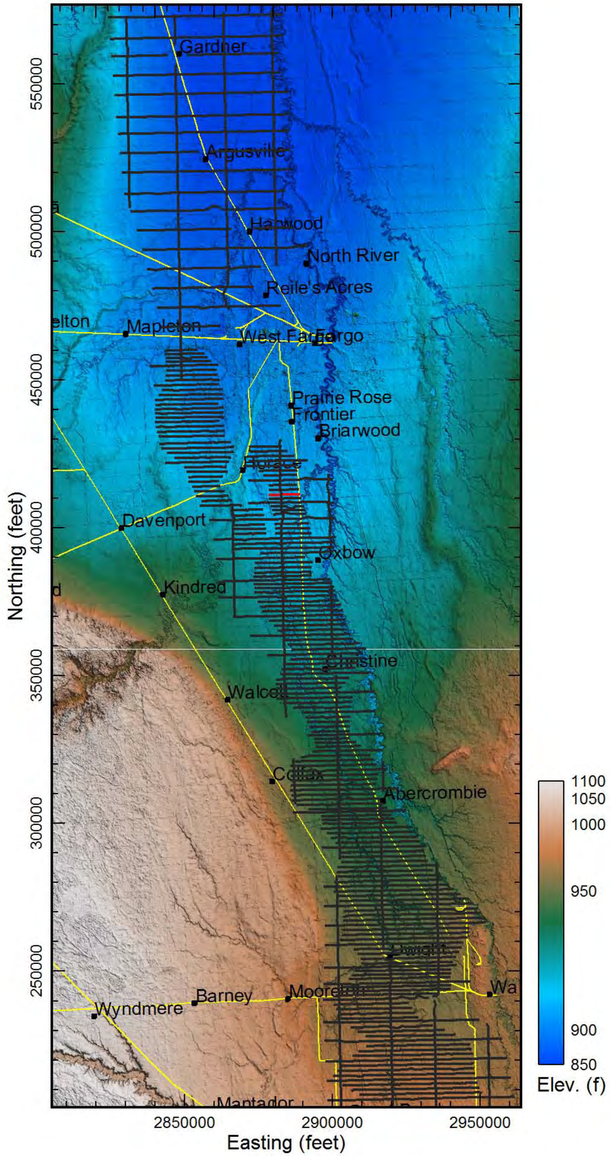

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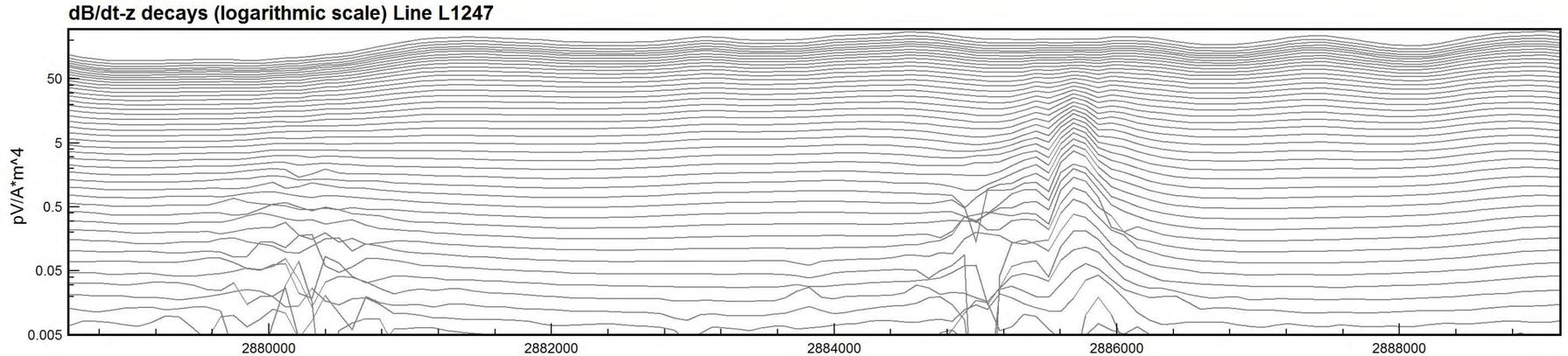

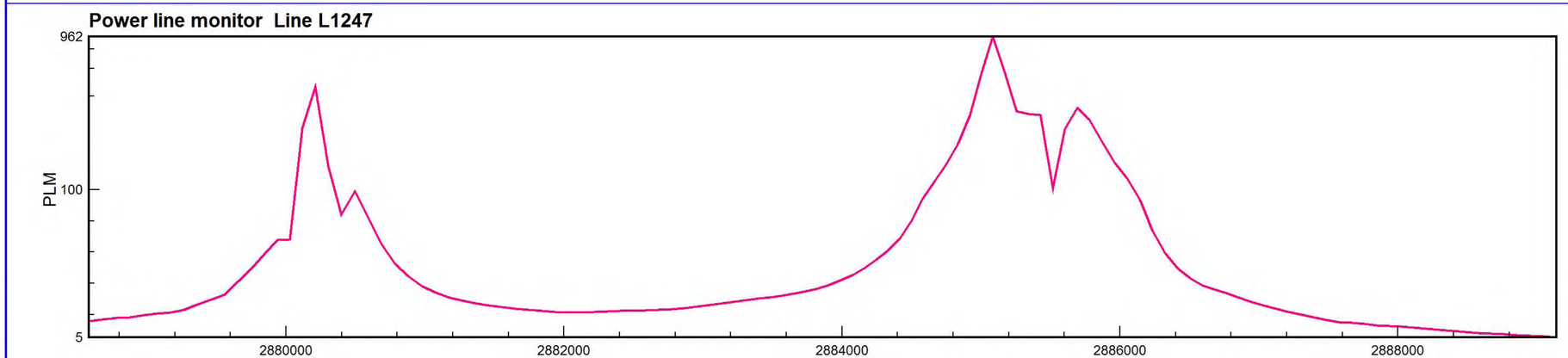

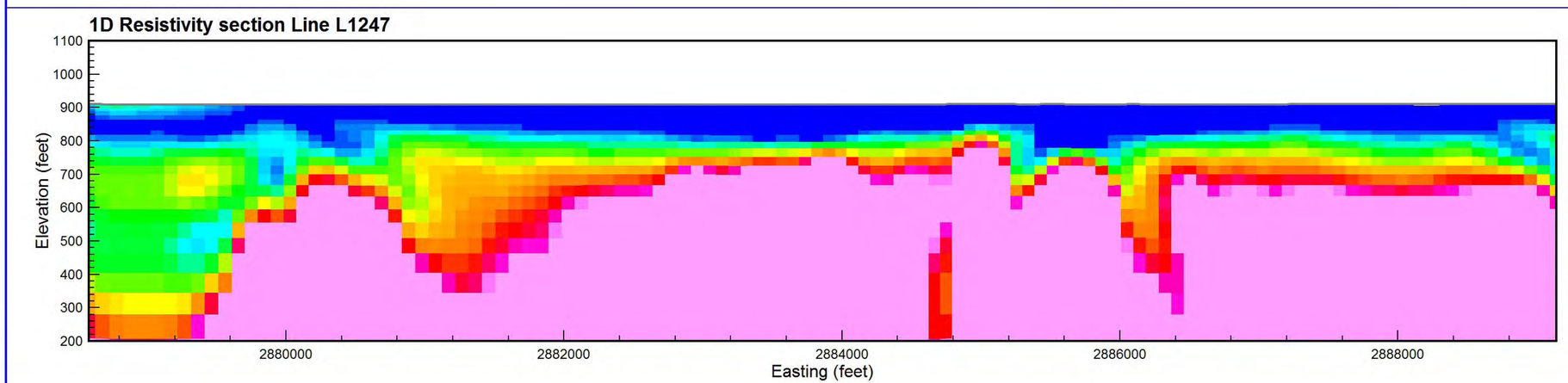

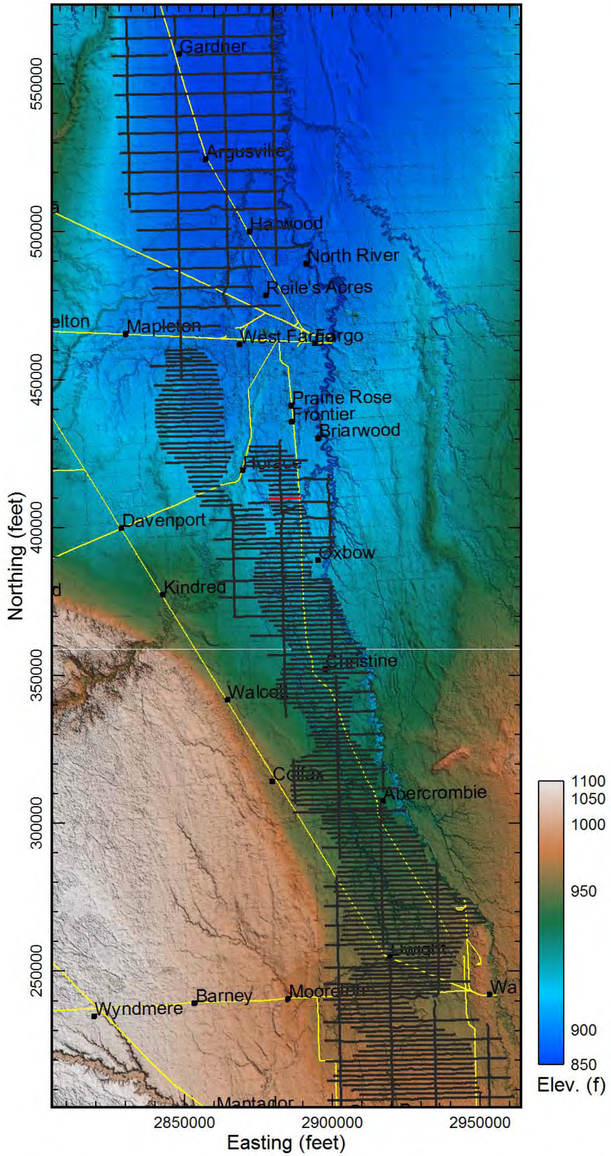

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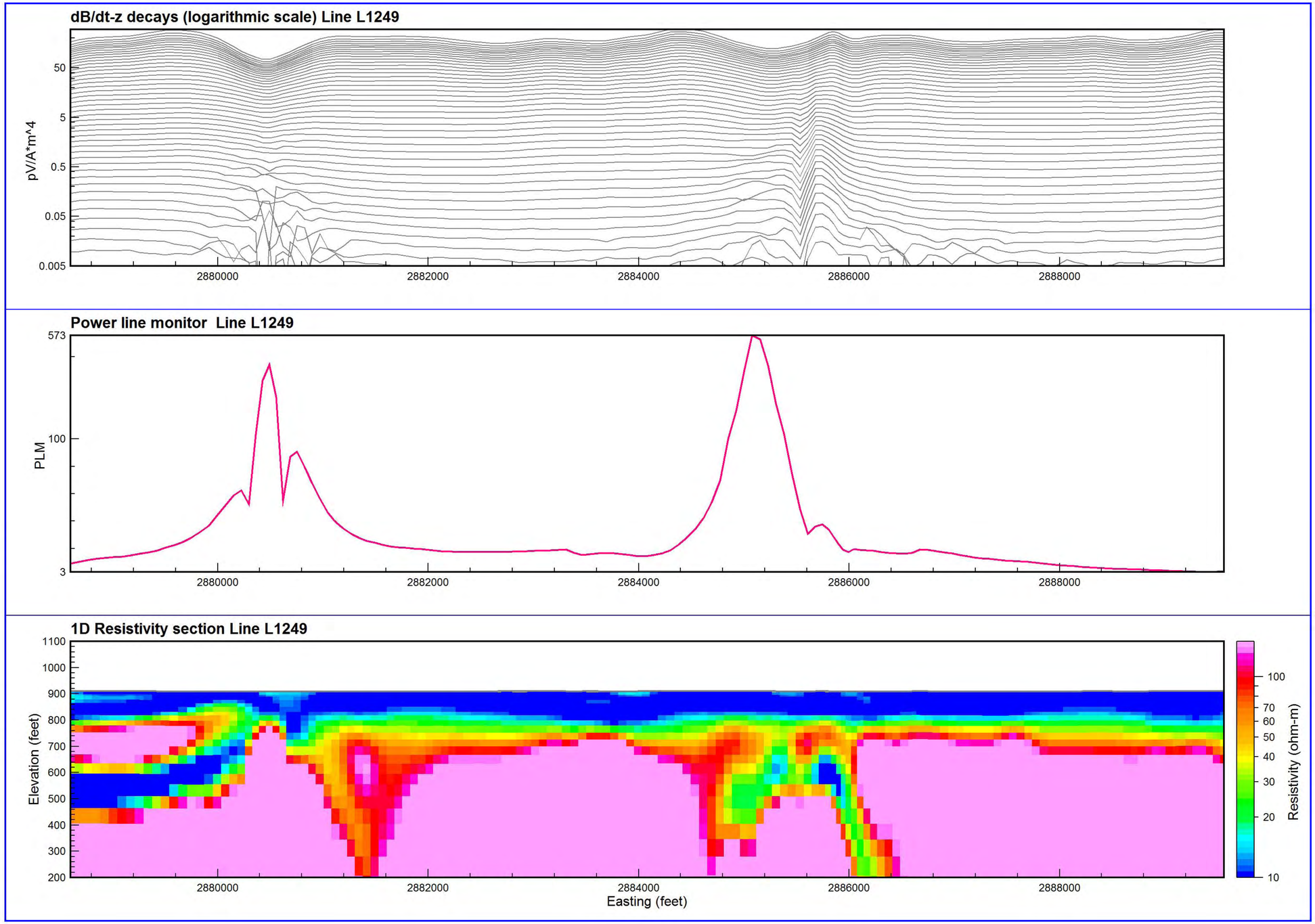

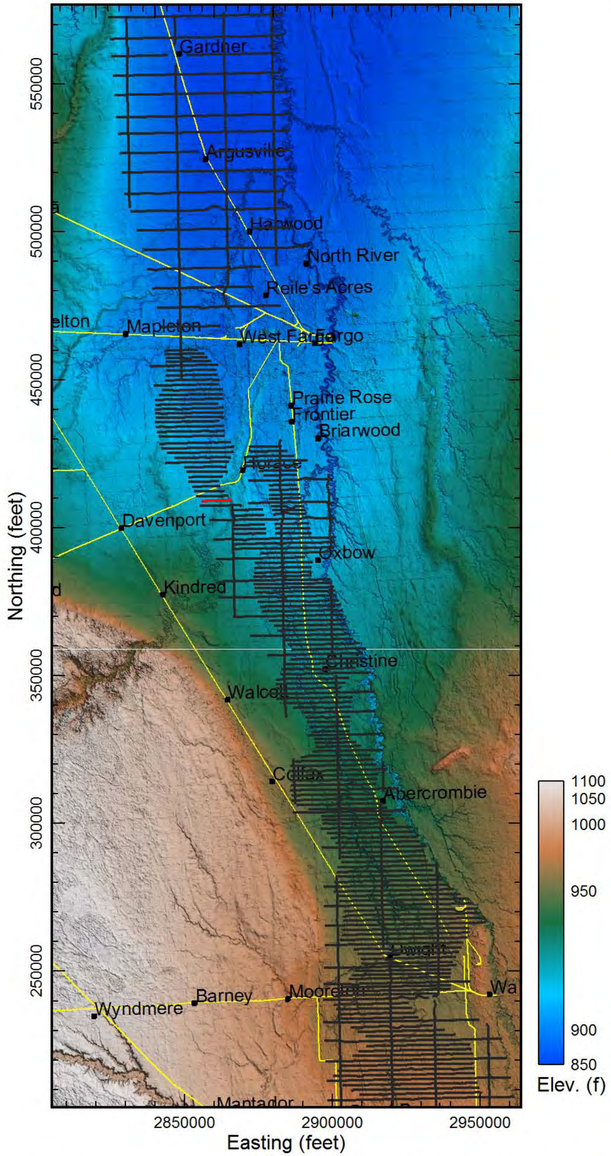

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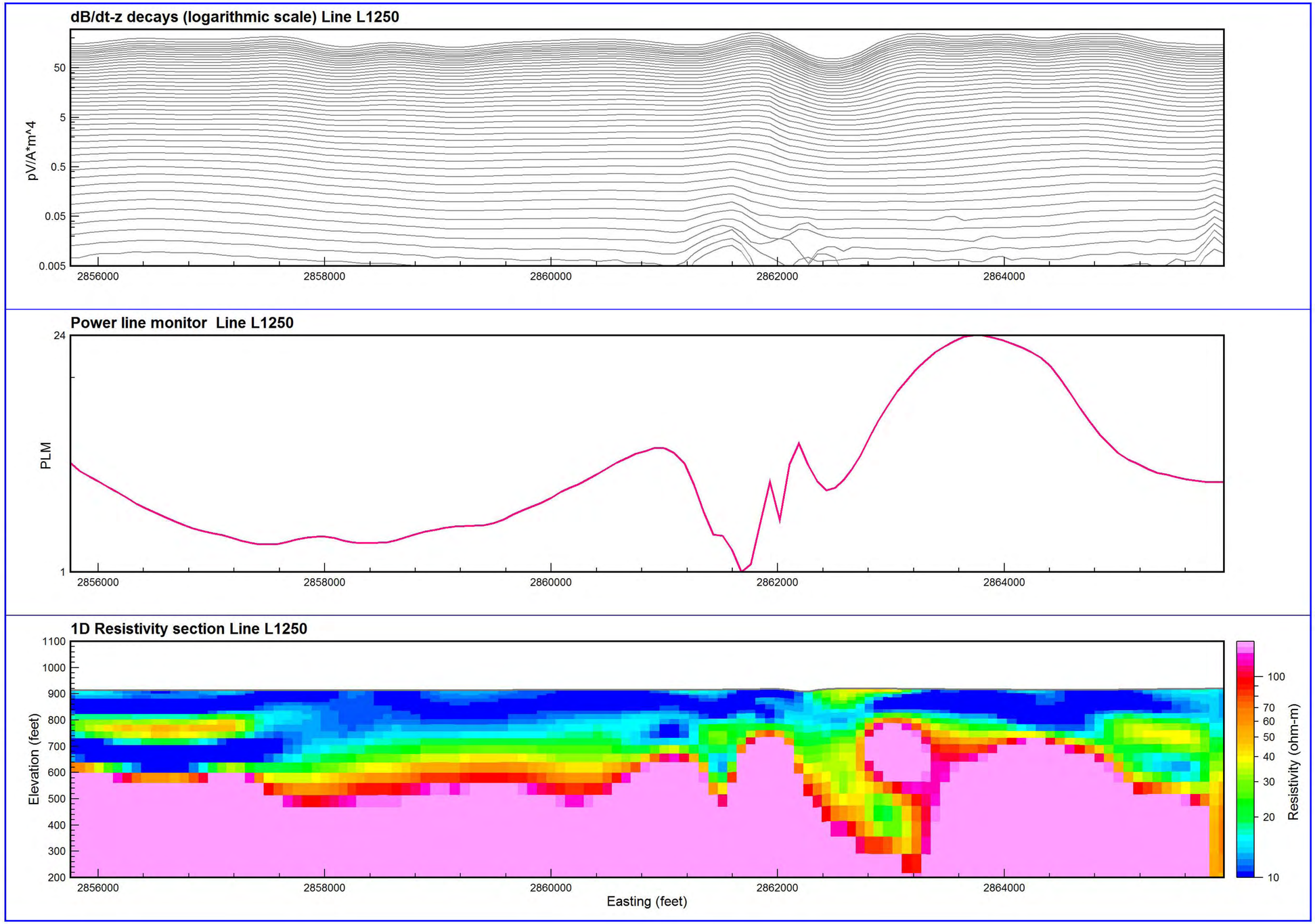

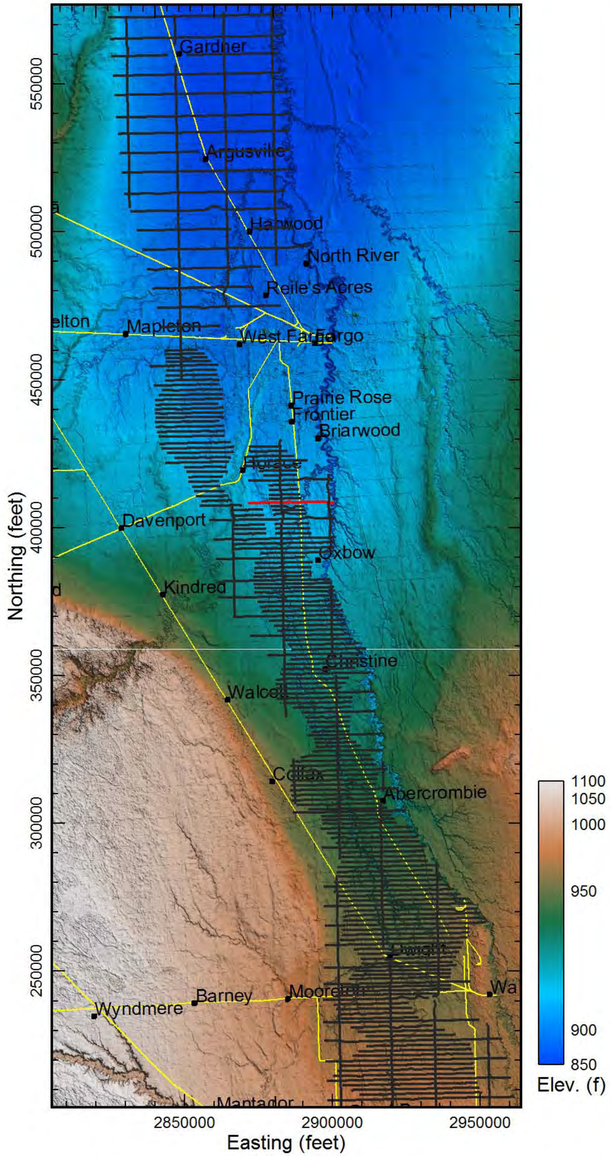

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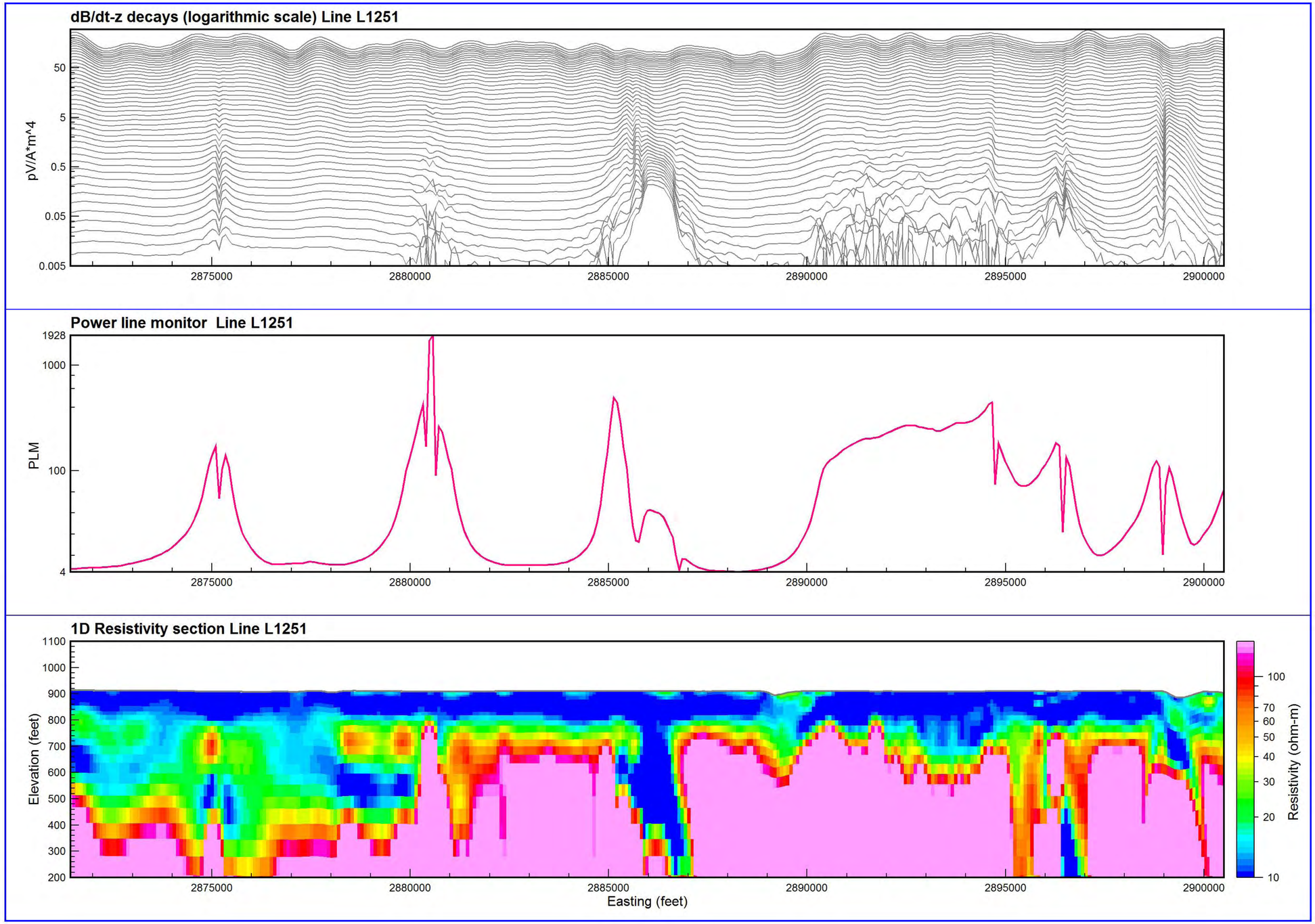

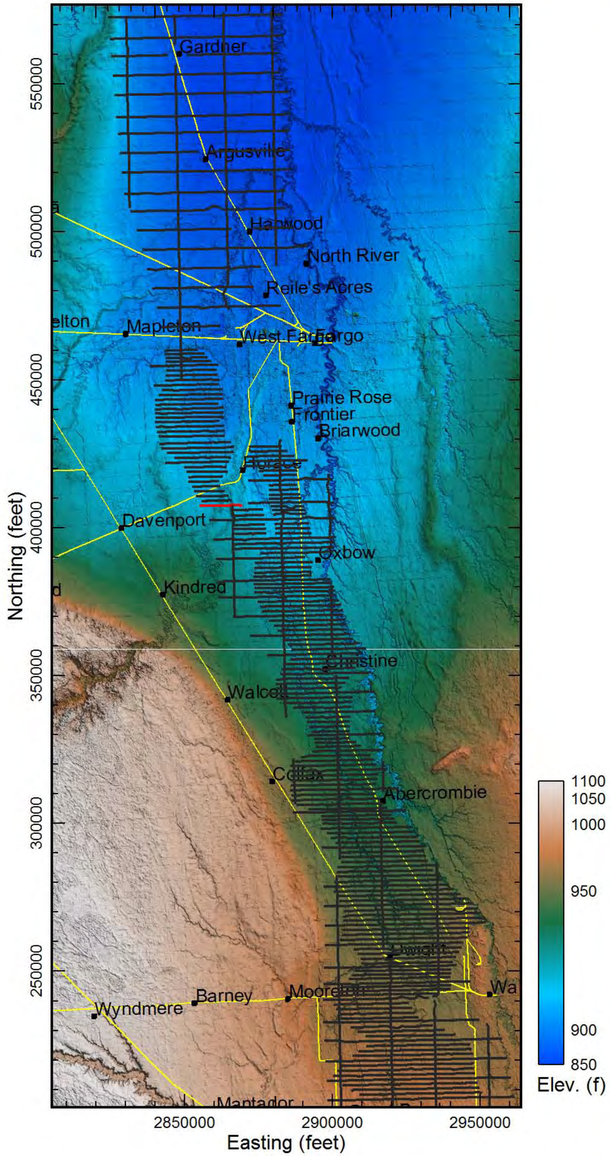

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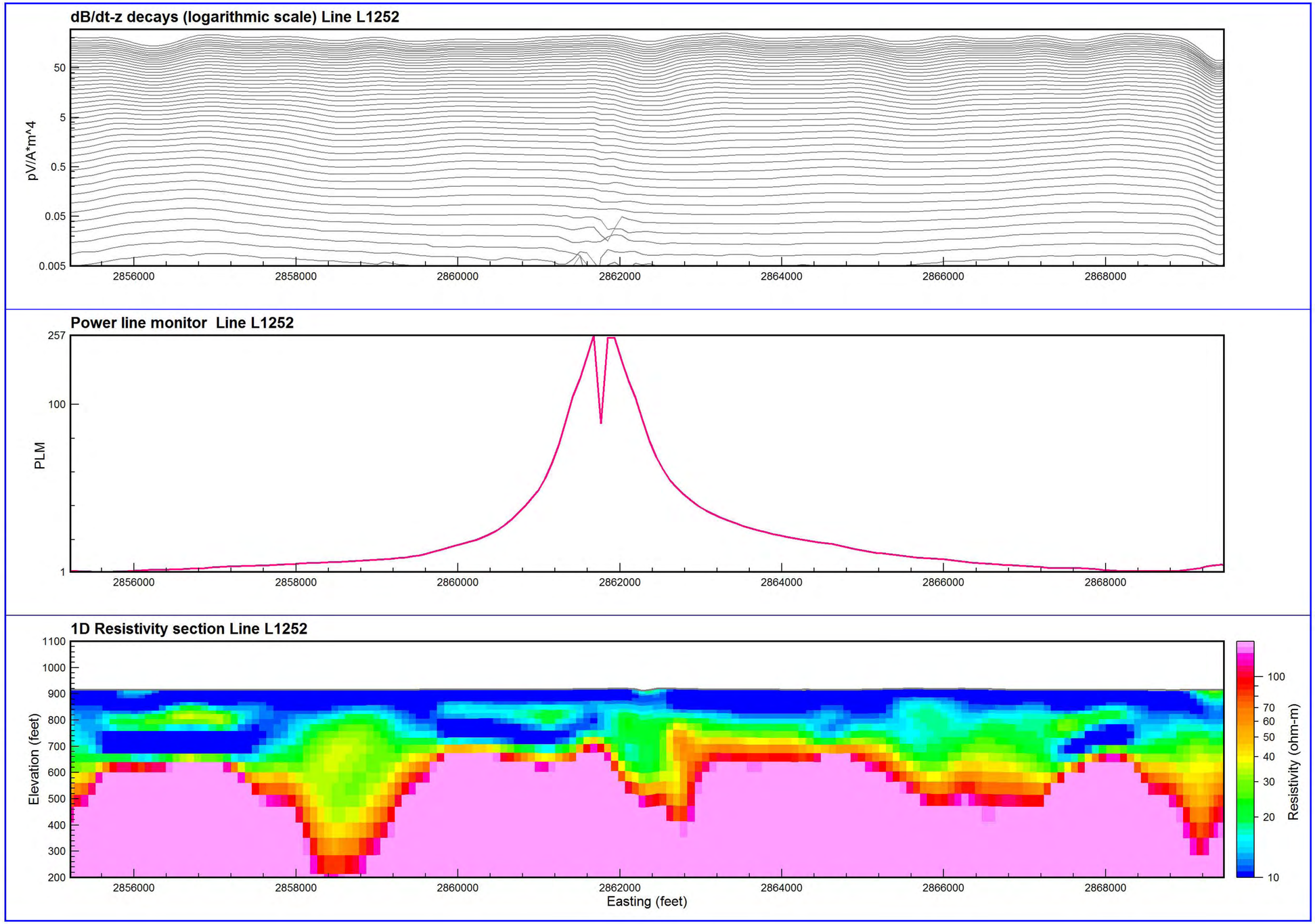

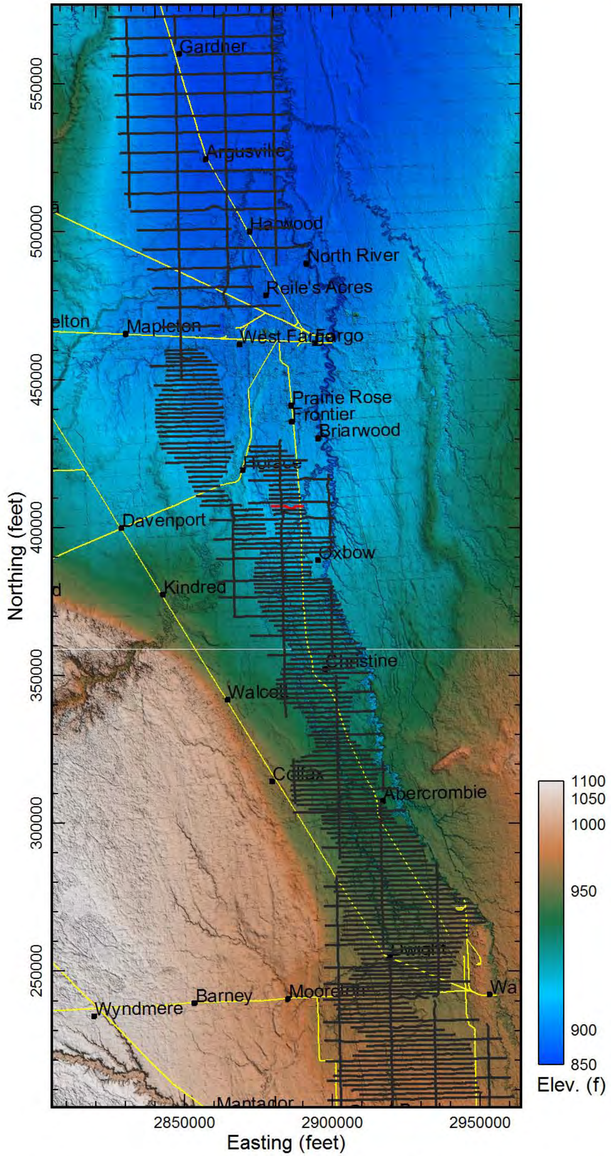

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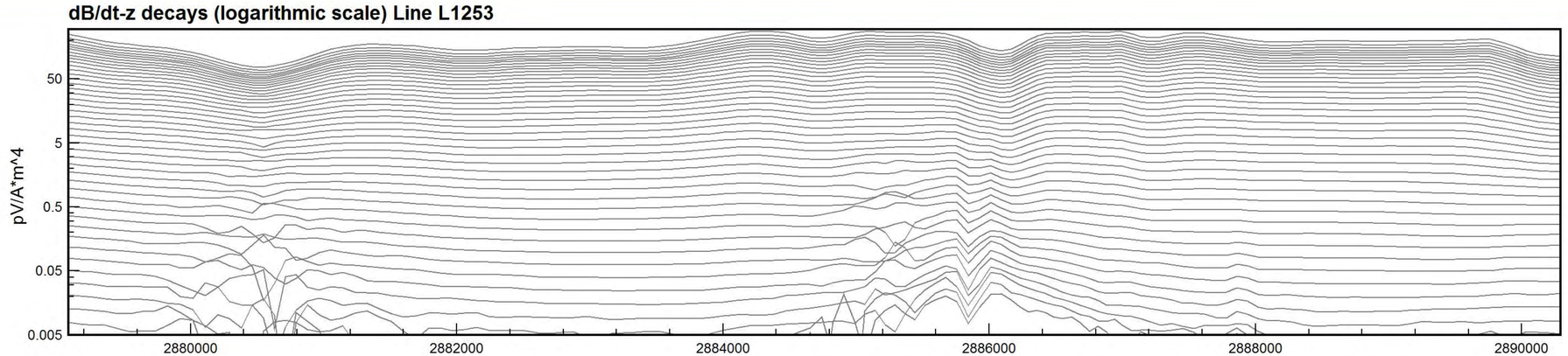

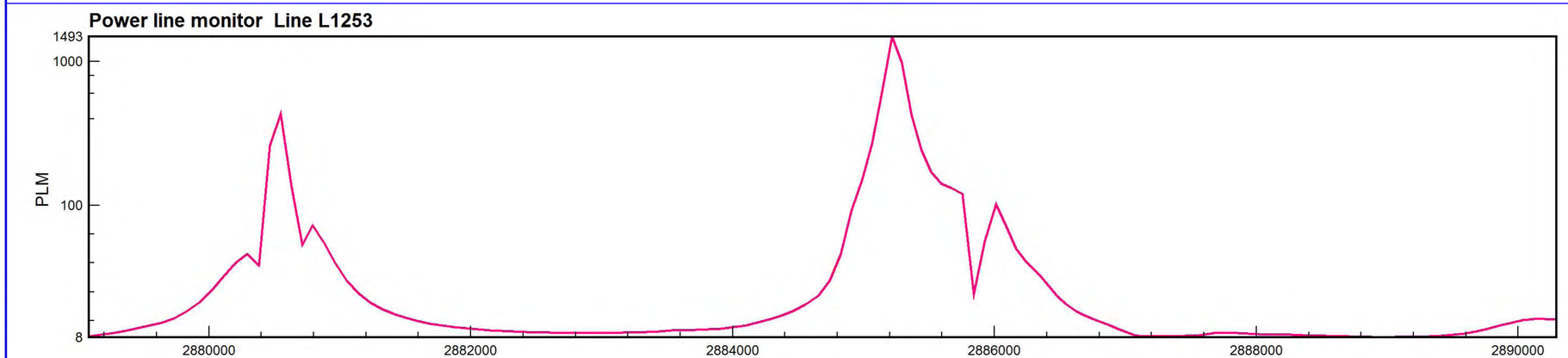

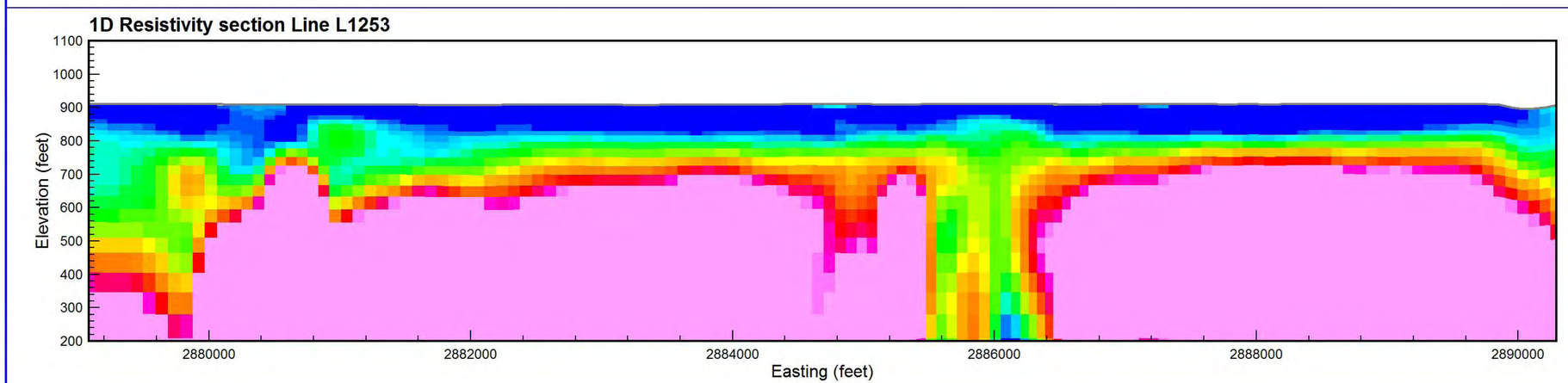

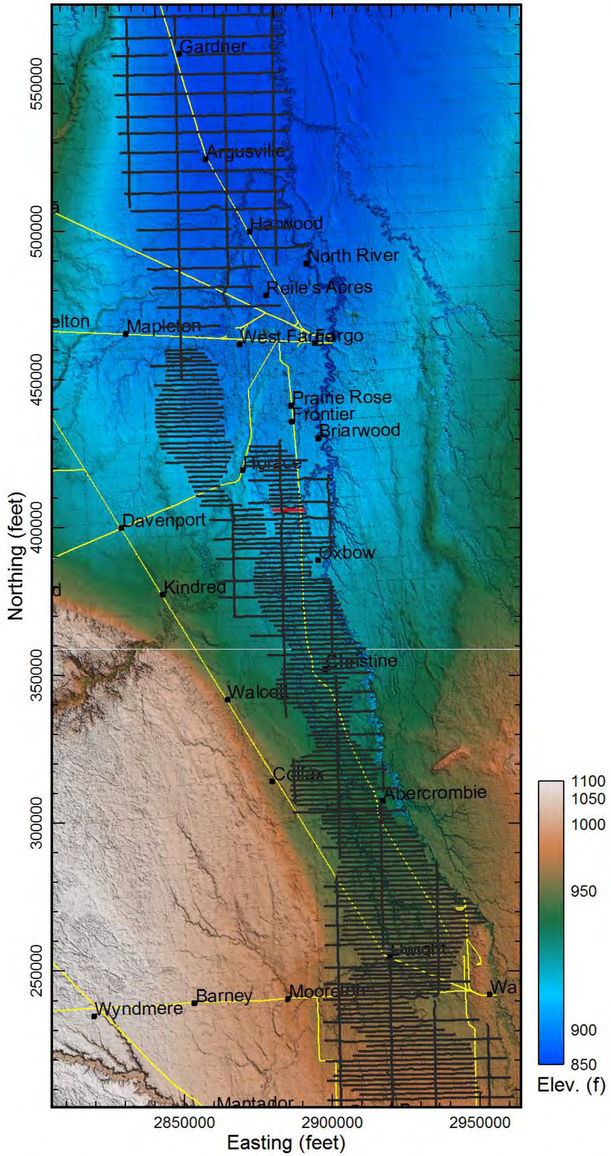

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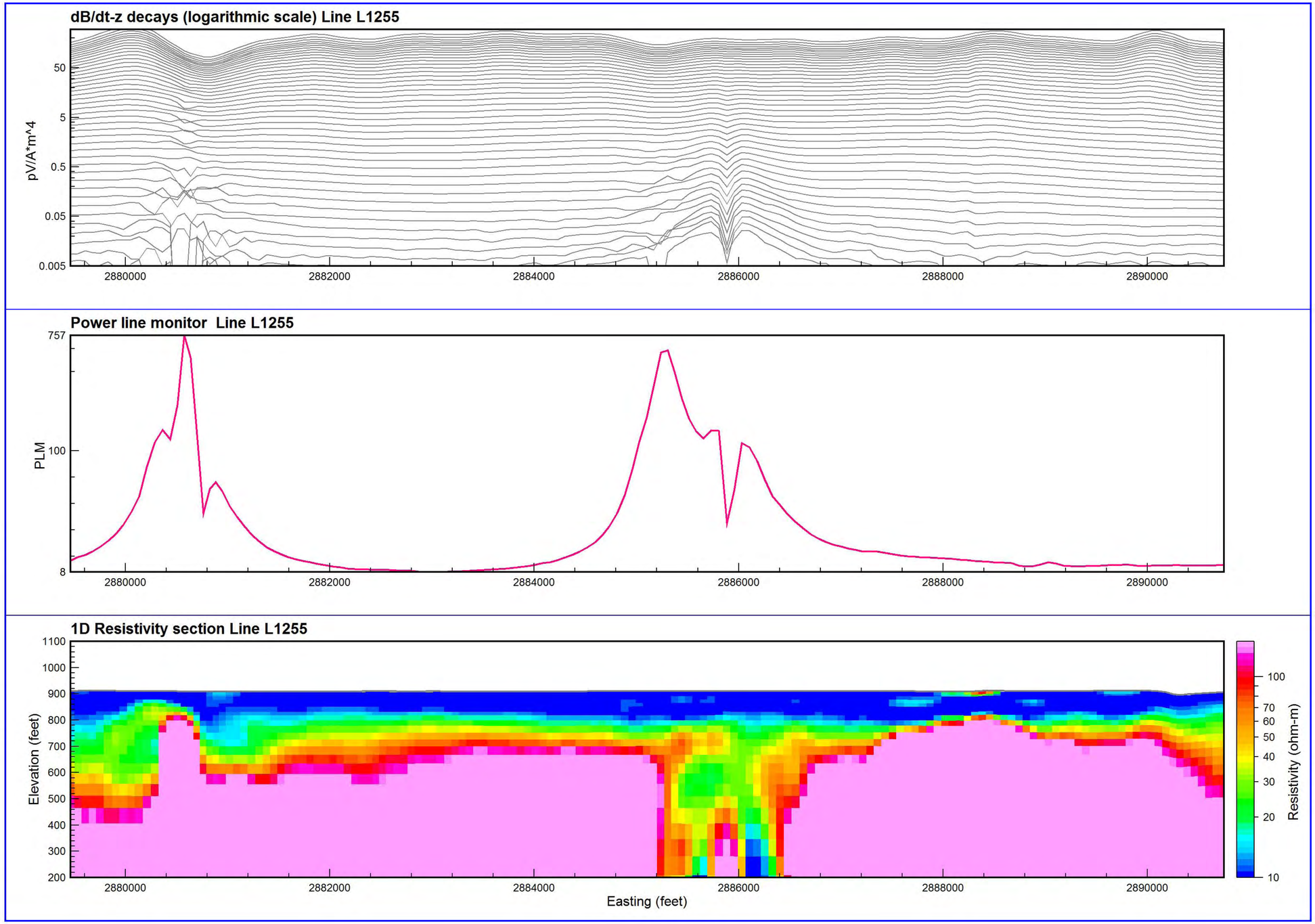

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VTEM survey, Wahpeton, North Dakota
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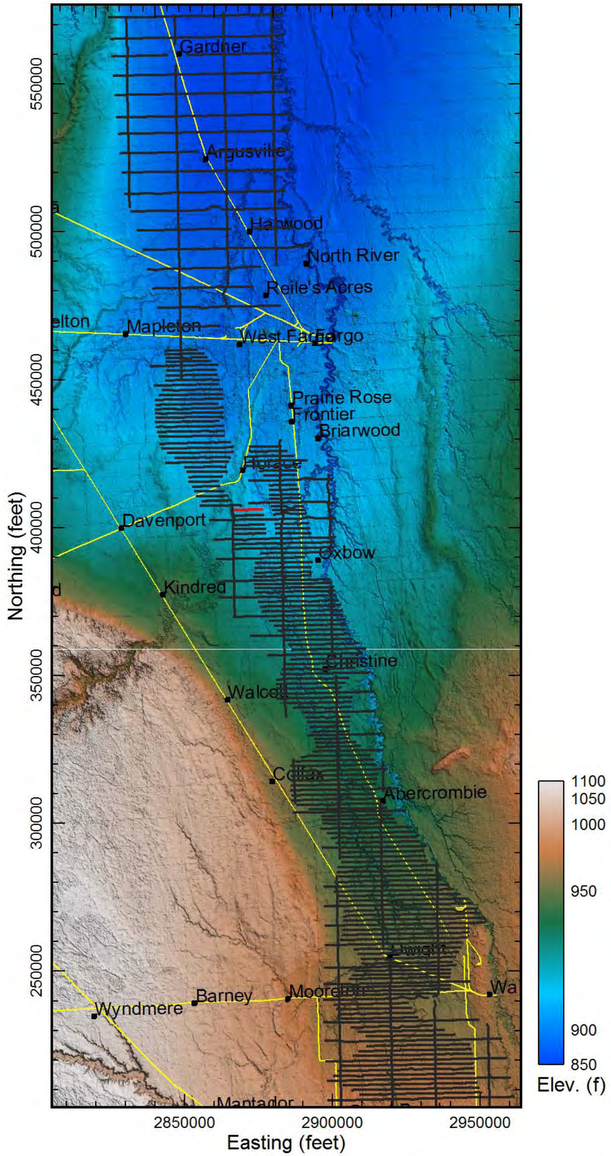
GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS



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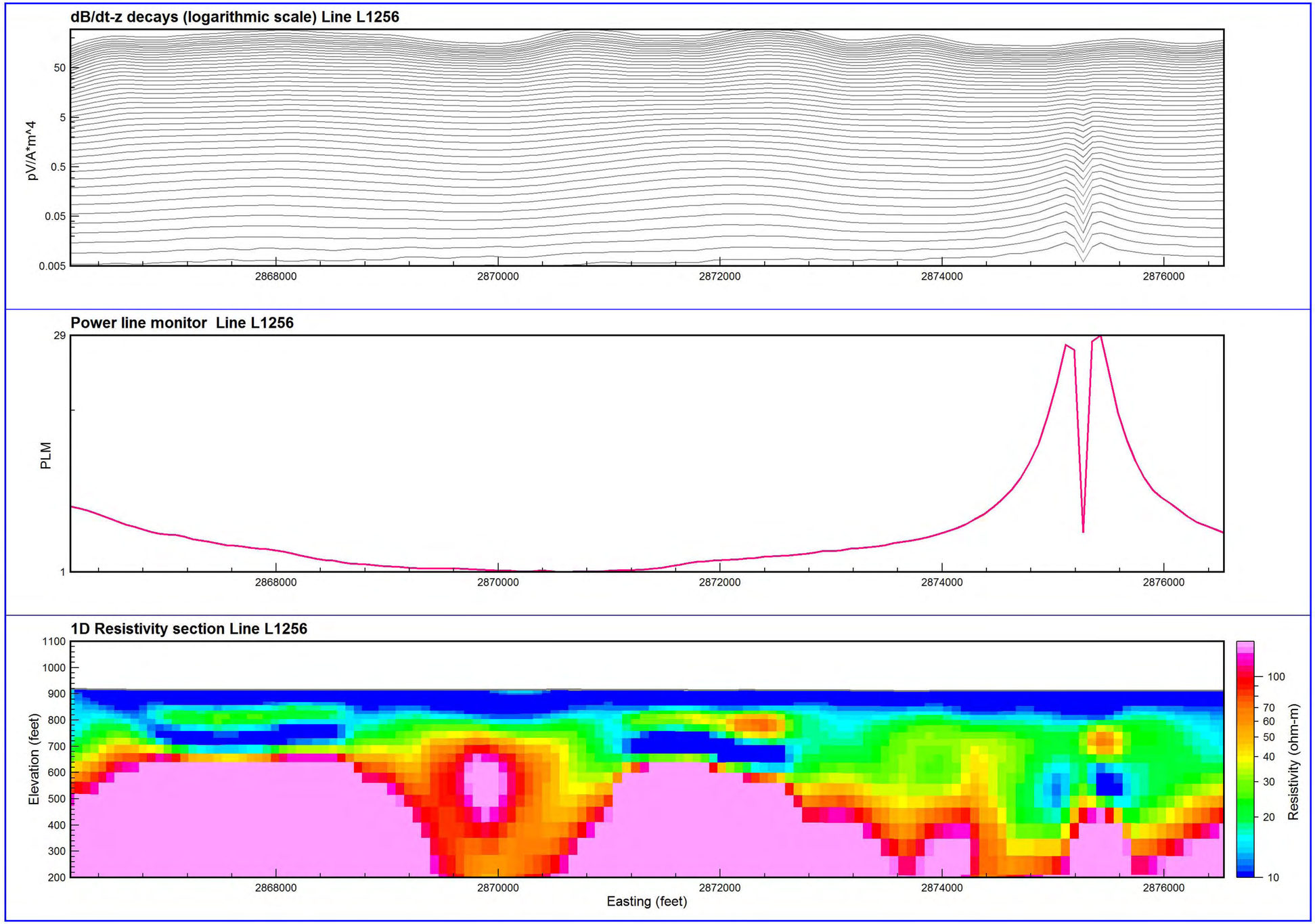

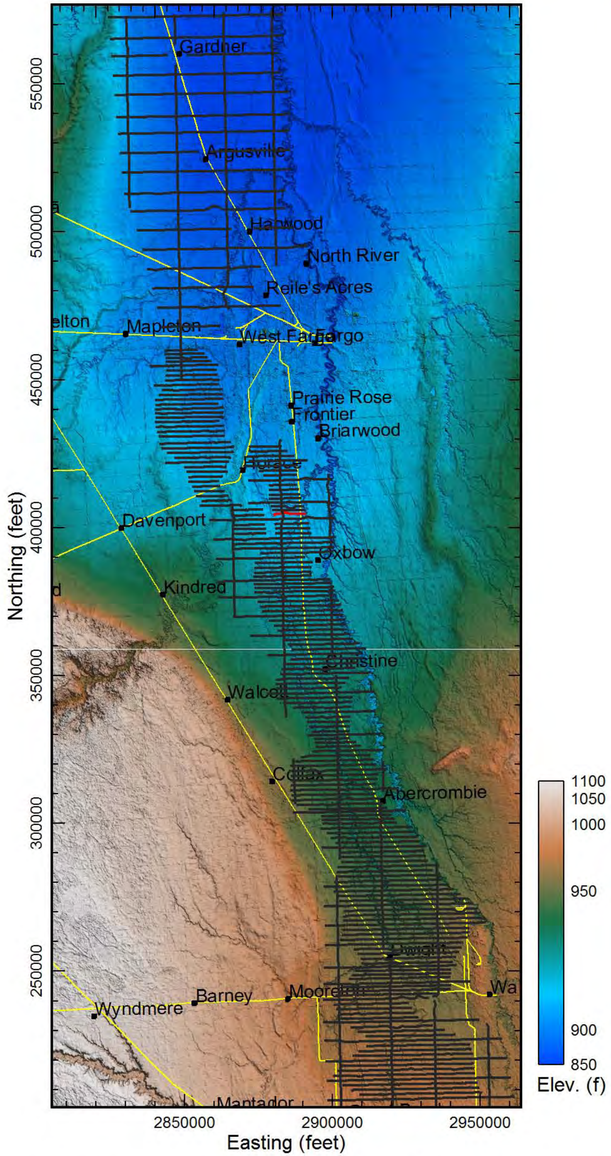

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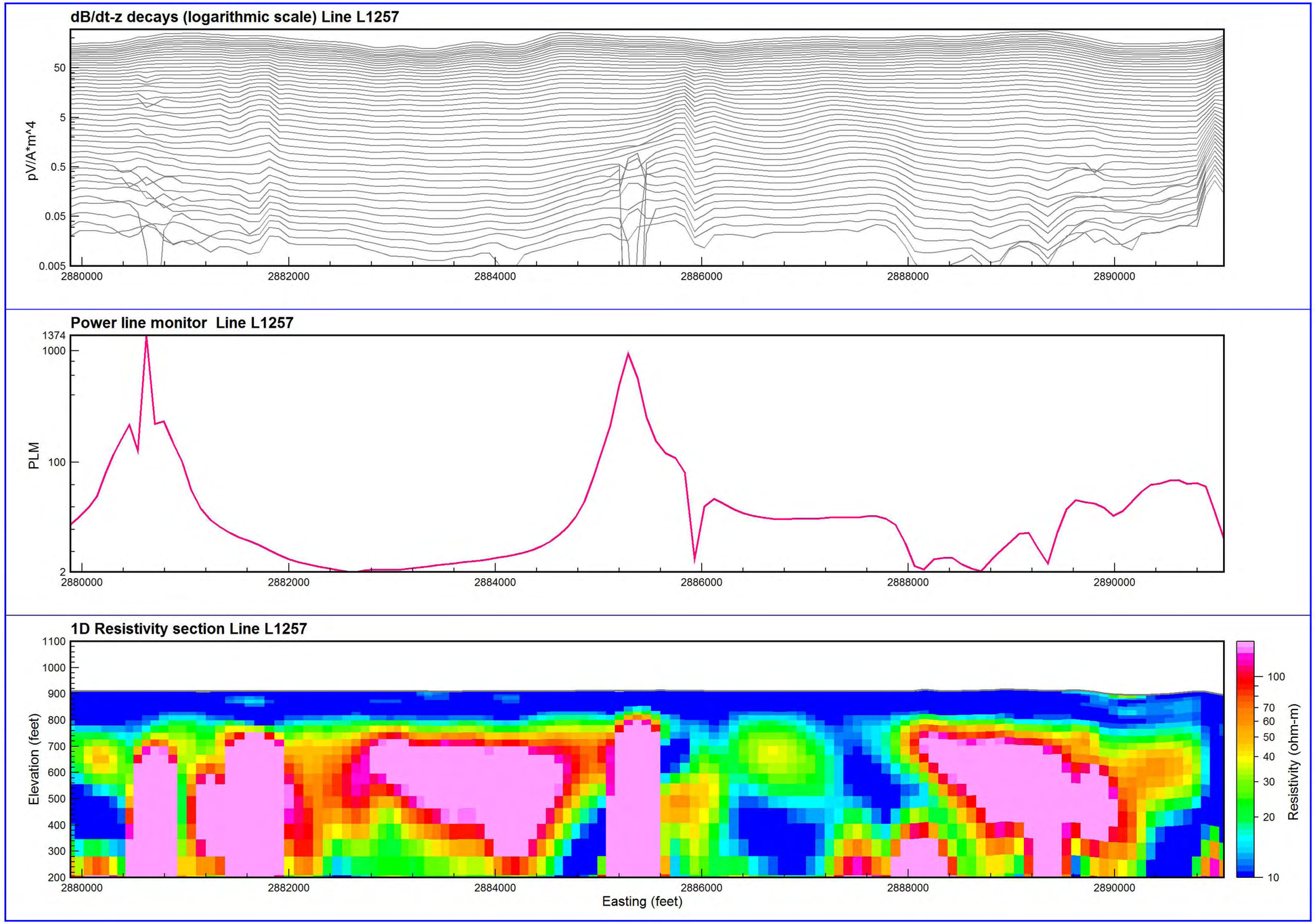

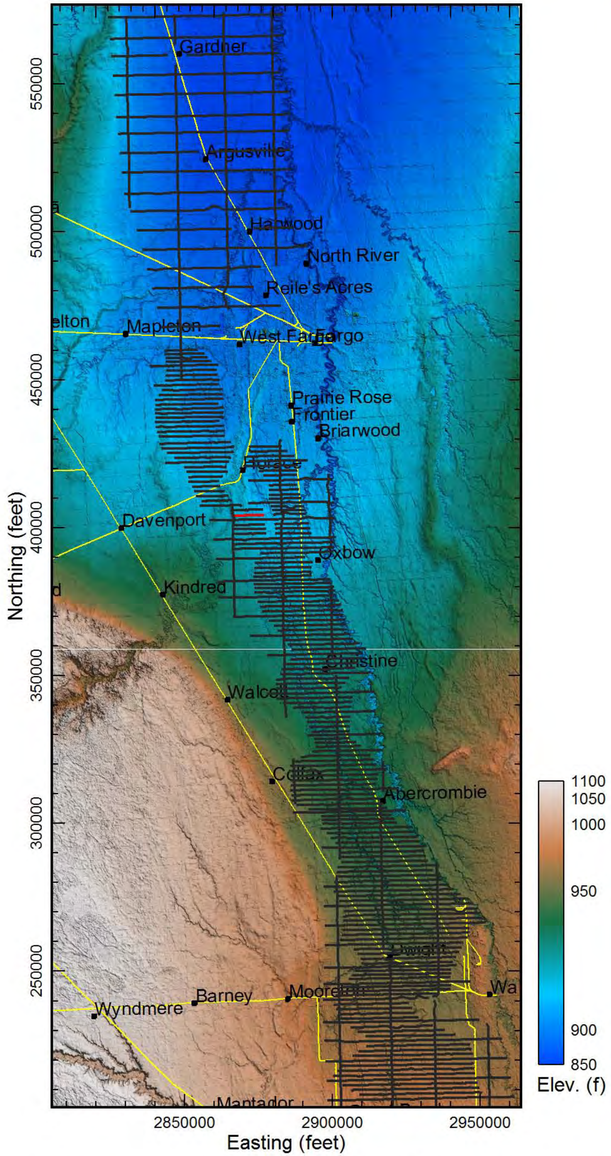

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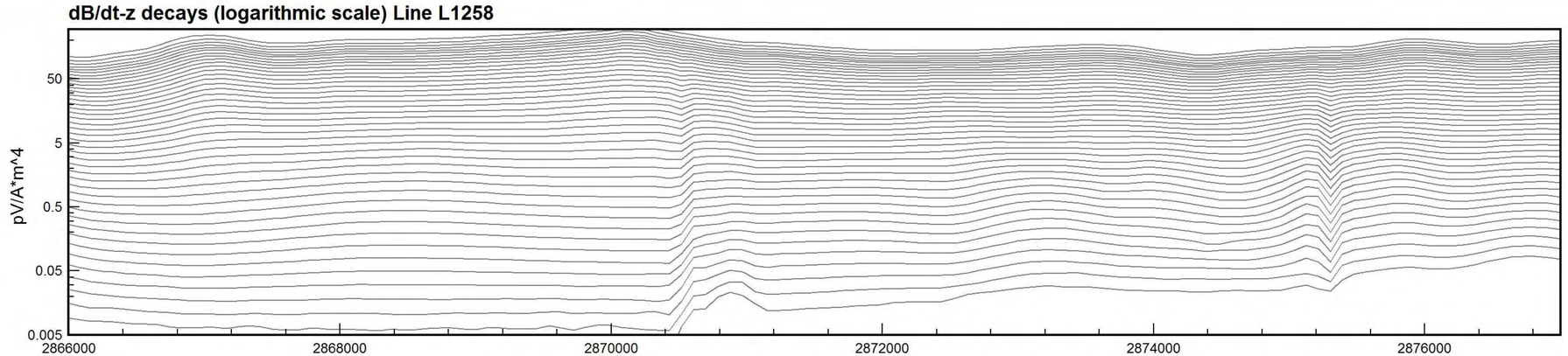

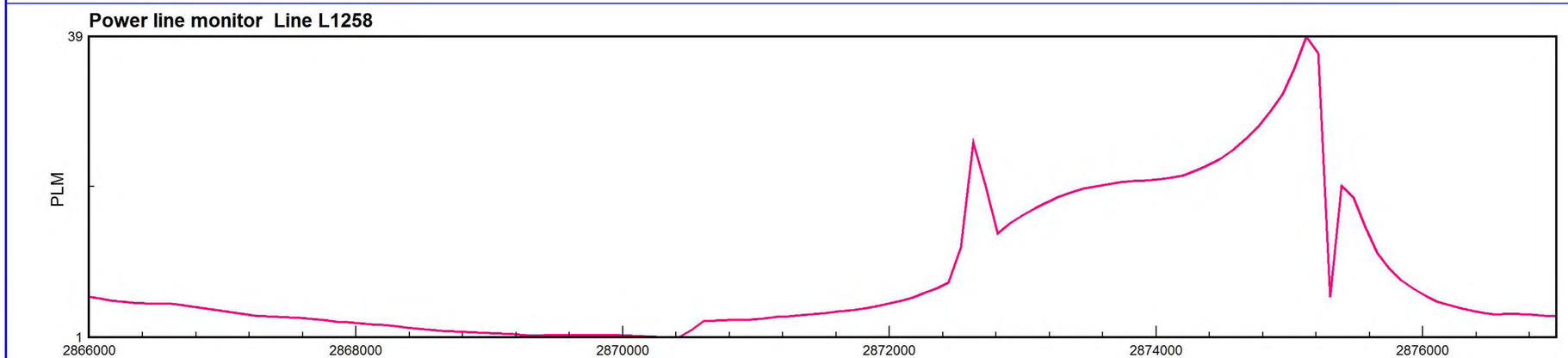

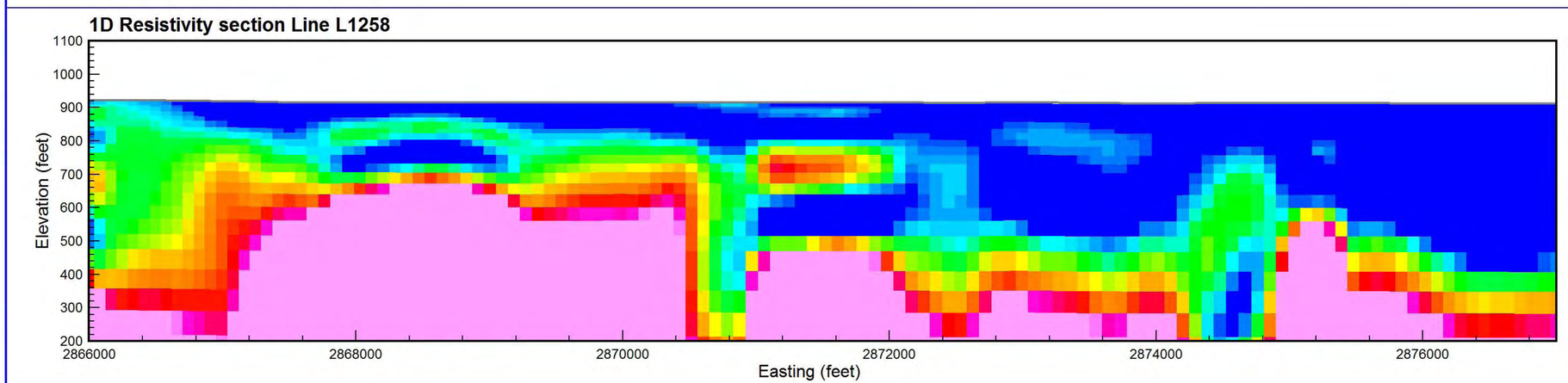

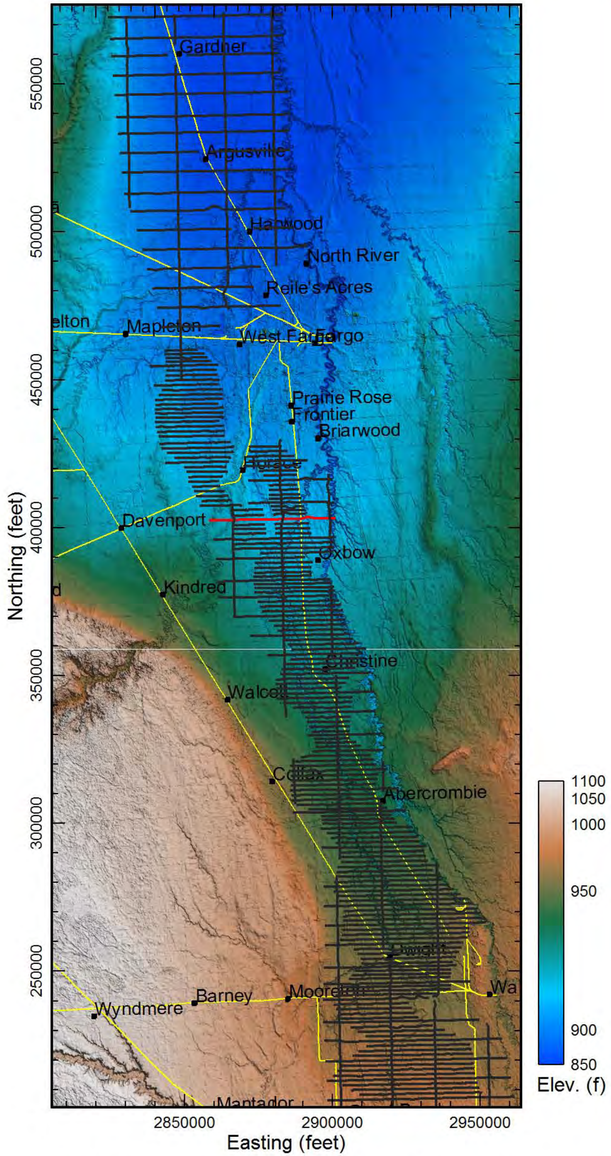

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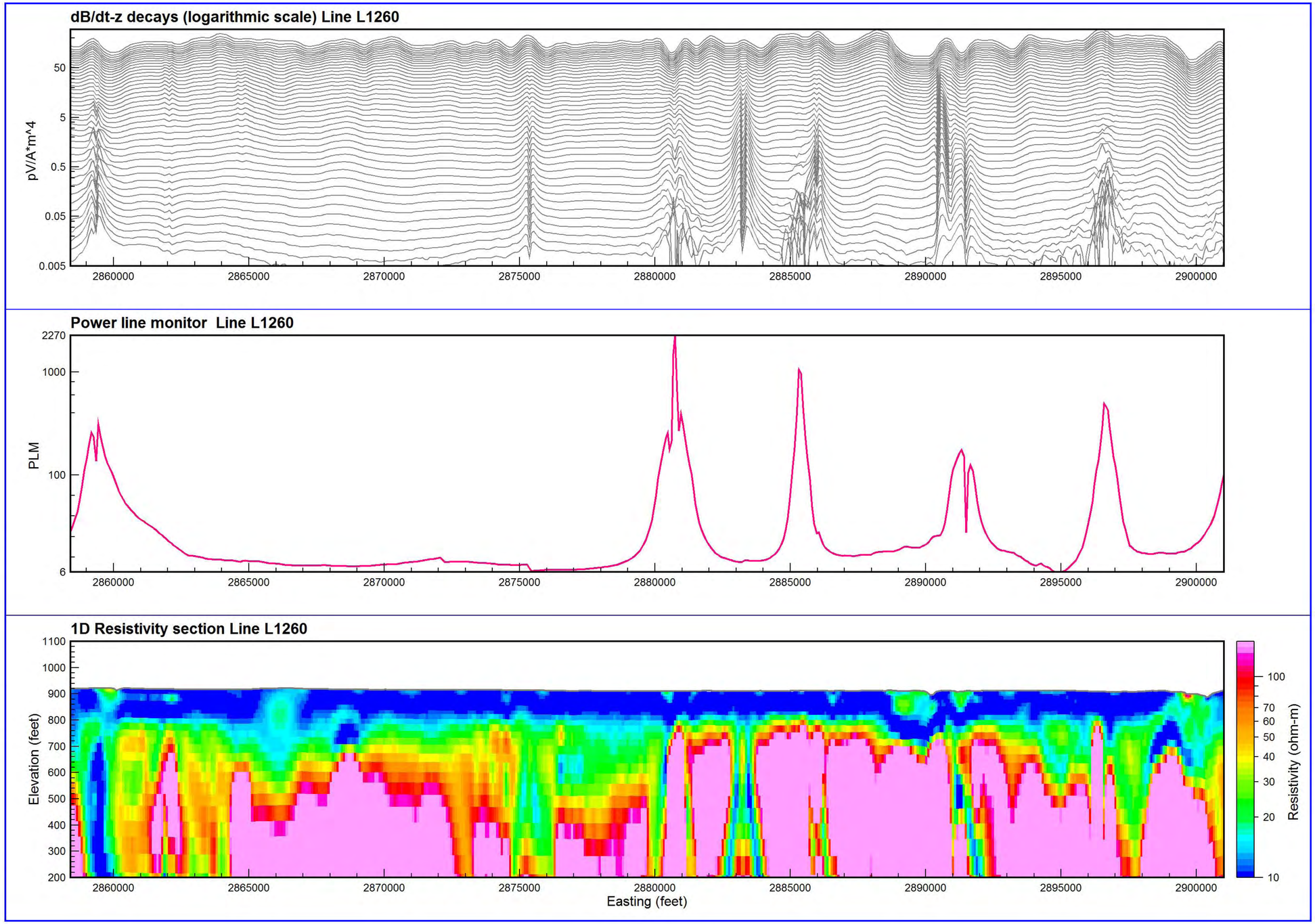

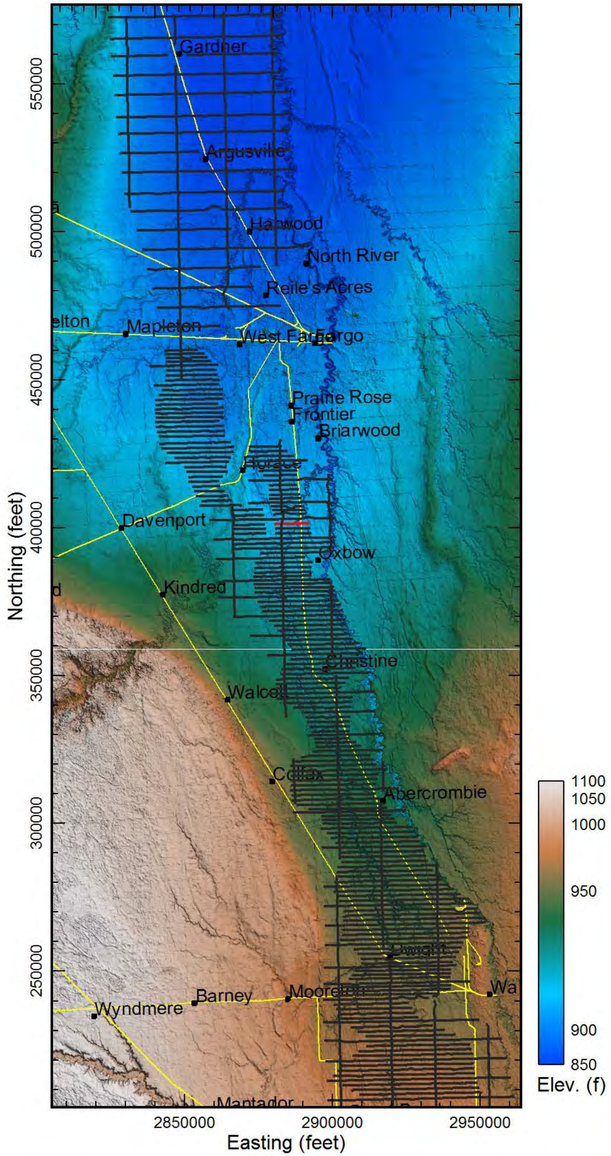

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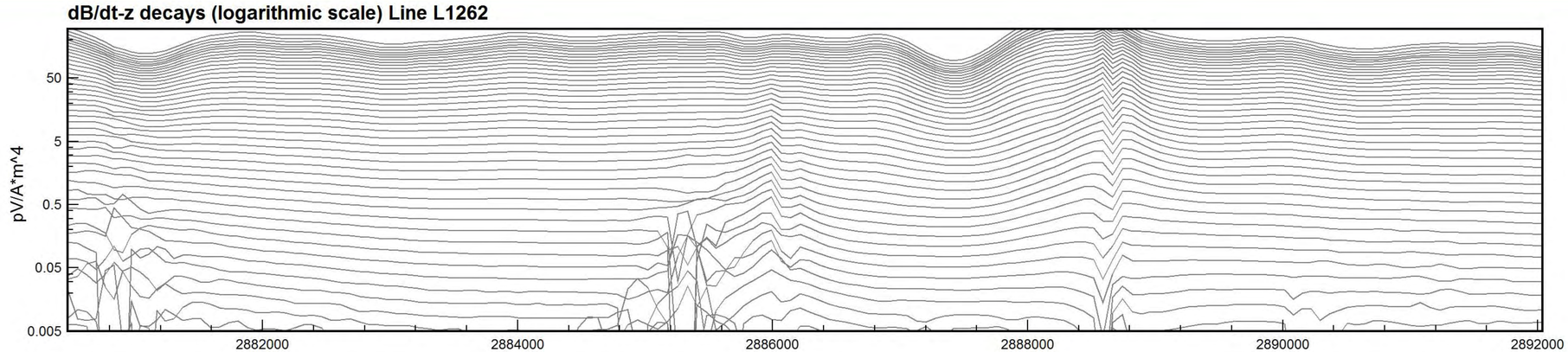

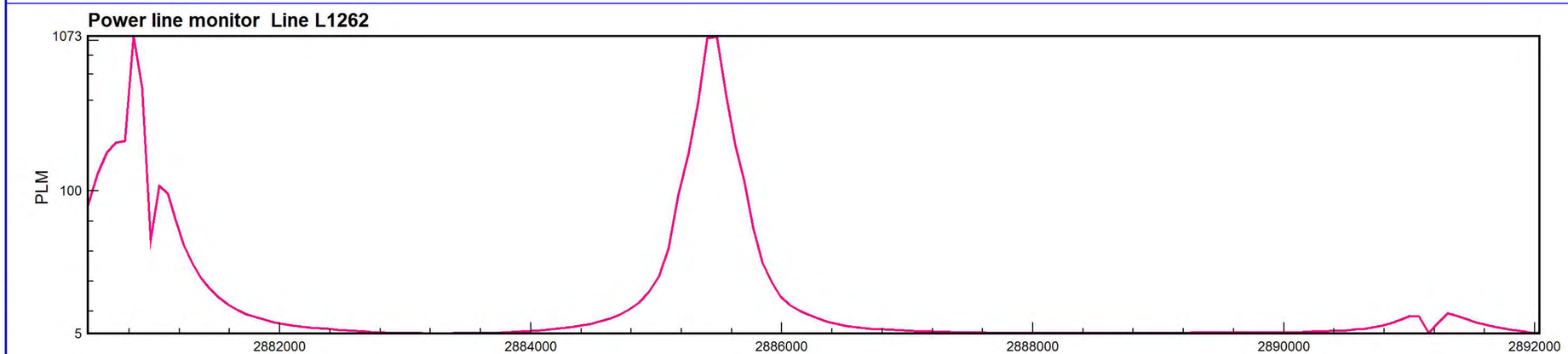

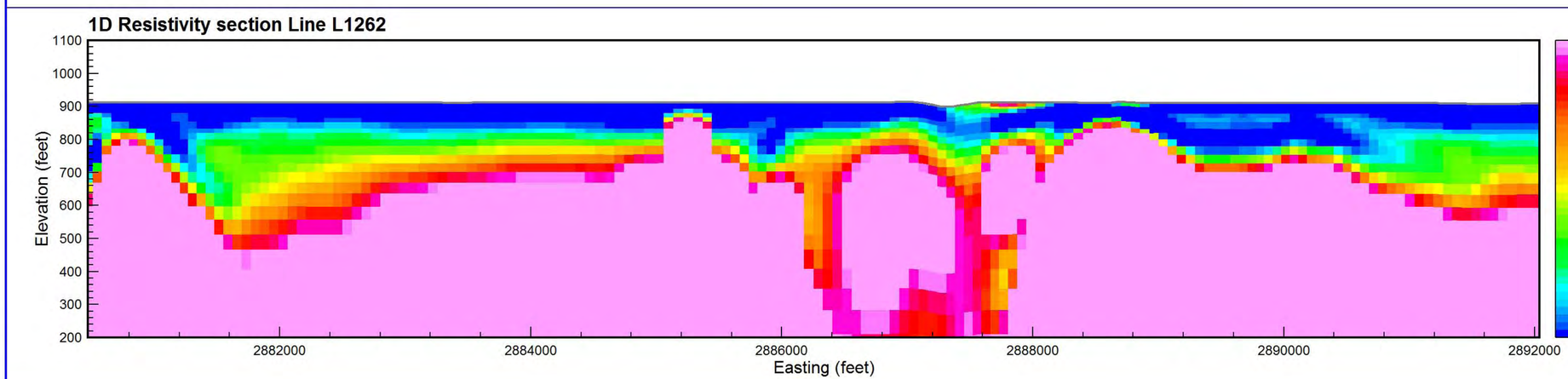

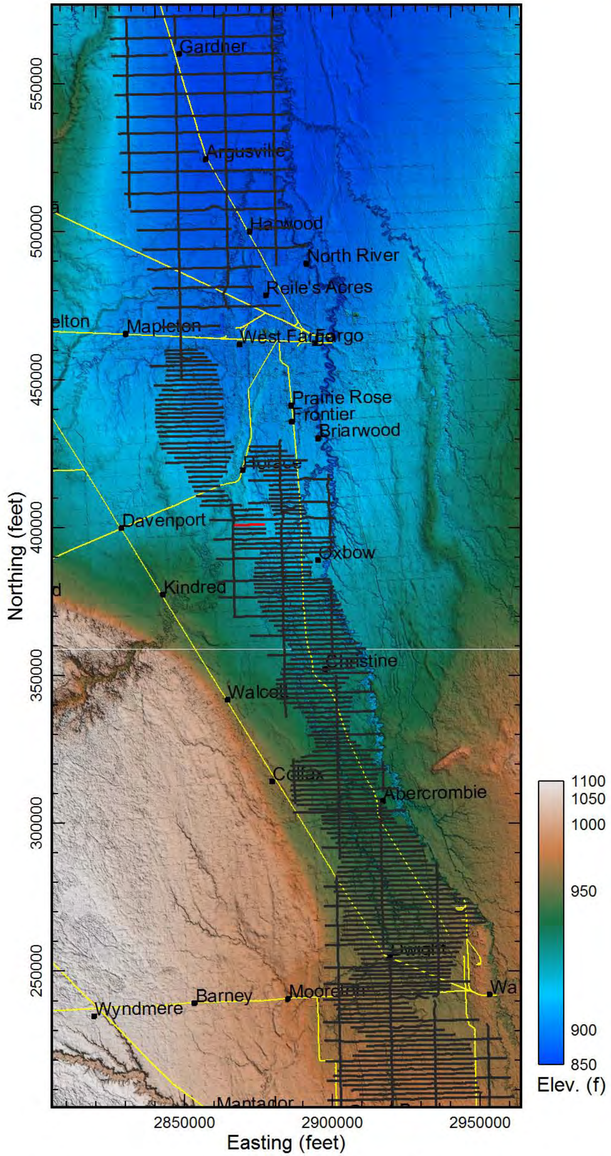

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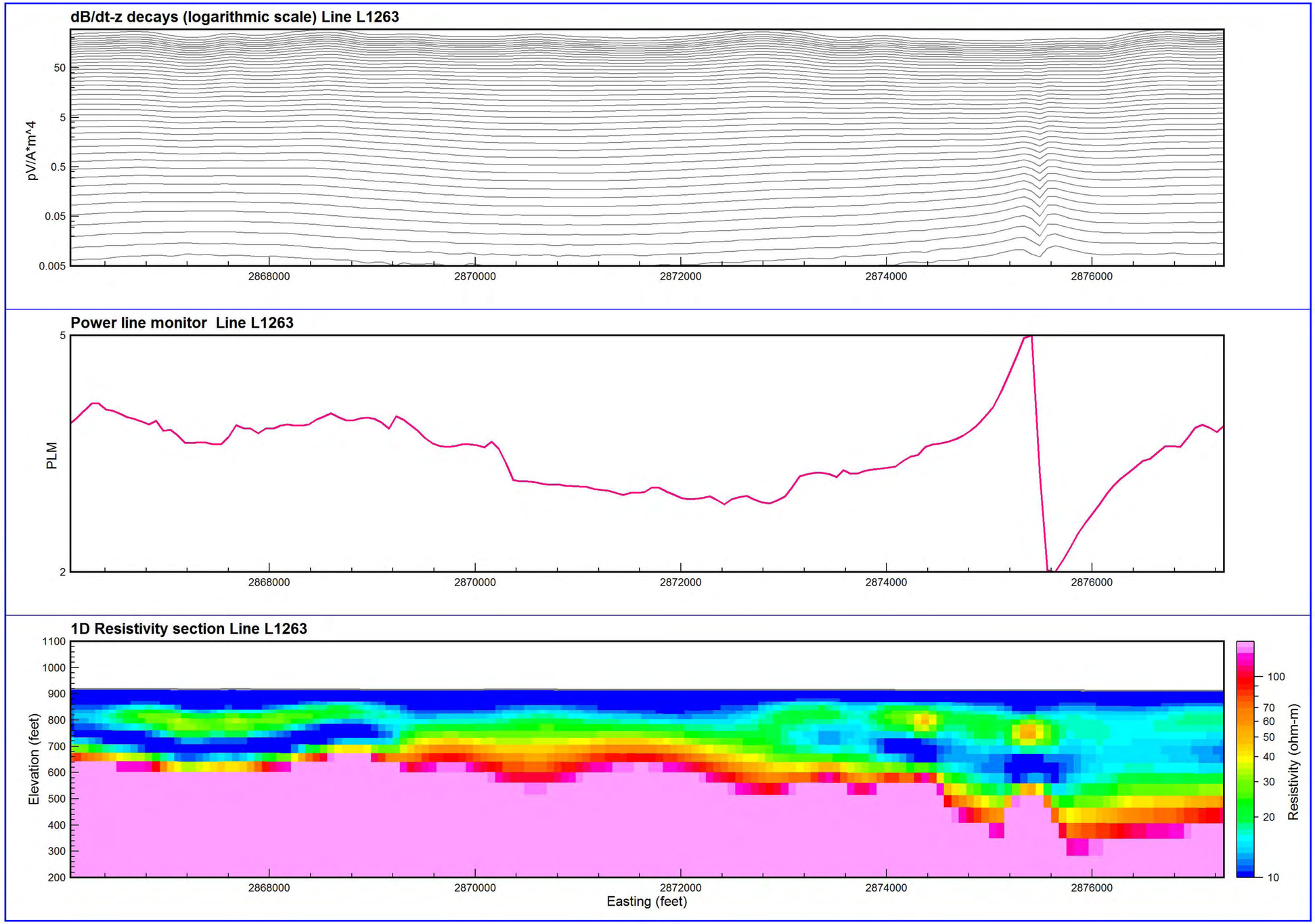

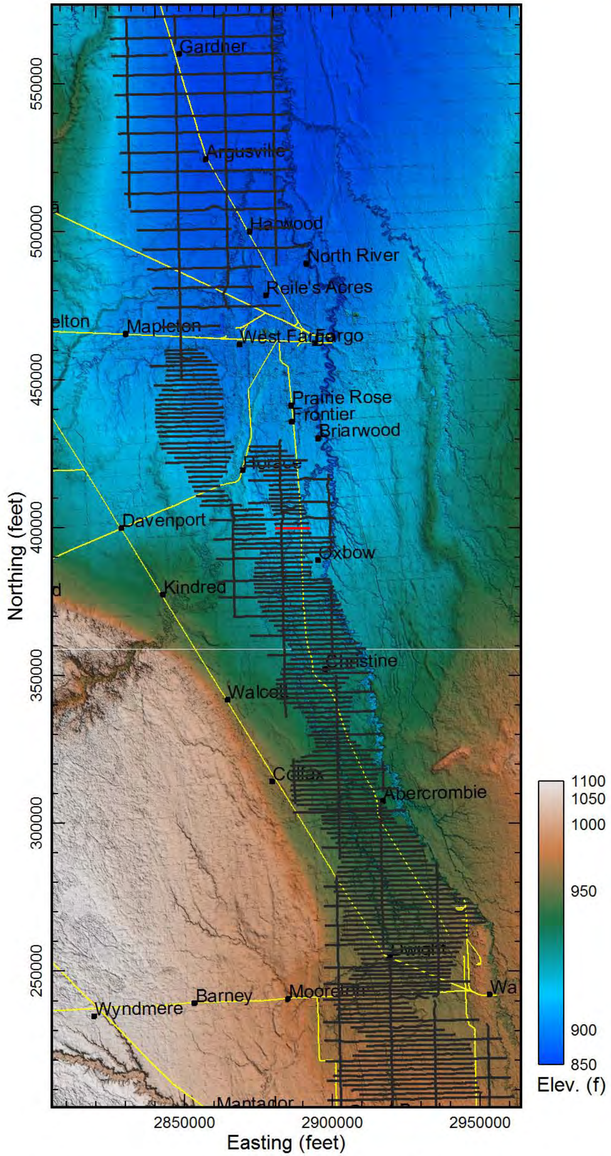

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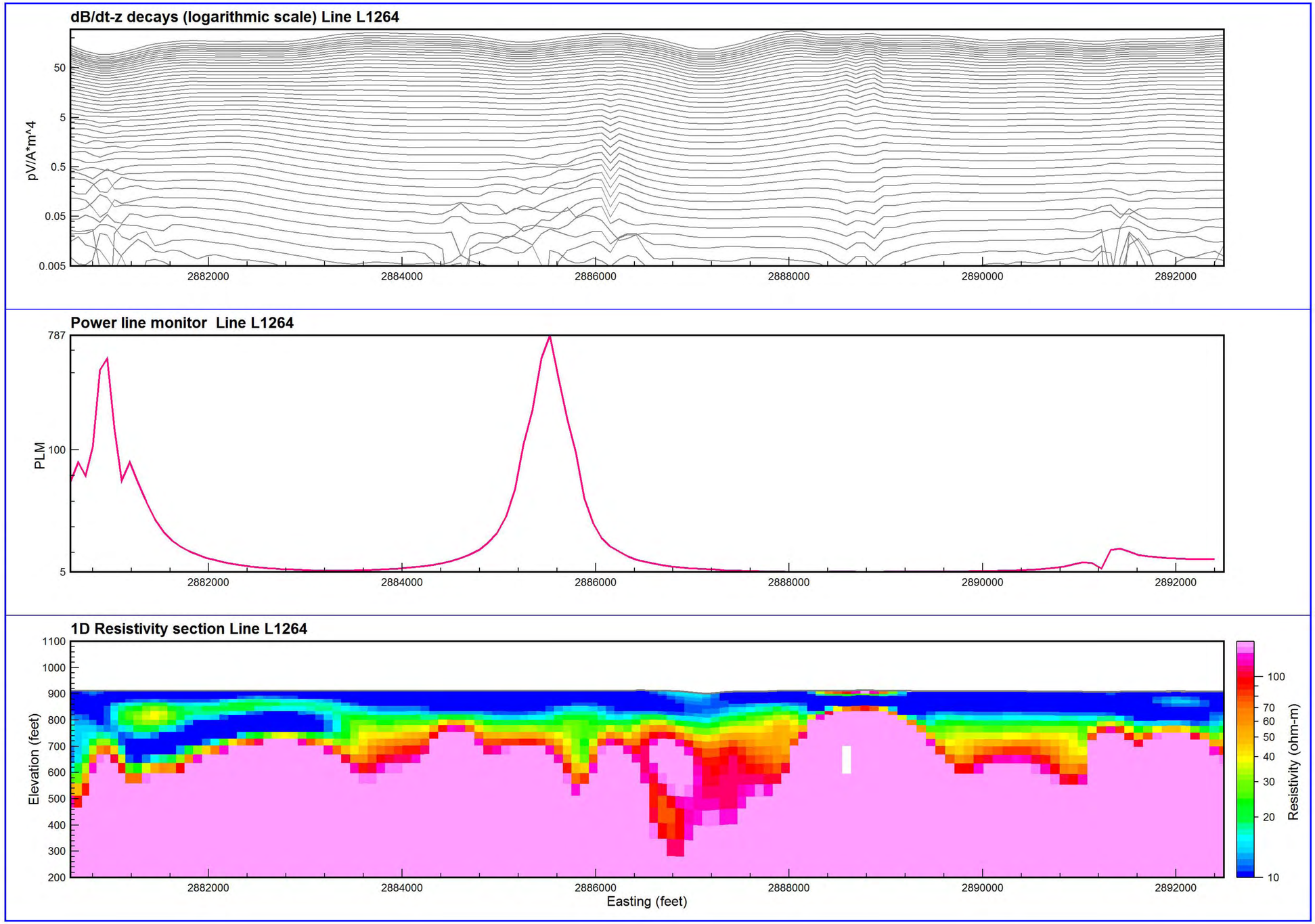

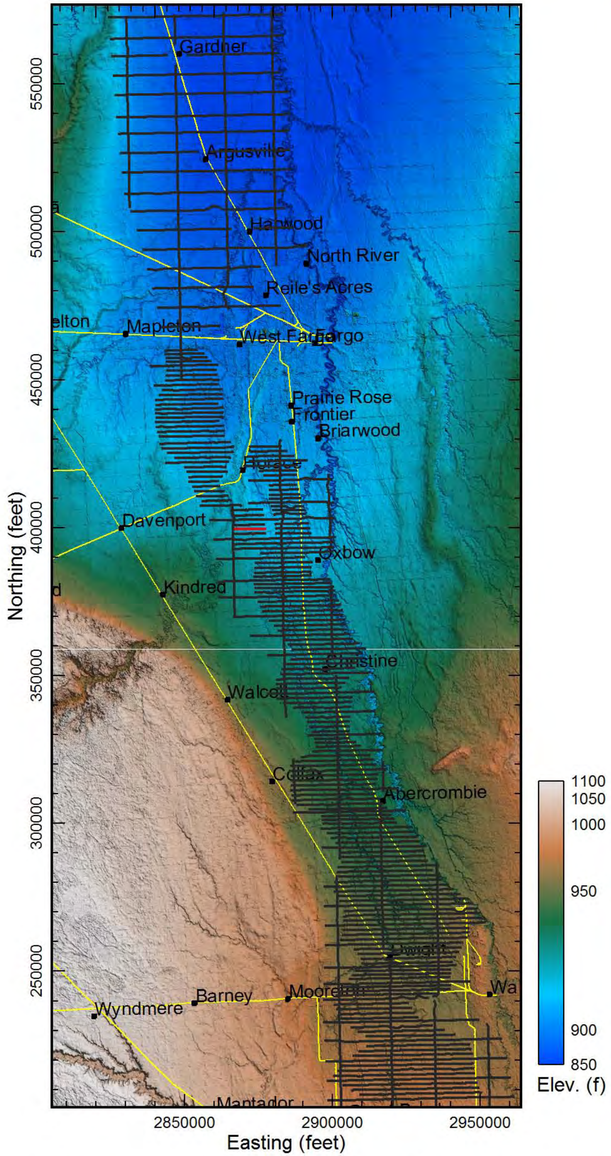

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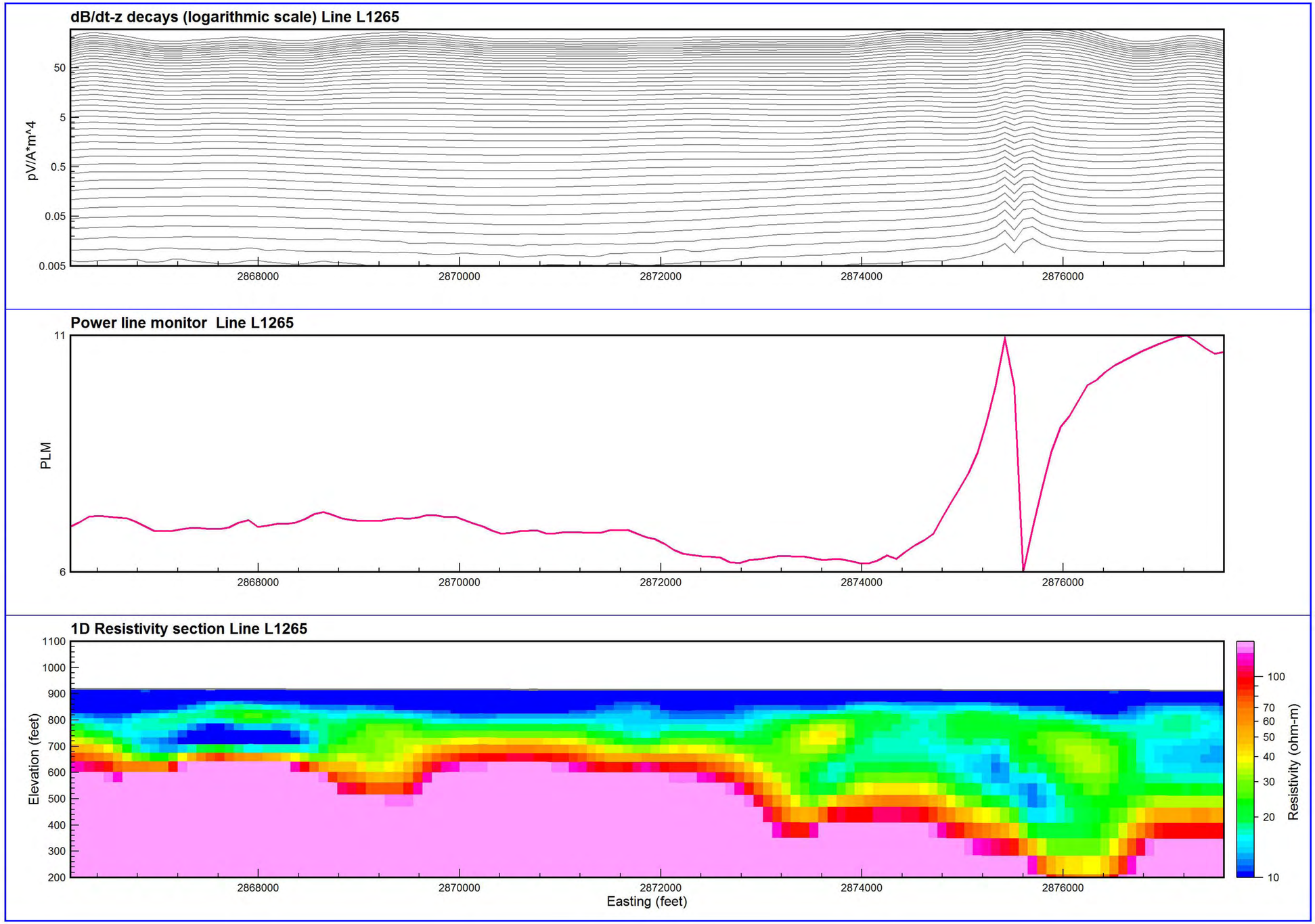

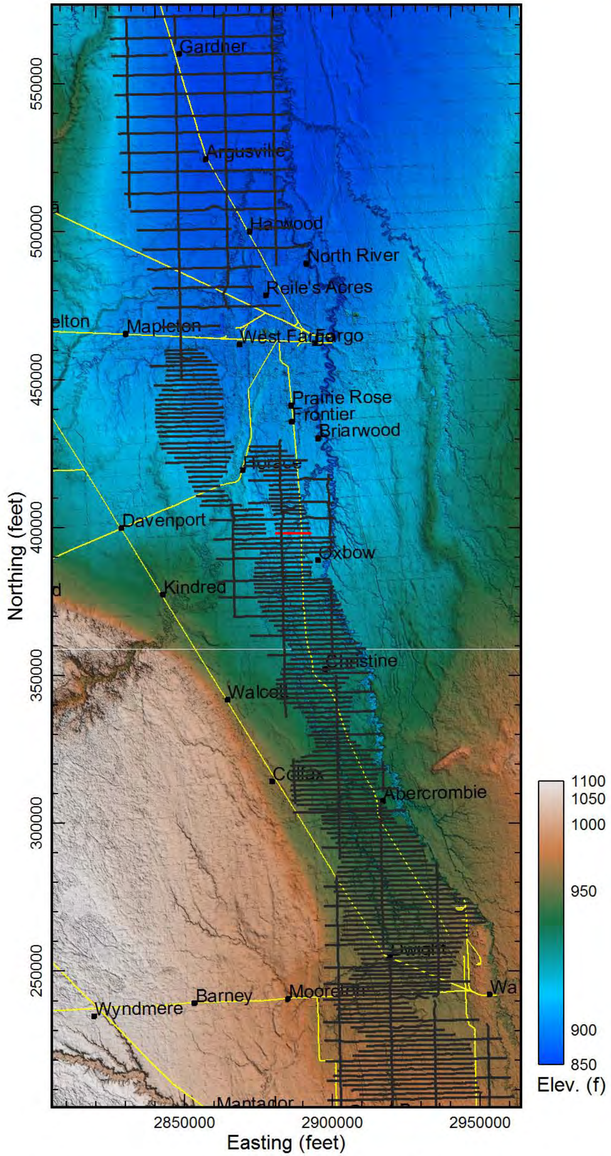

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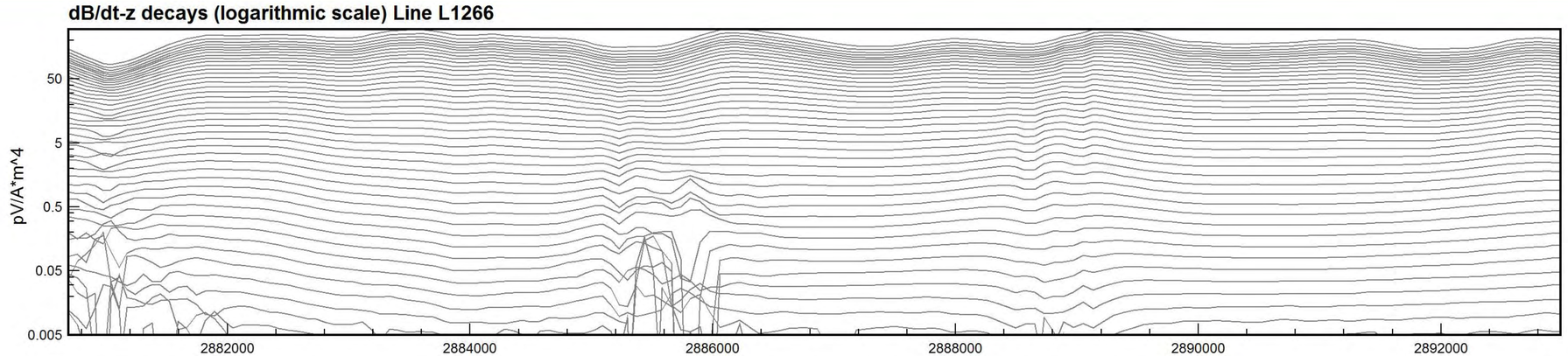

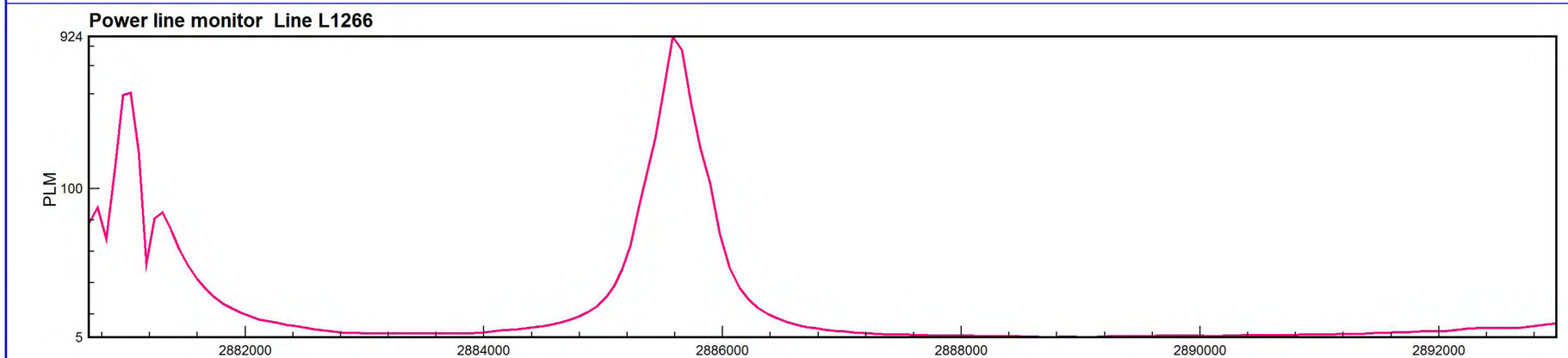

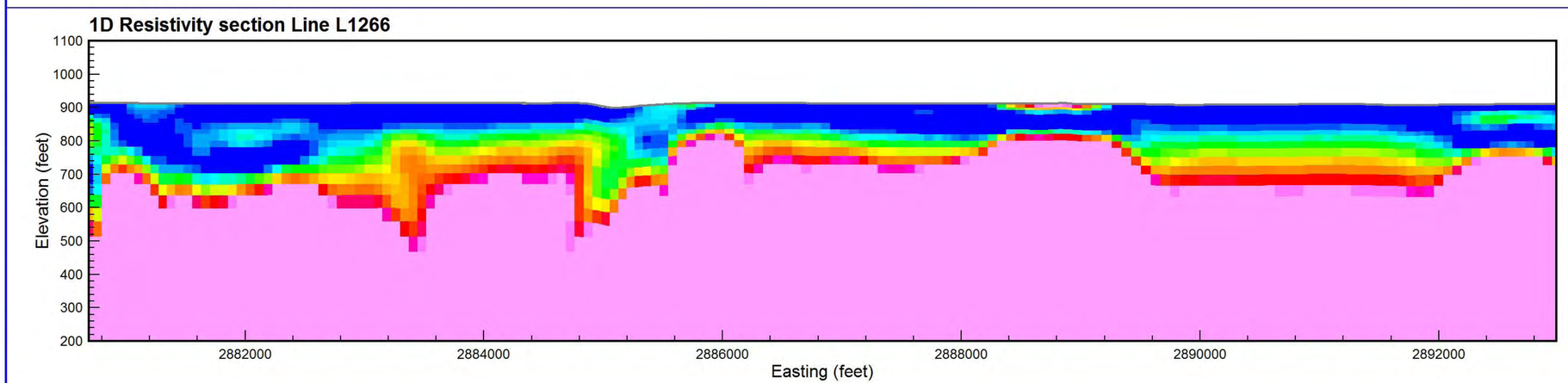

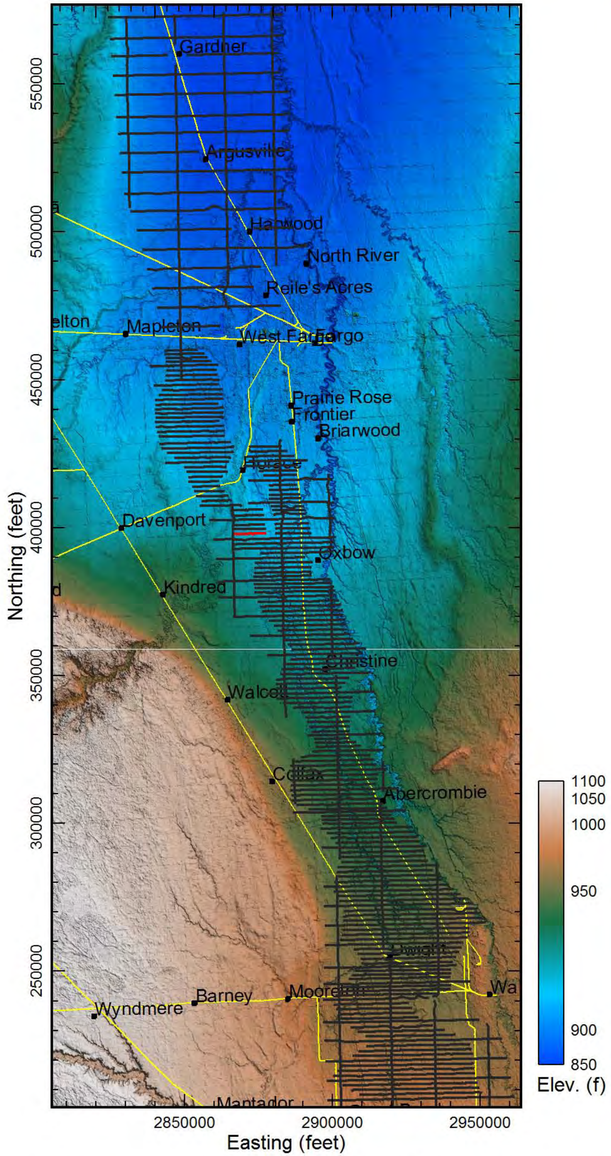

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Unconstrained 1D inversion results
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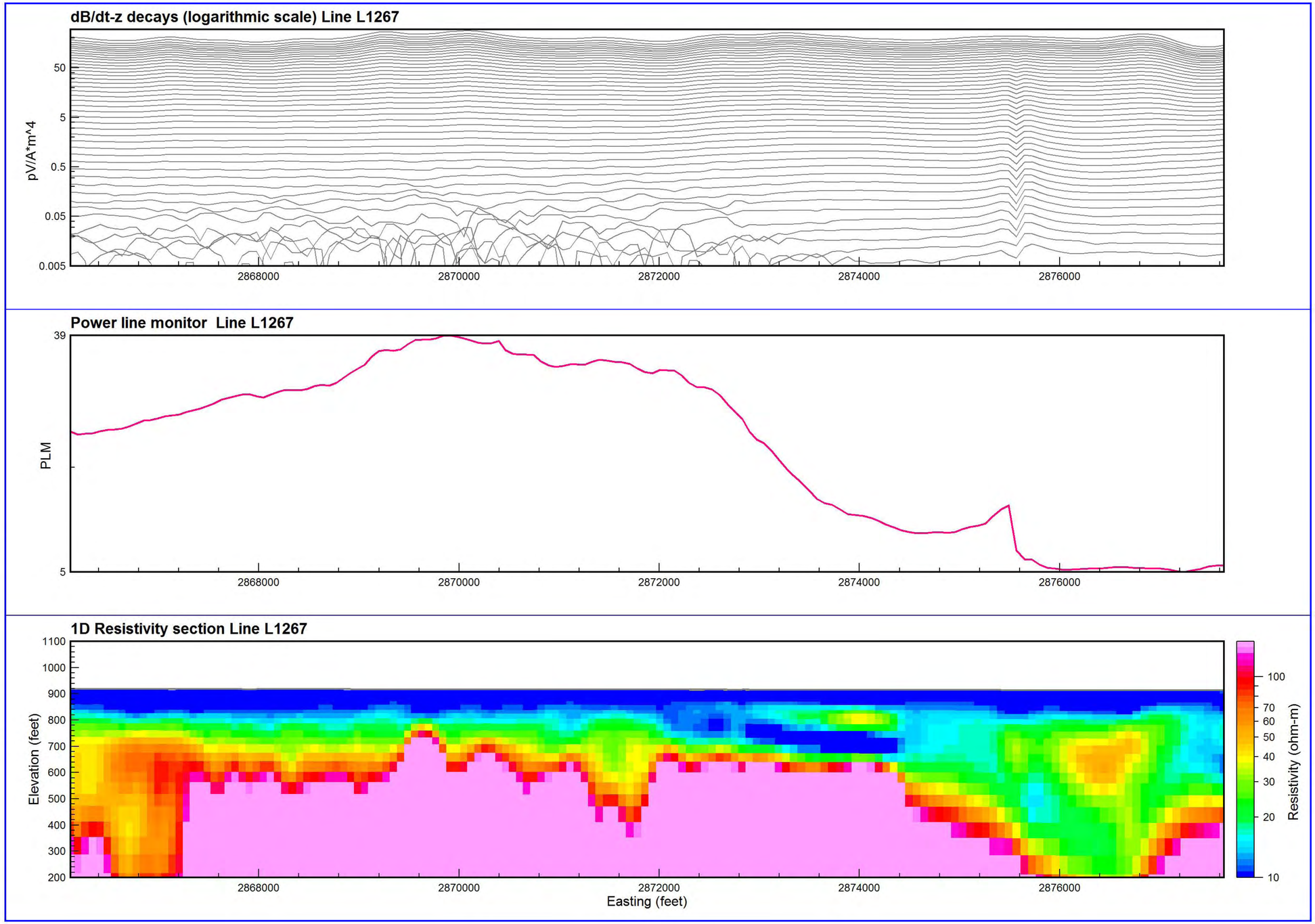

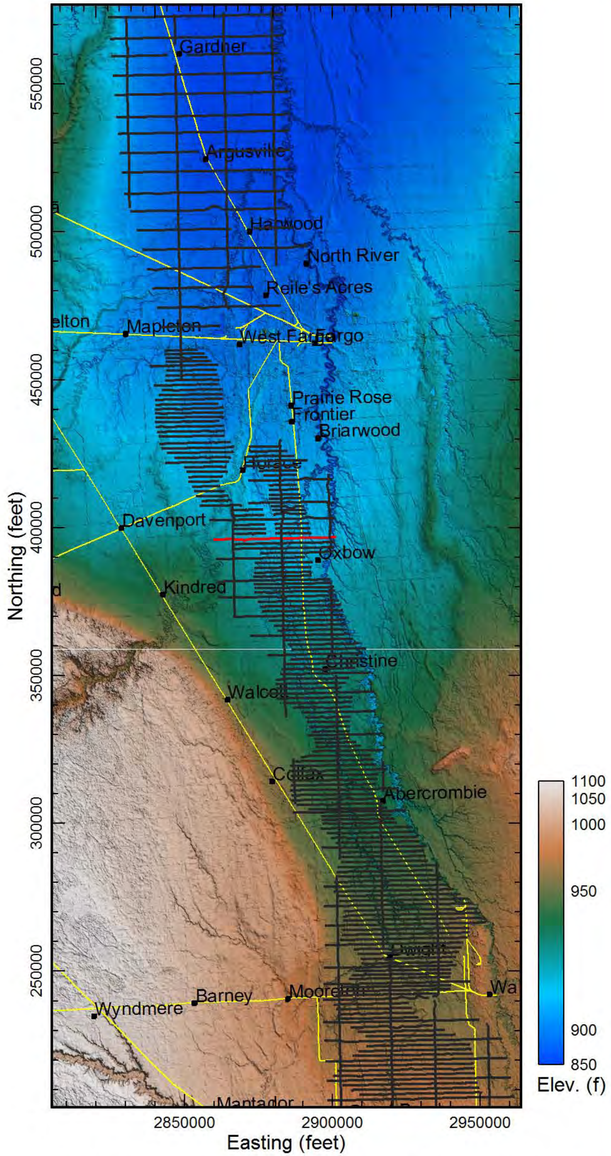

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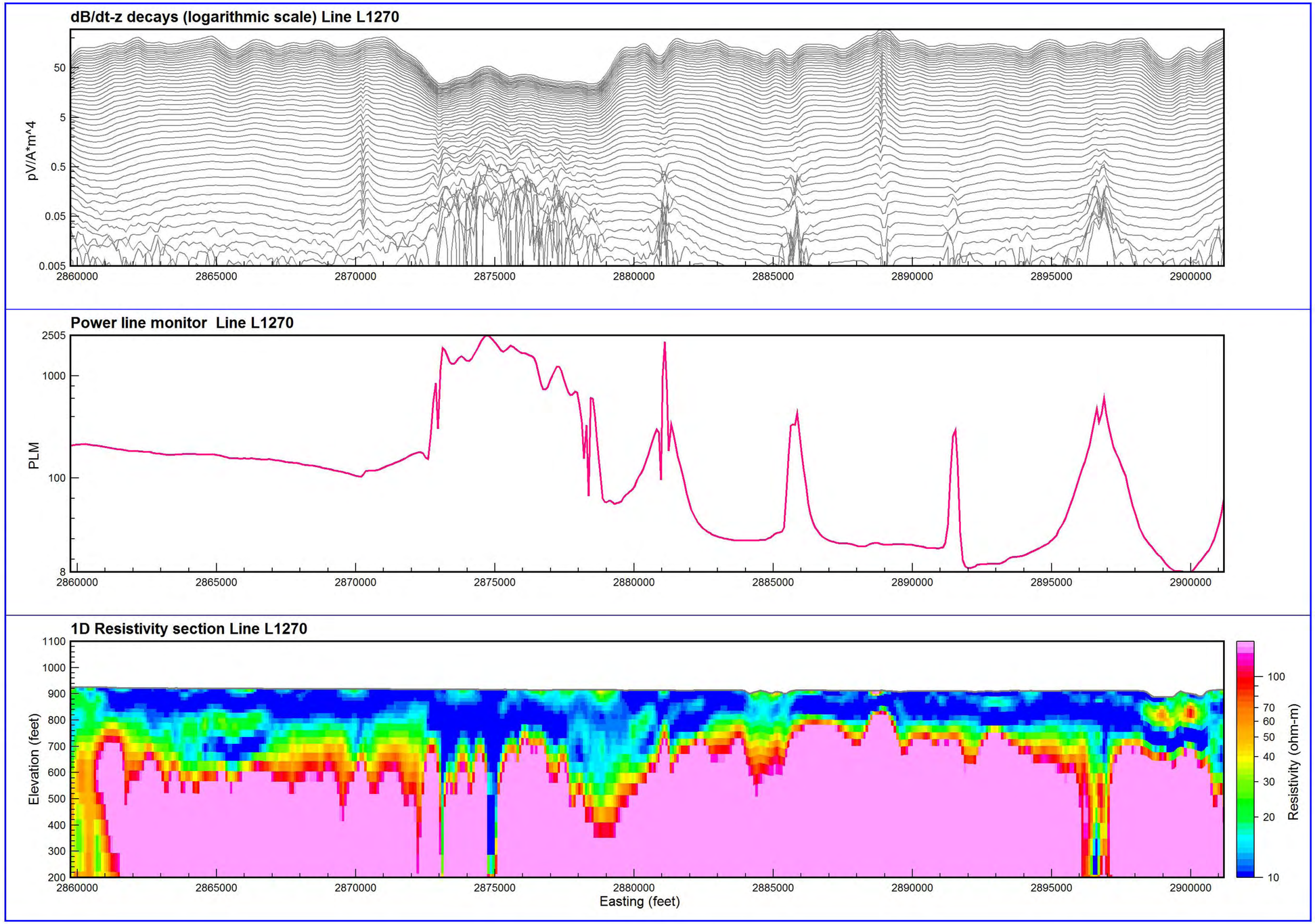

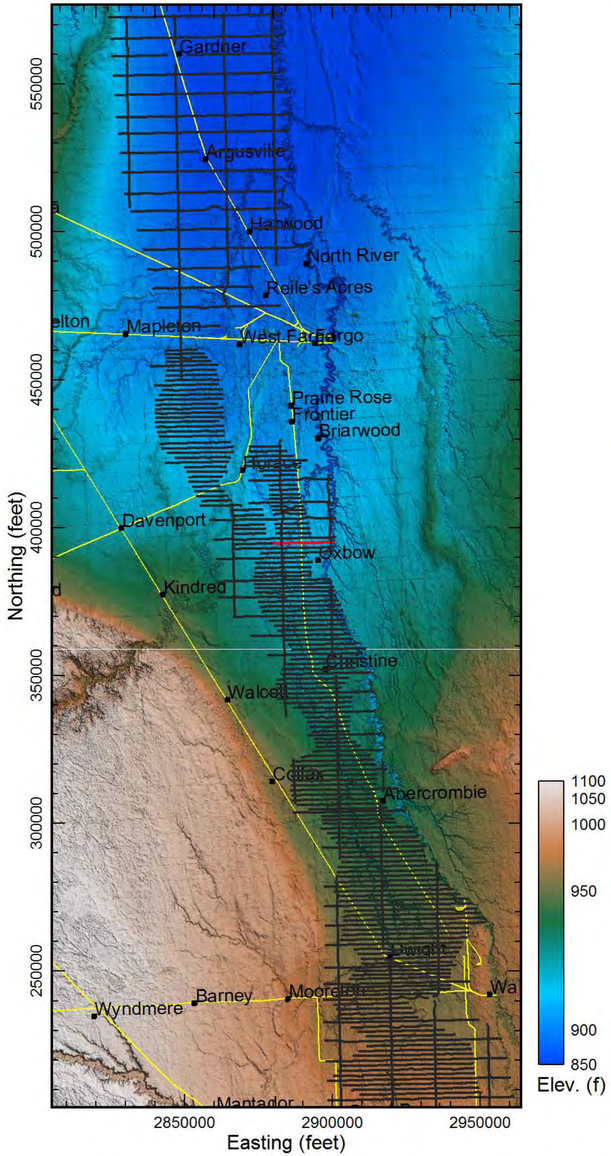

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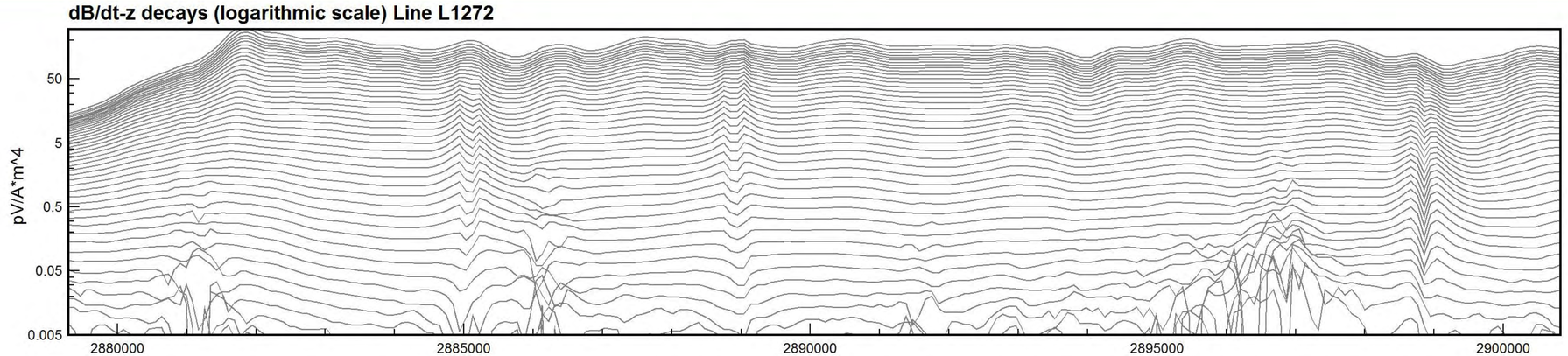

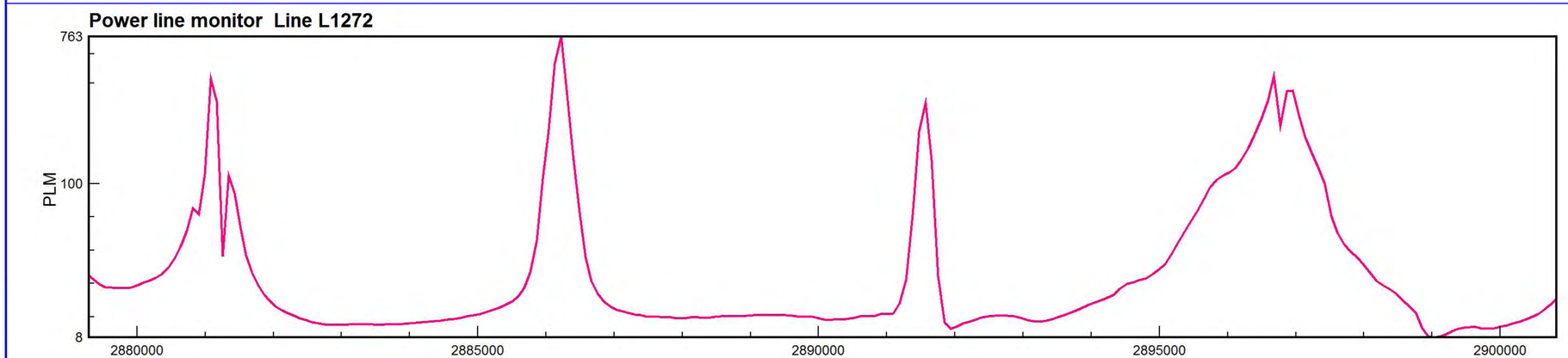

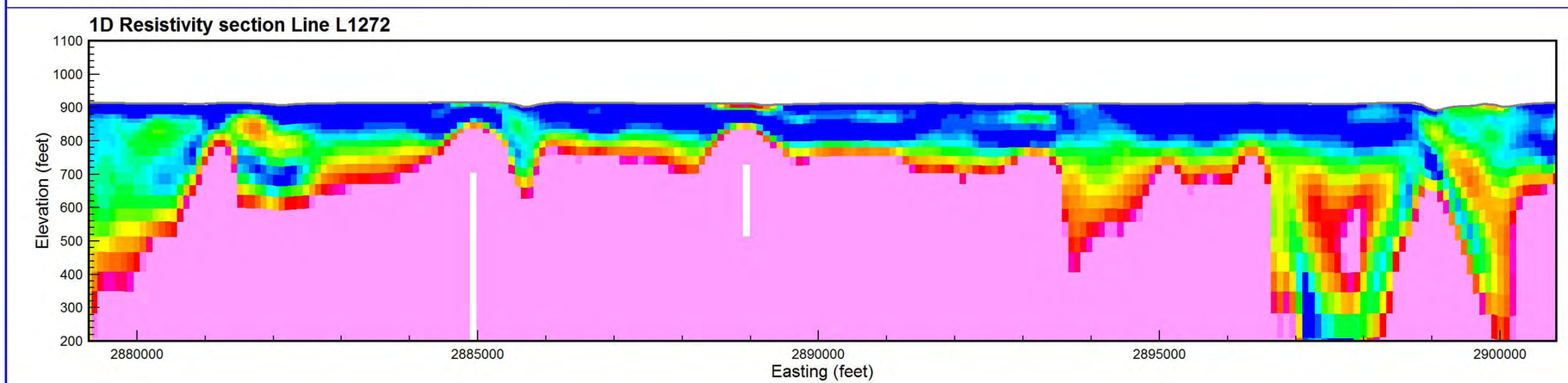

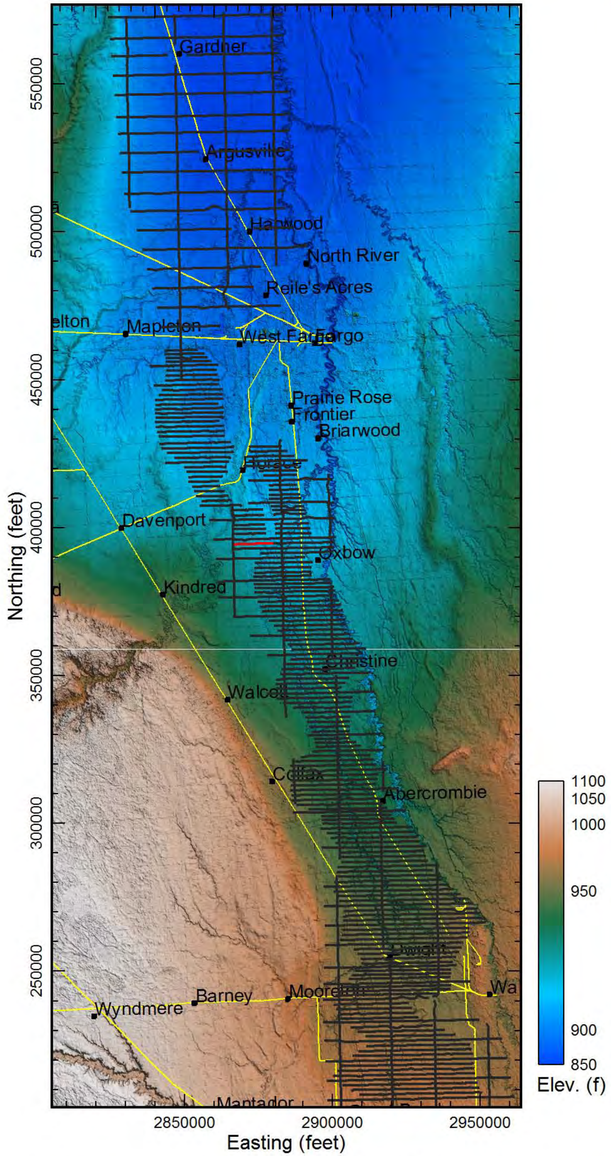

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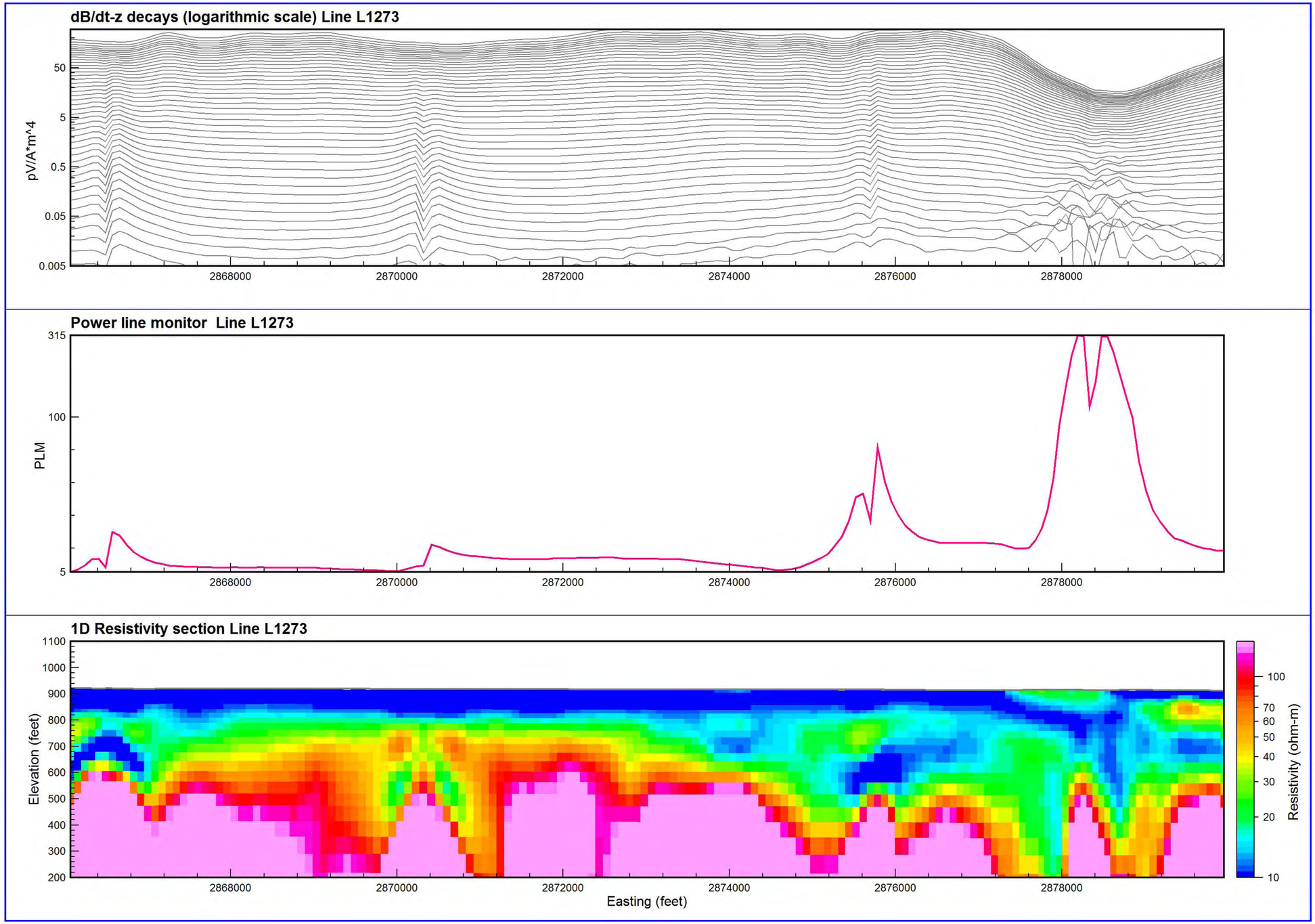

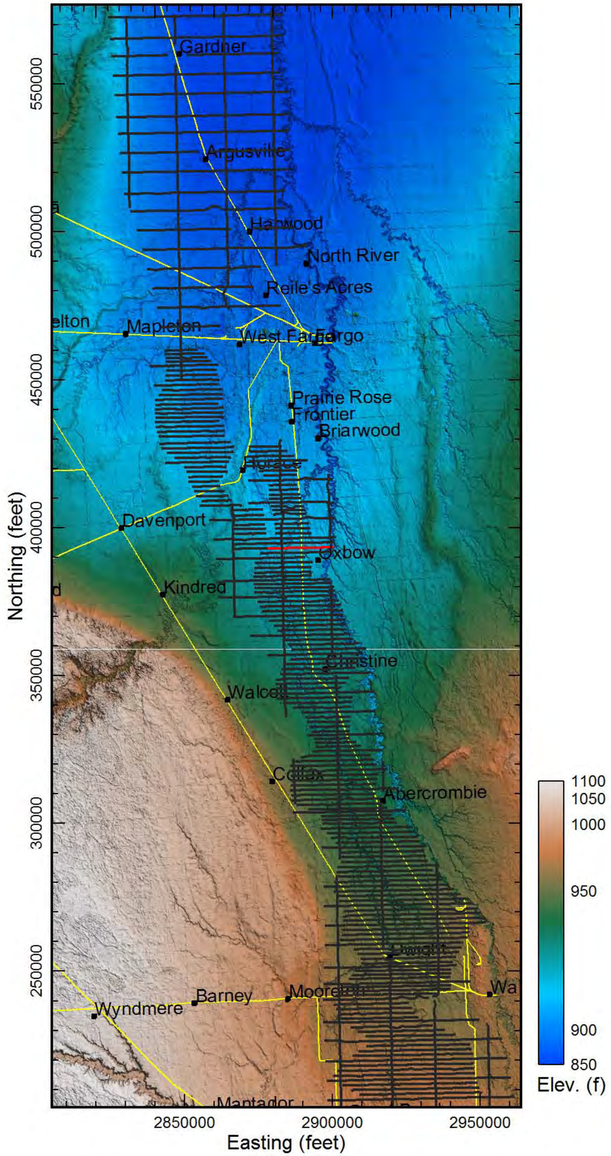

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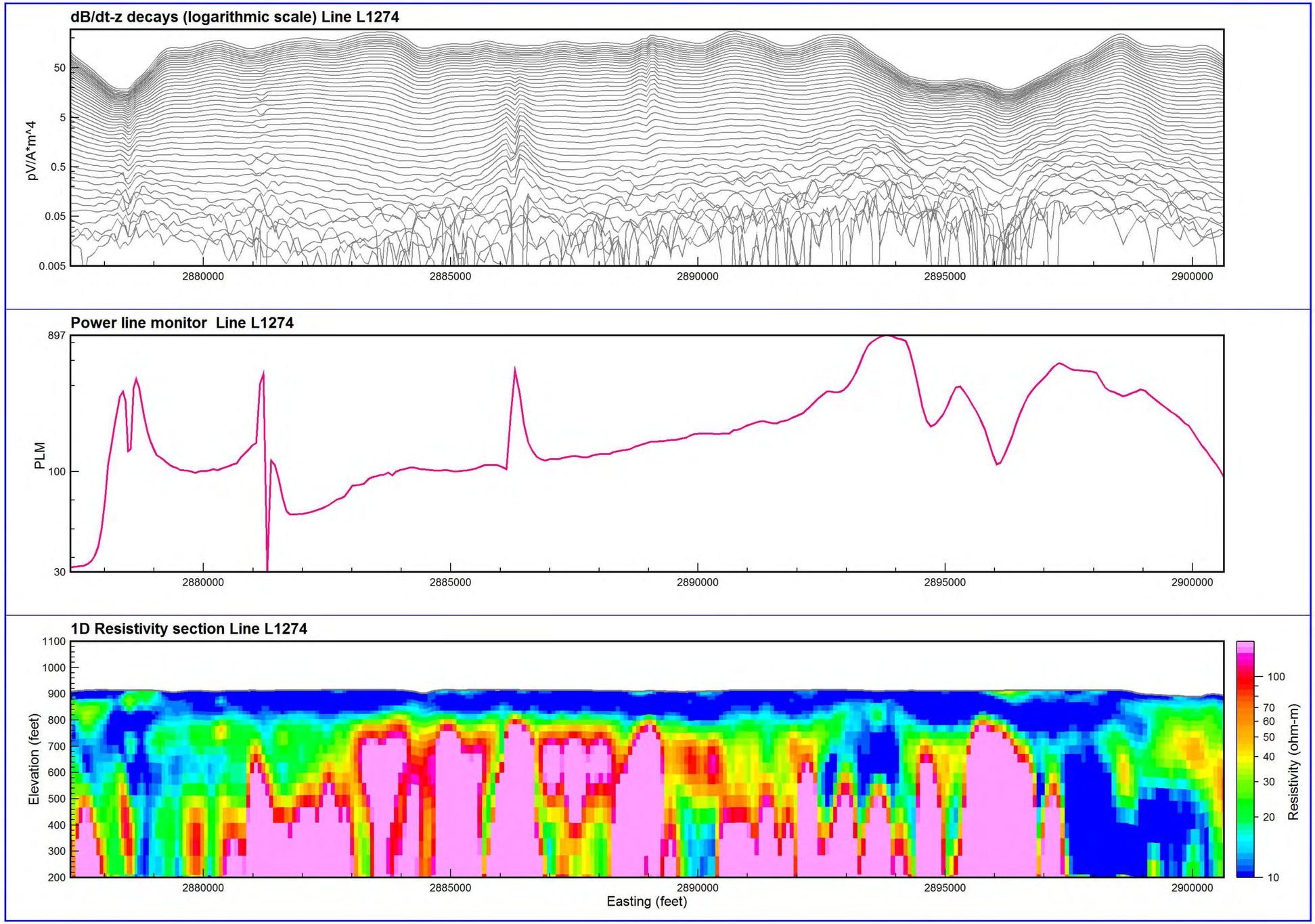

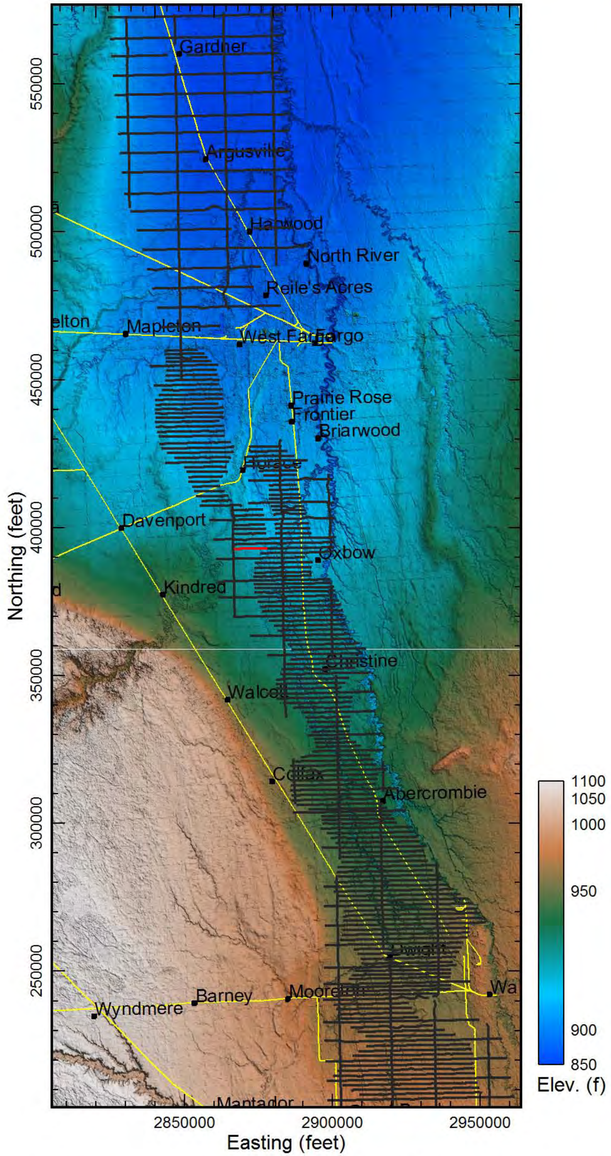

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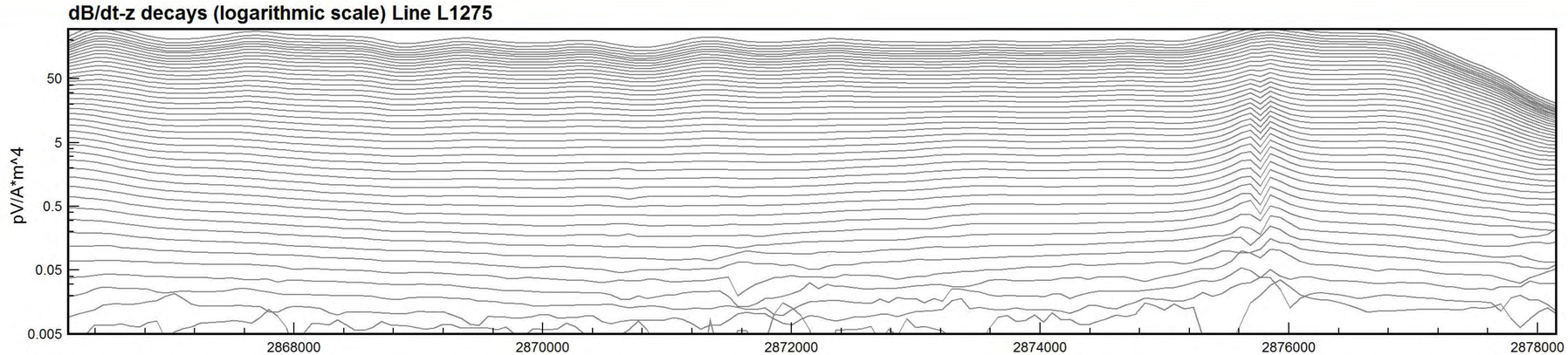

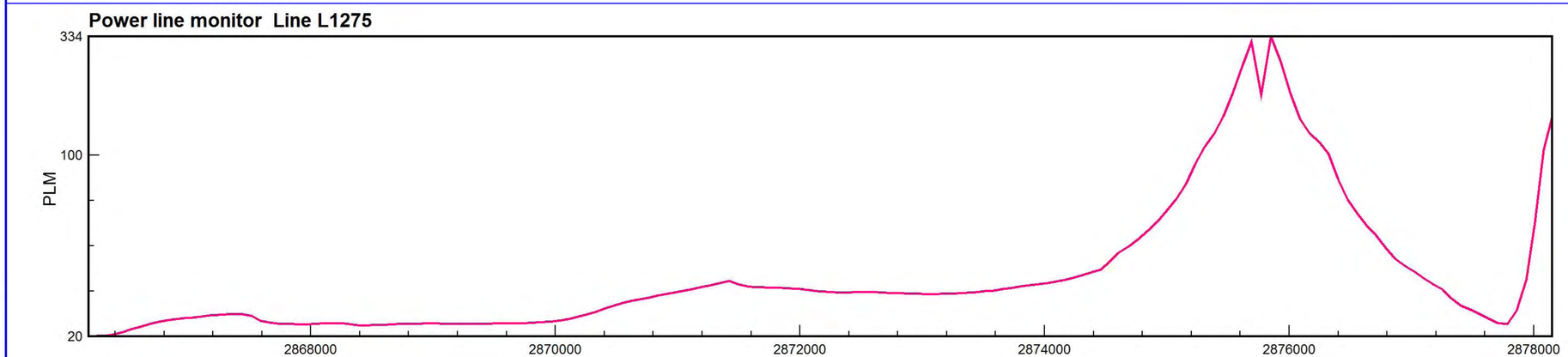

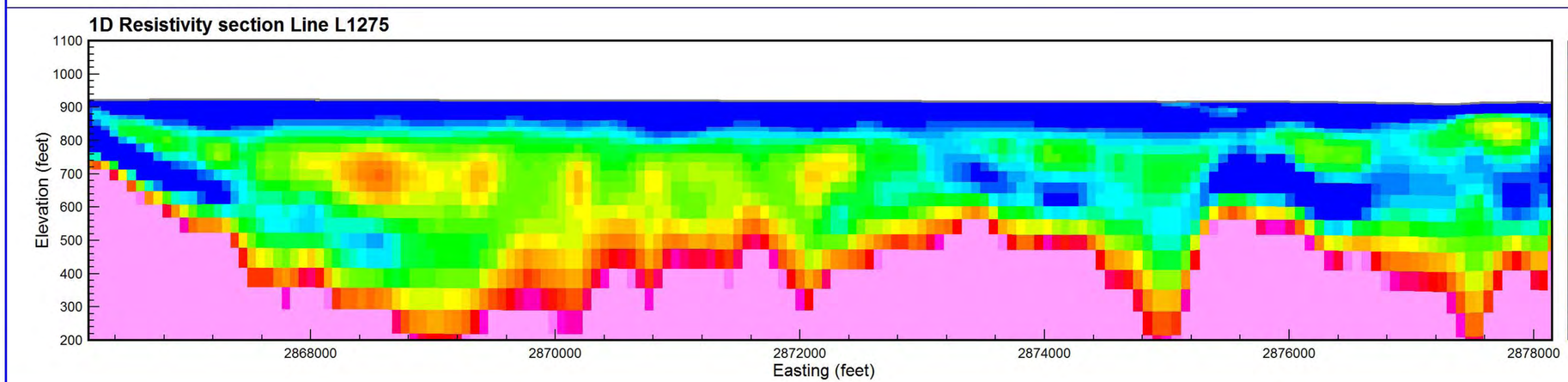

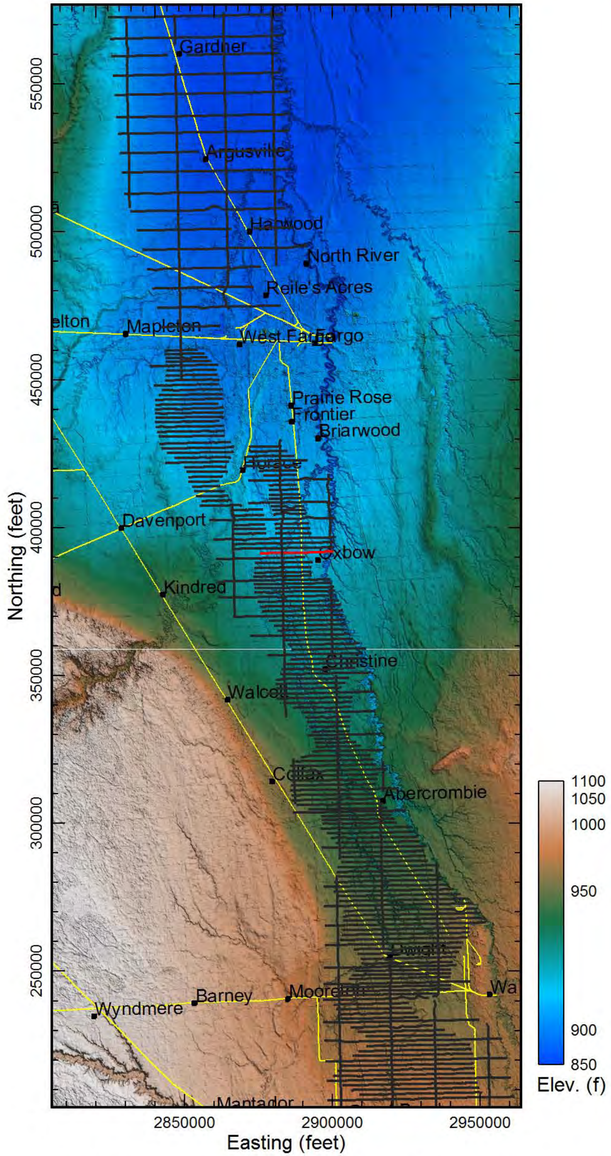

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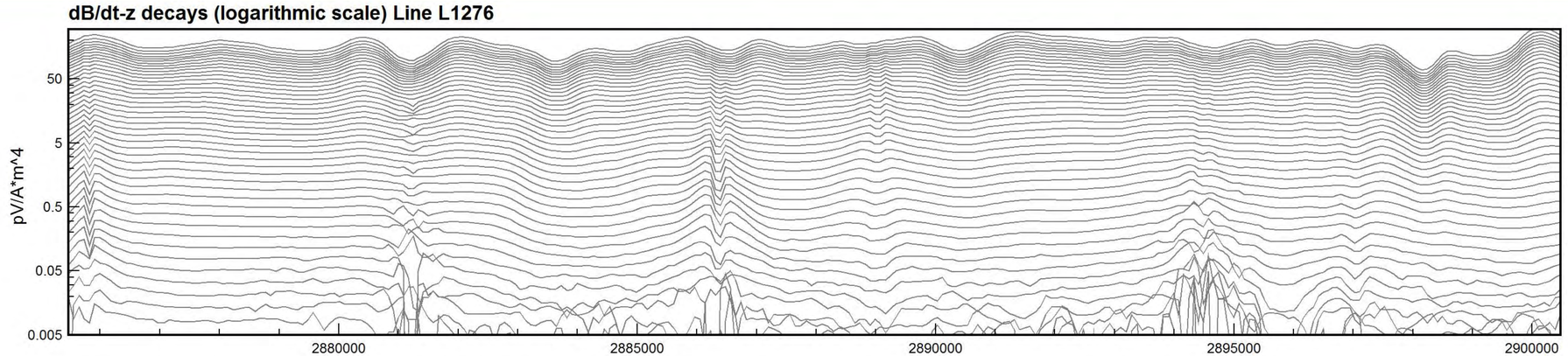

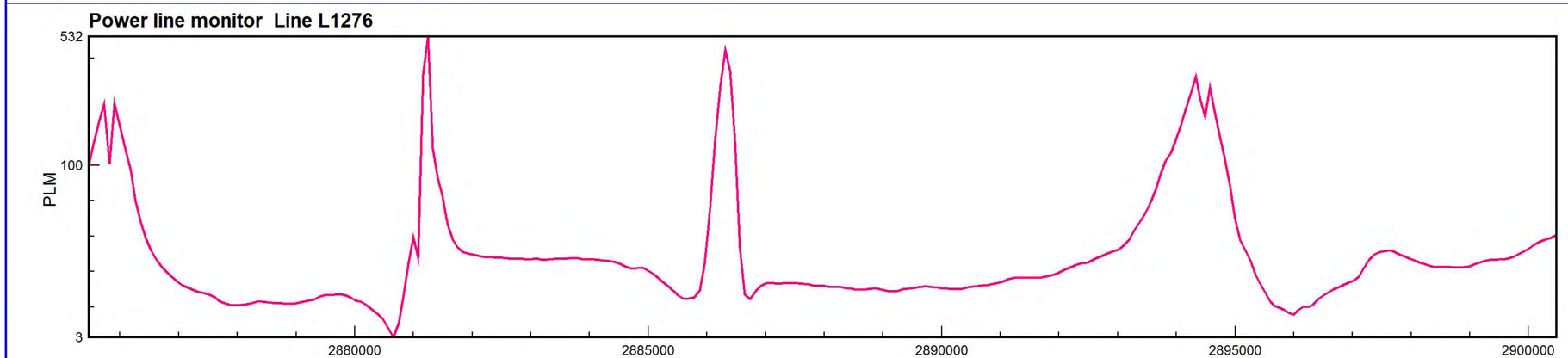

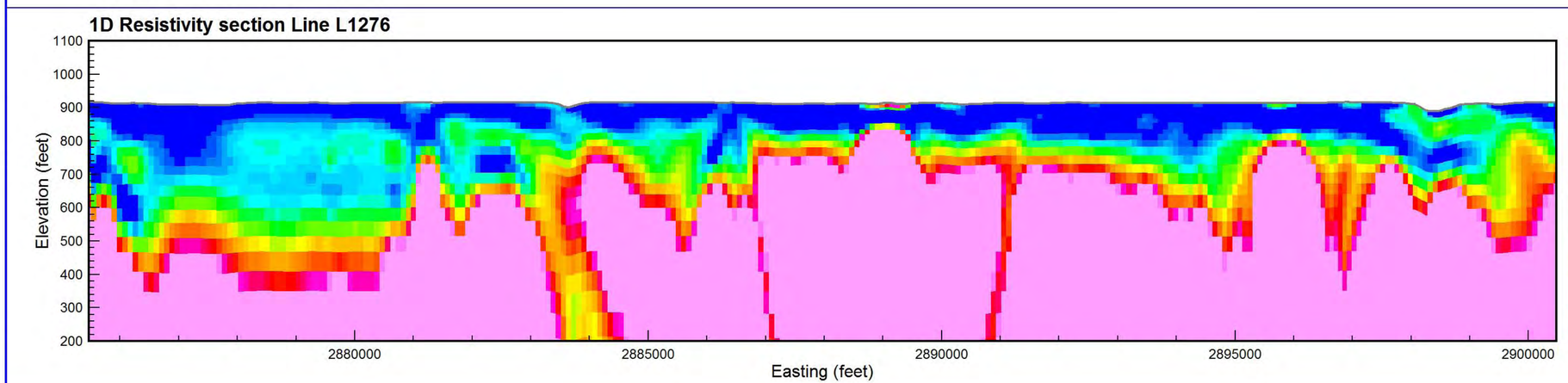

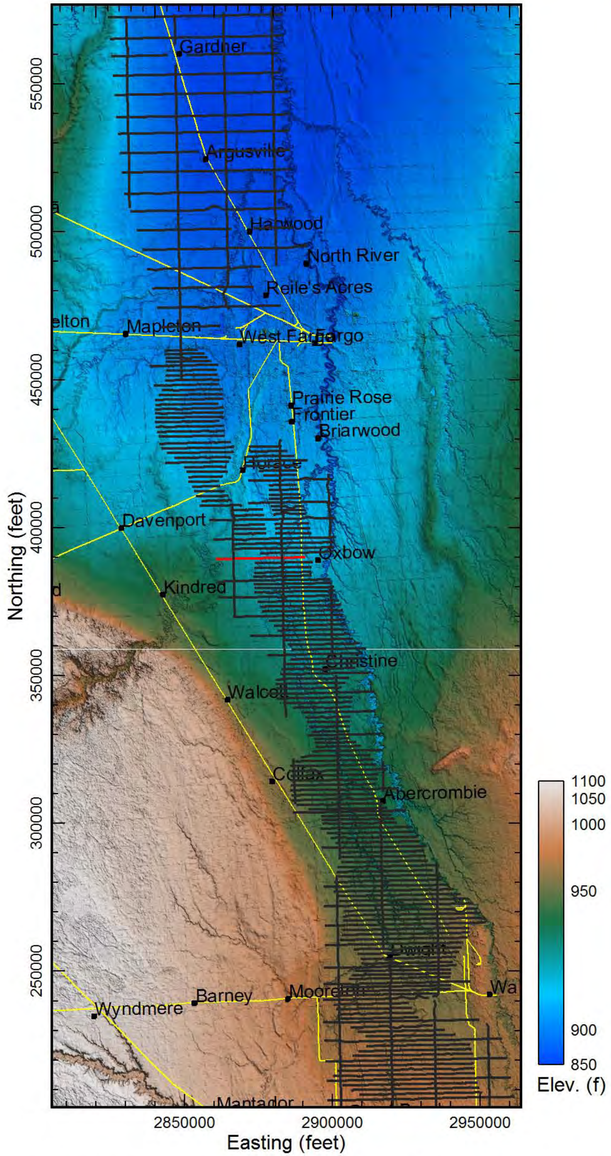

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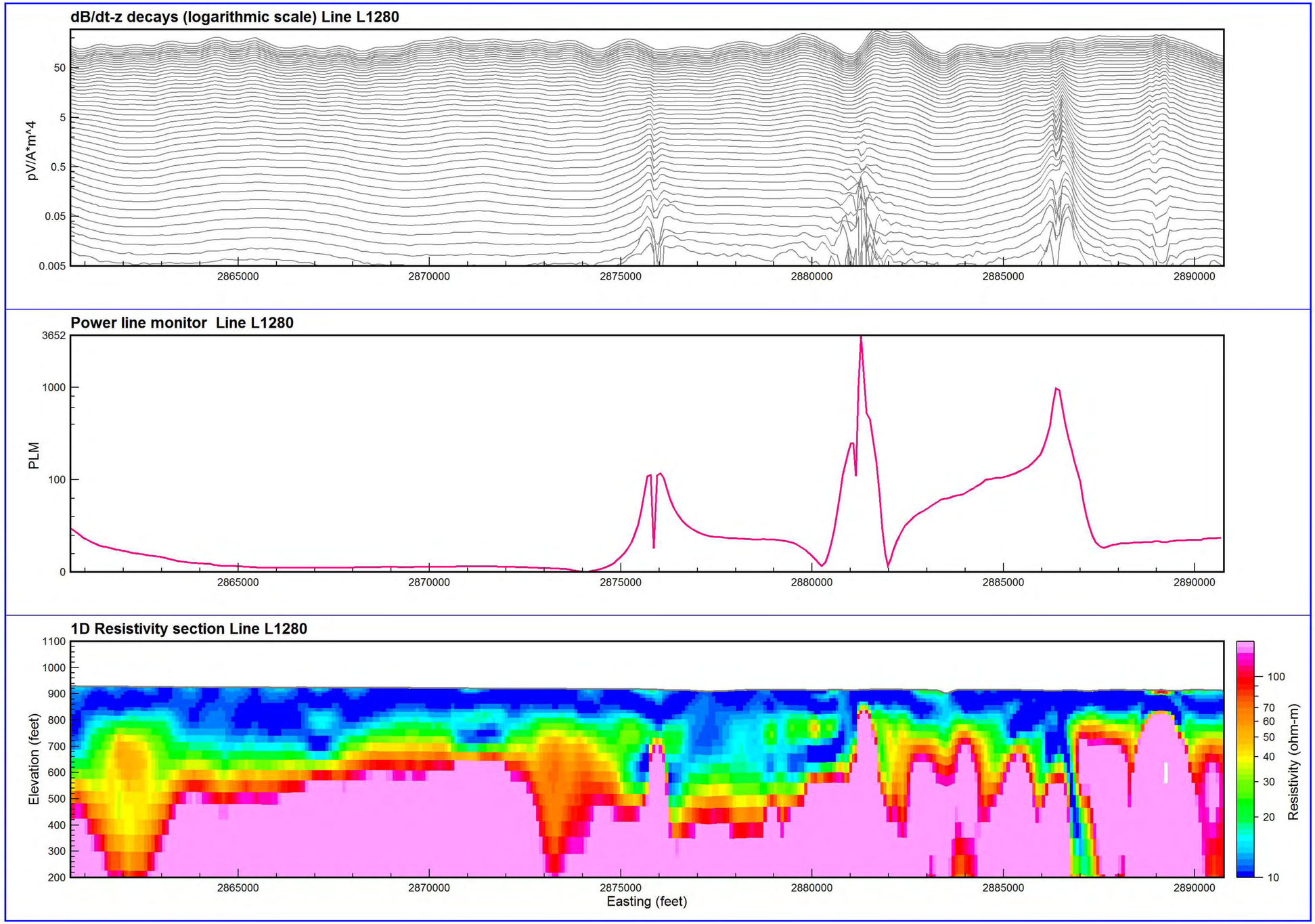

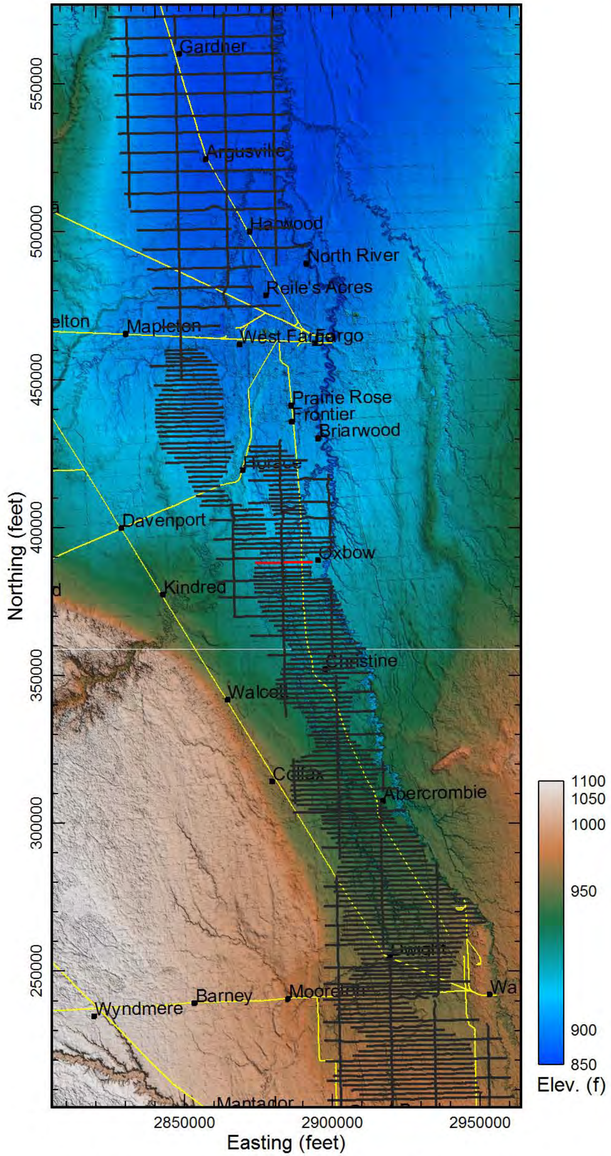

Map projection: NAD83 SPN Dakota South (int. feet)

Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

Date: Feb. 2, 2018

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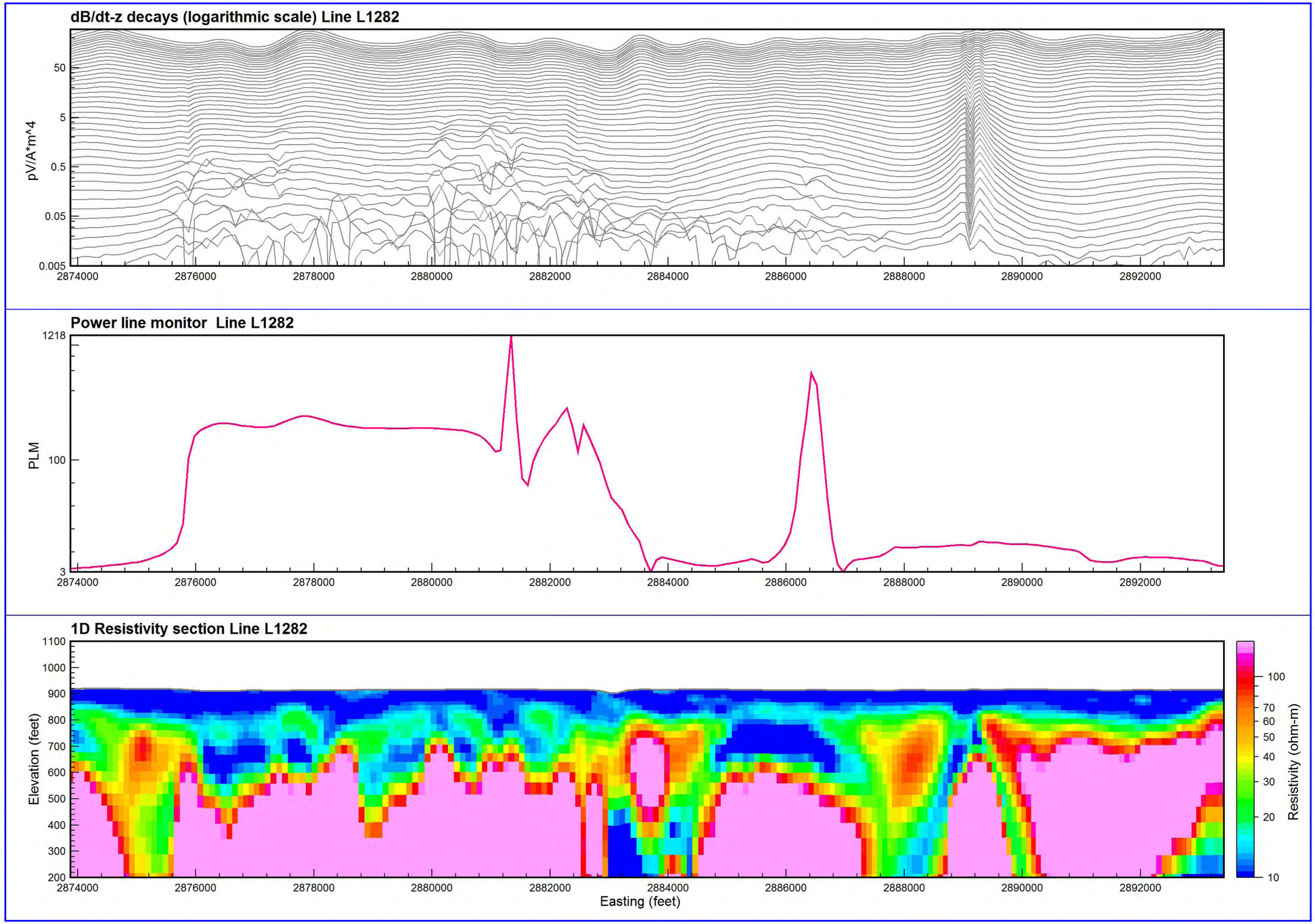

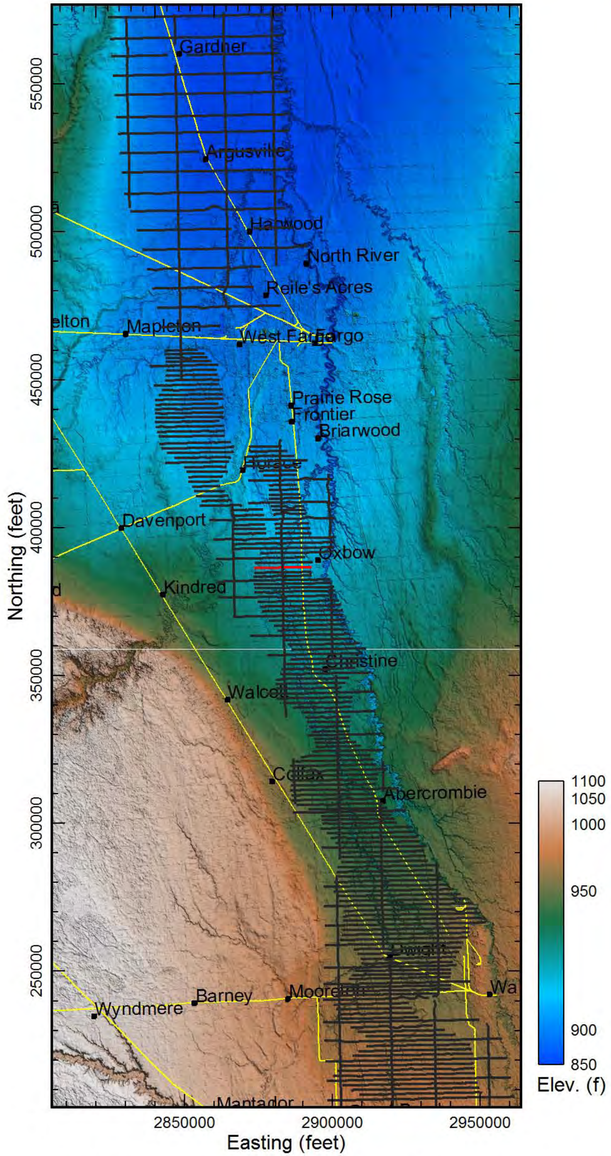

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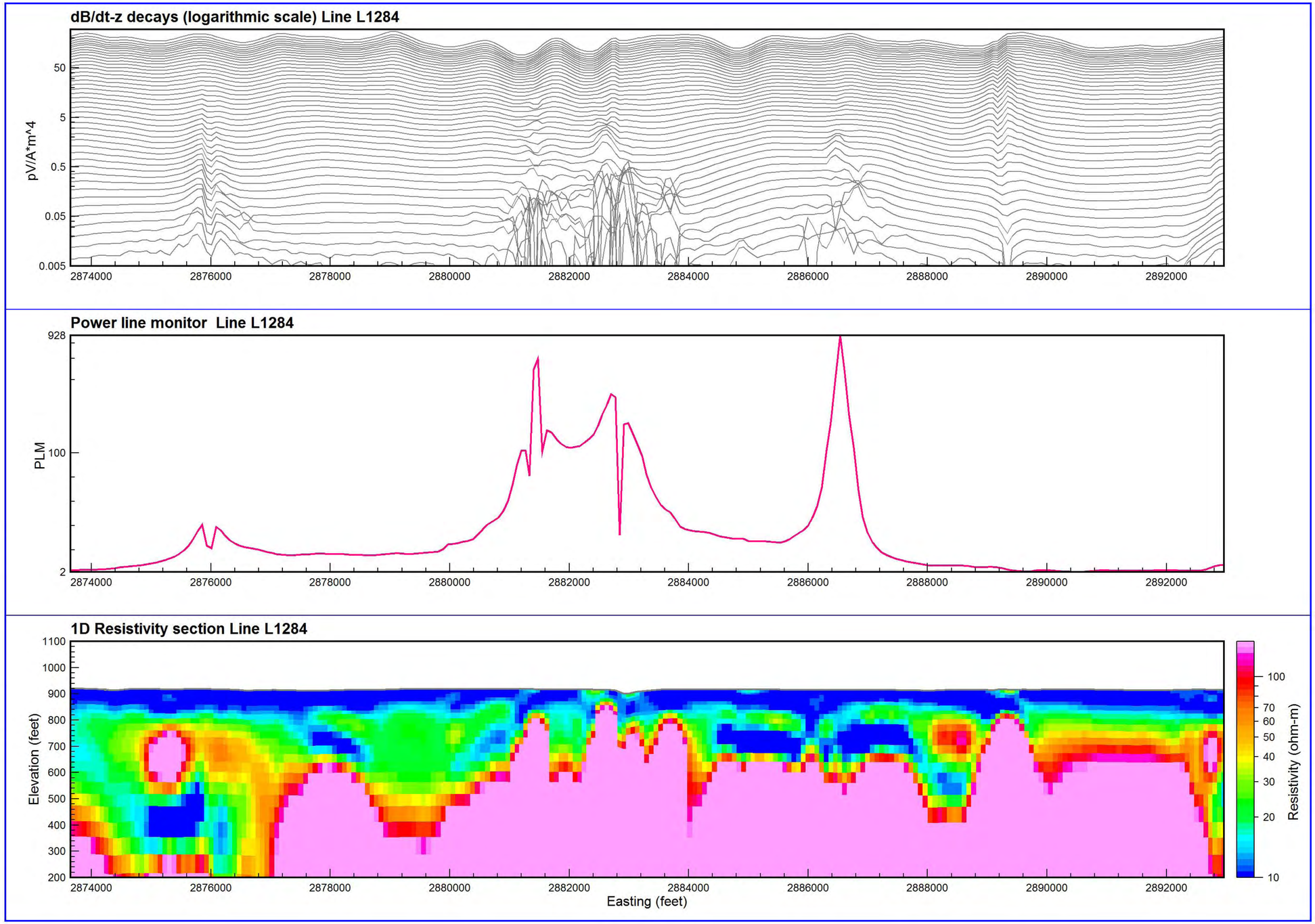

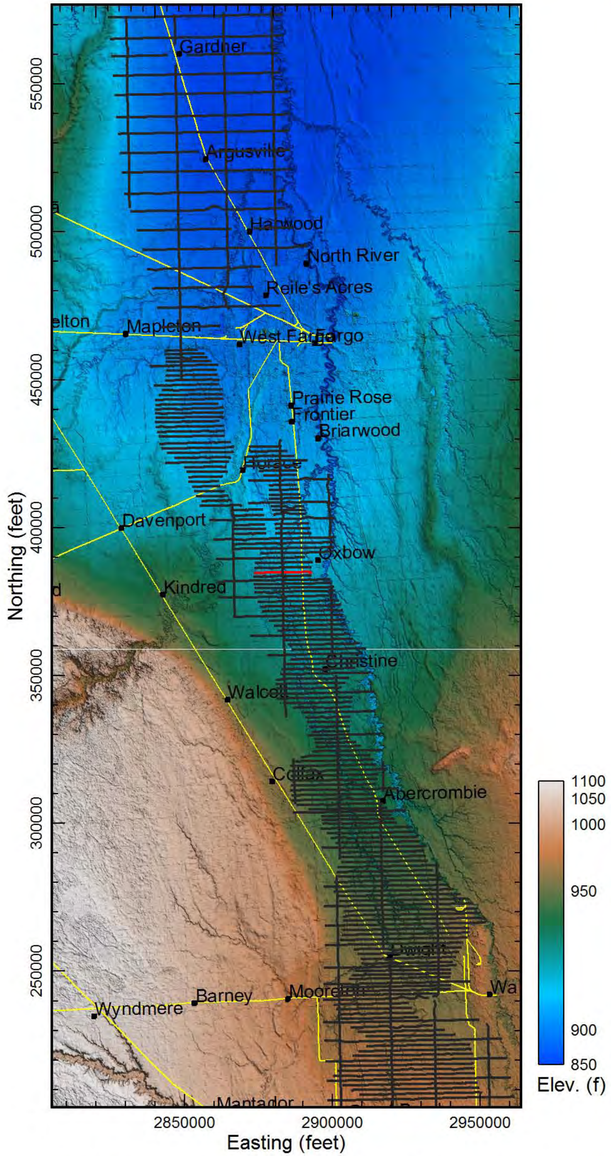

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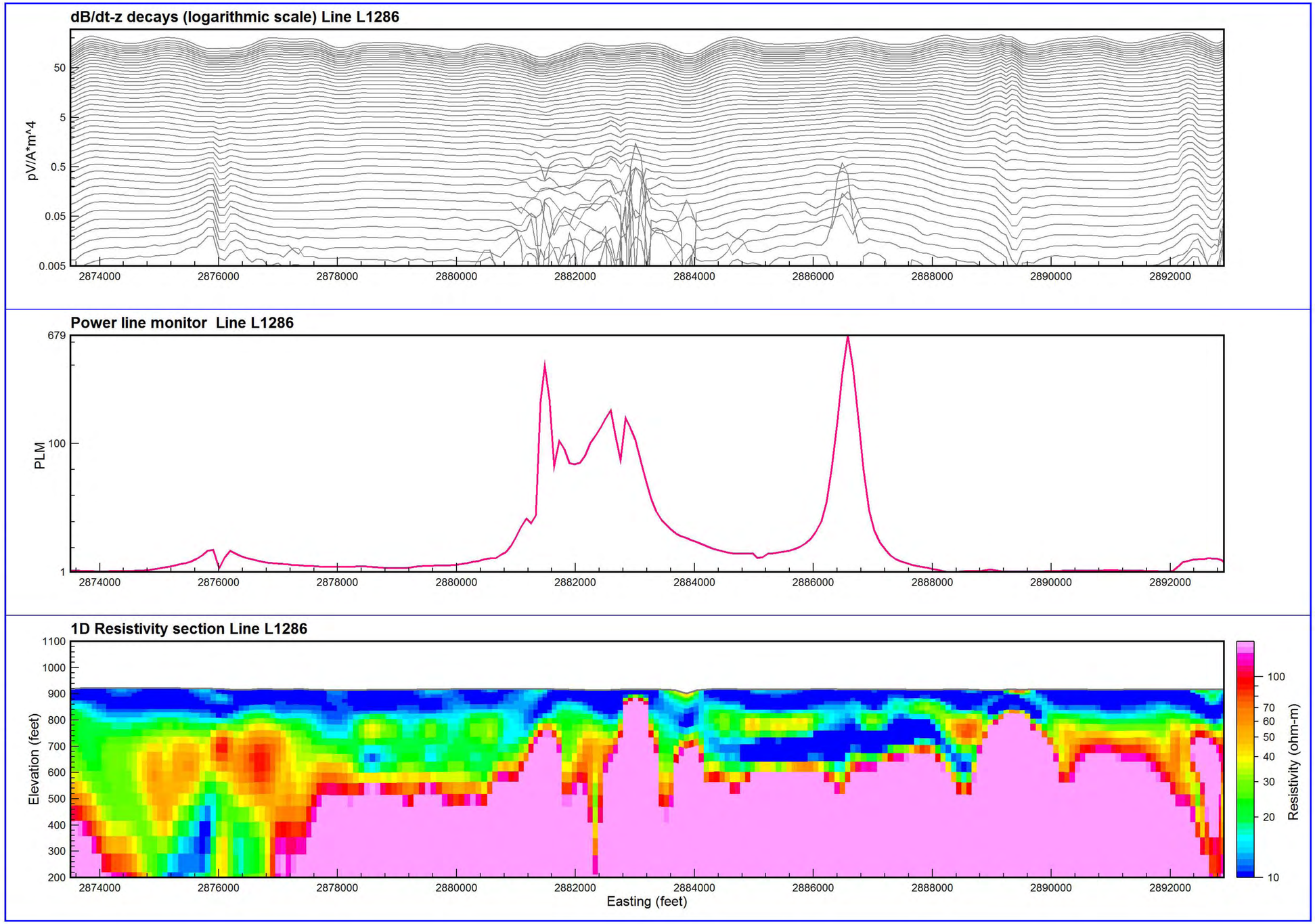

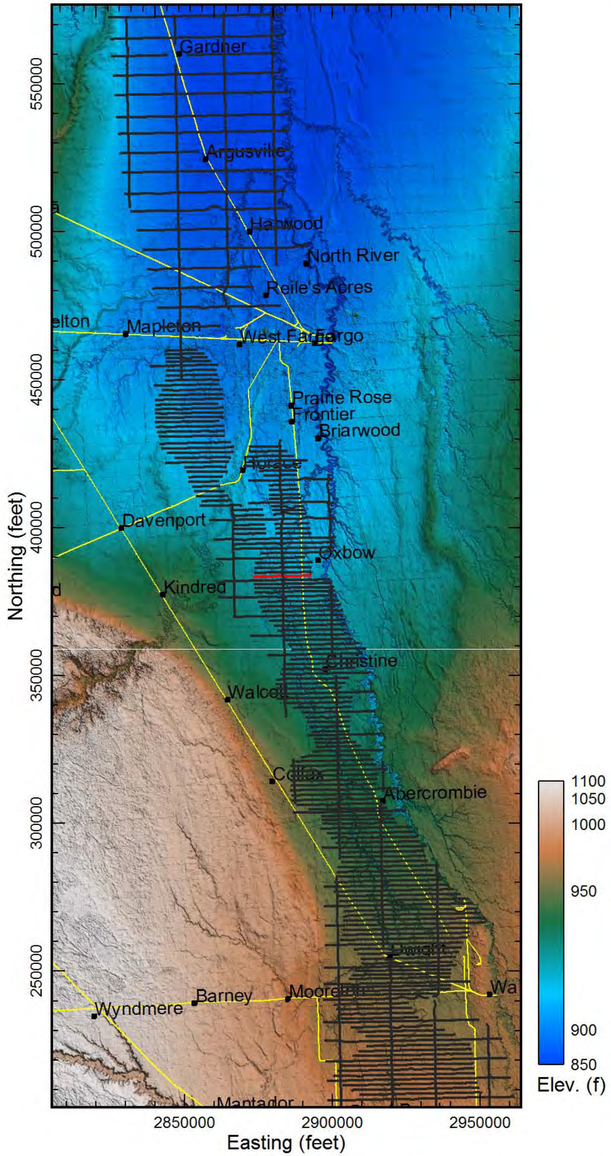

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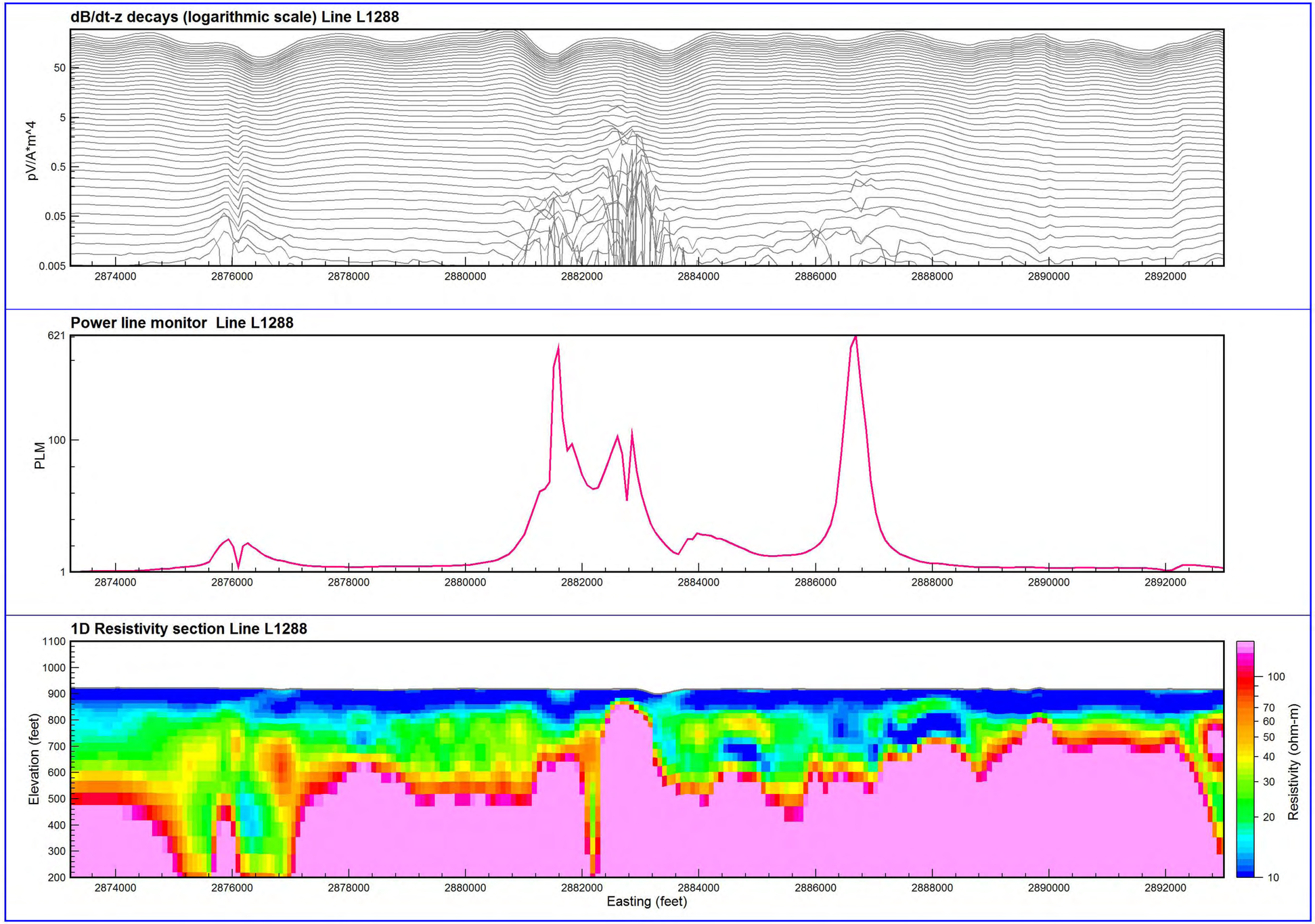

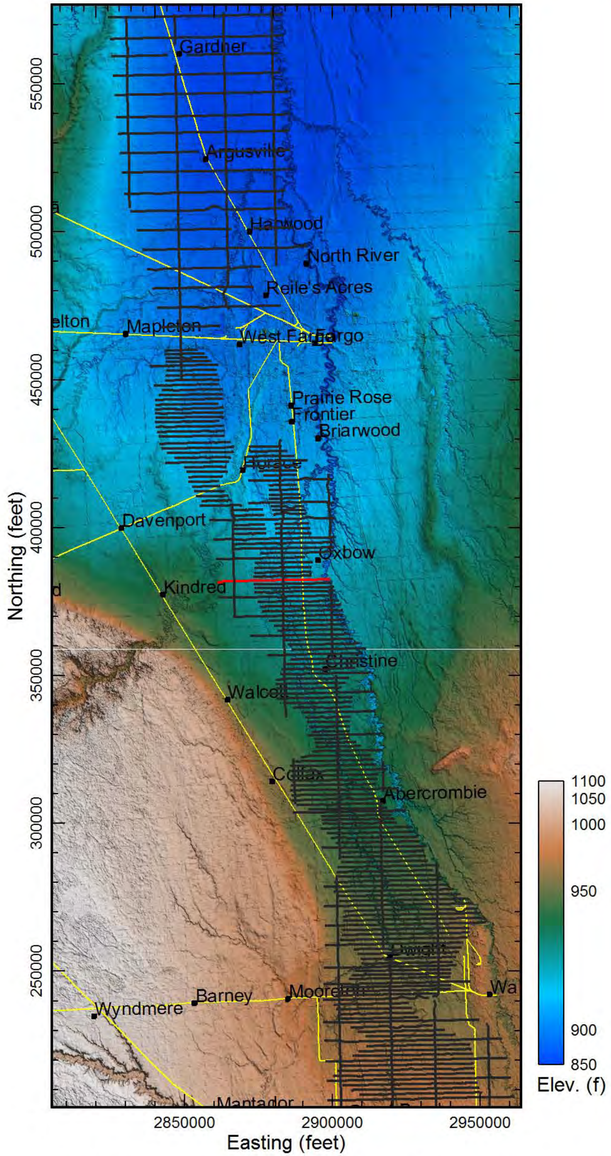

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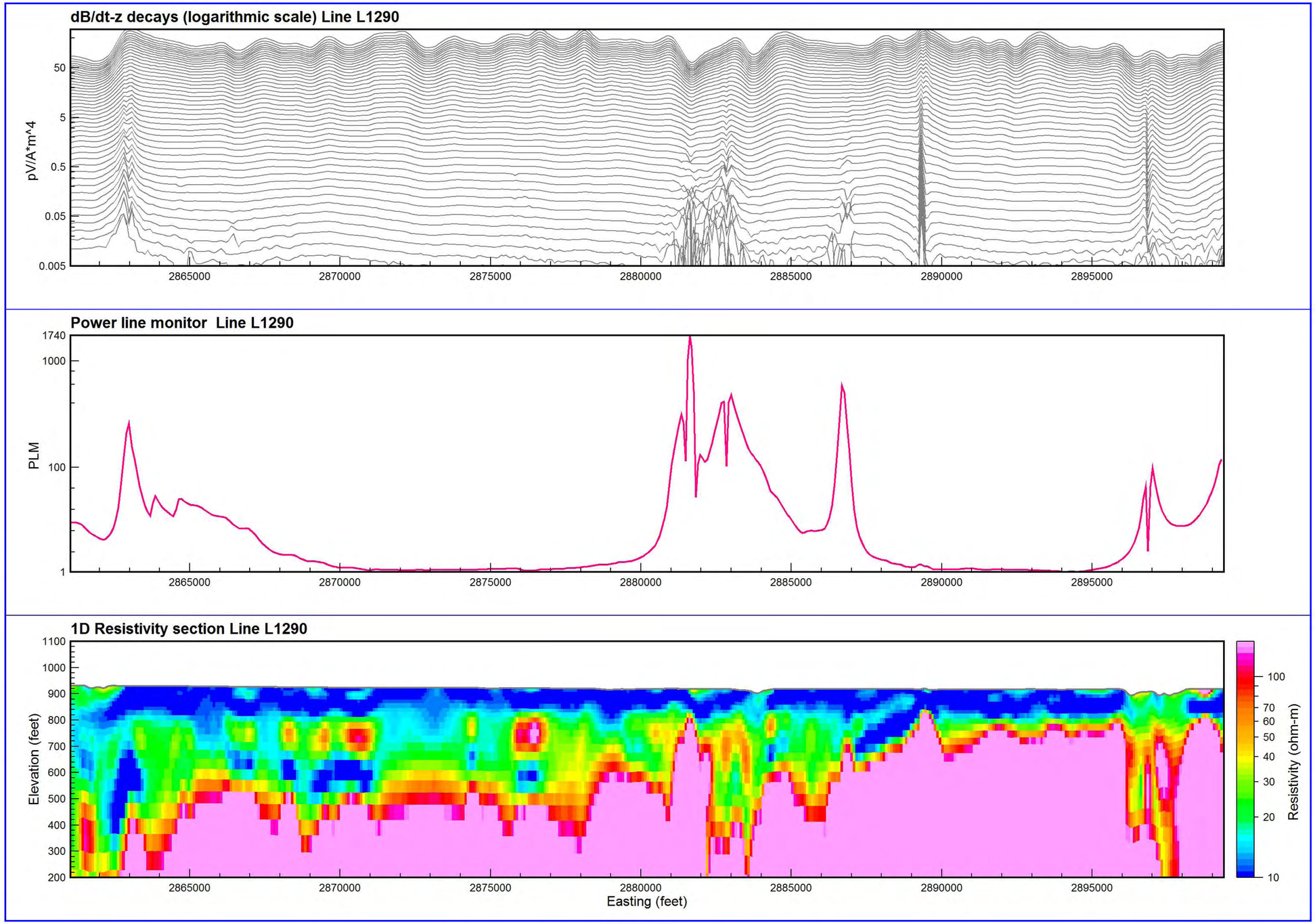

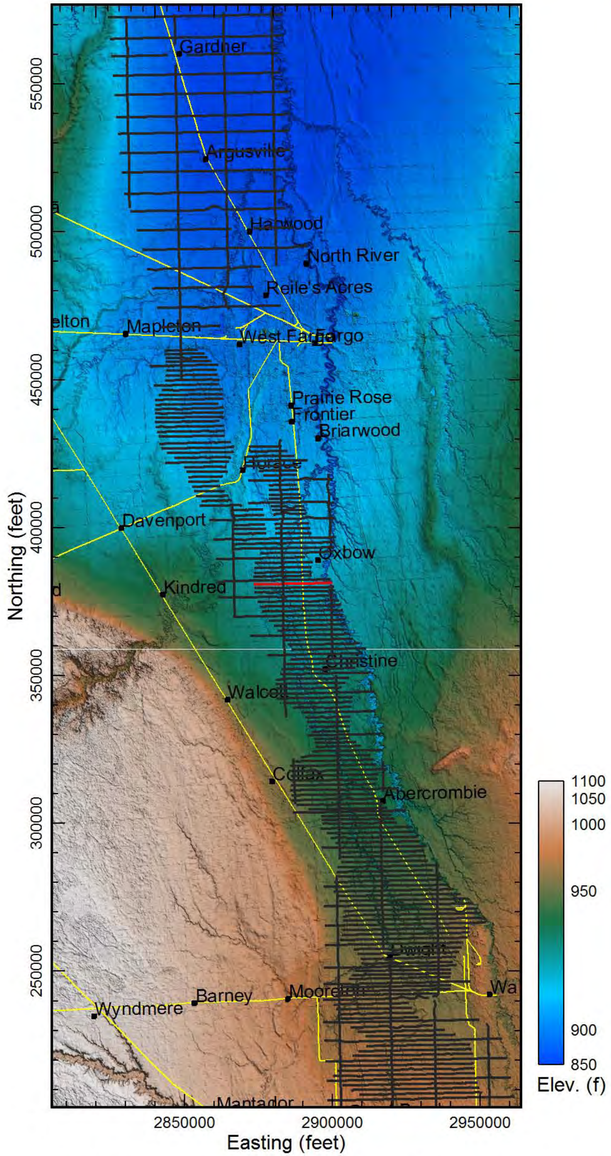

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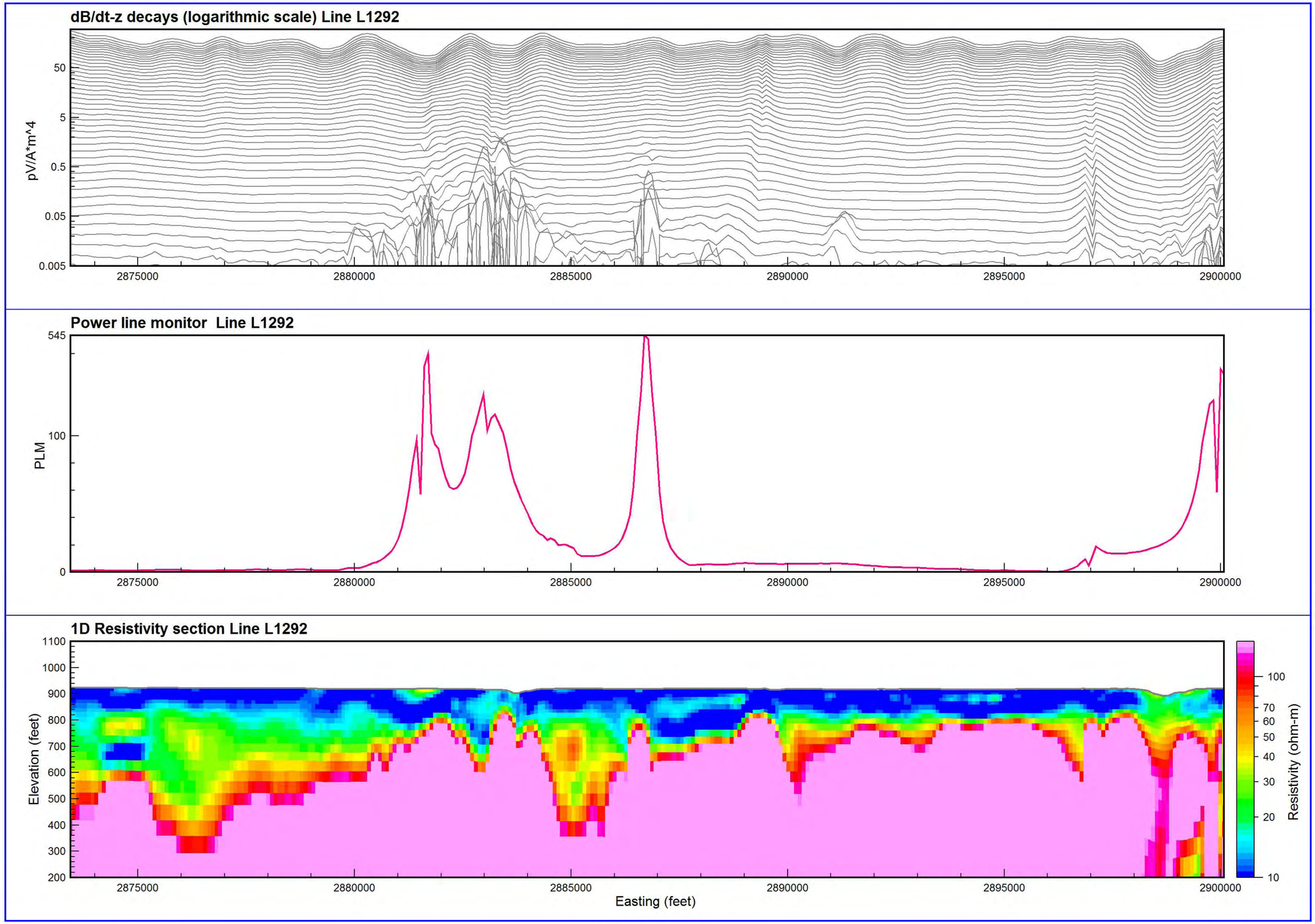

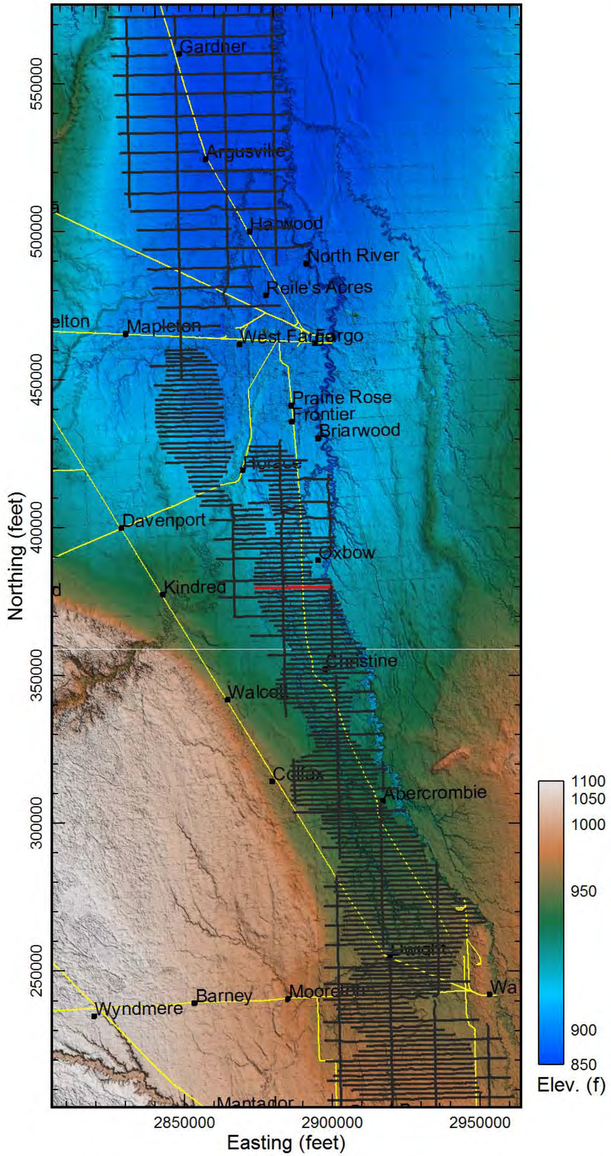

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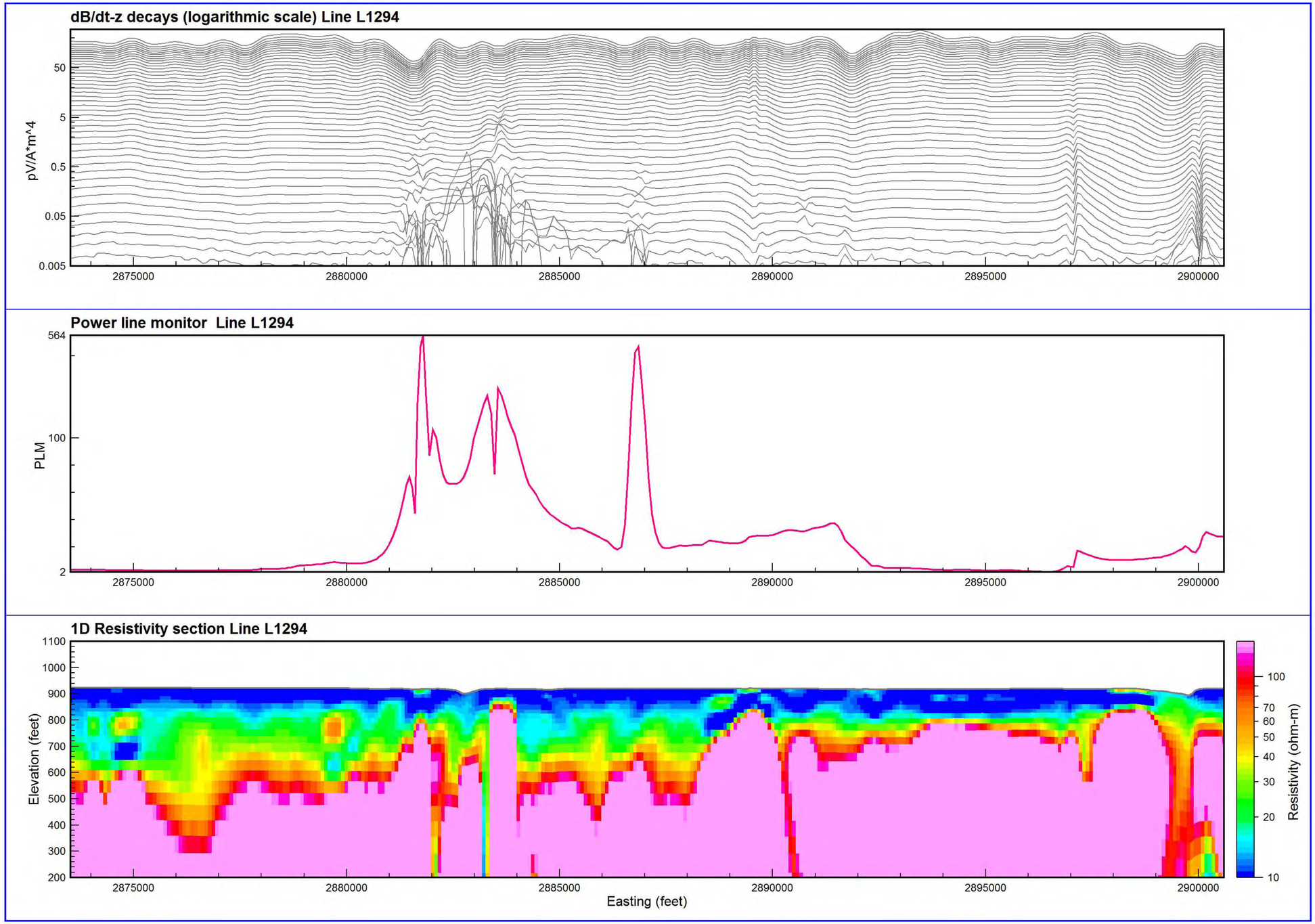

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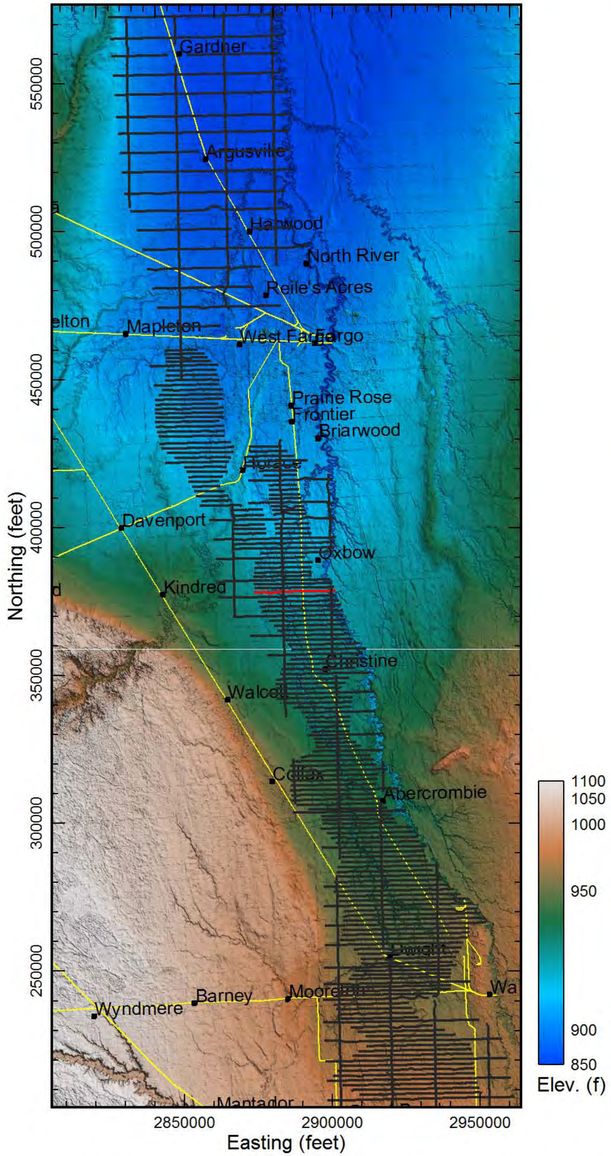

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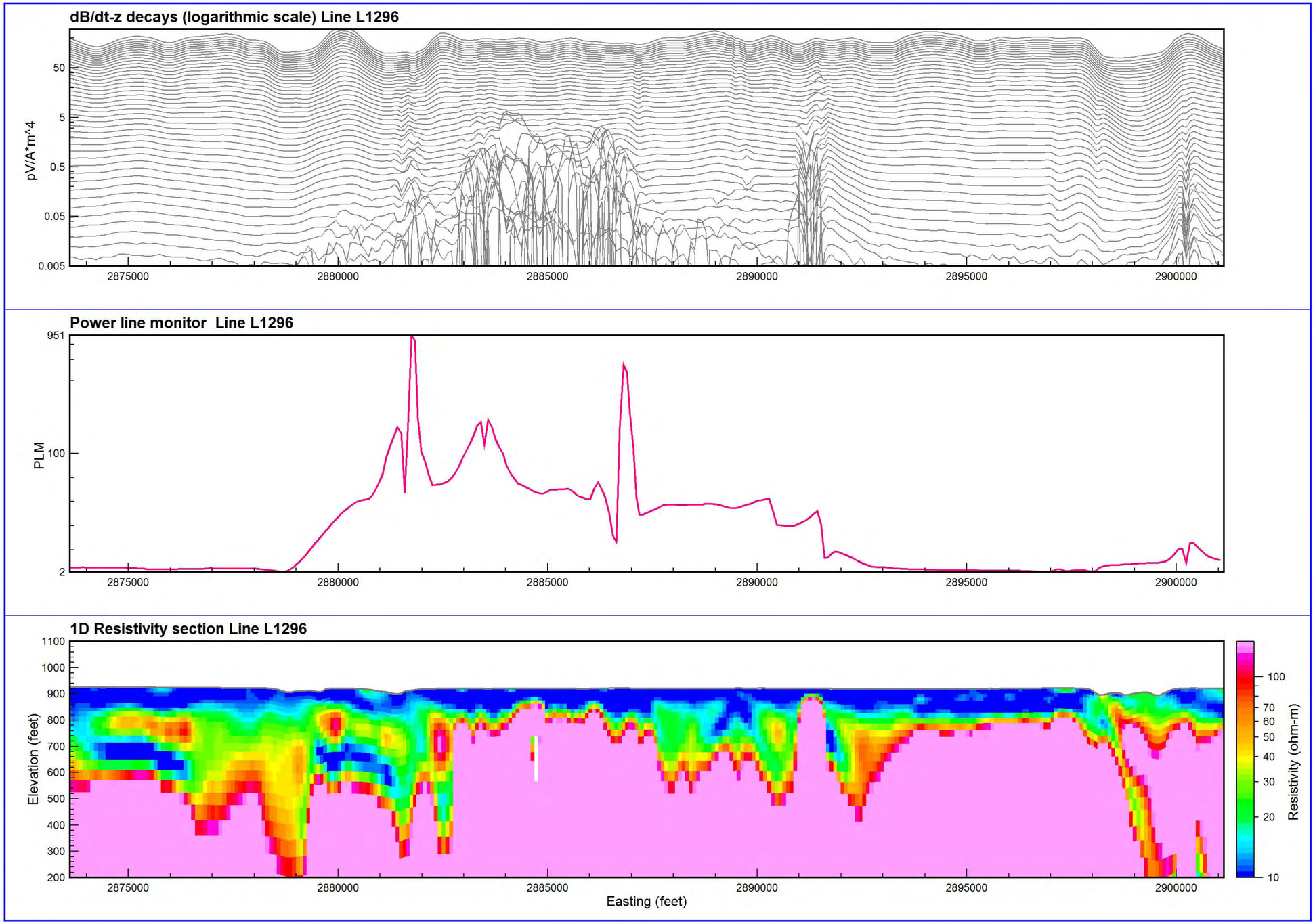

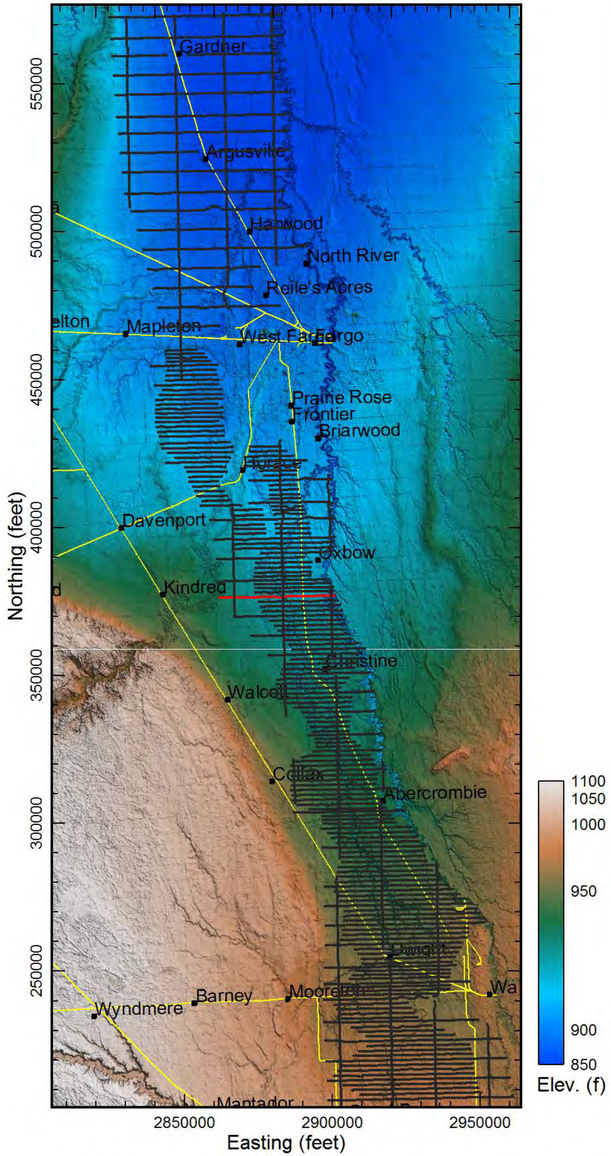

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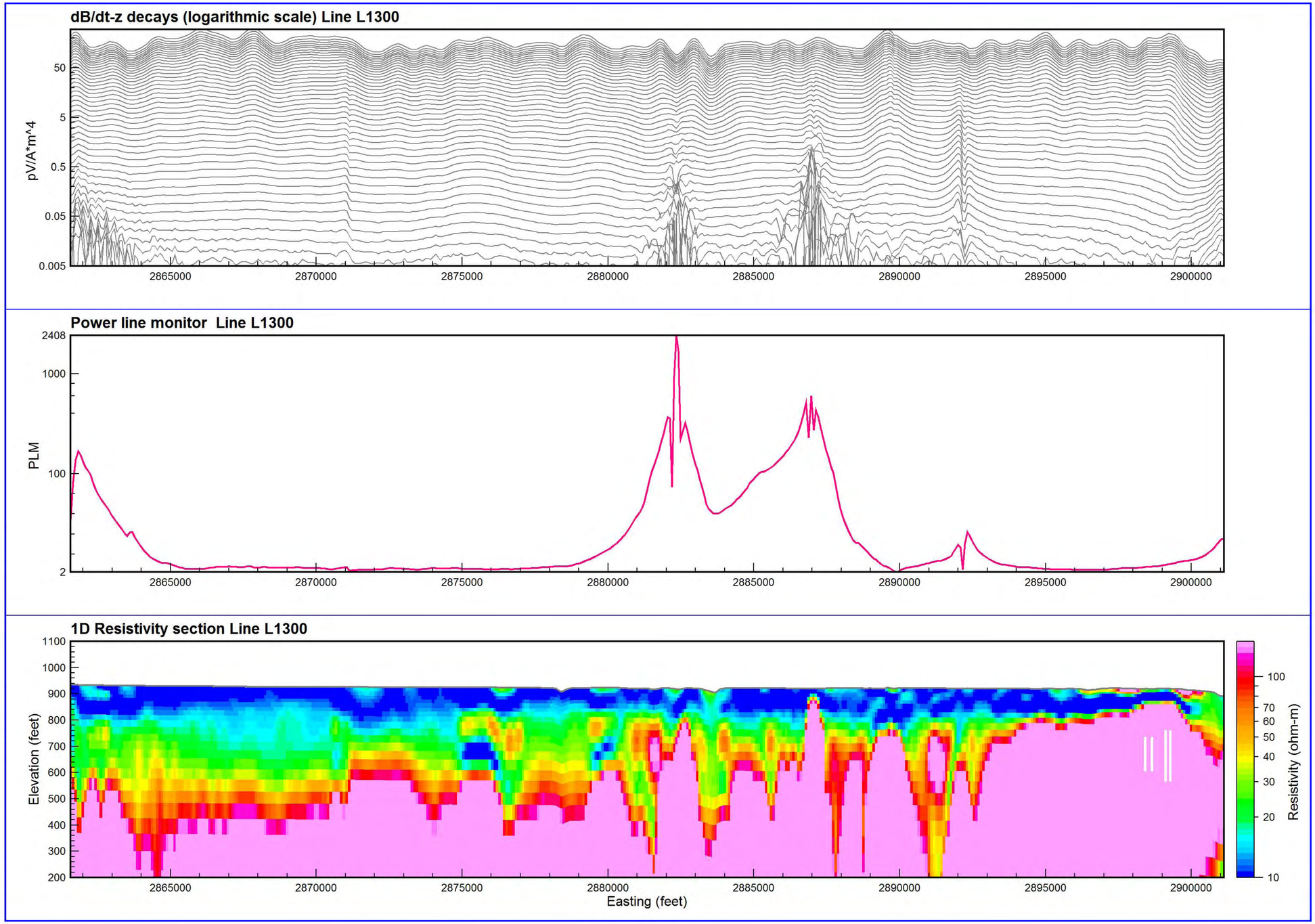

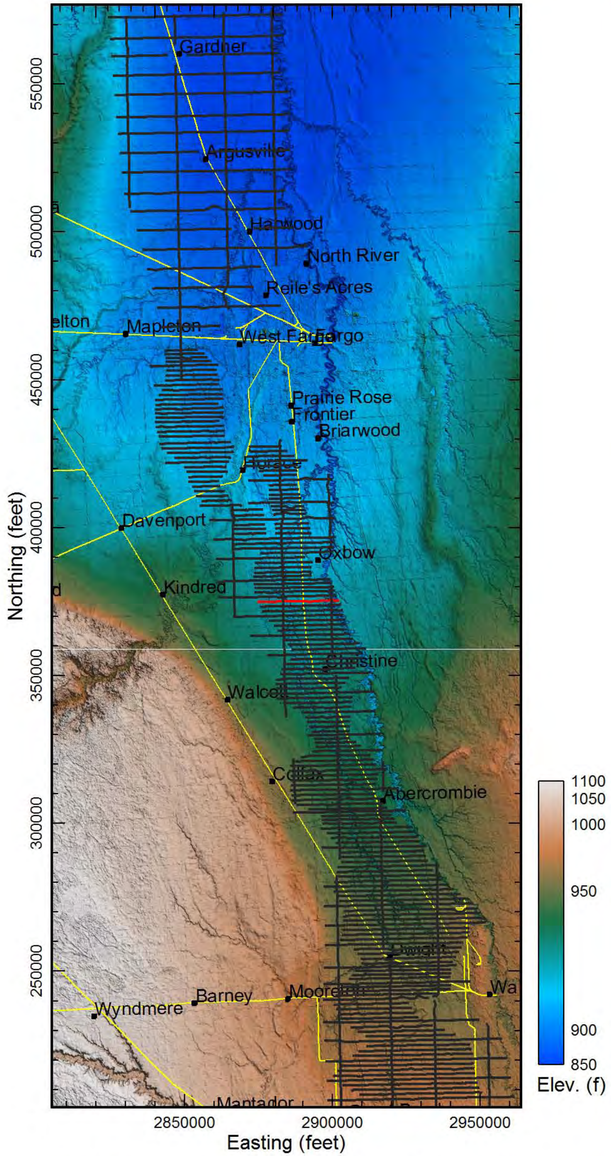

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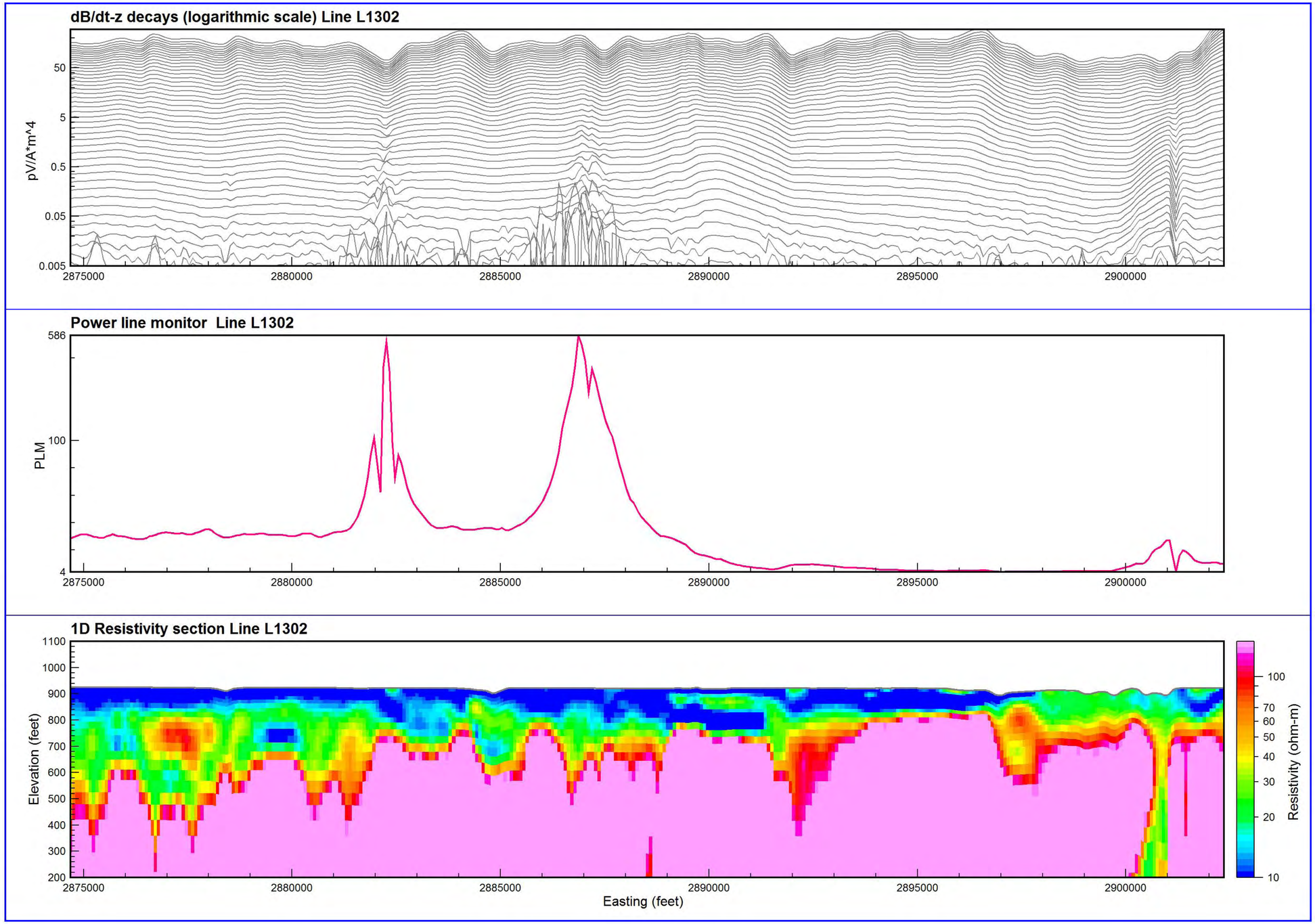

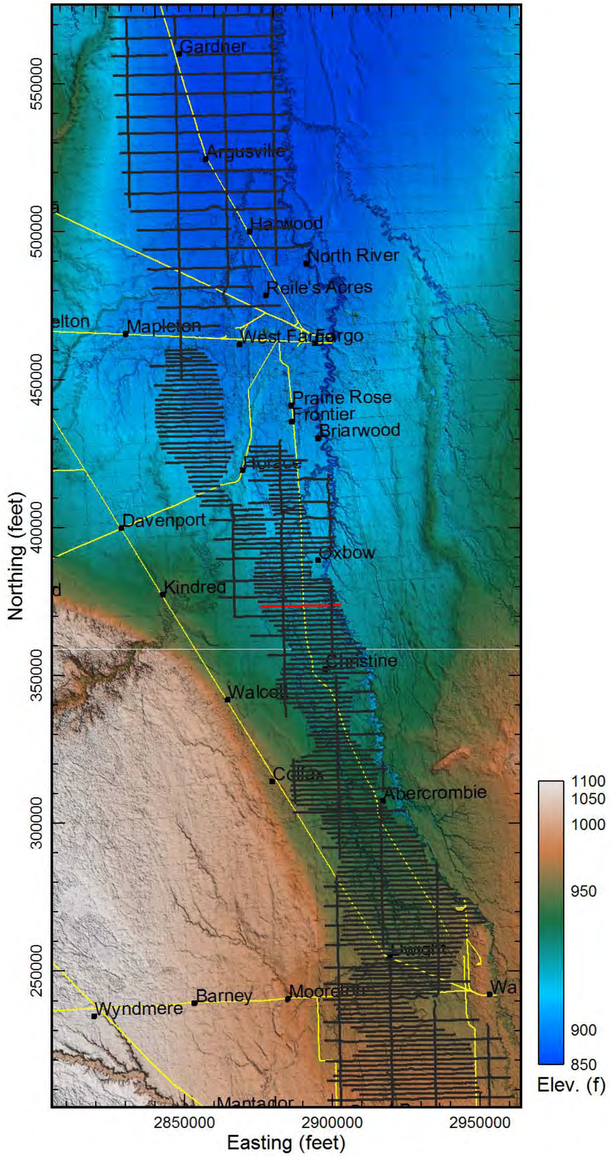

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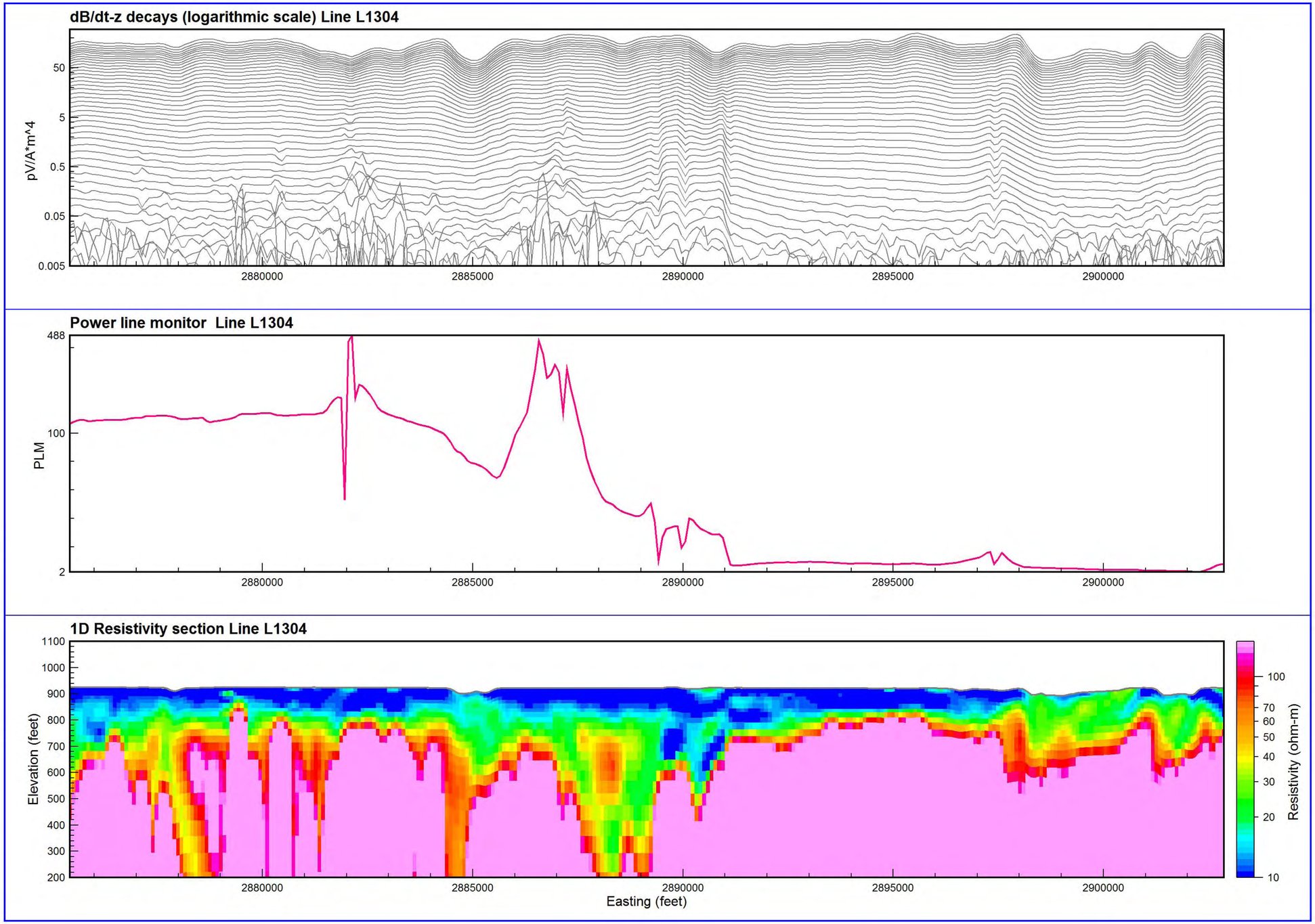

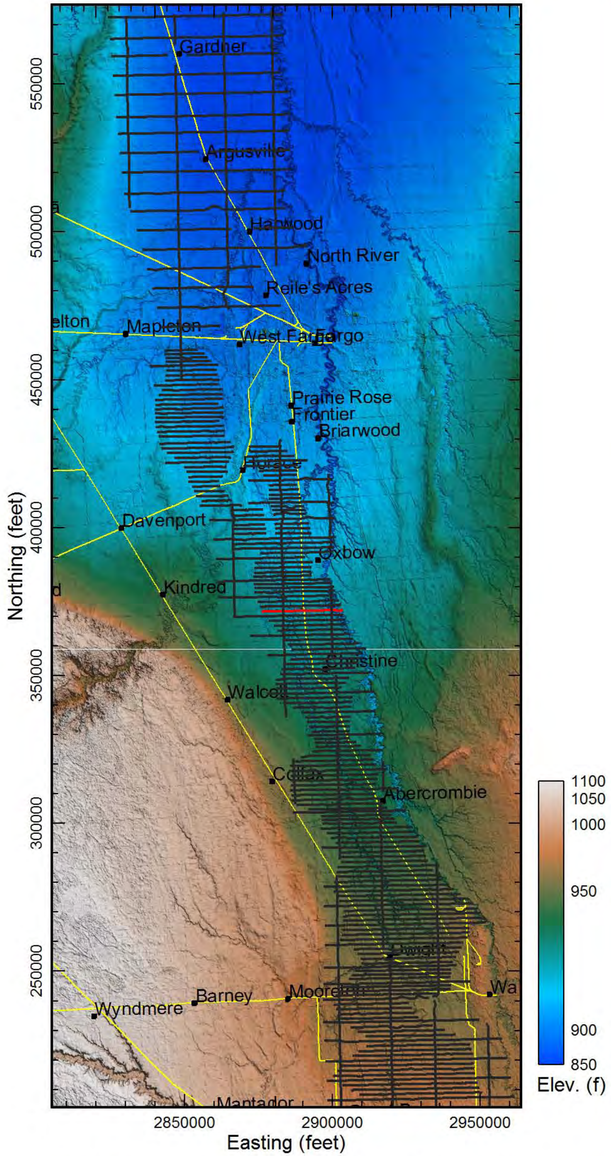

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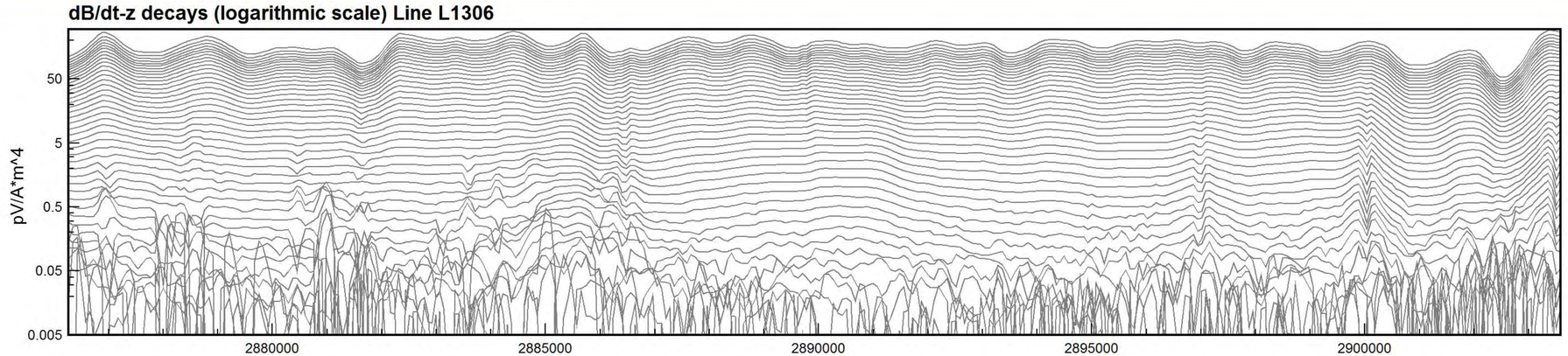

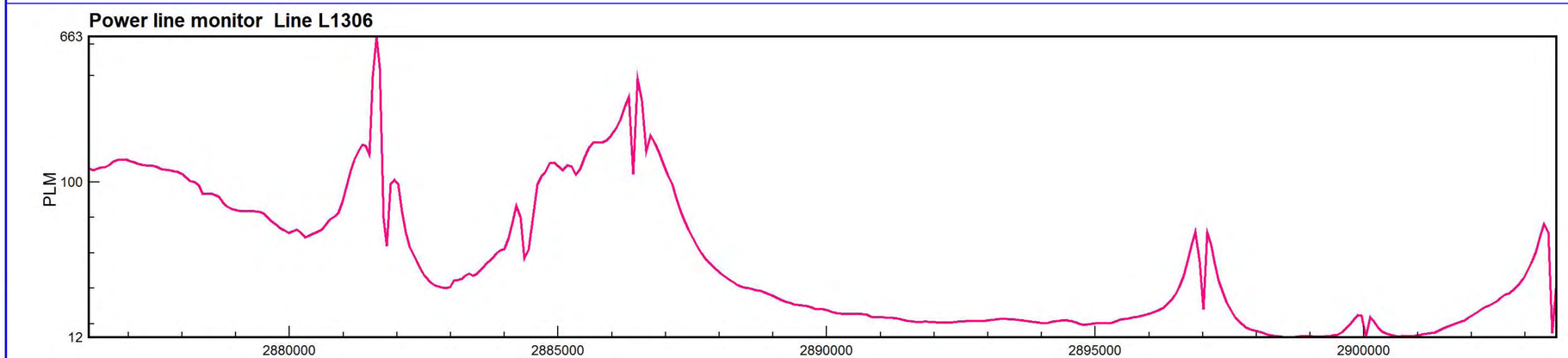

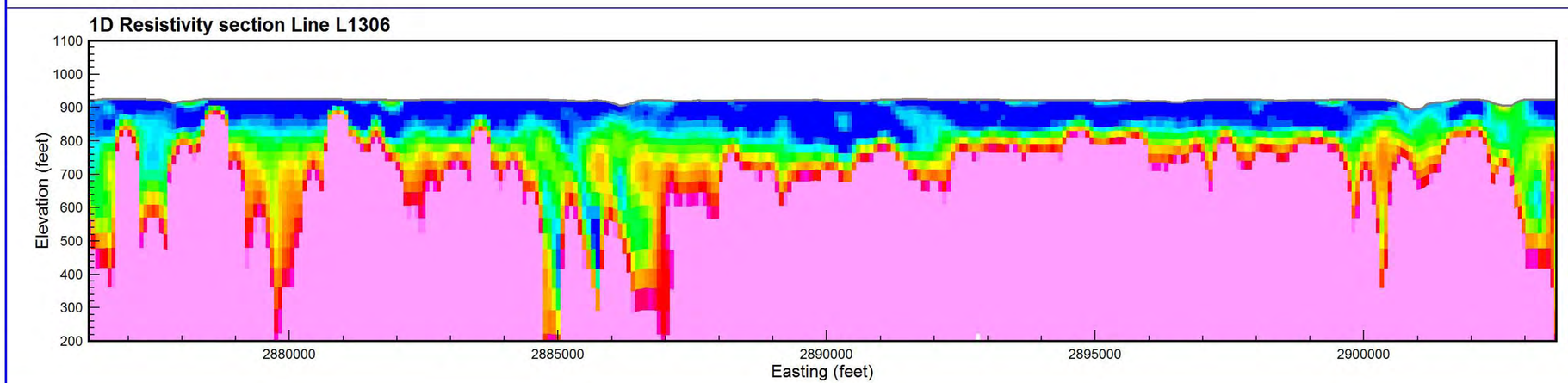

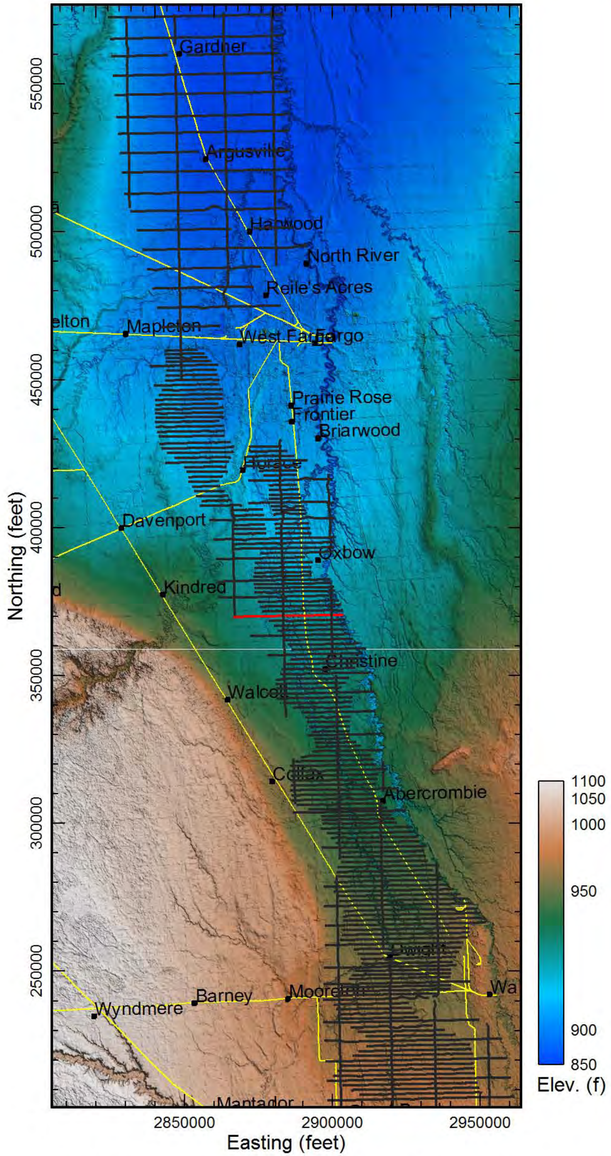

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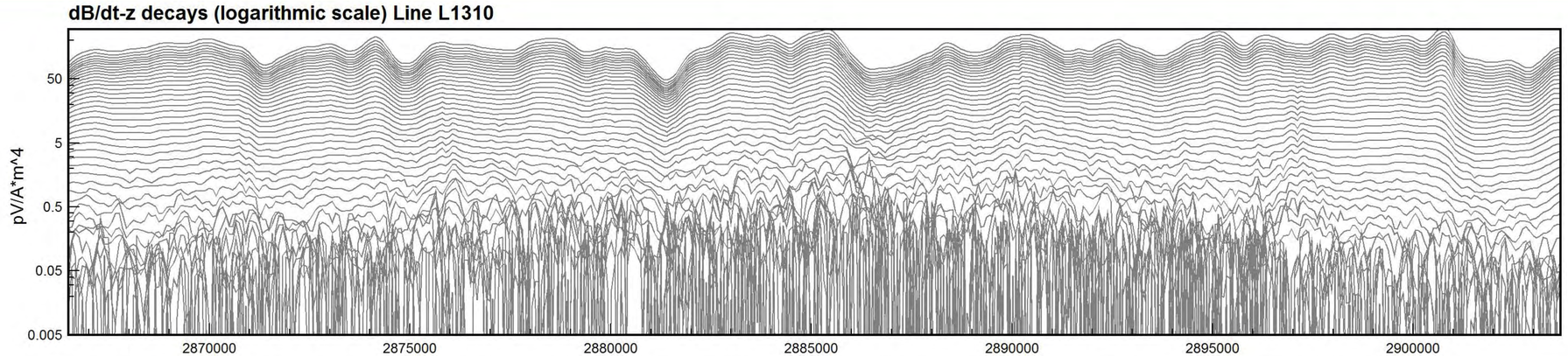

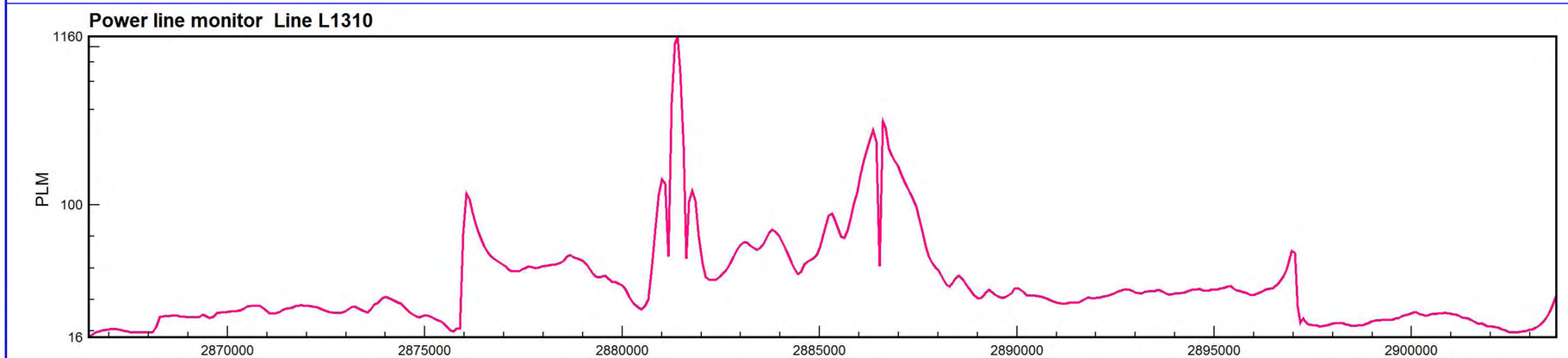

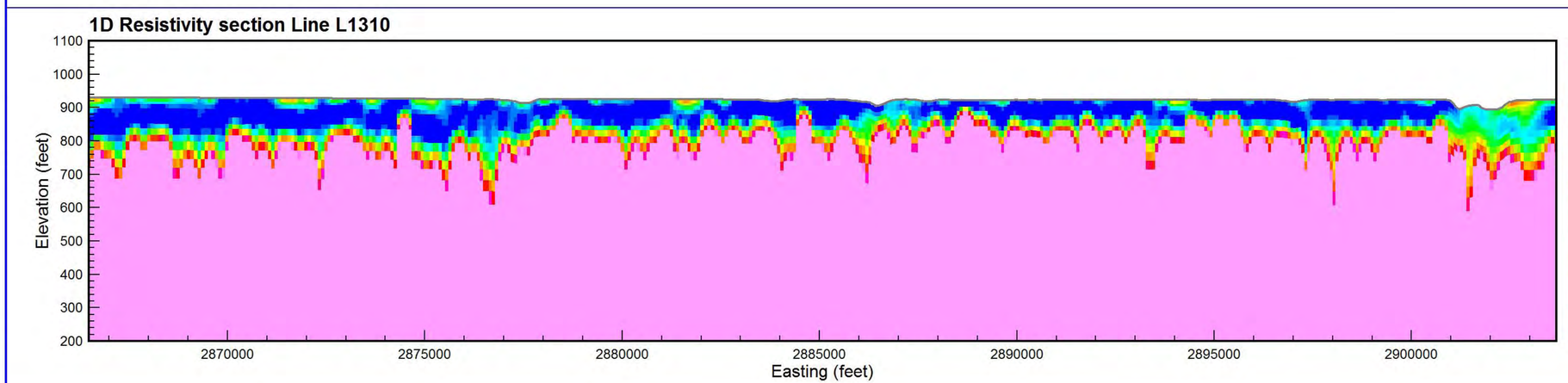

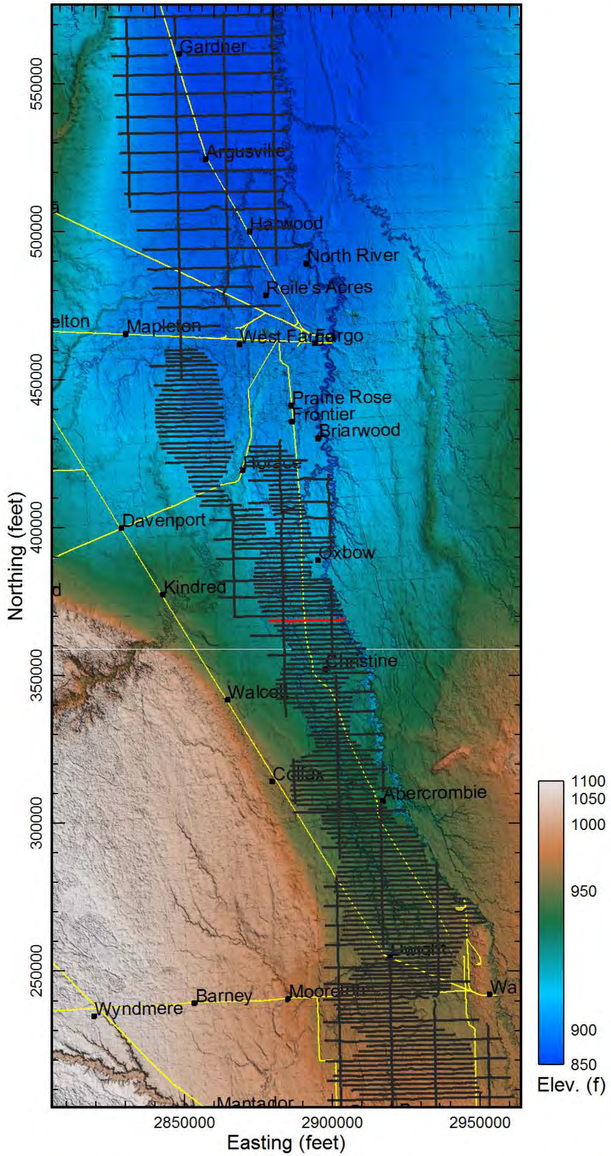

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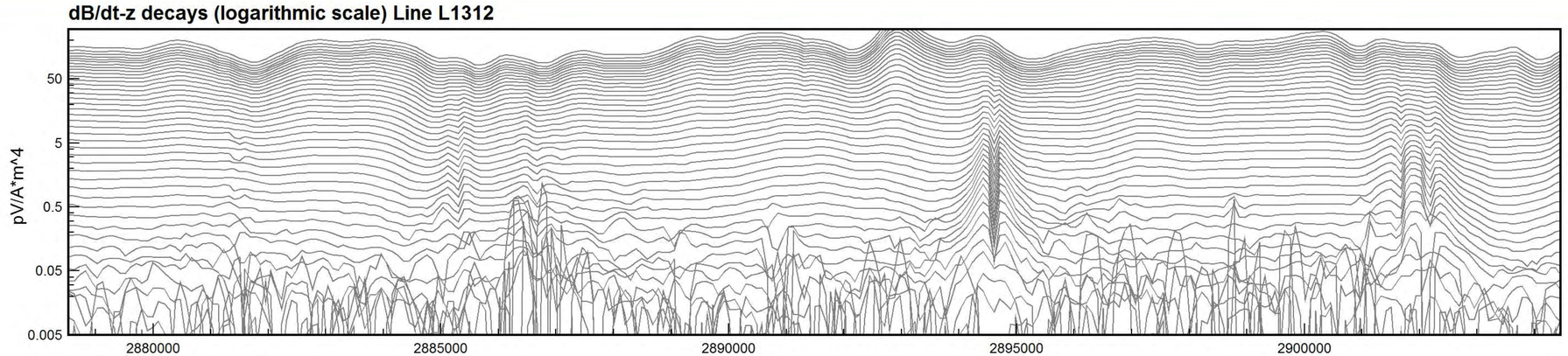

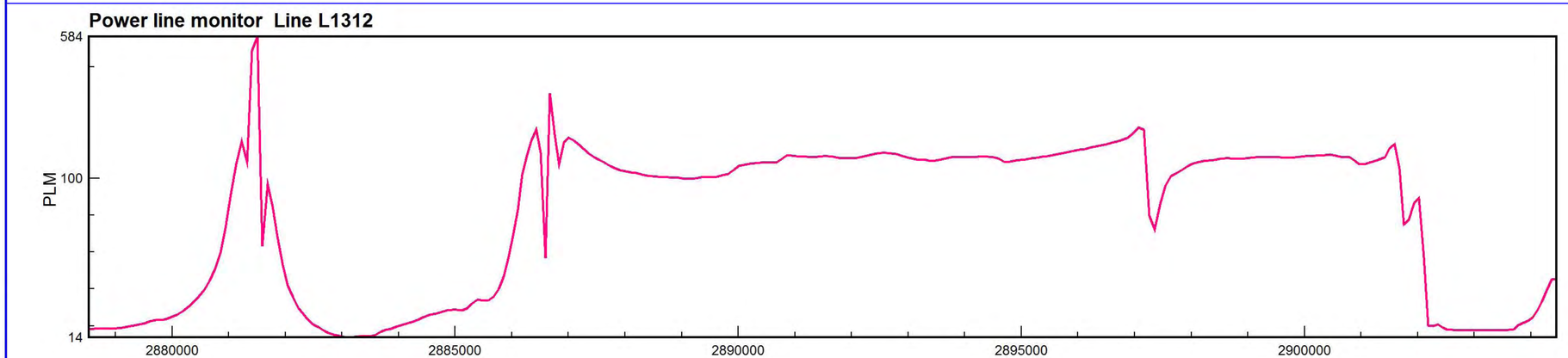

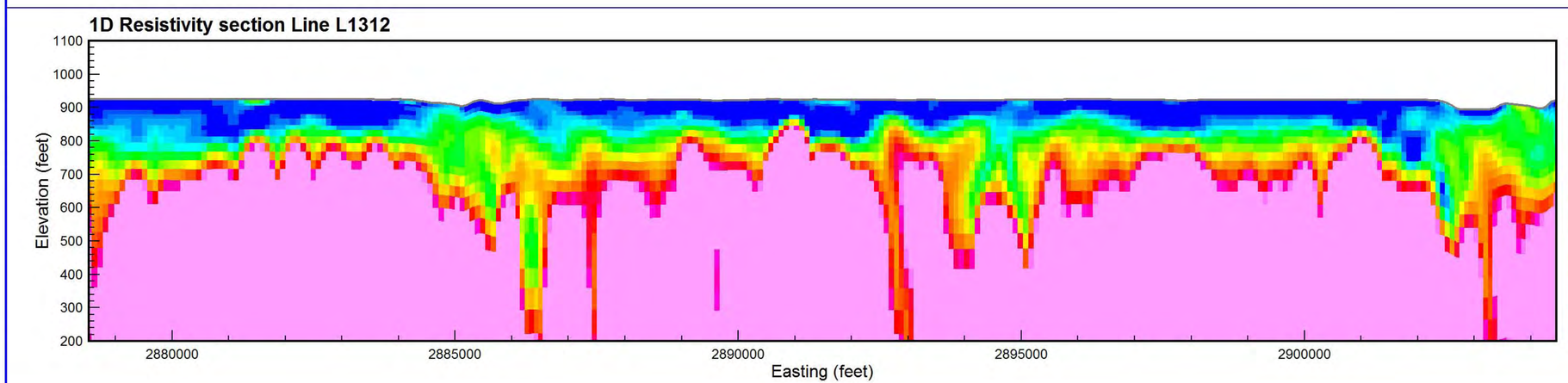

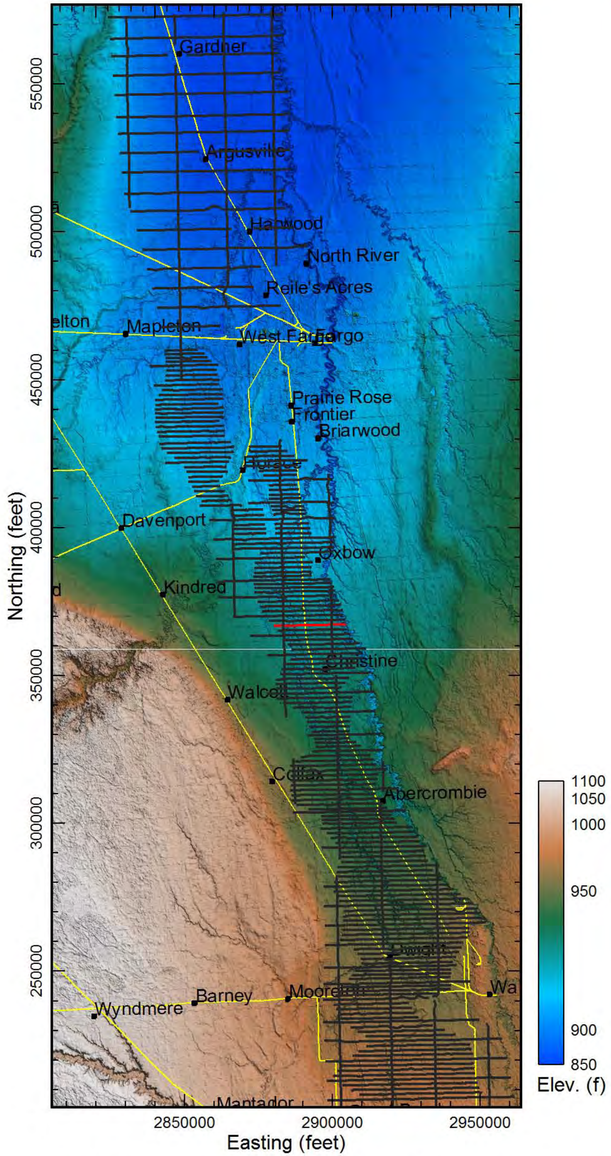

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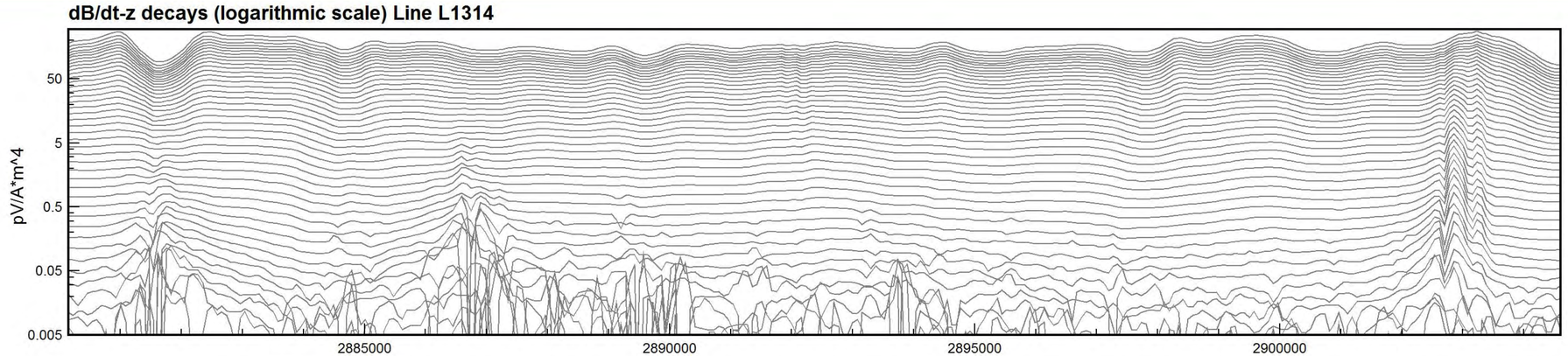

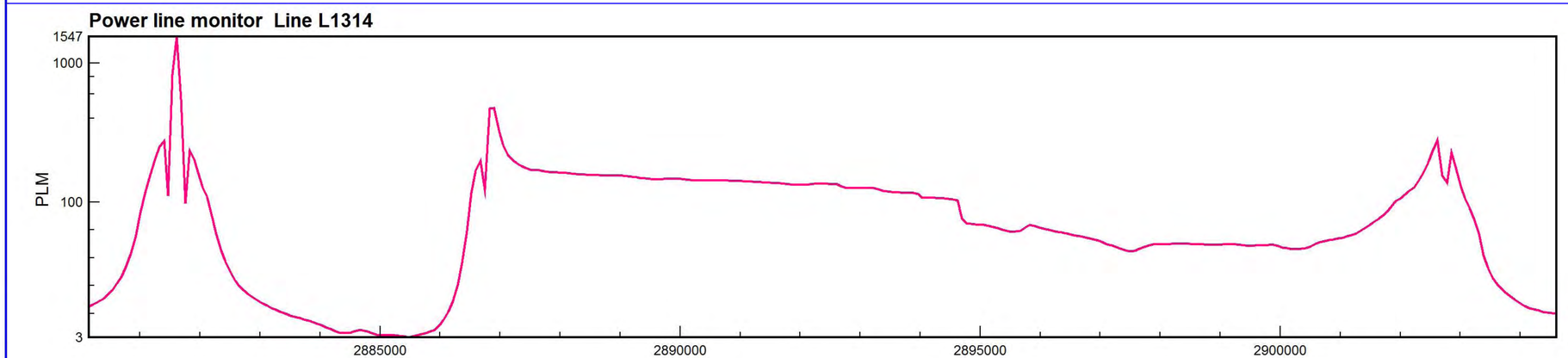

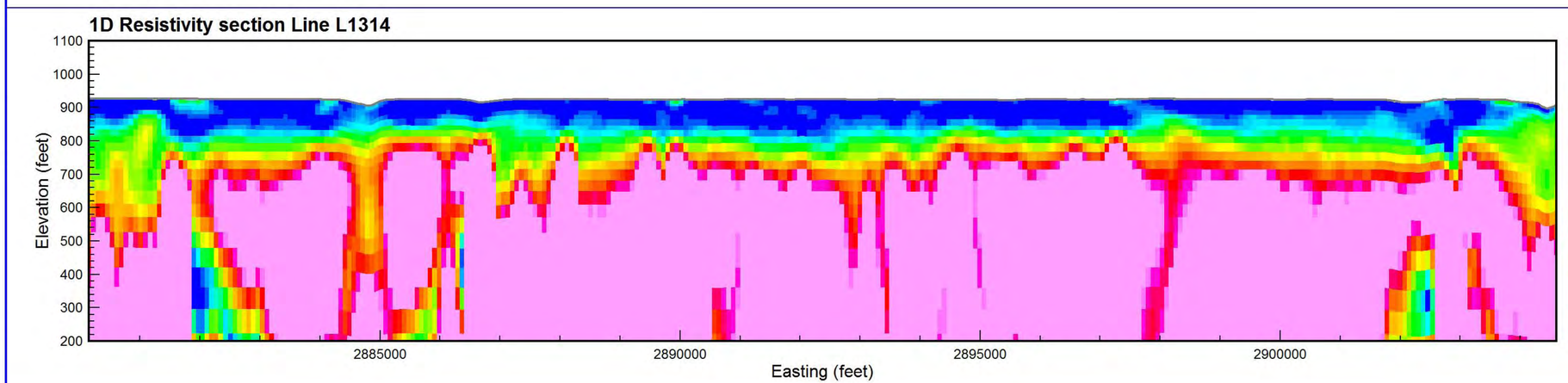

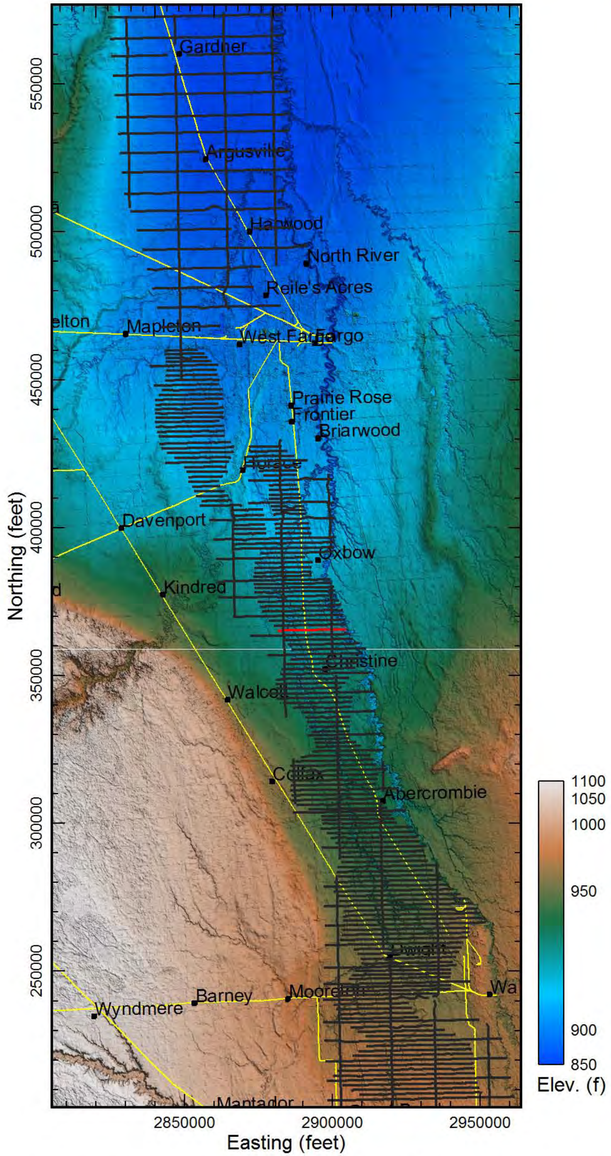

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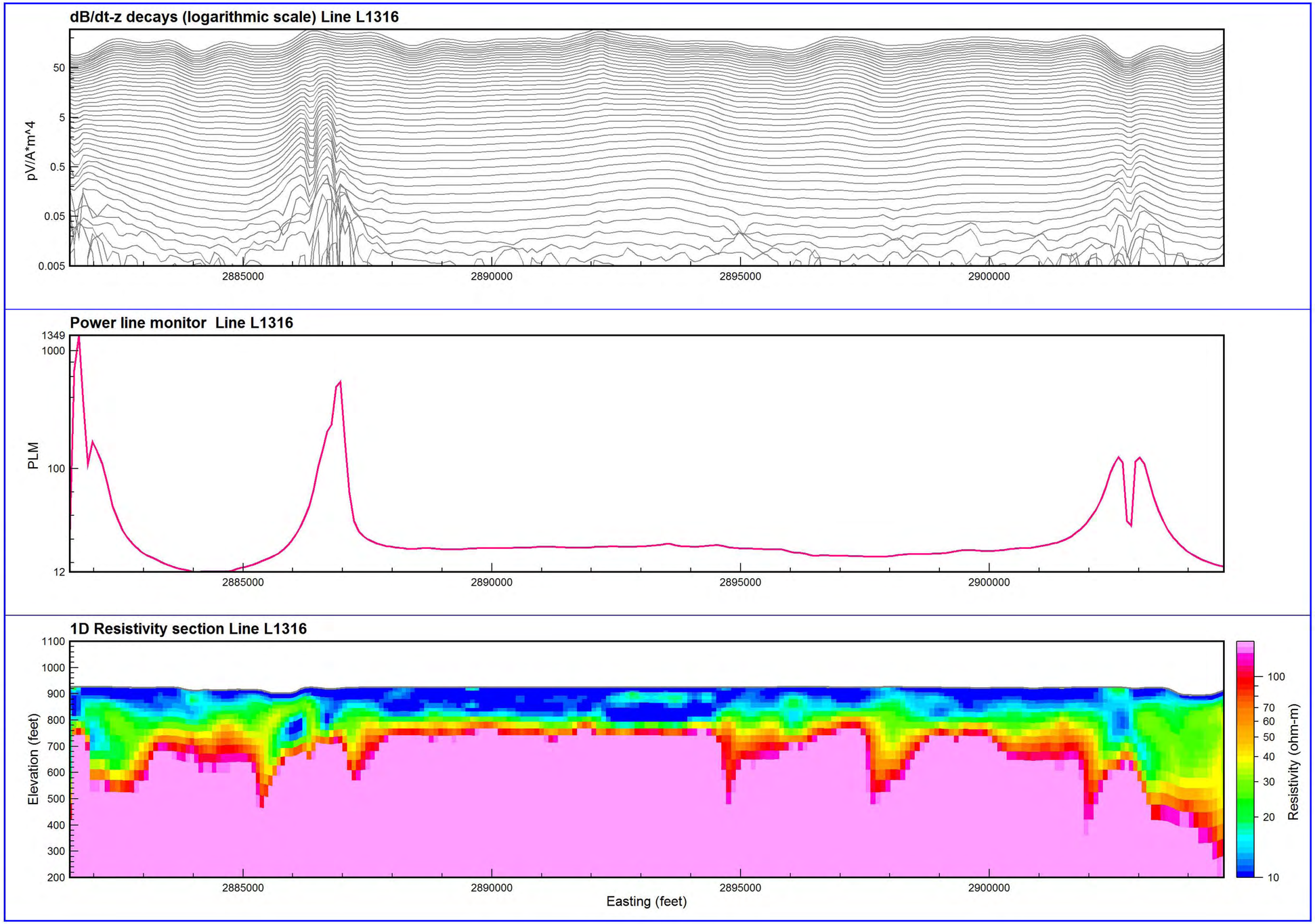

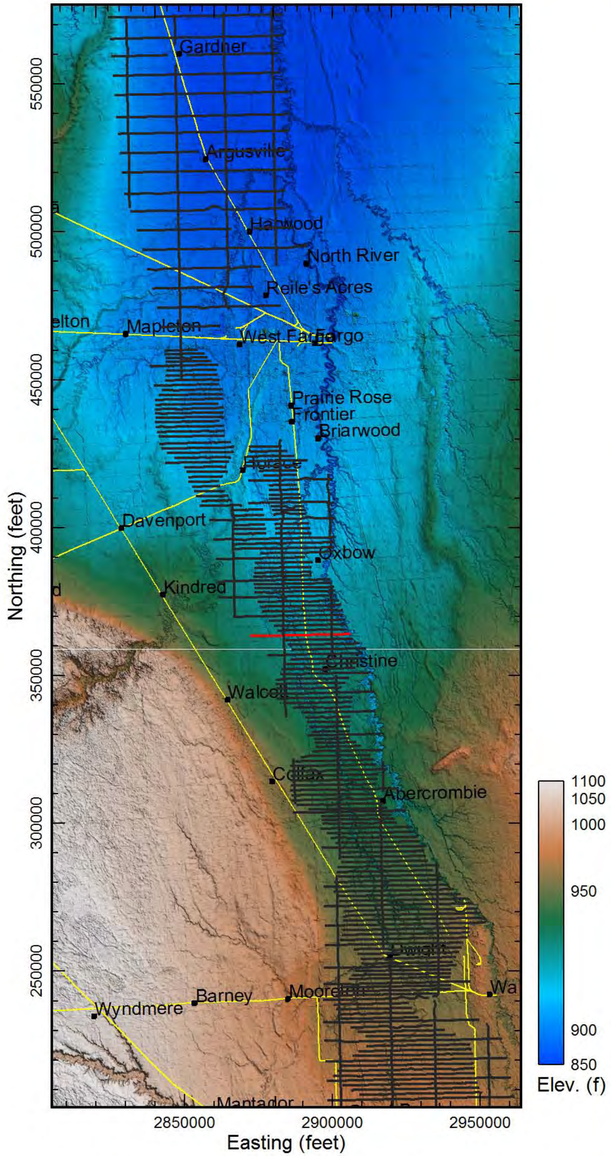

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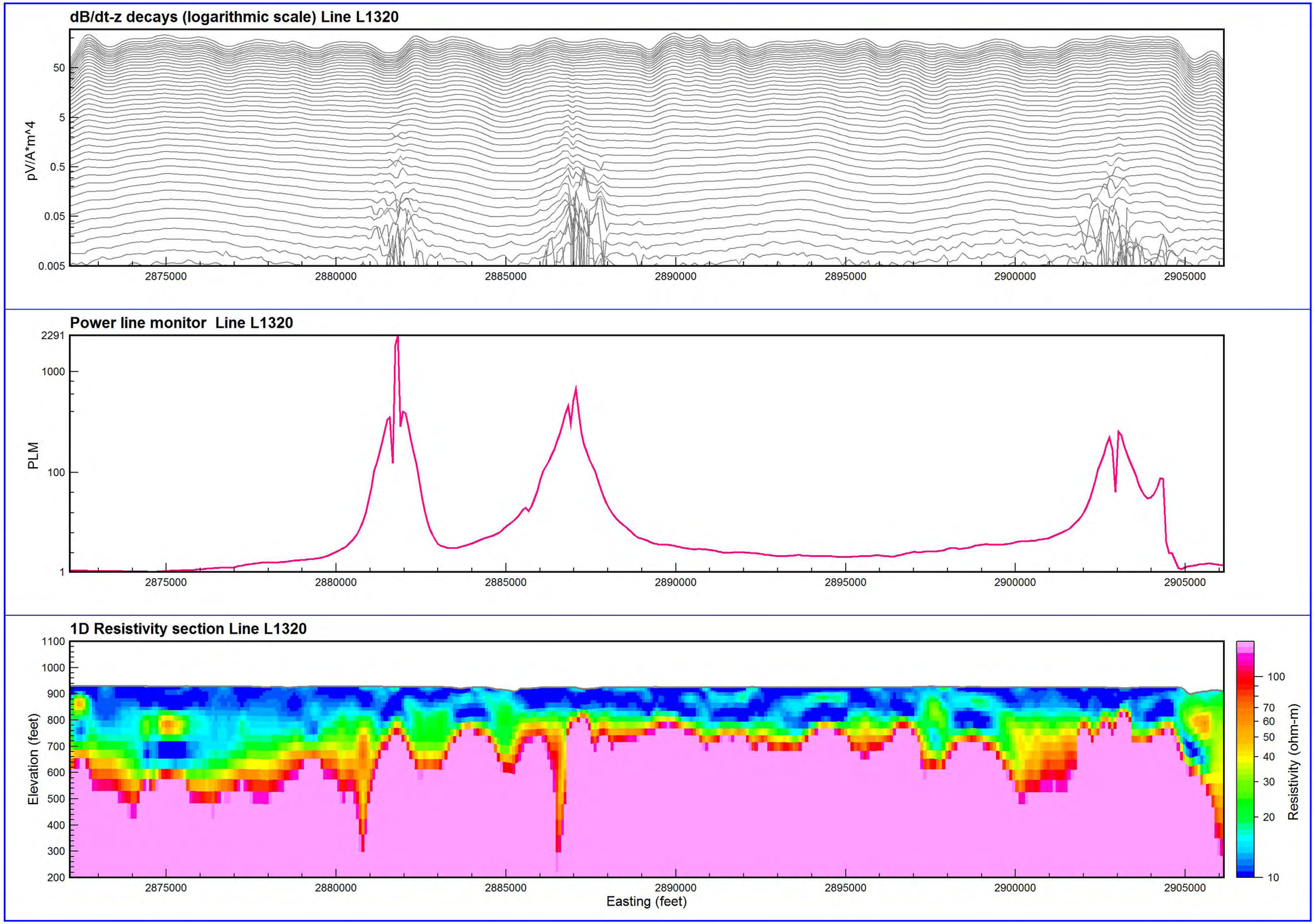

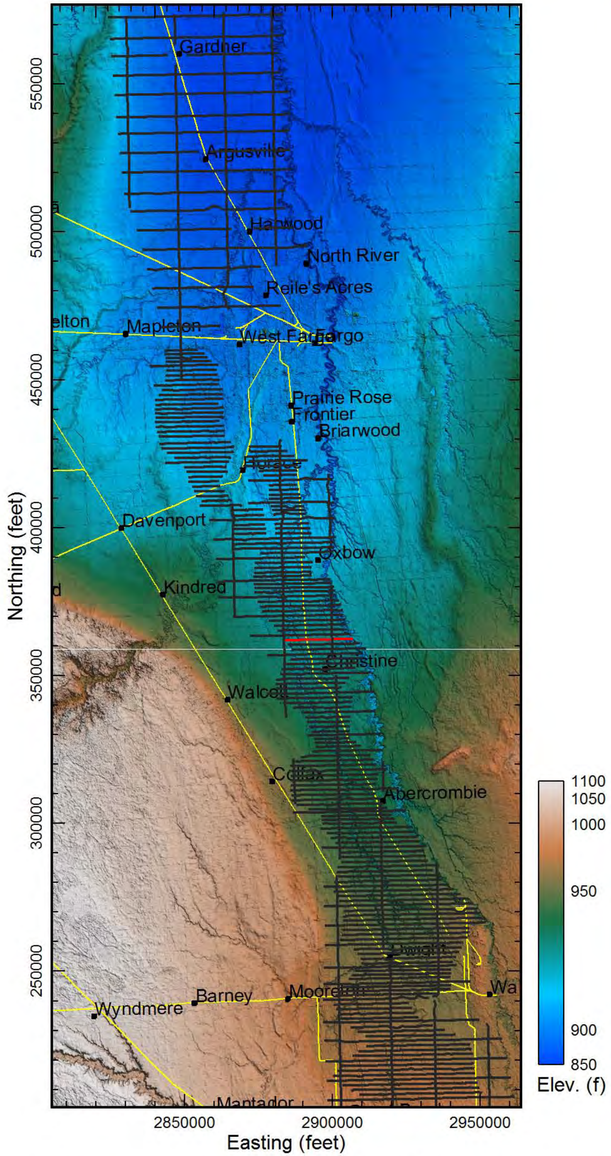

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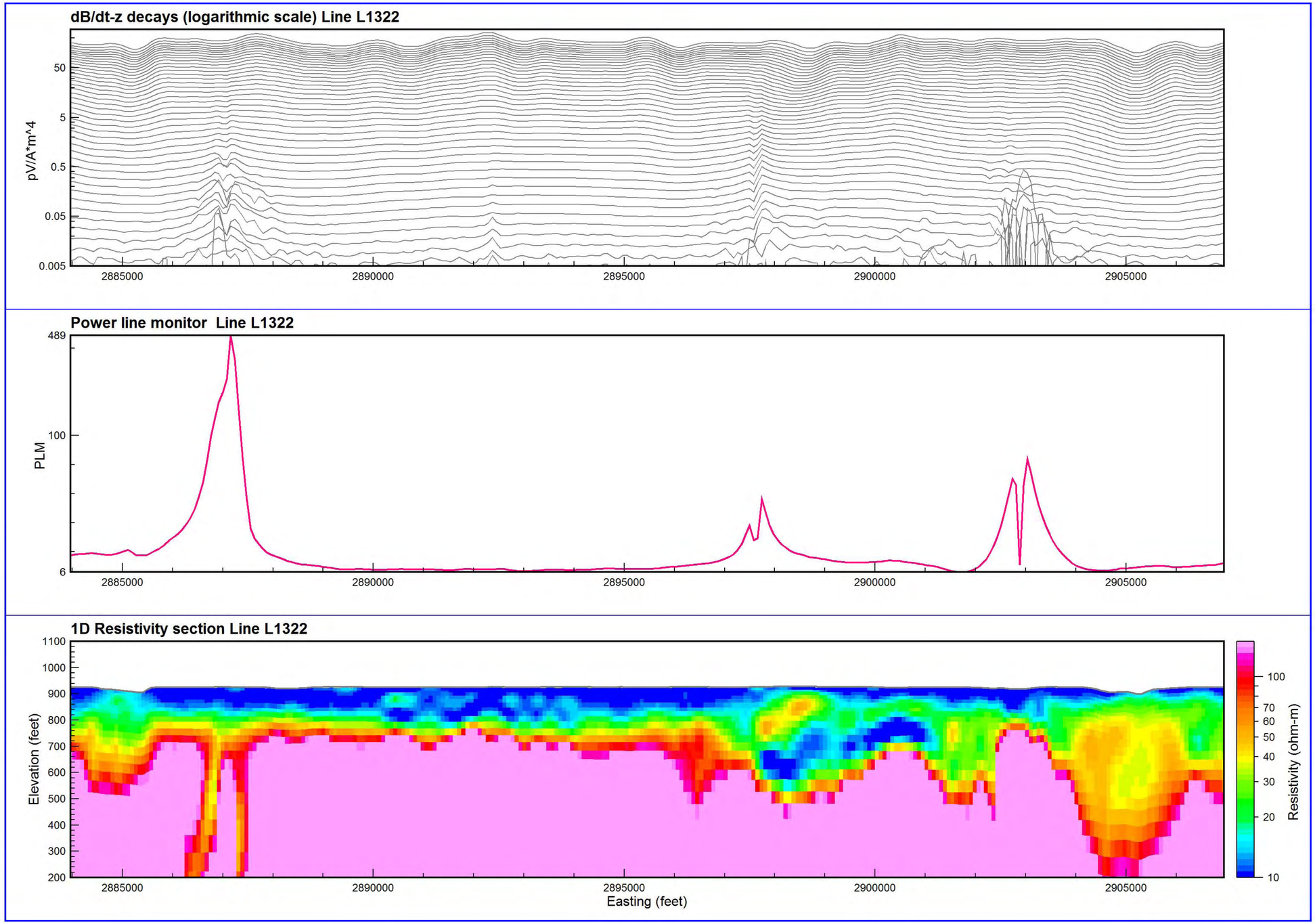

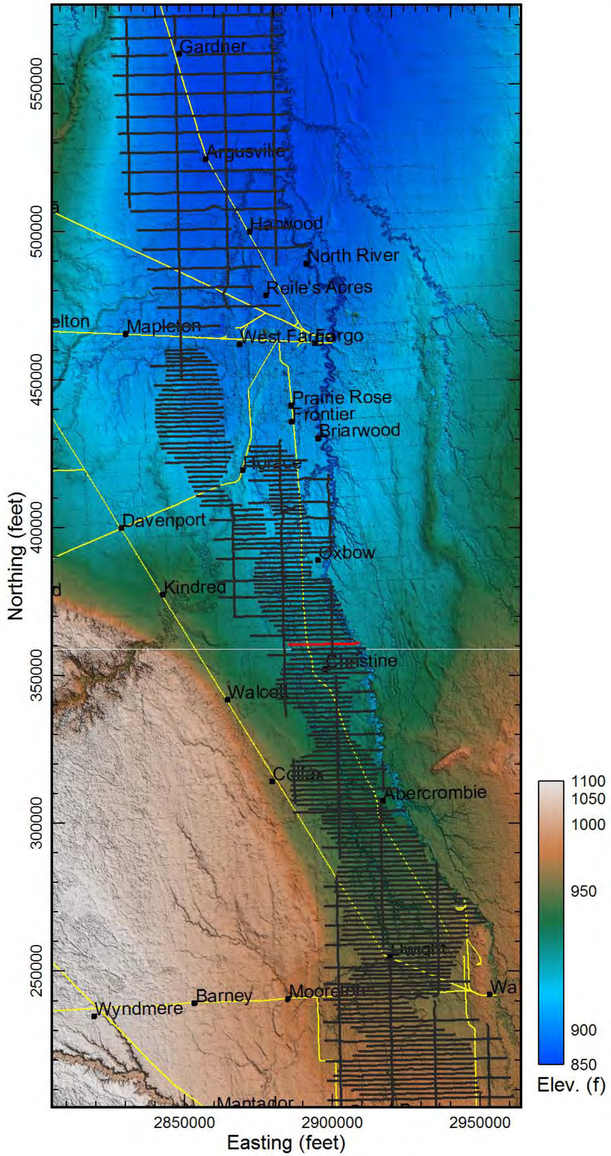

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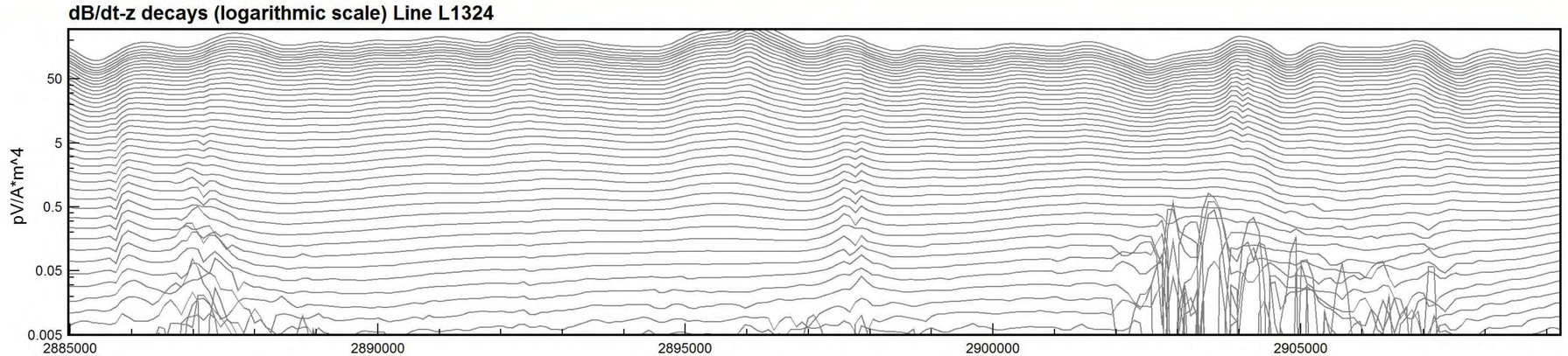

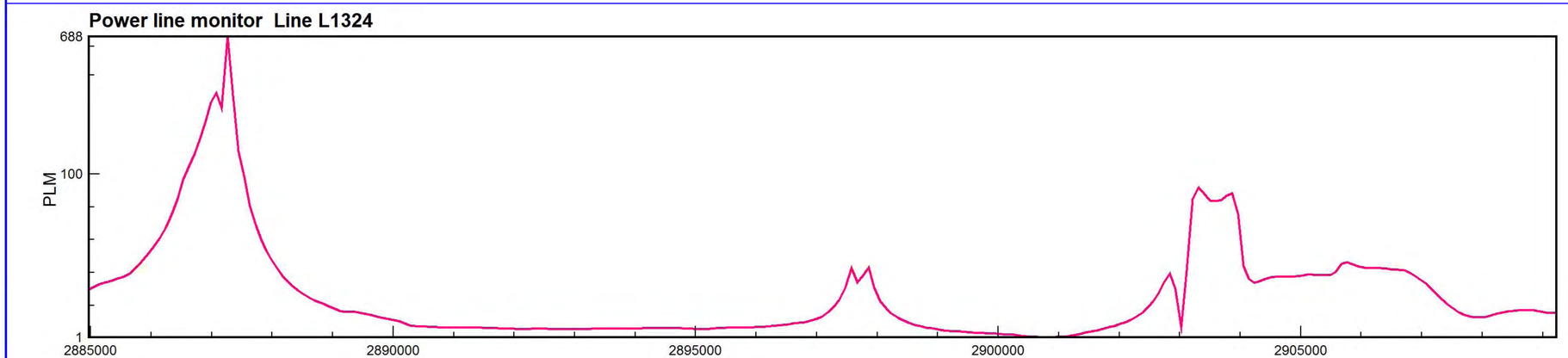

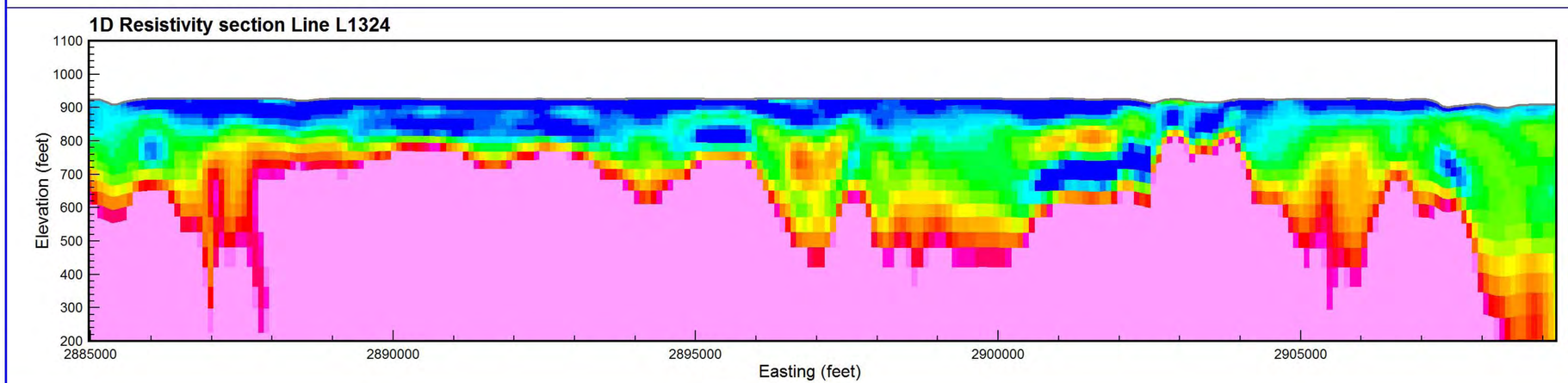

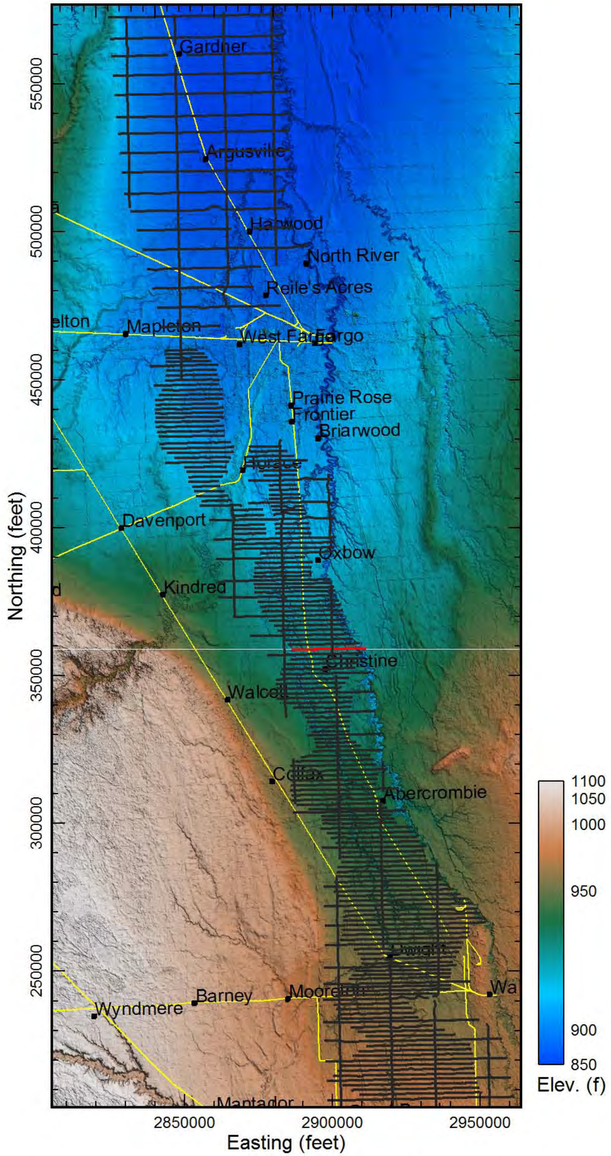

Map projection: NAD83 SPN Dakota South (int. feet)

Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

Date: Feb. 2, 2018

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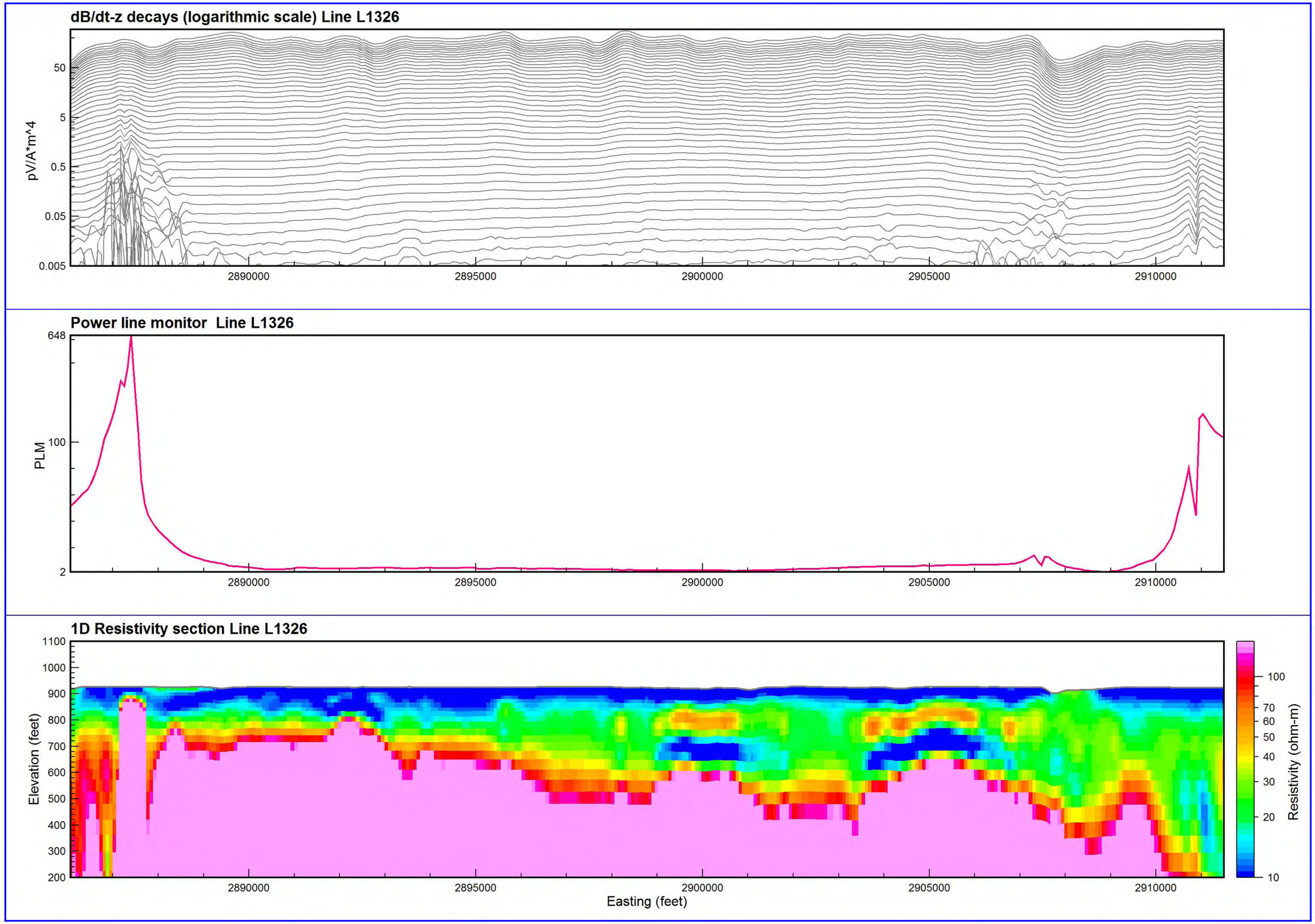

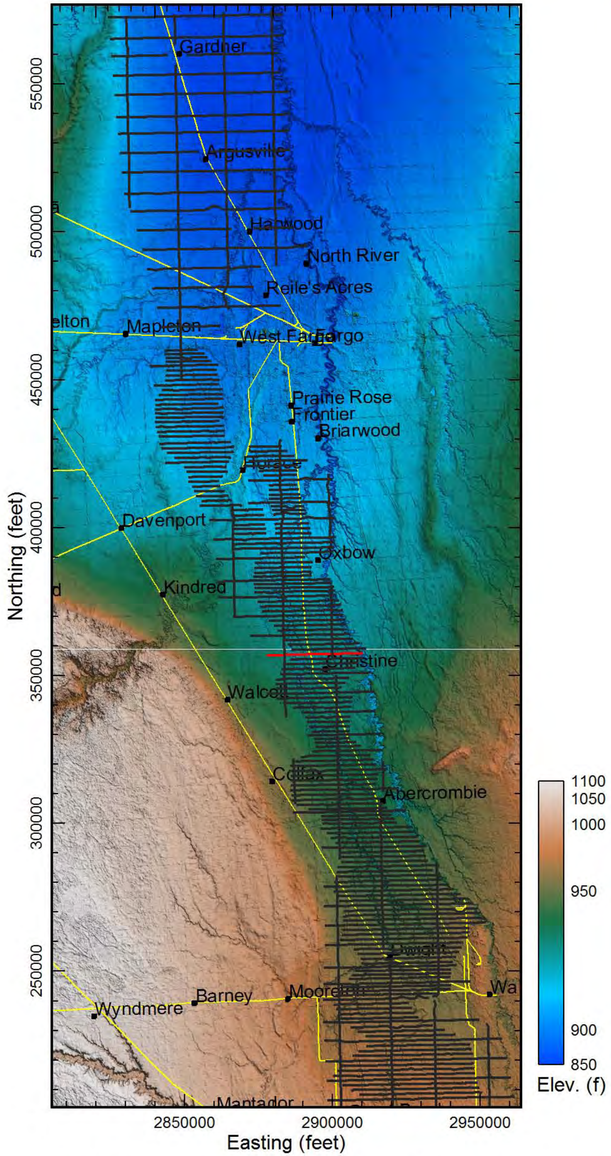

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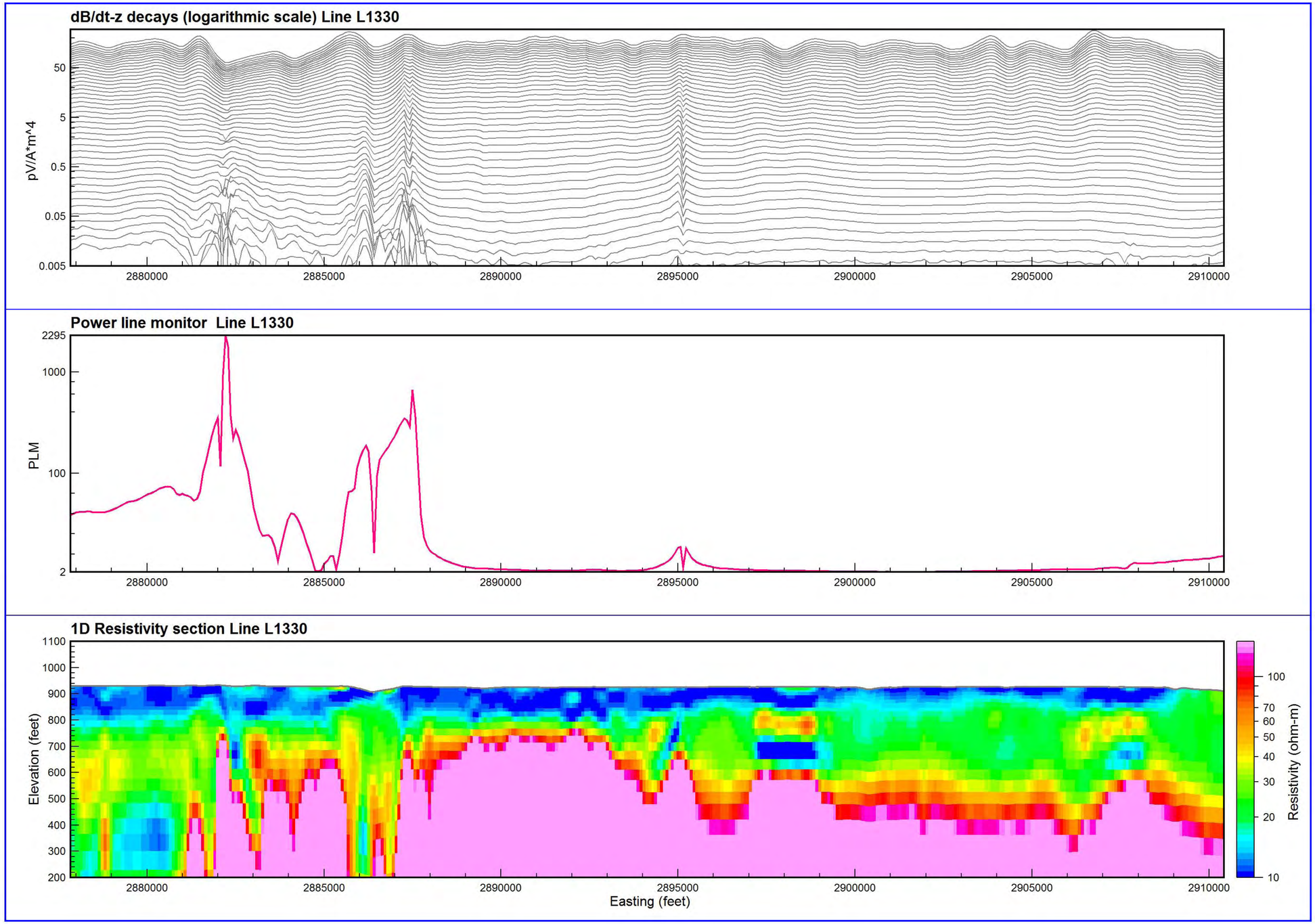

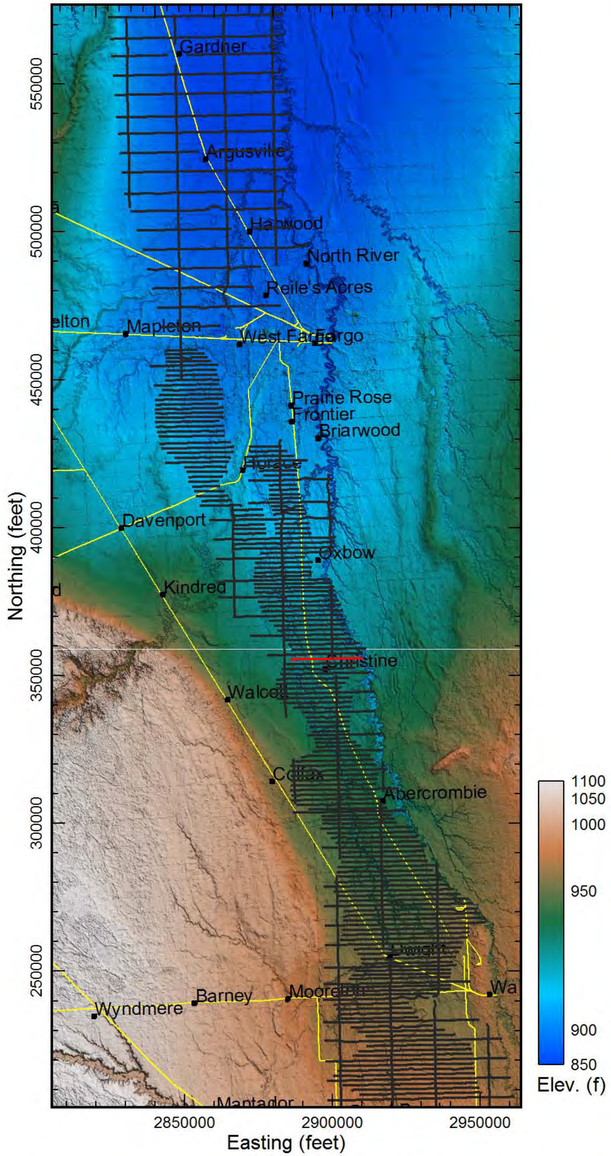

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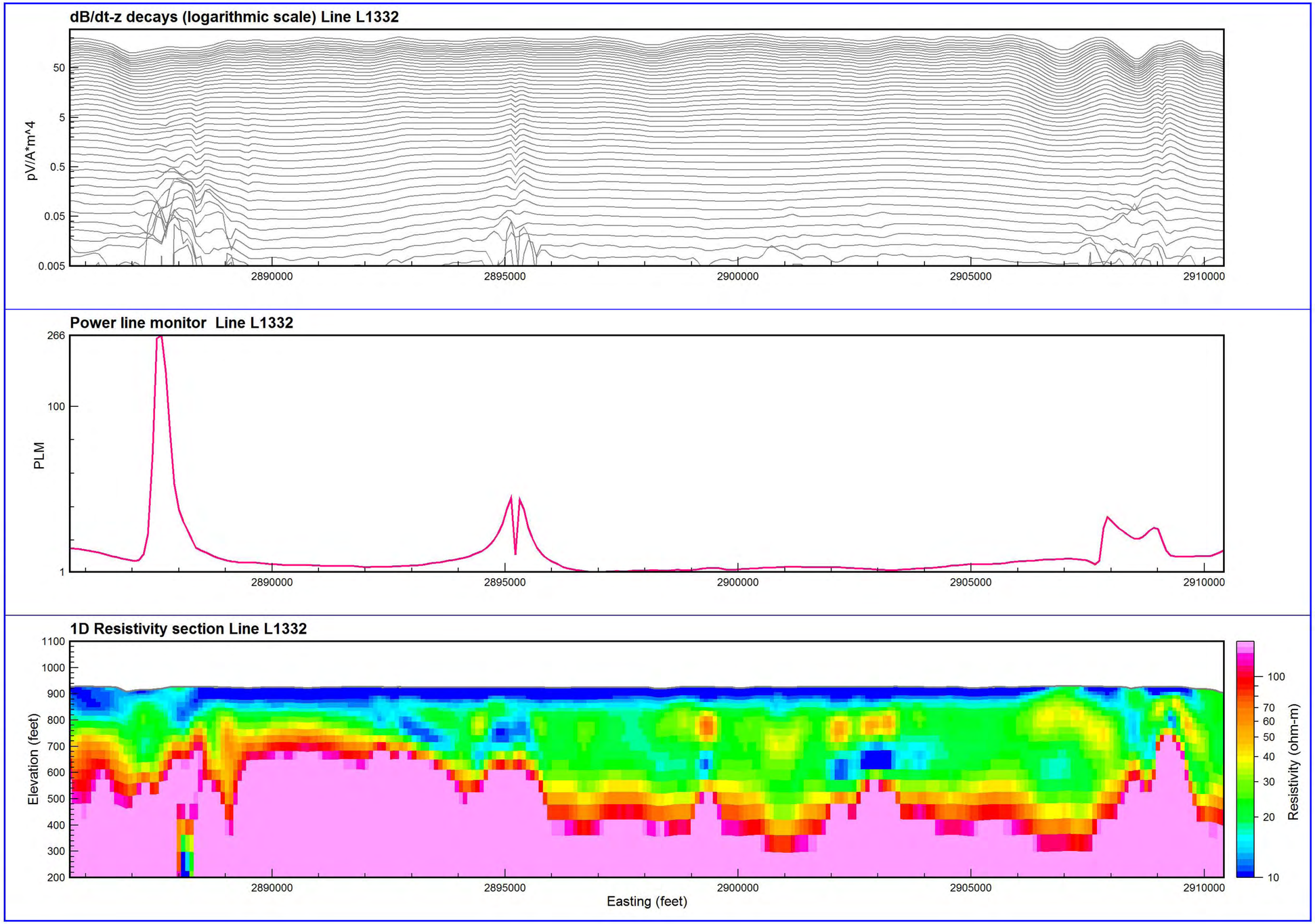

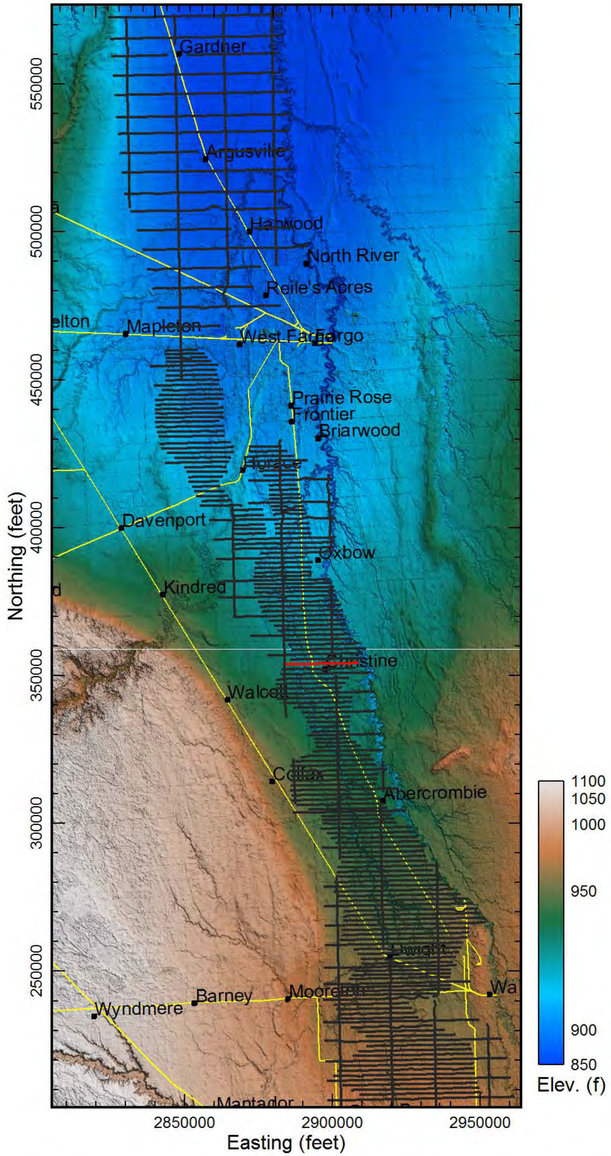

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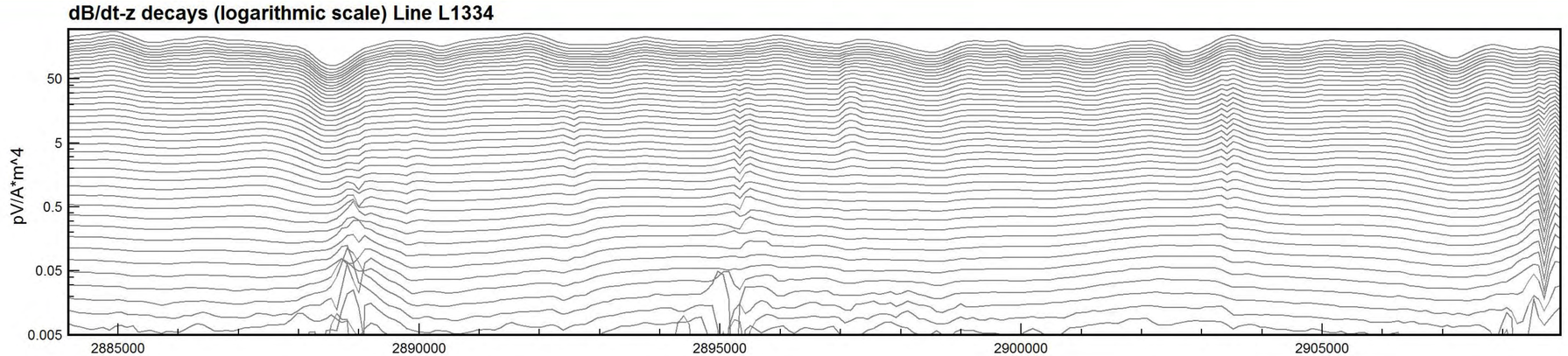

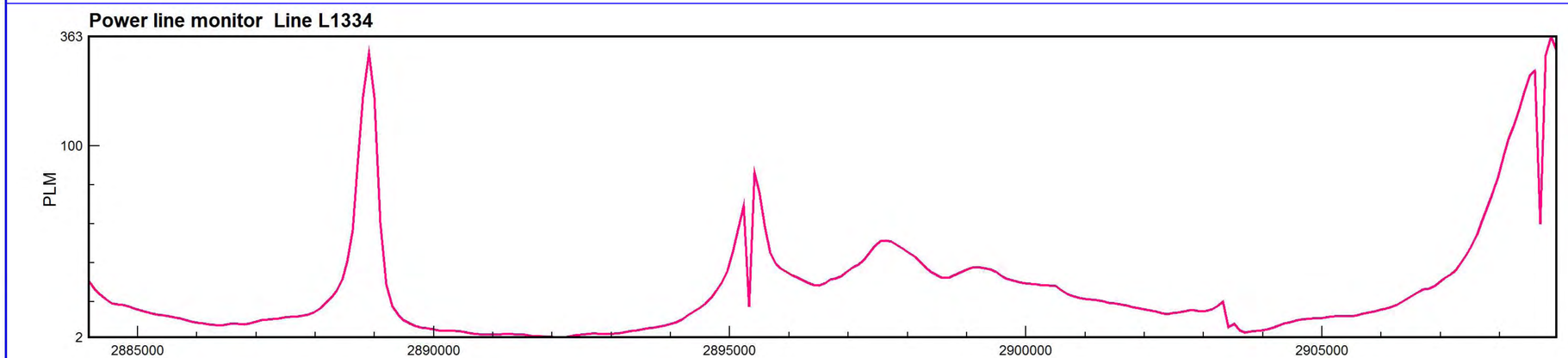

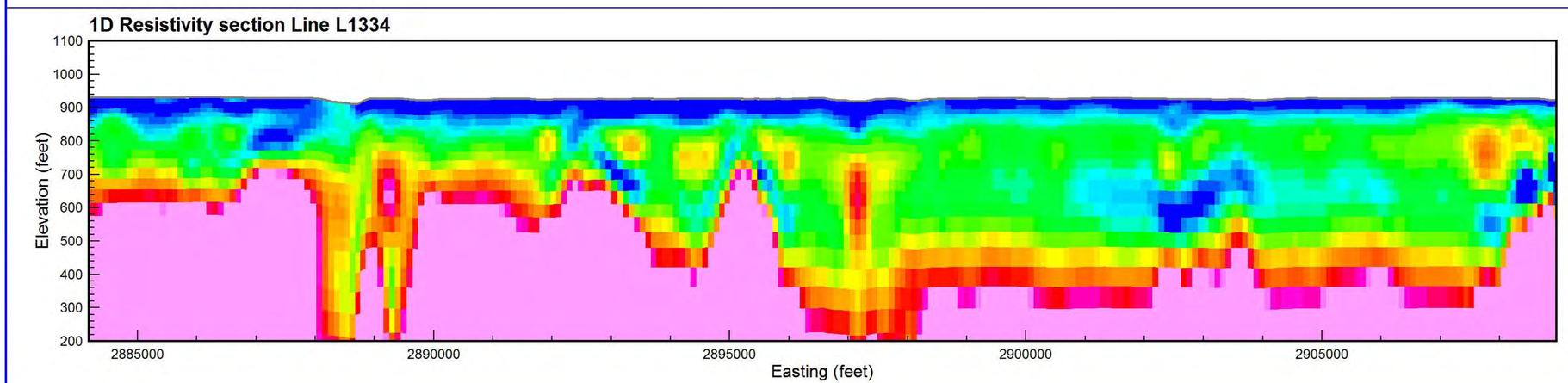

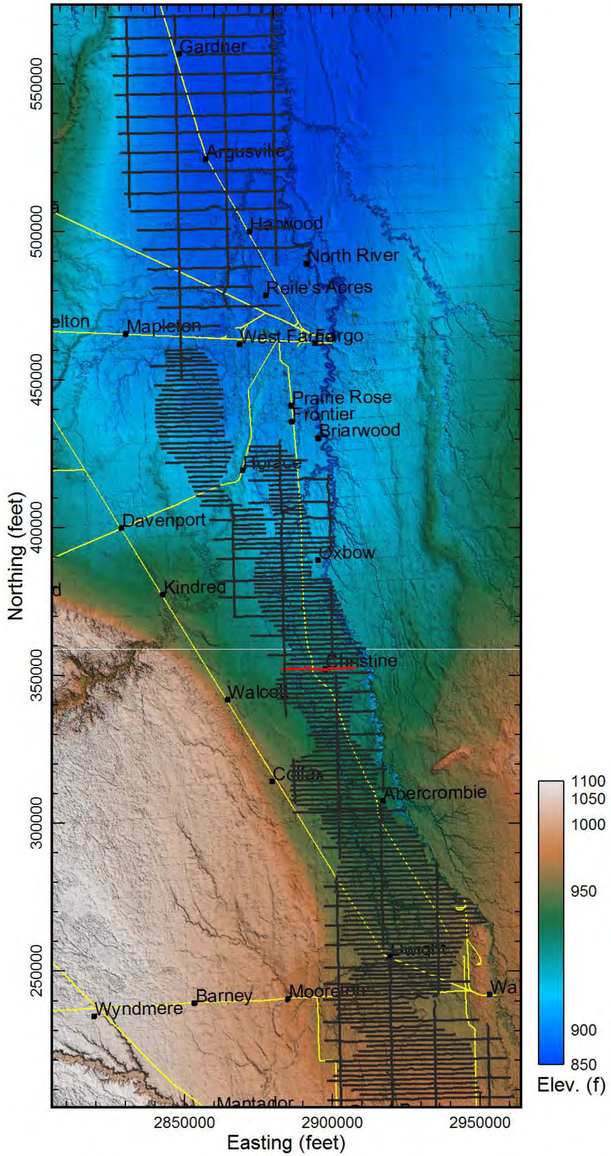

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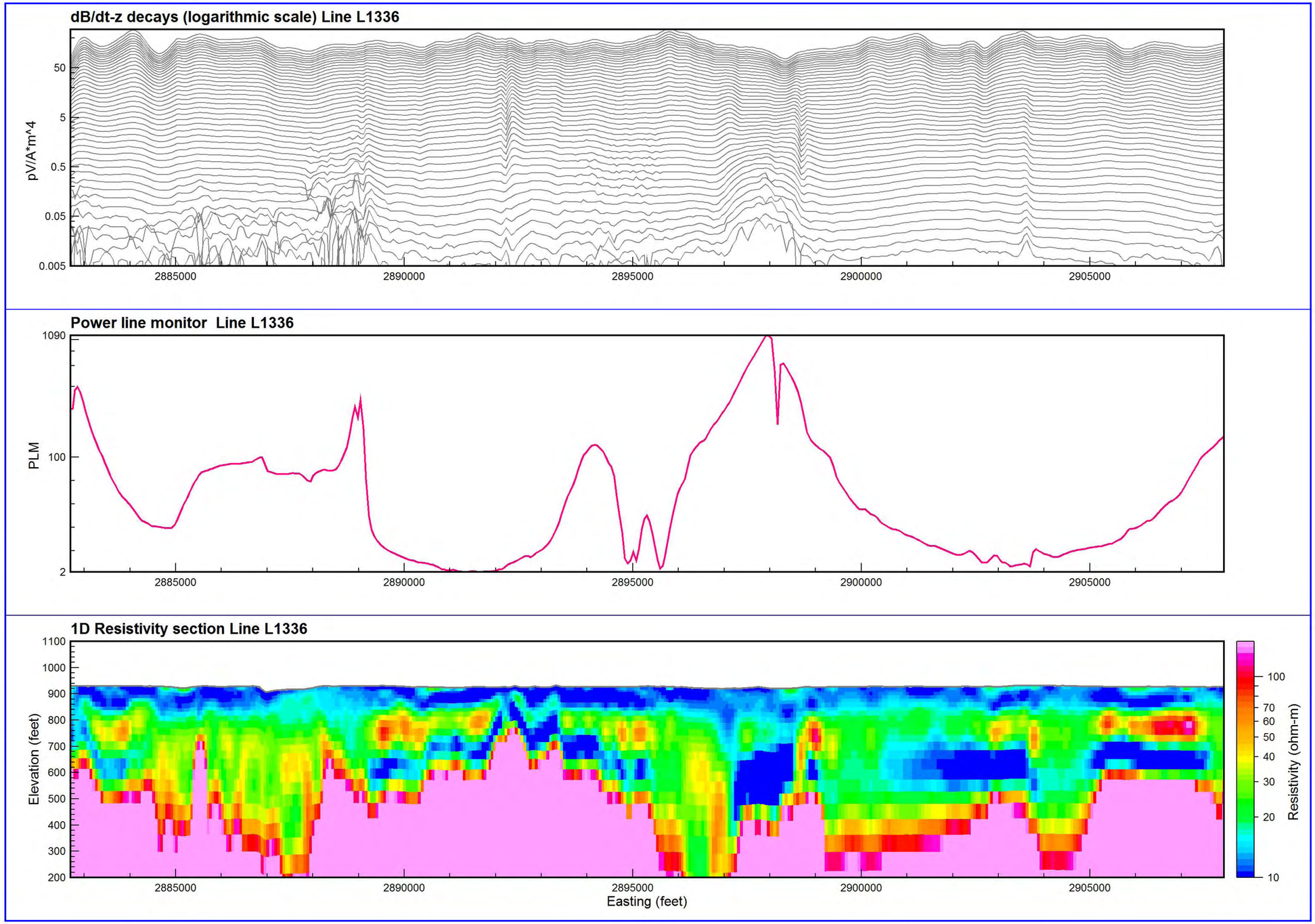

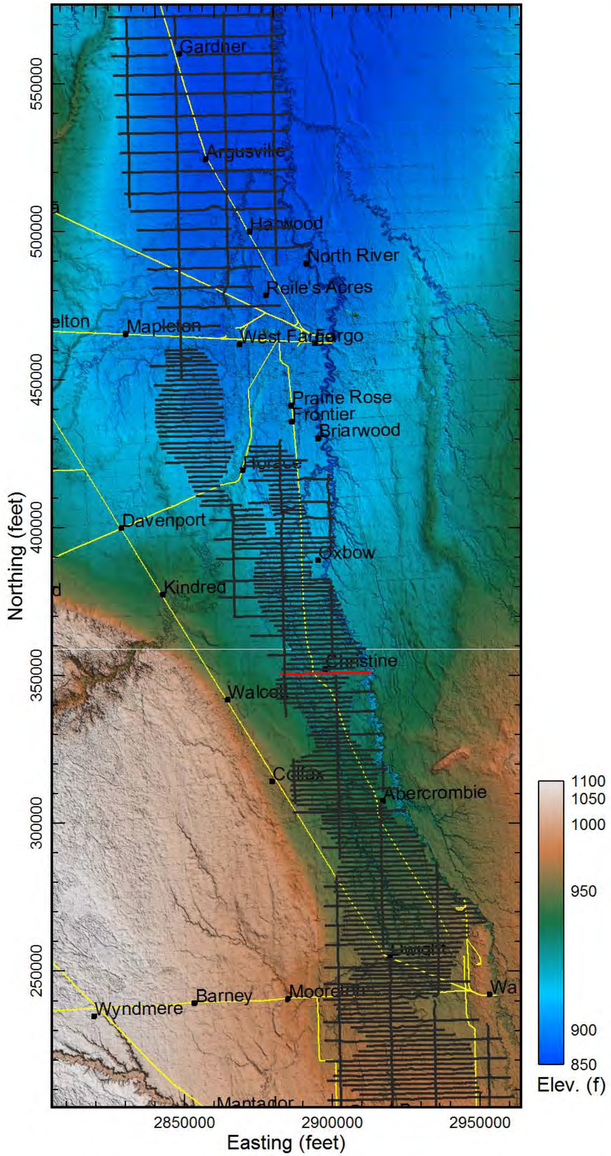

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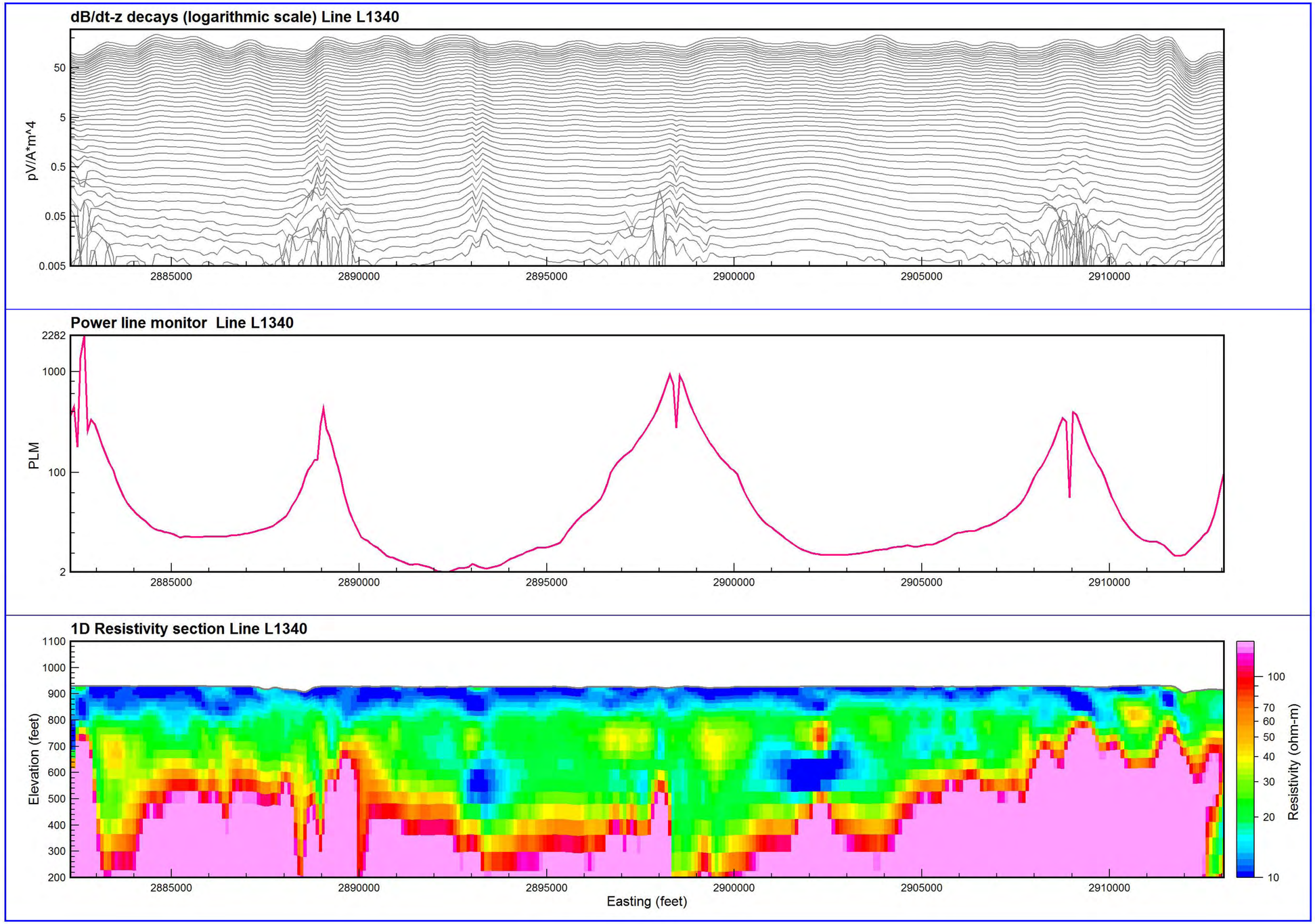

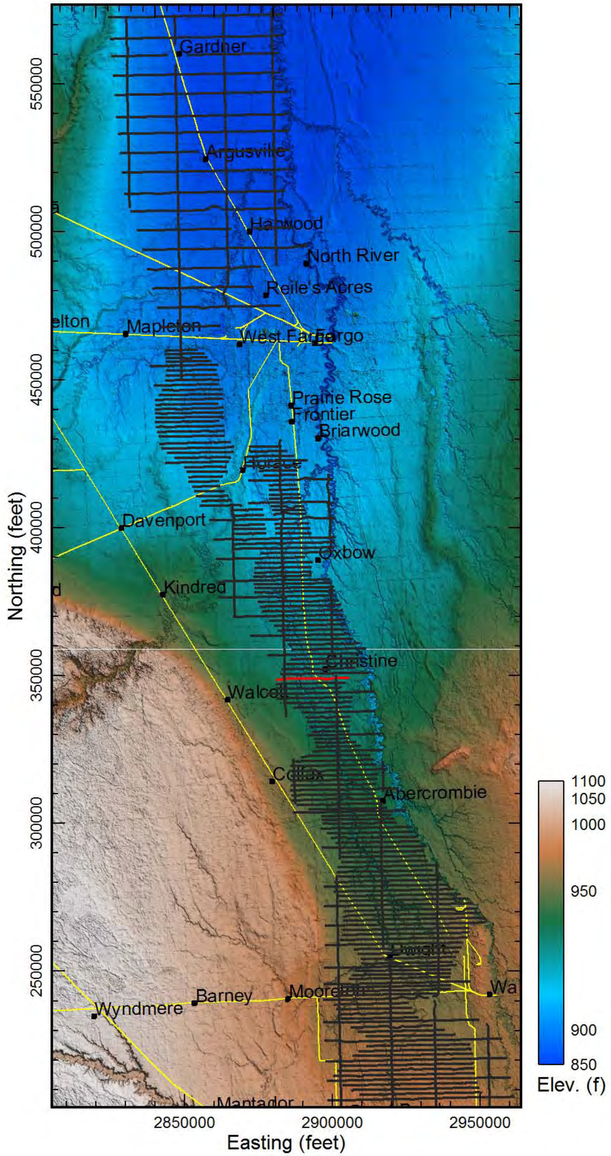

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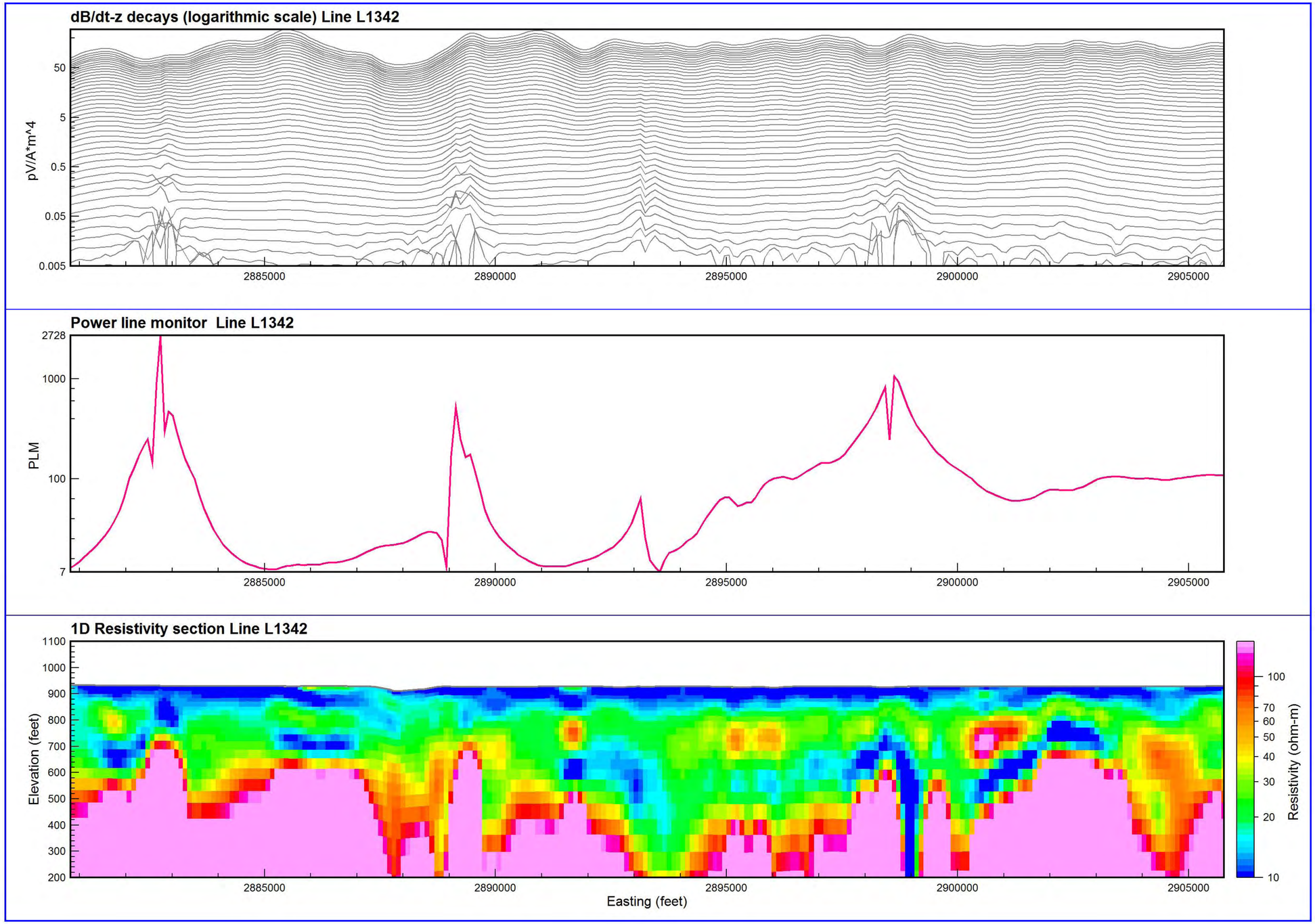

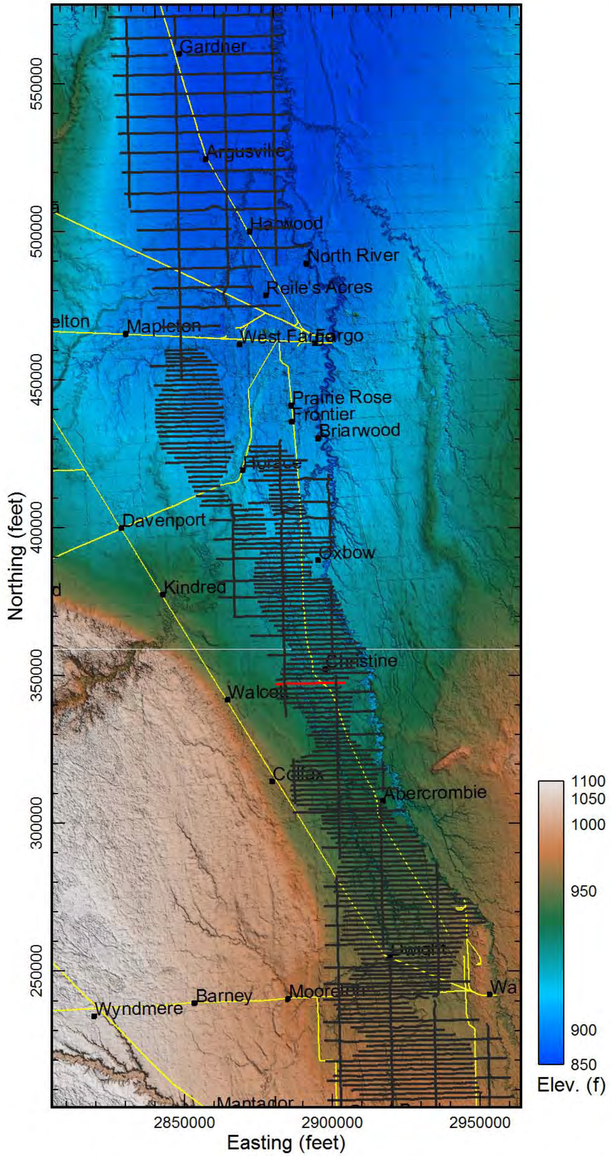

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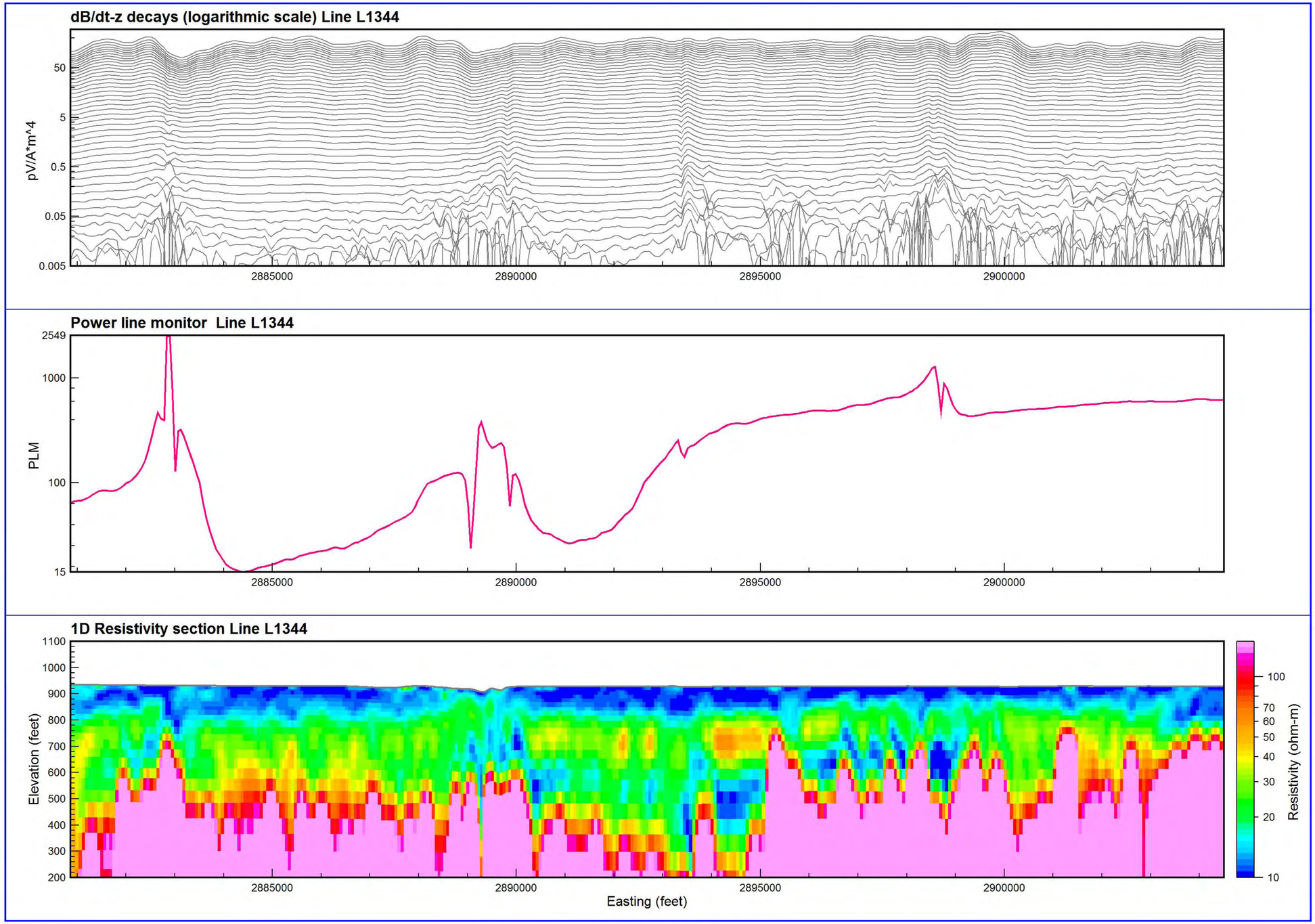

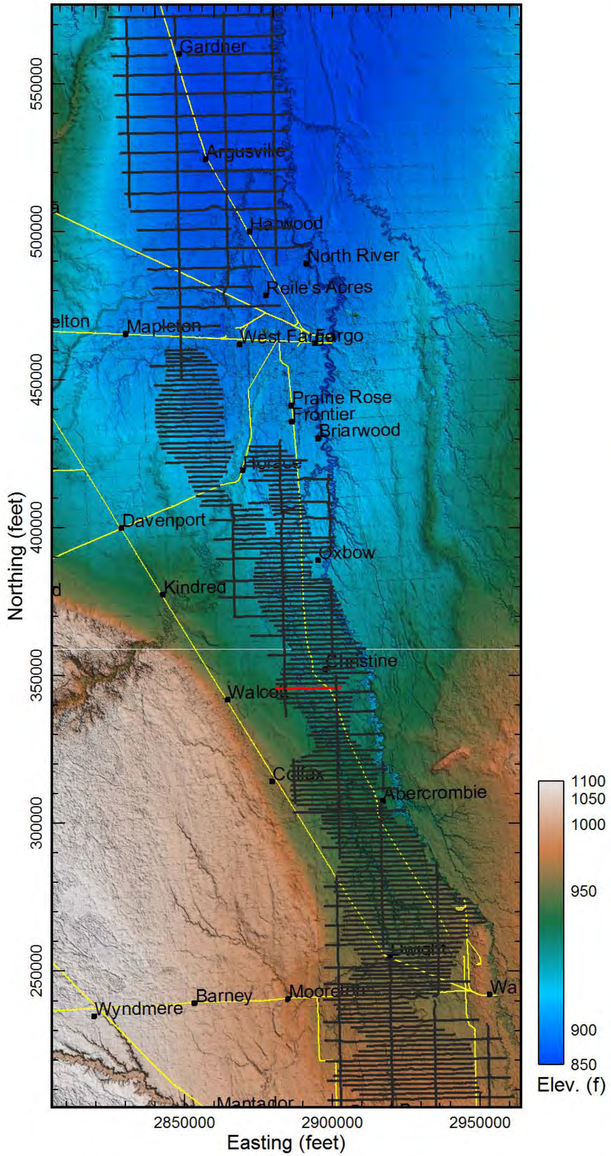

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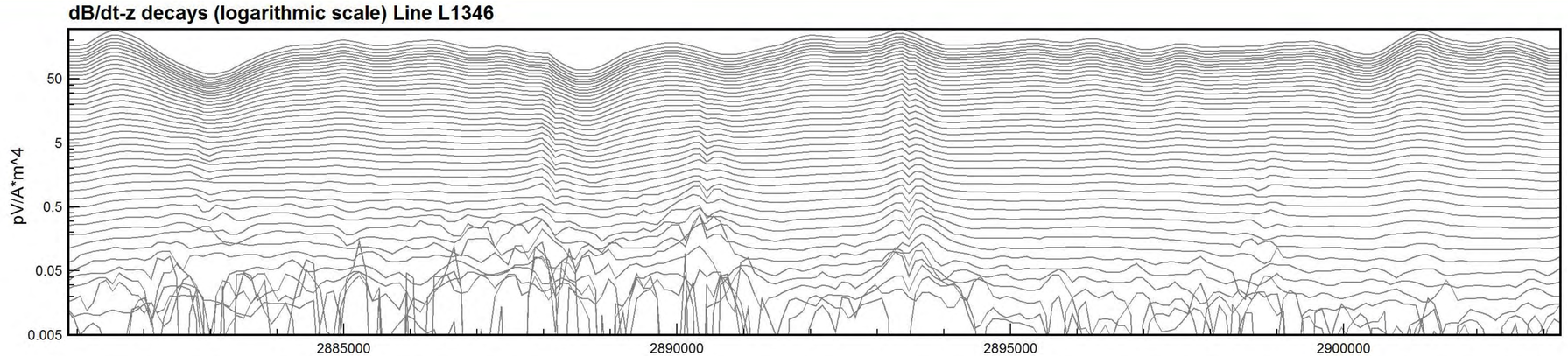

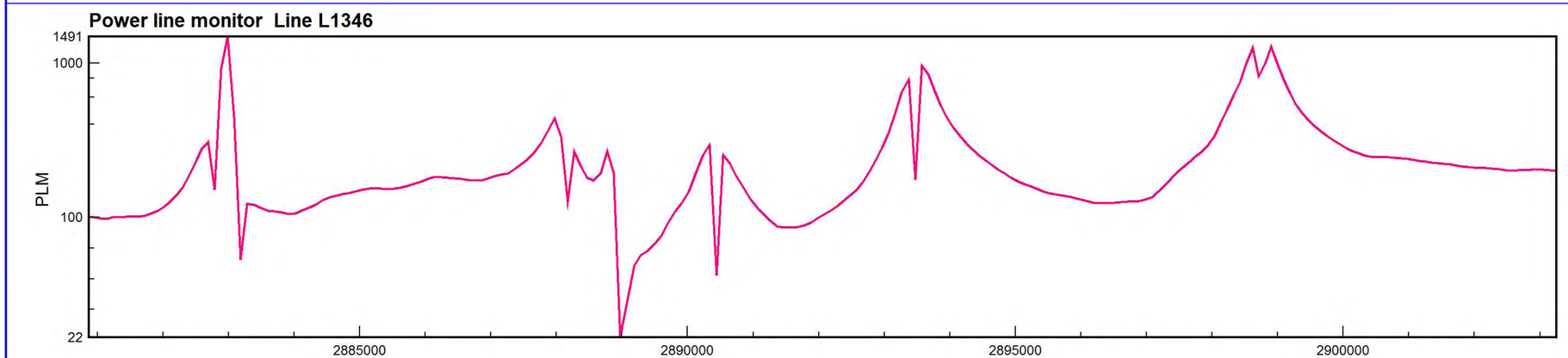

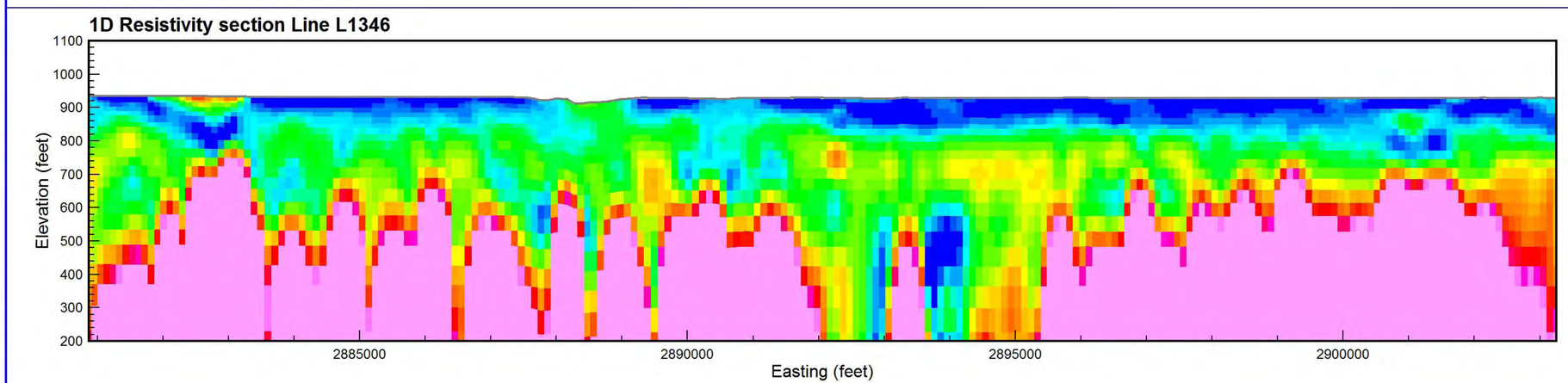

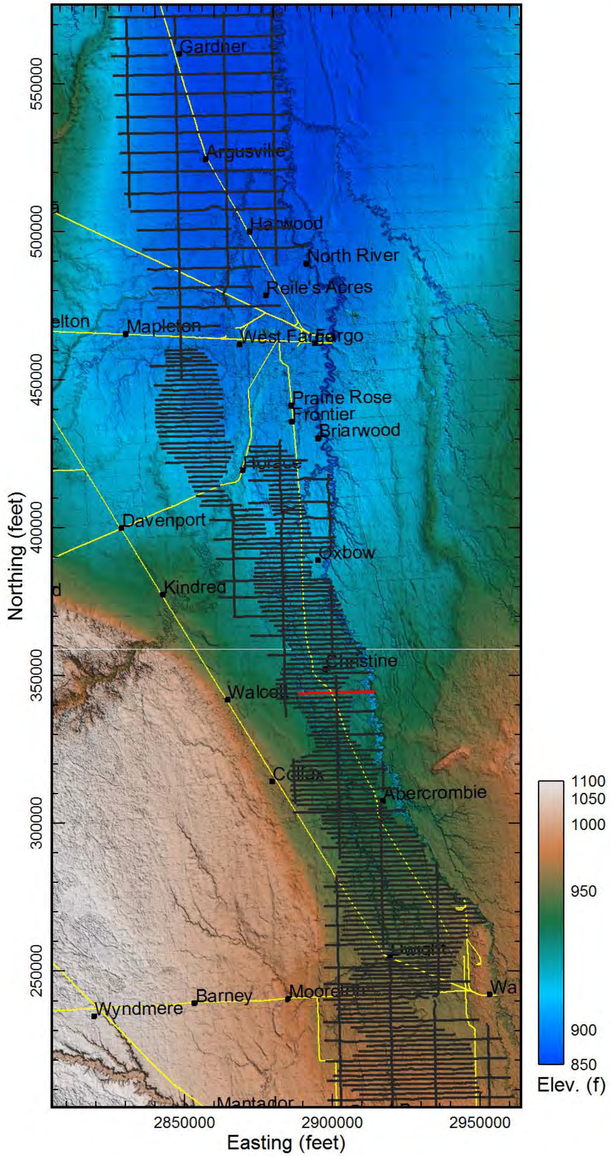

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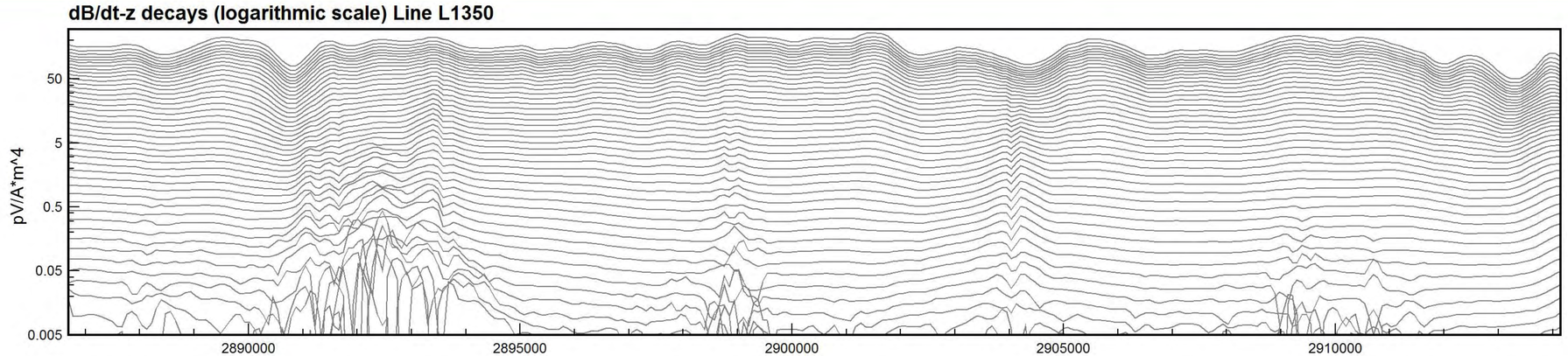

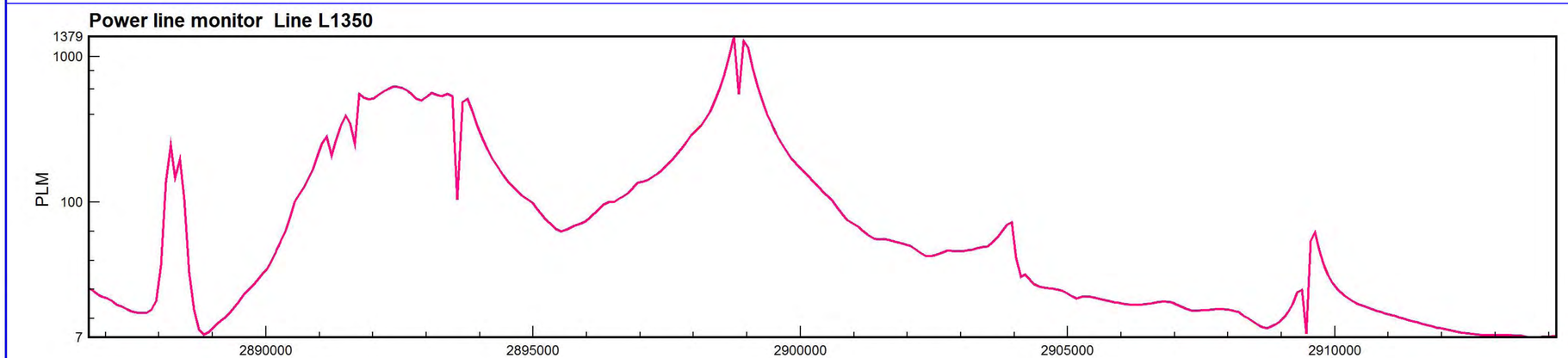

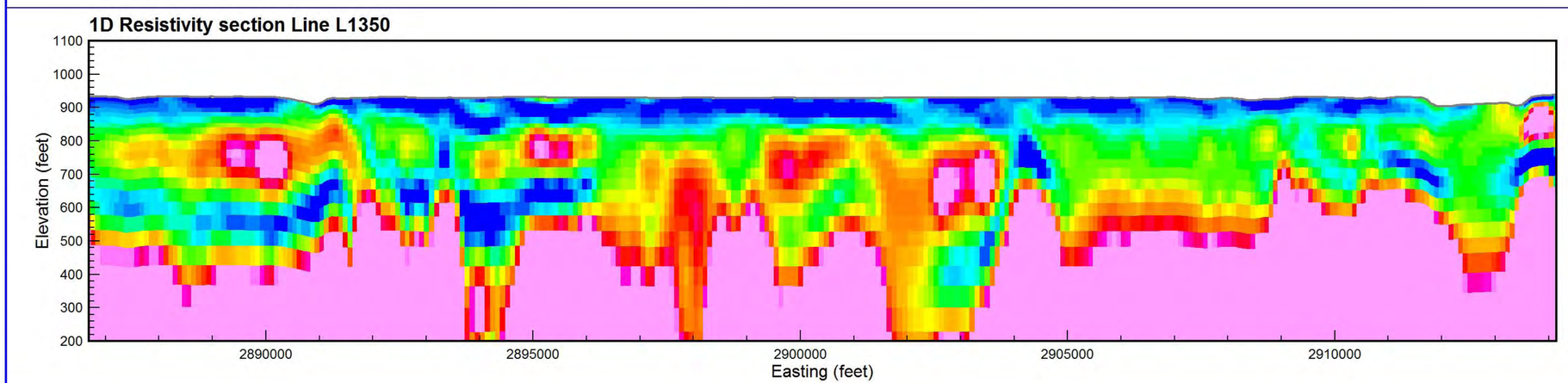

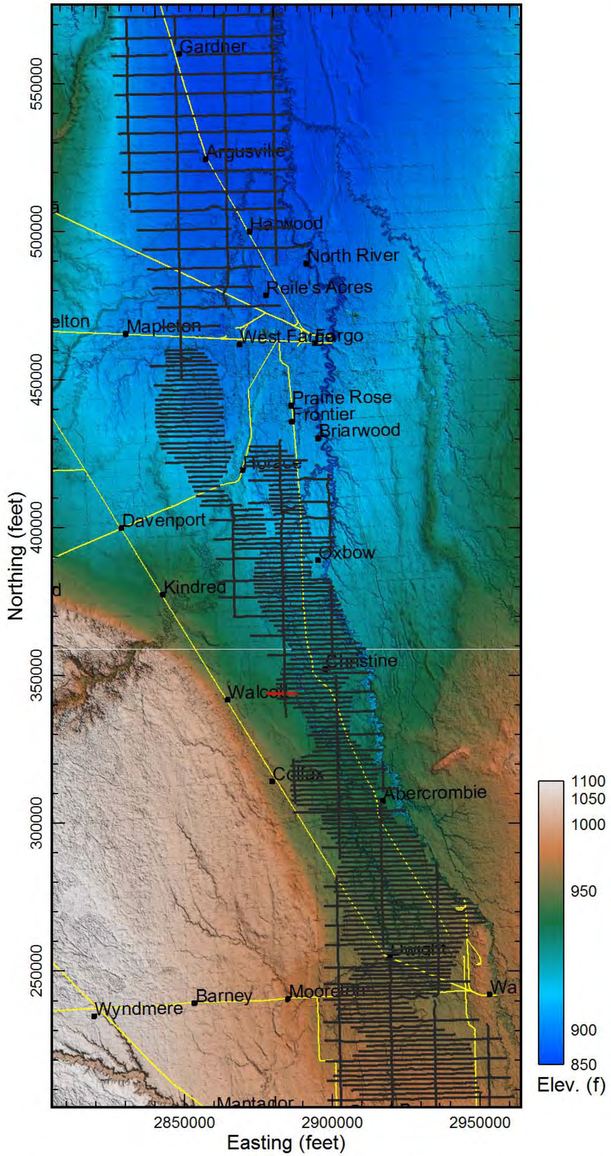

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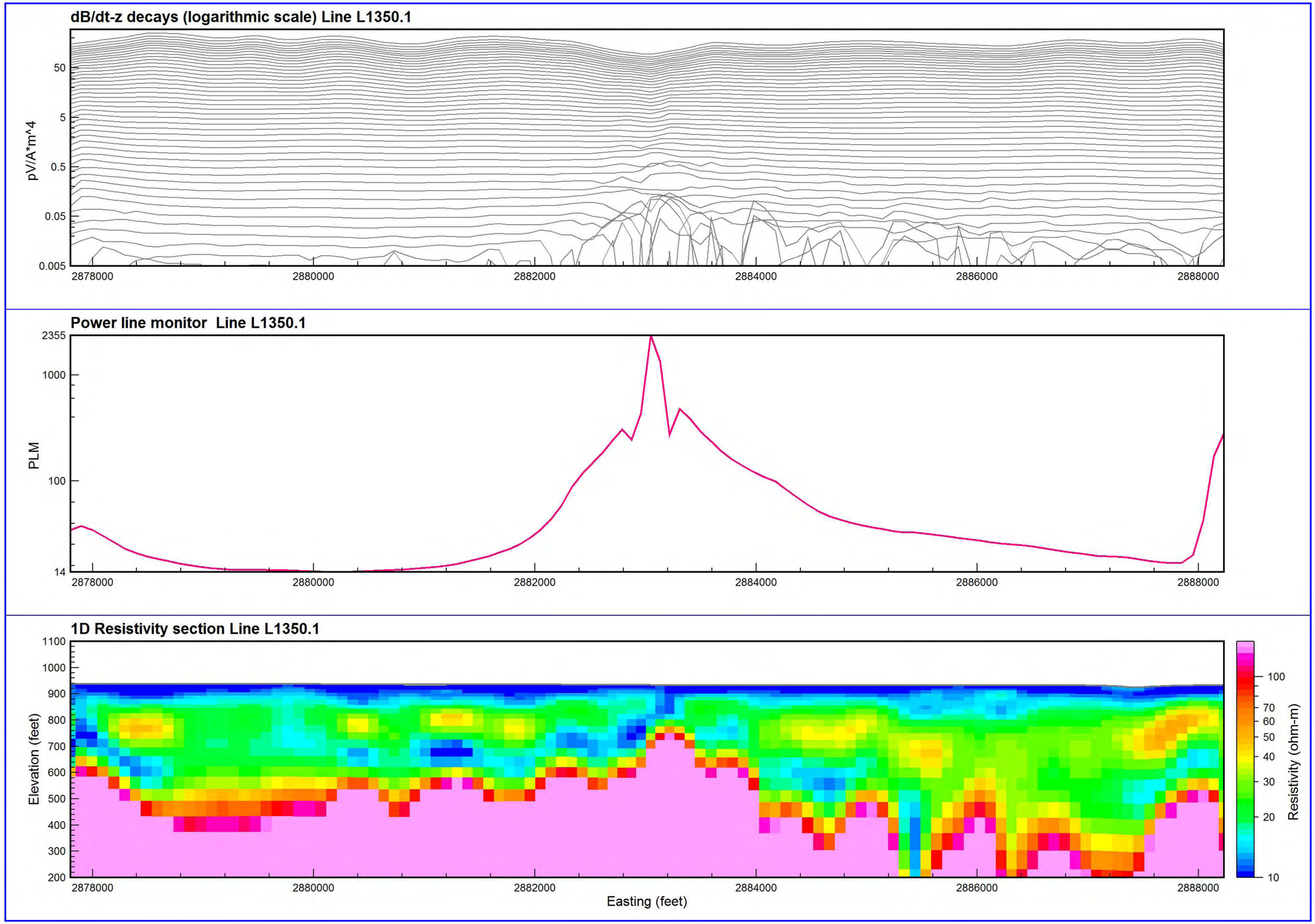

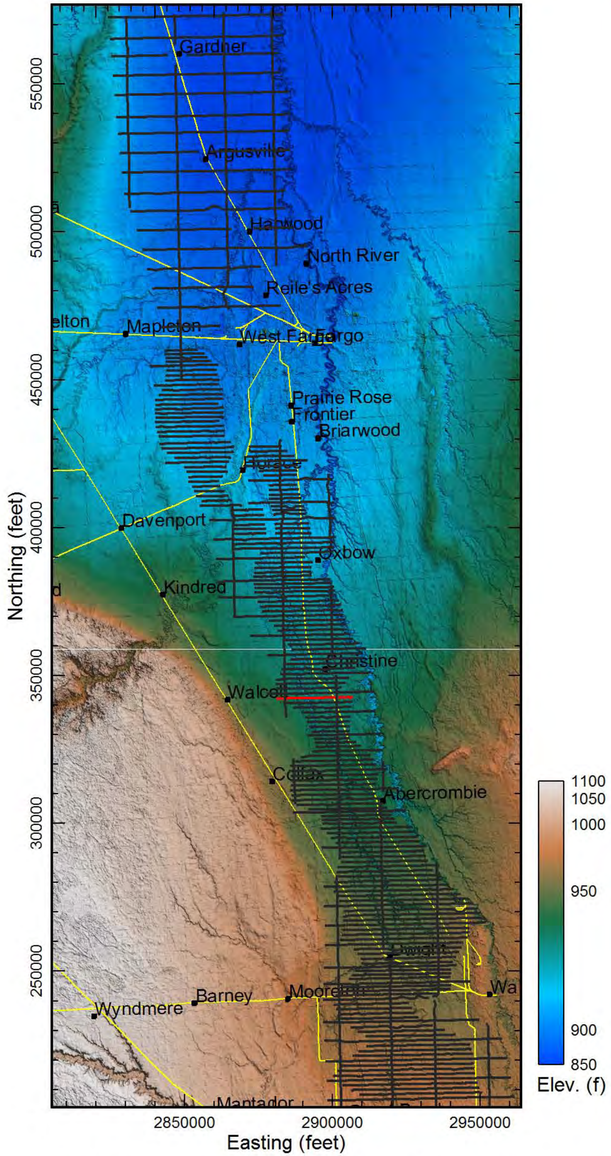

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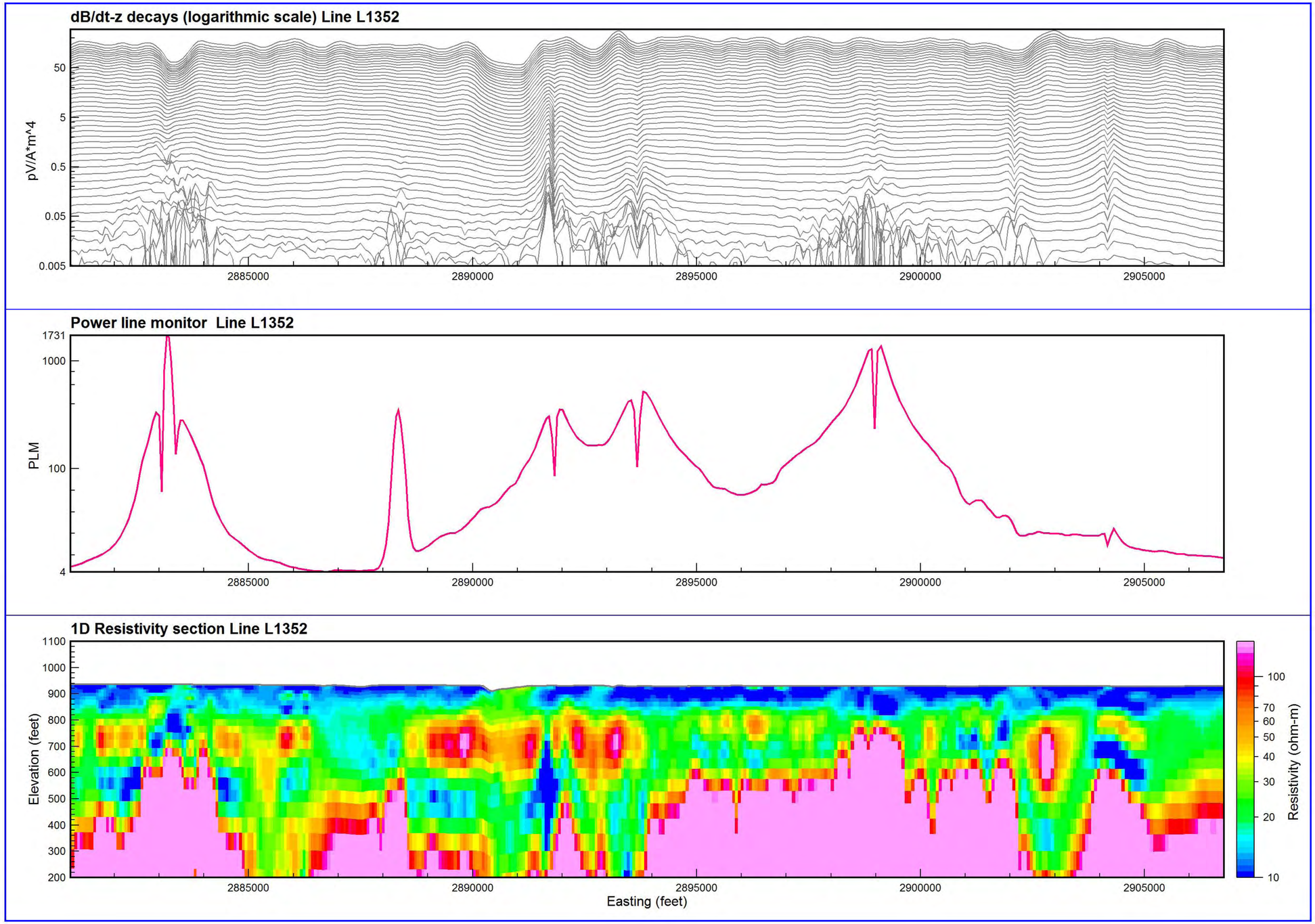

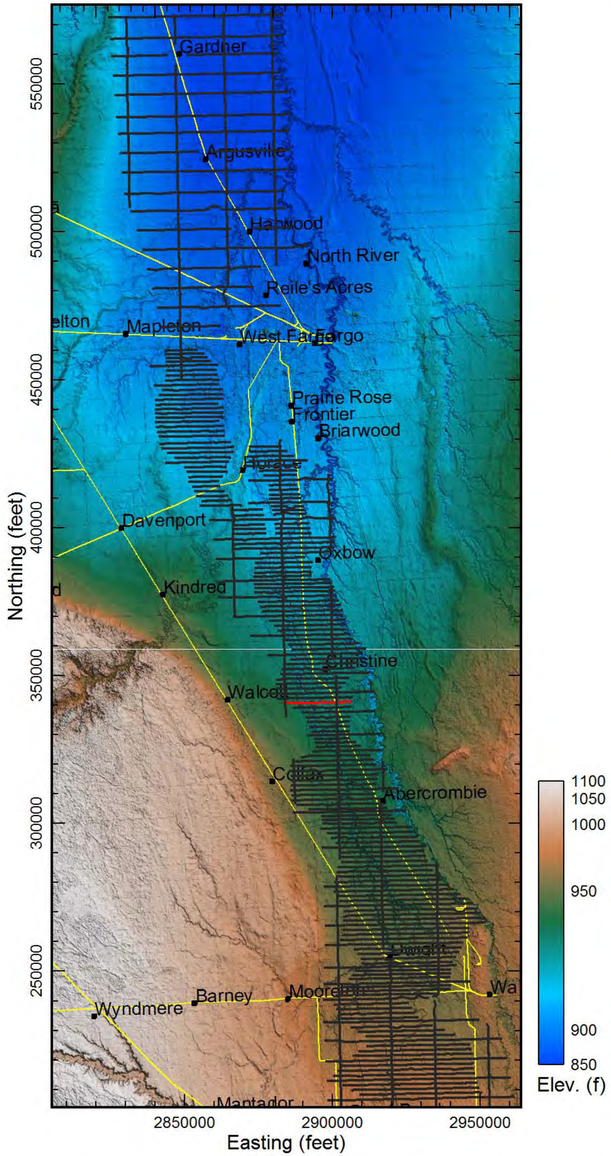

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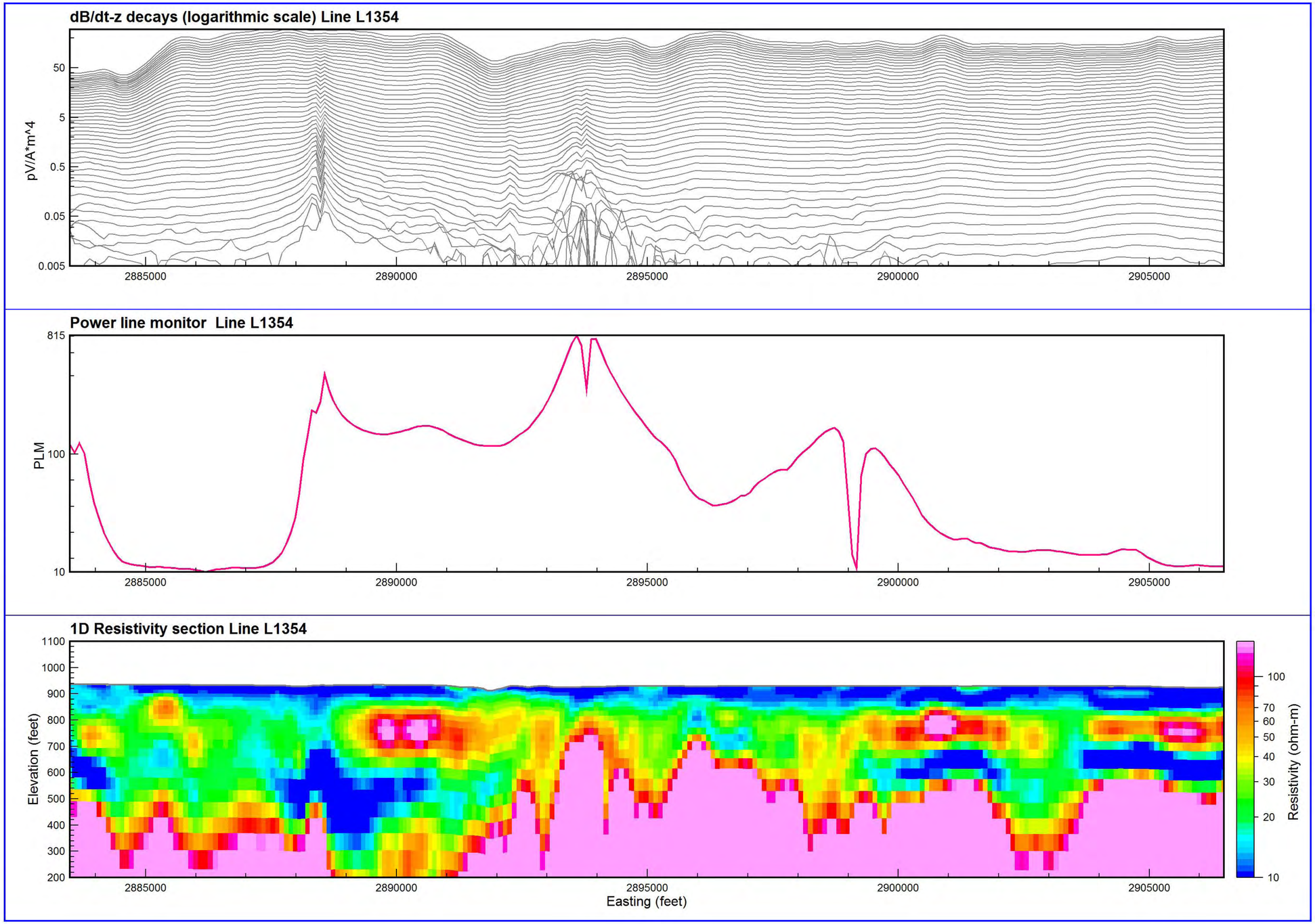

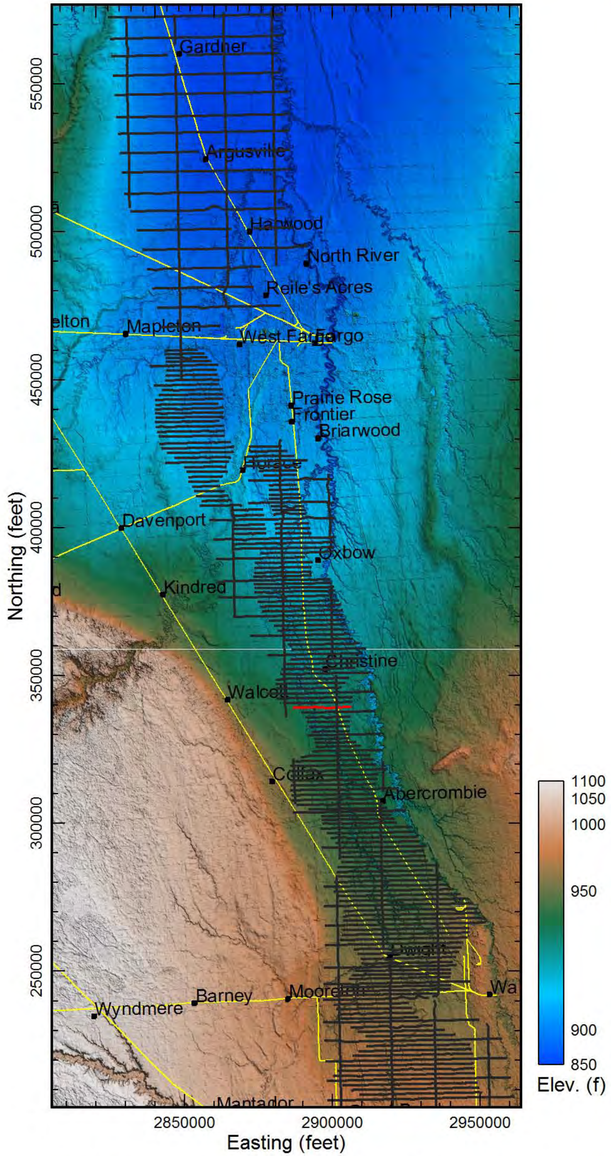

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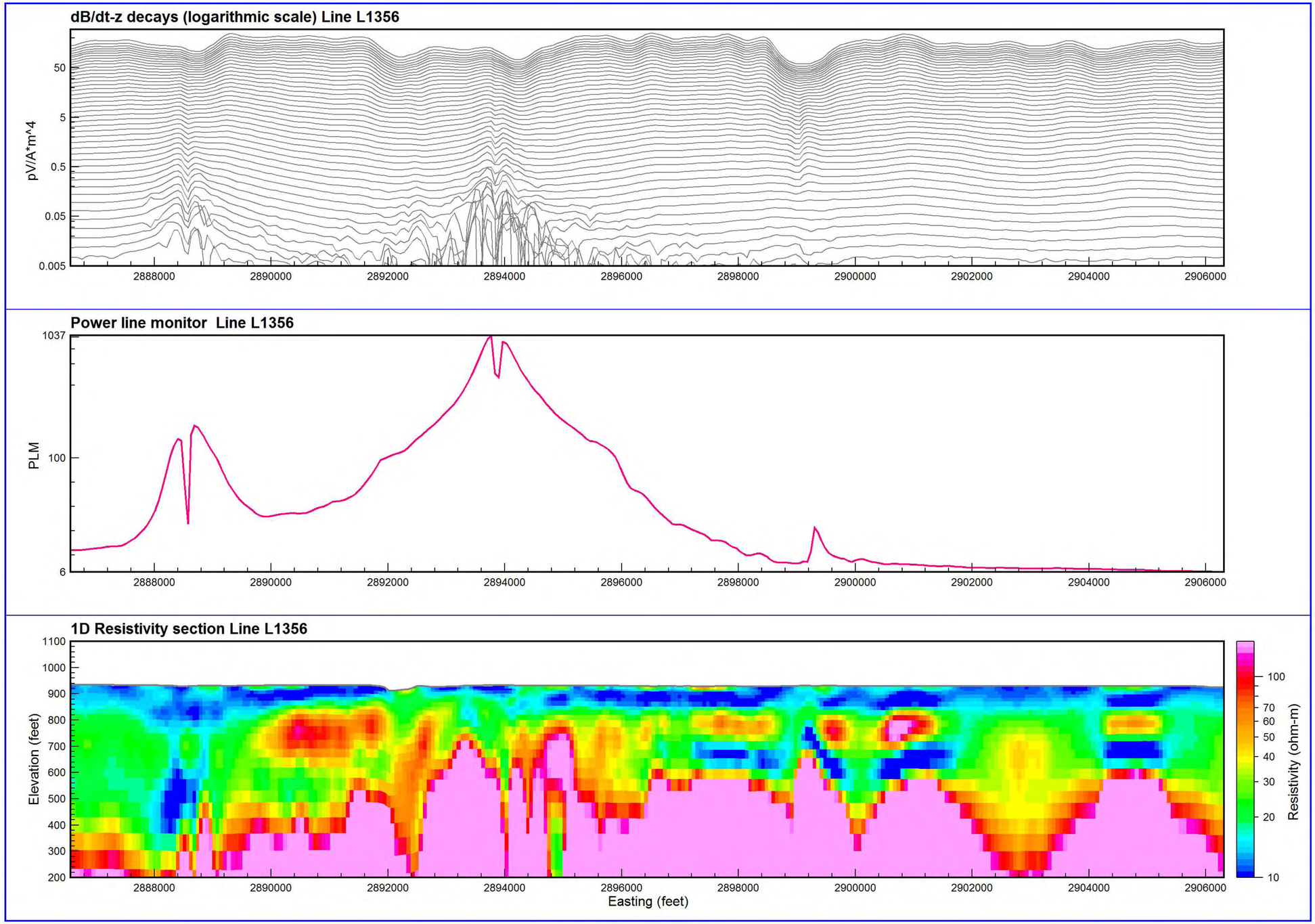

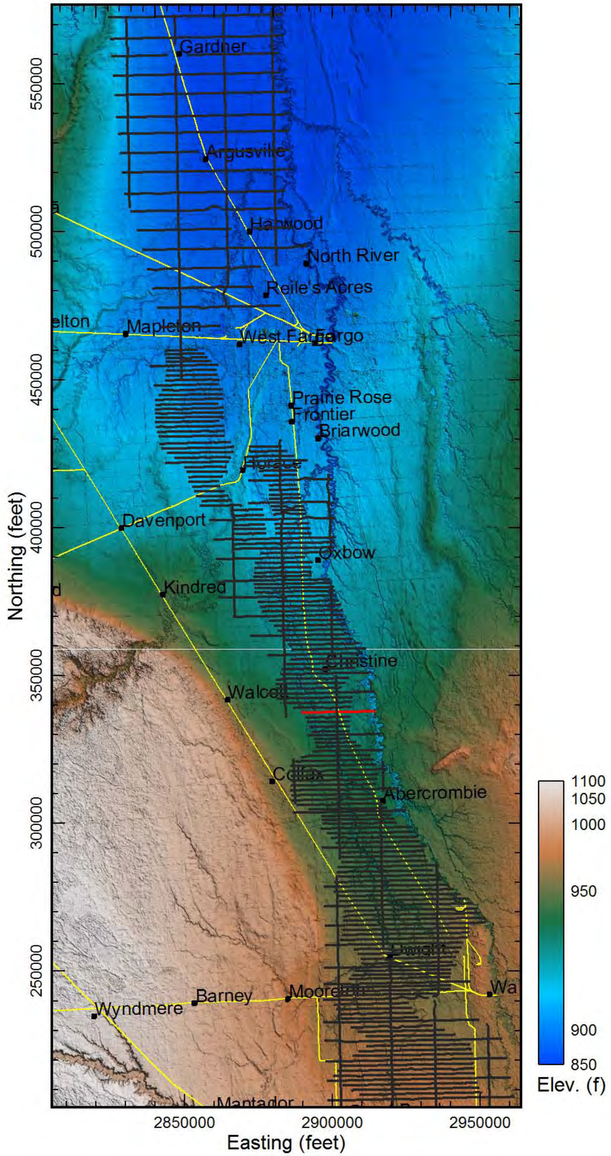

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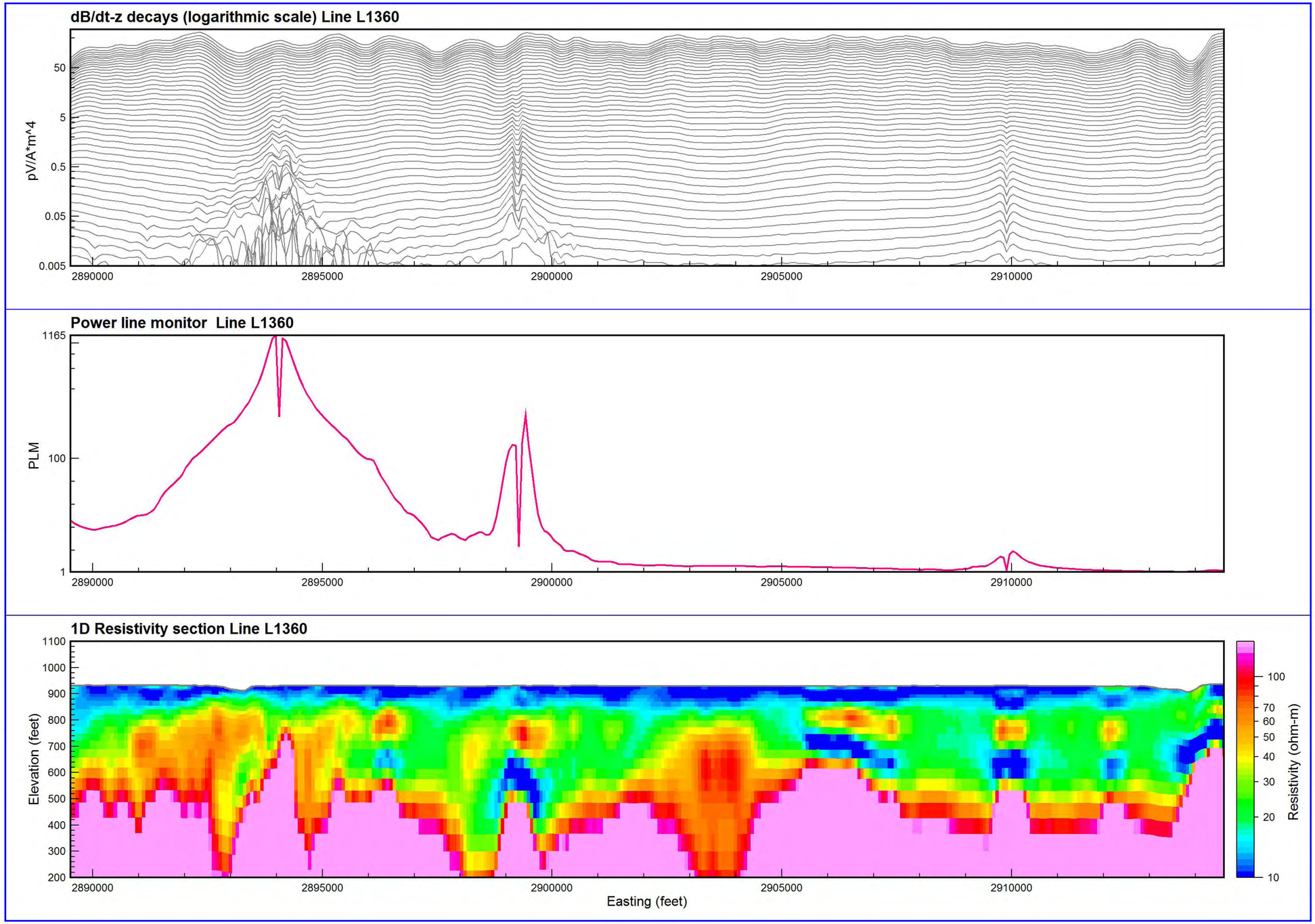

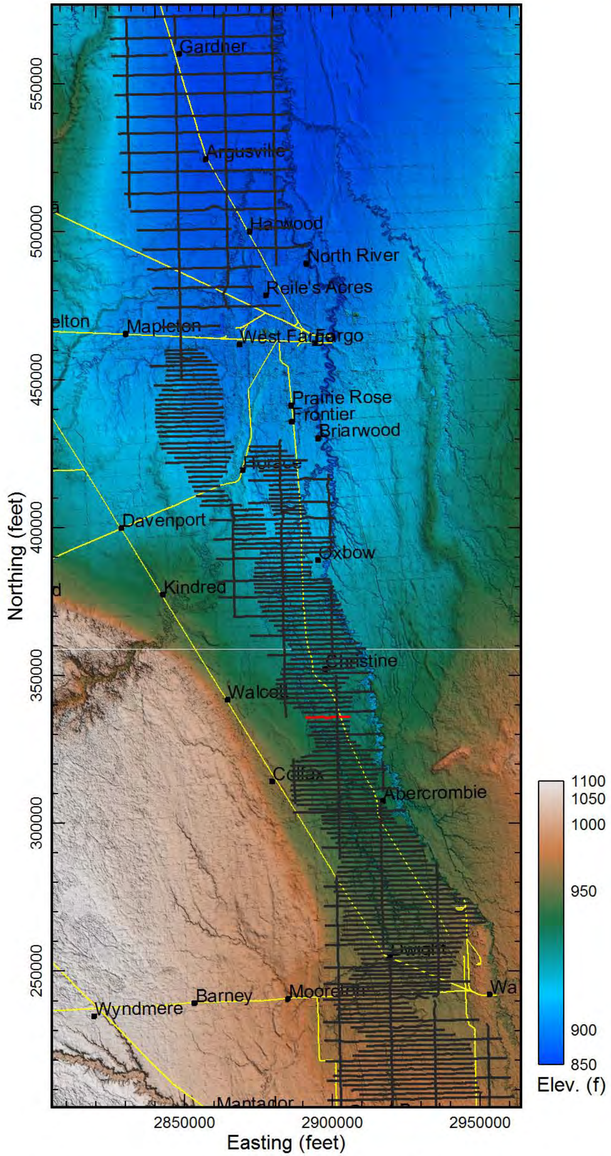

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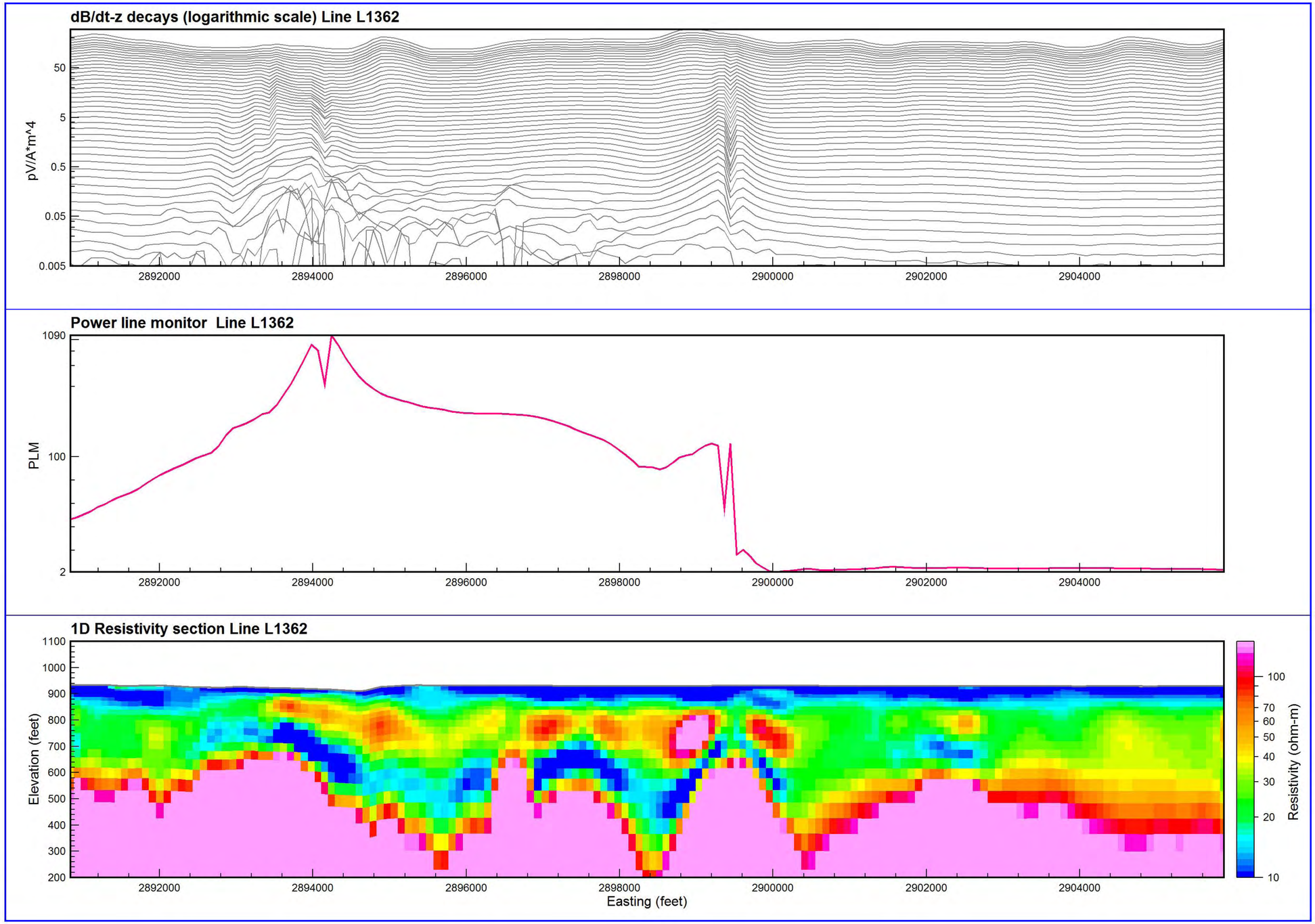

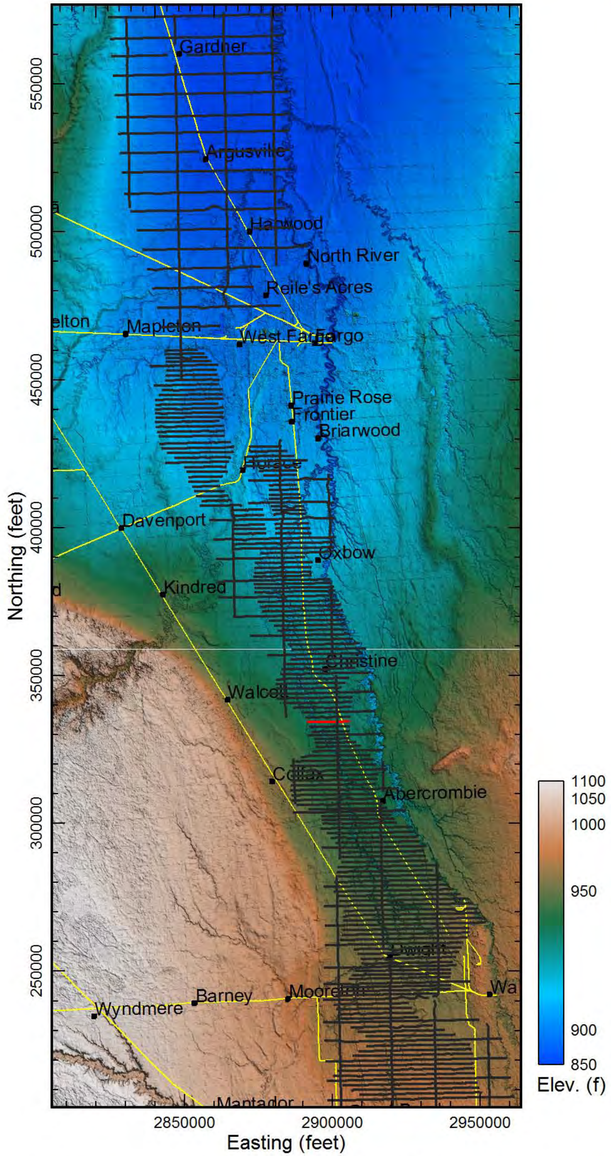

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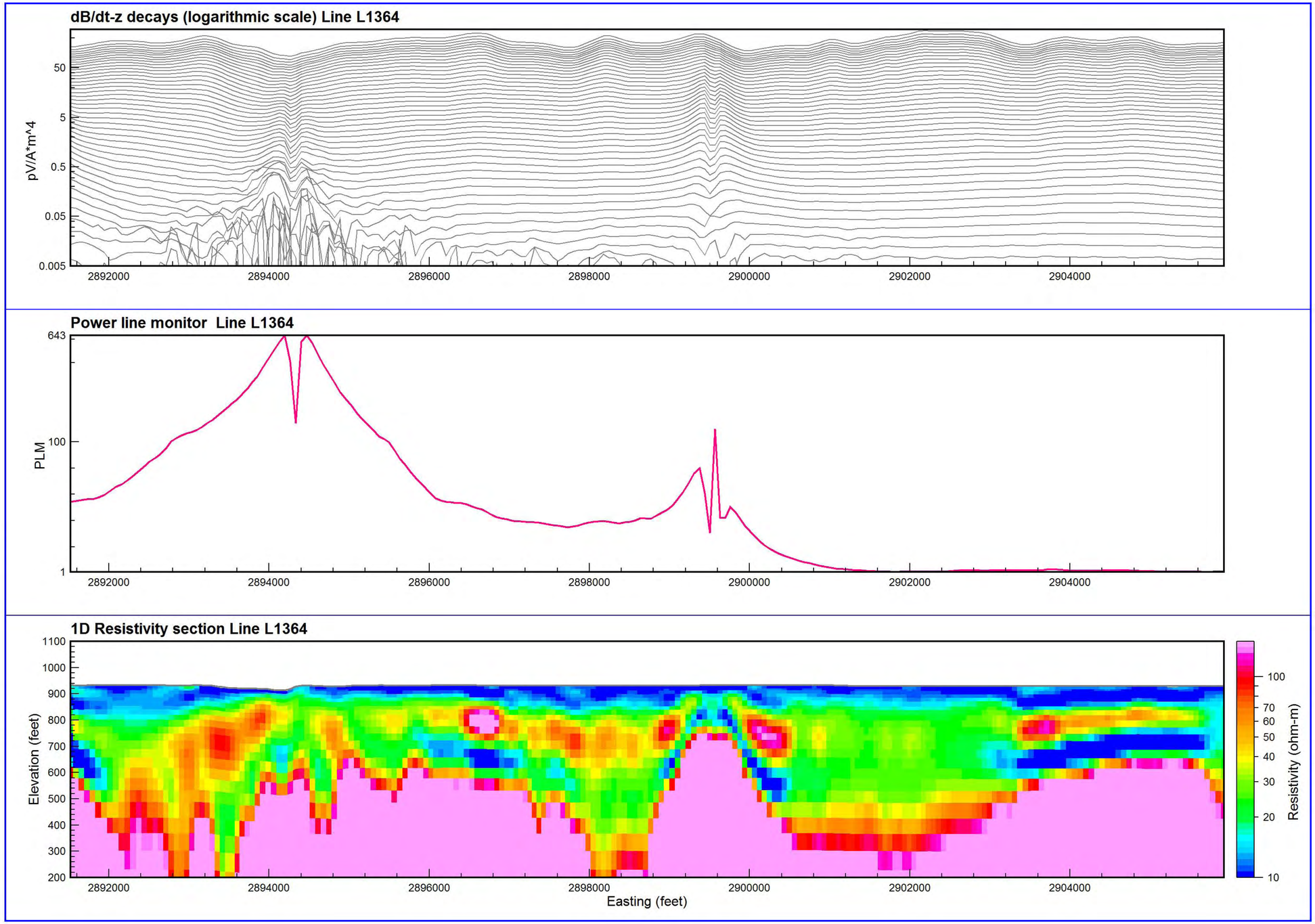

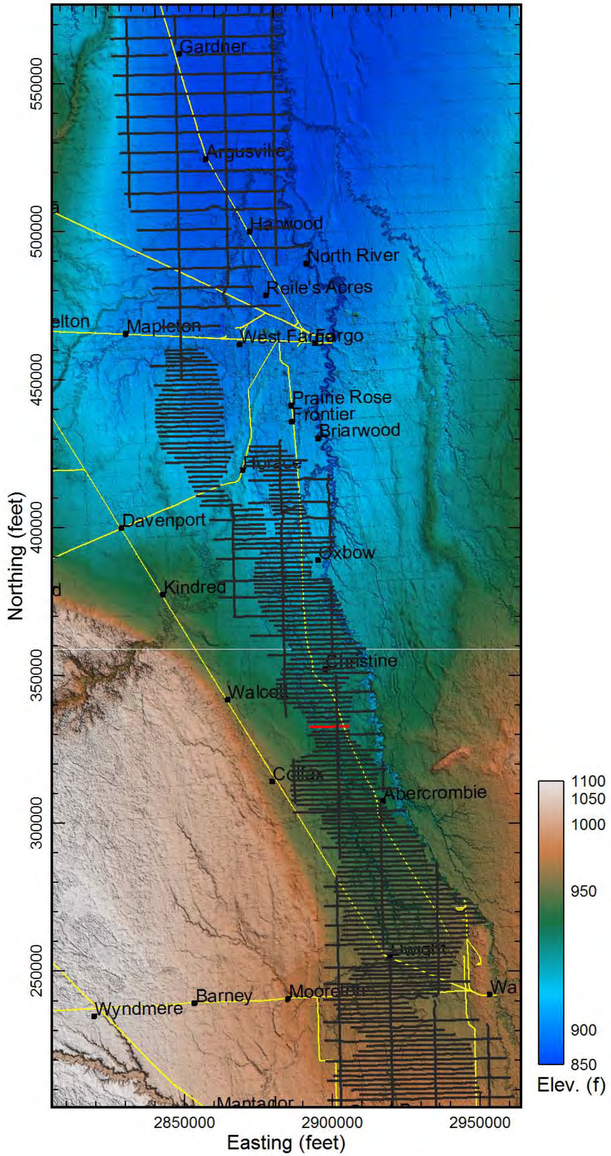

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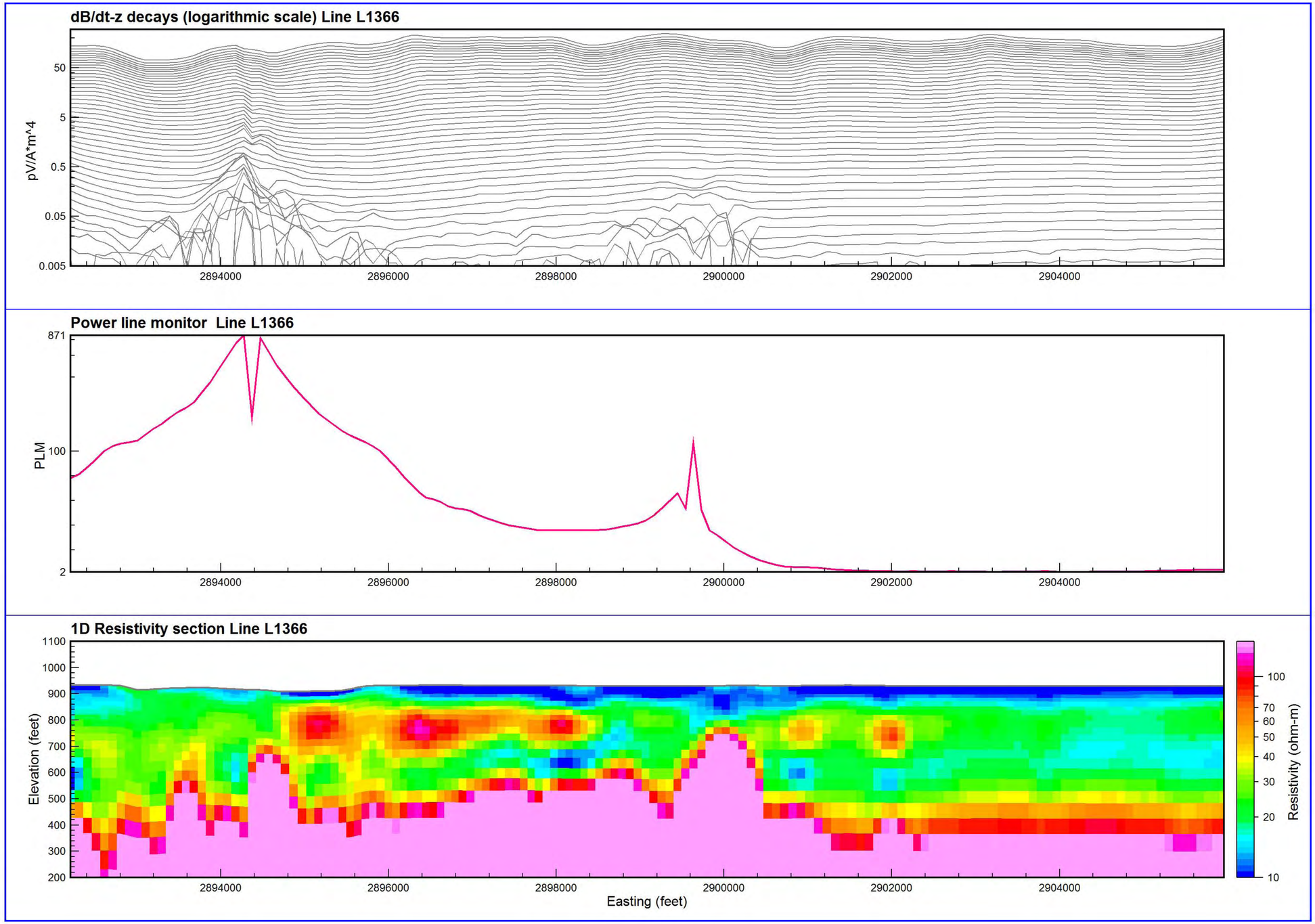

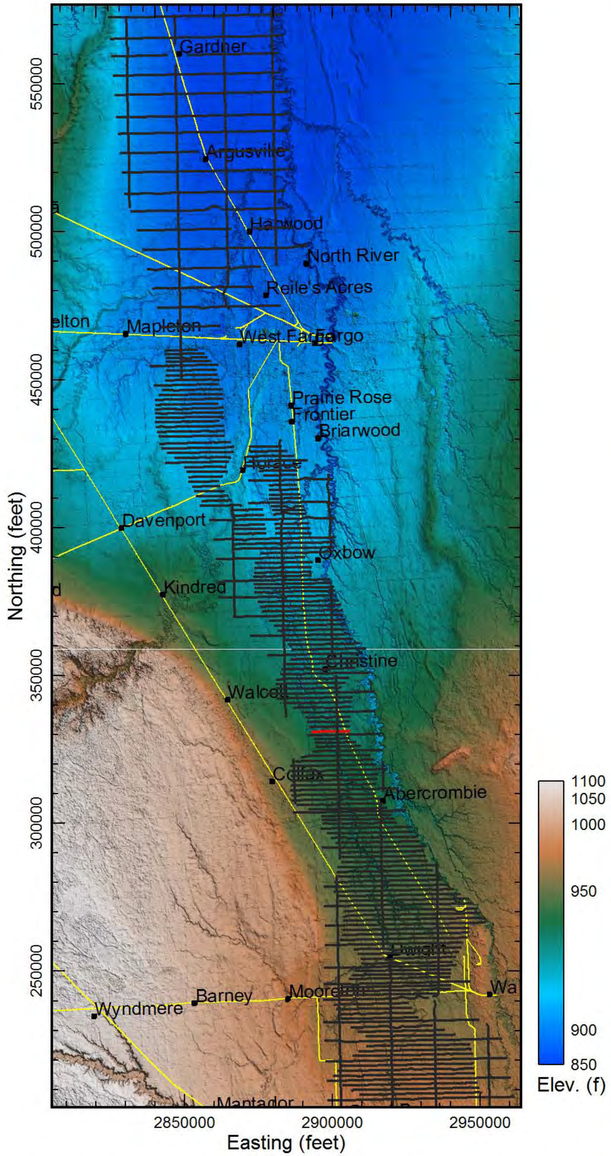

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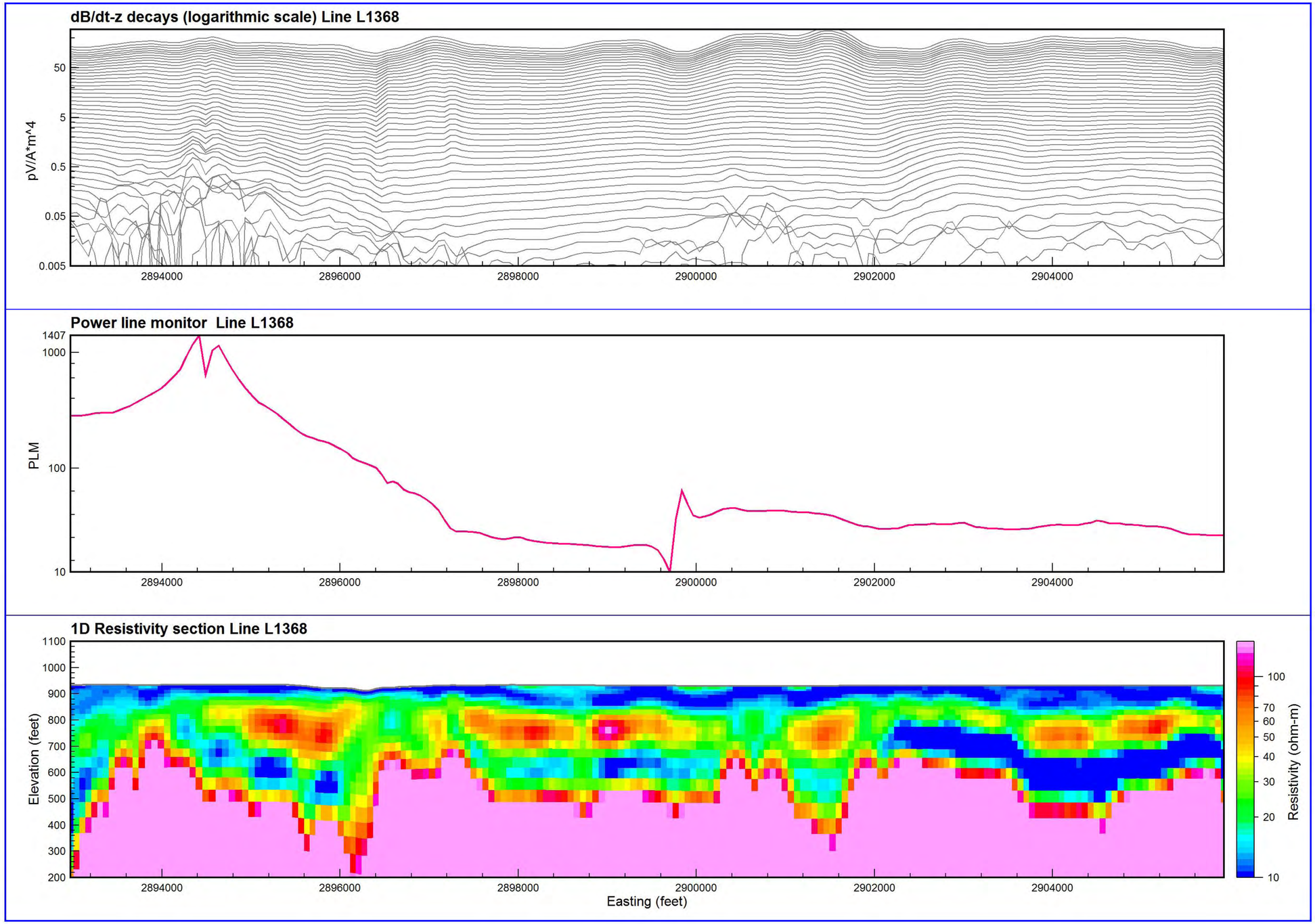

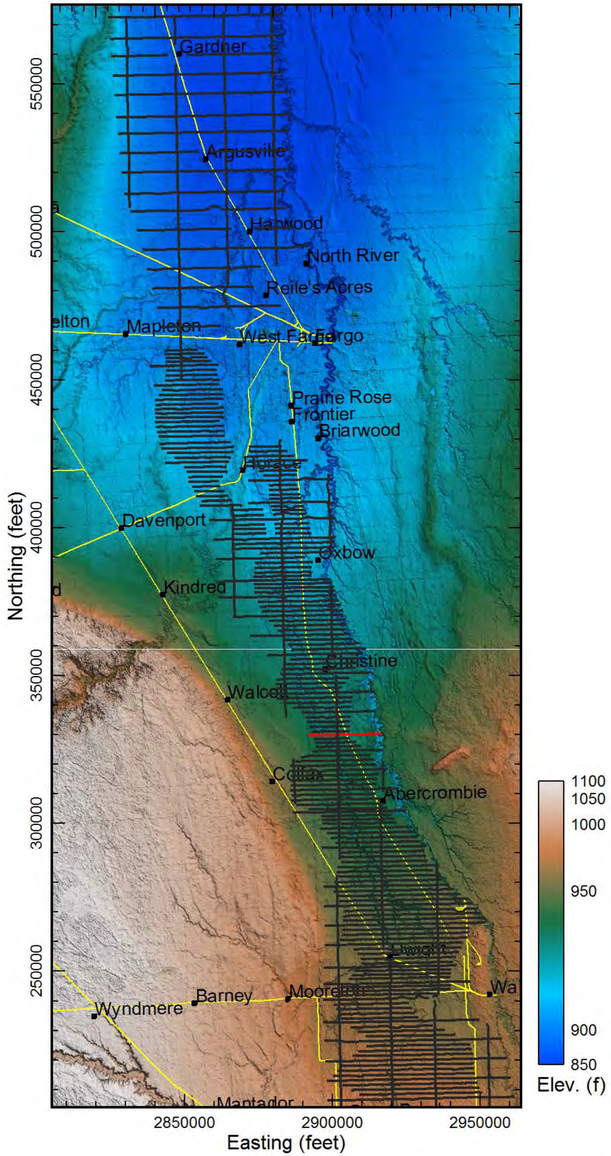

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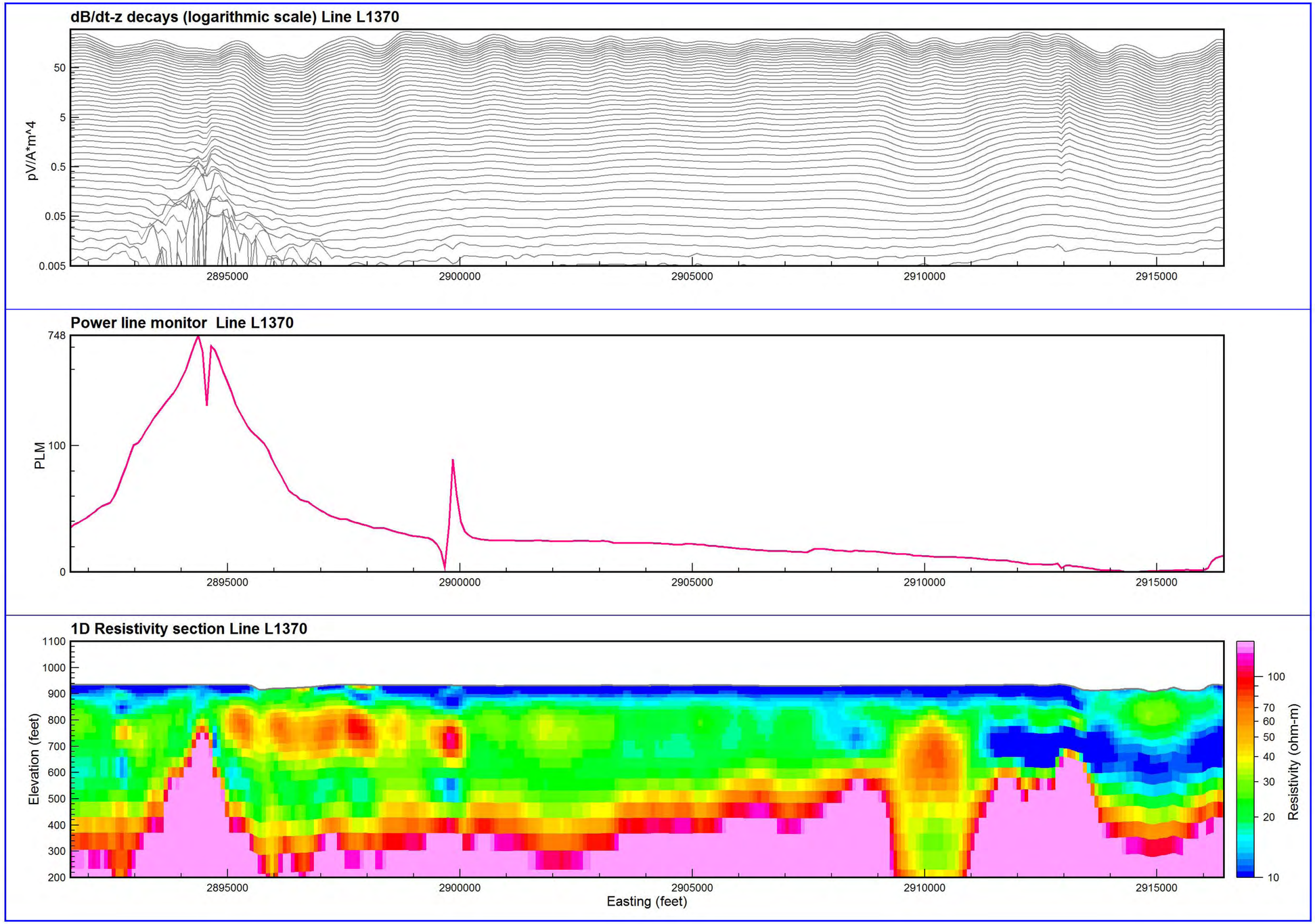
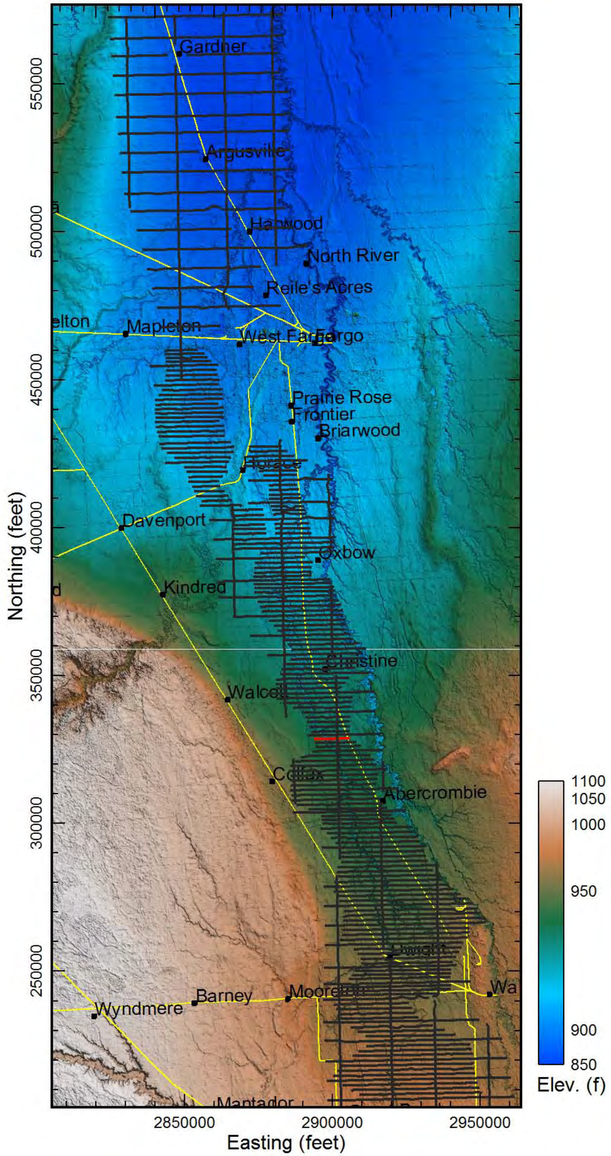
NORTH DAKOTA STATE WATER COMMISSION

Date: Feb. 2, 2018

GEOTECH AIRBORNE GEOPHYSICAL SURVEYS





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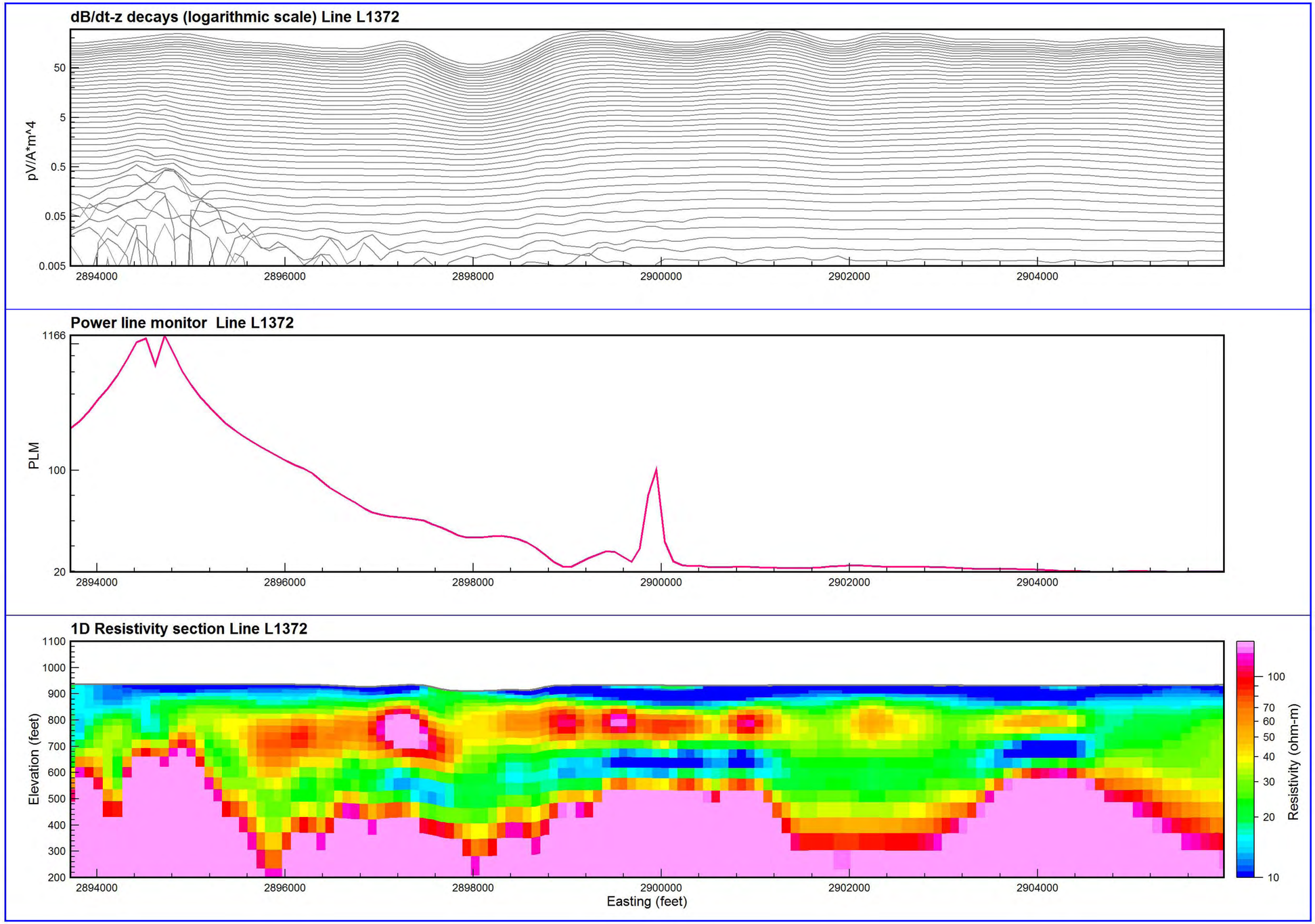

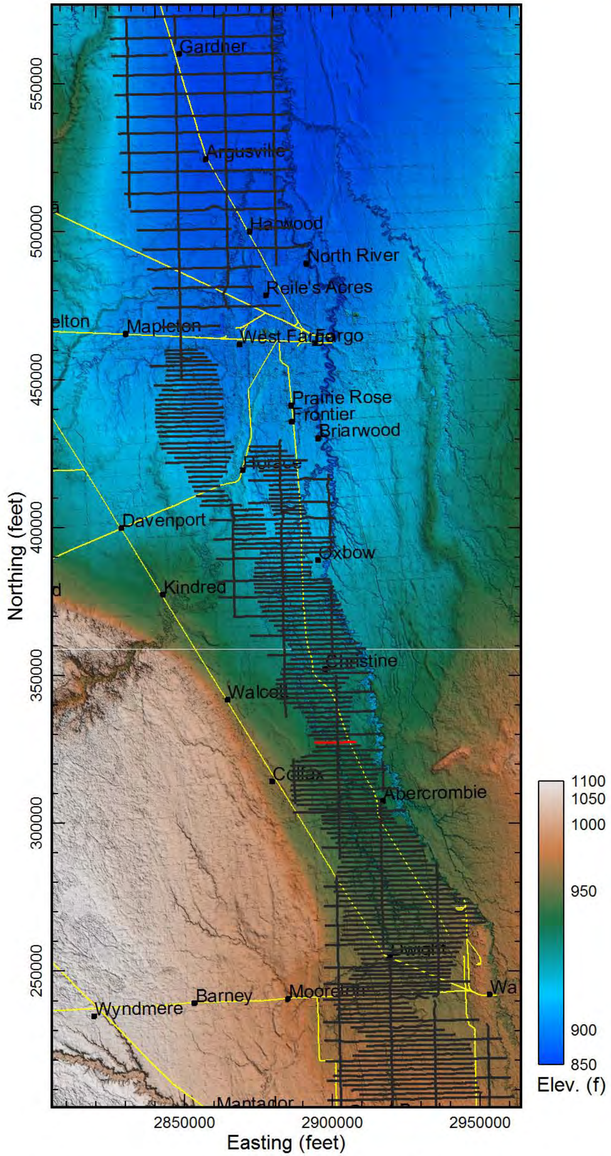

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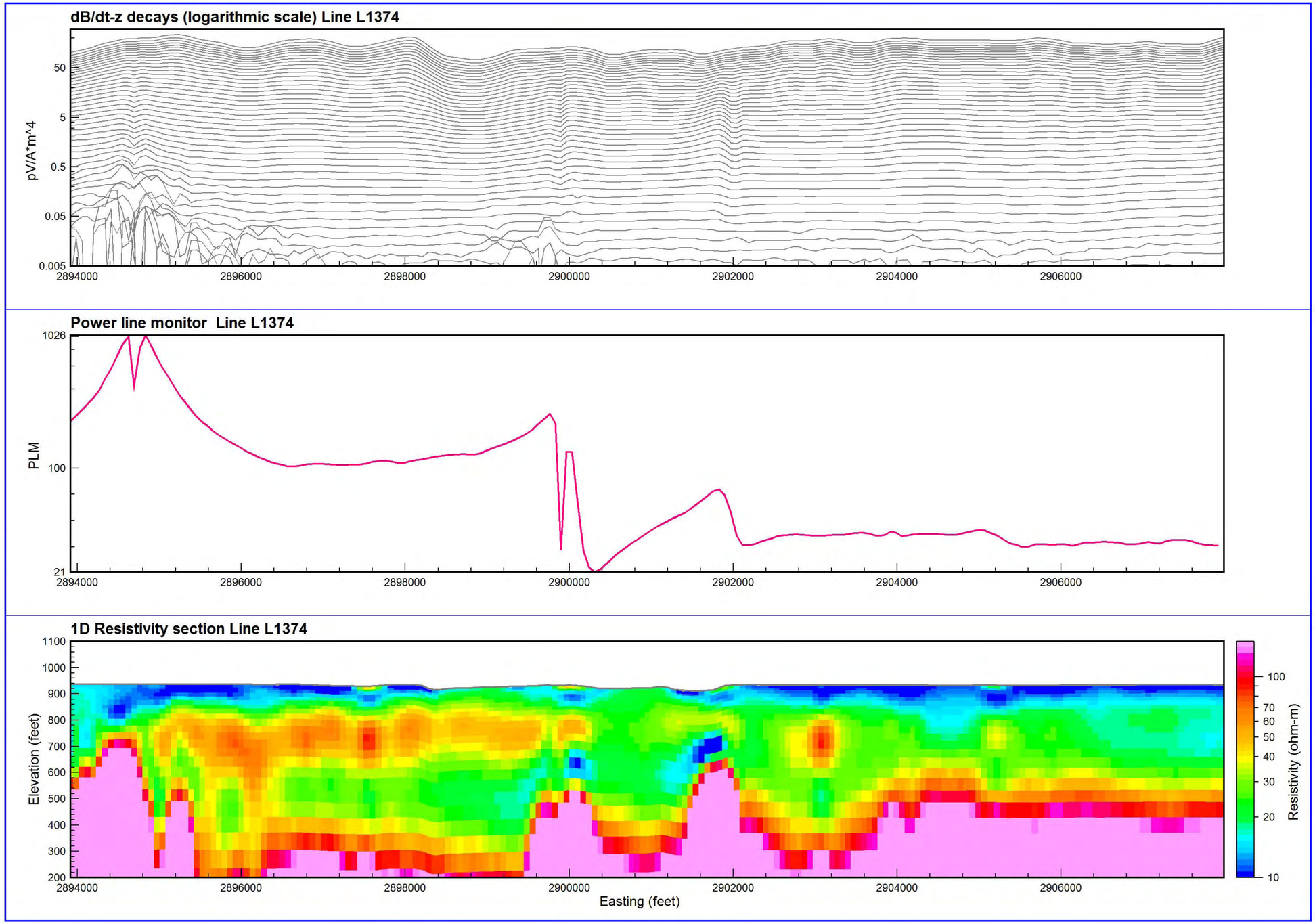

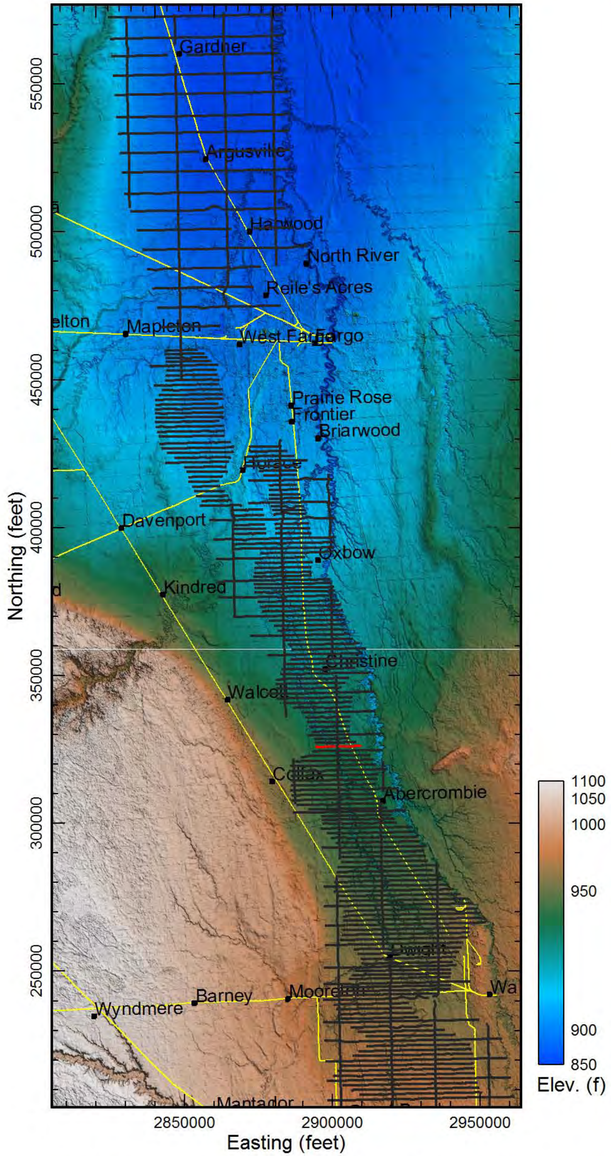

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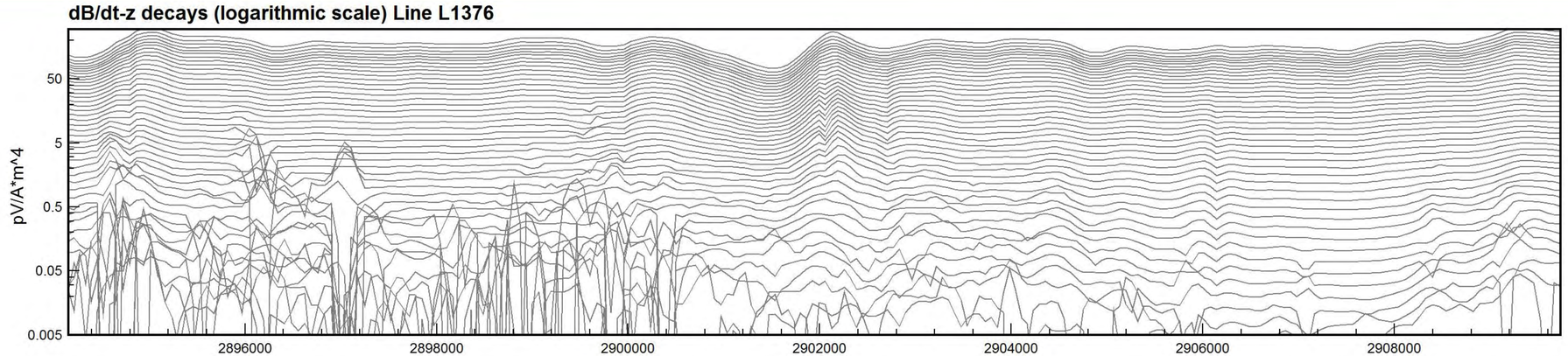

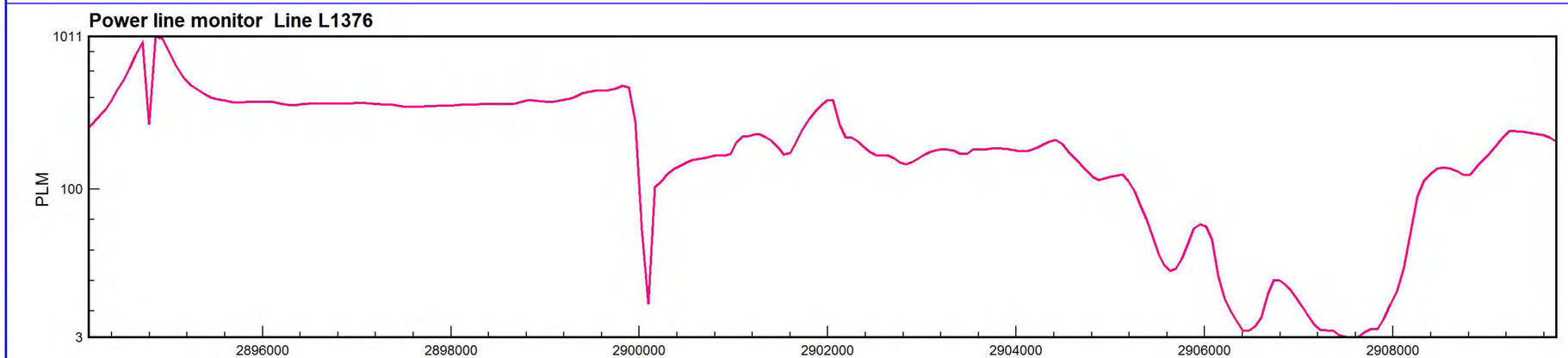

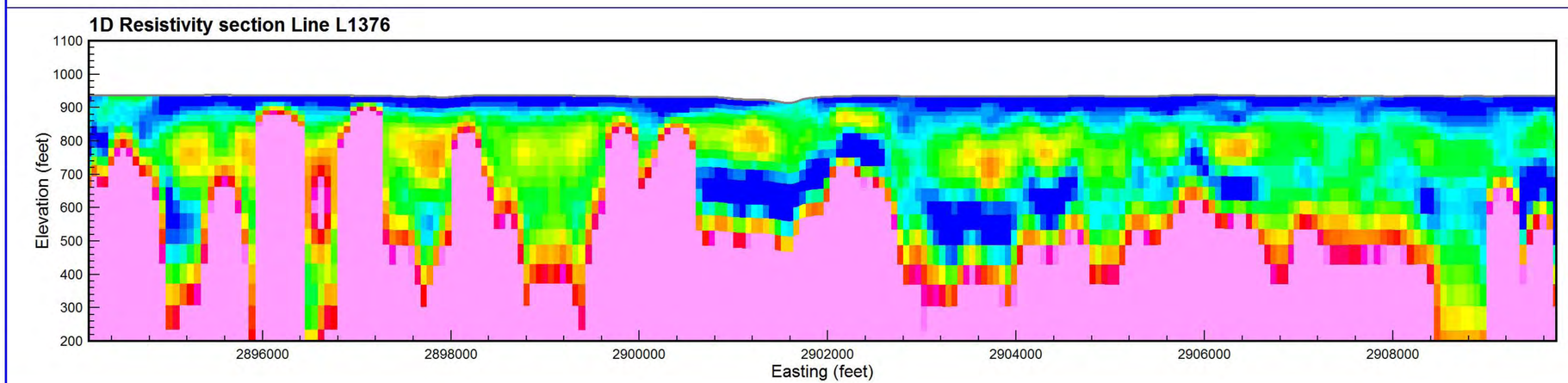

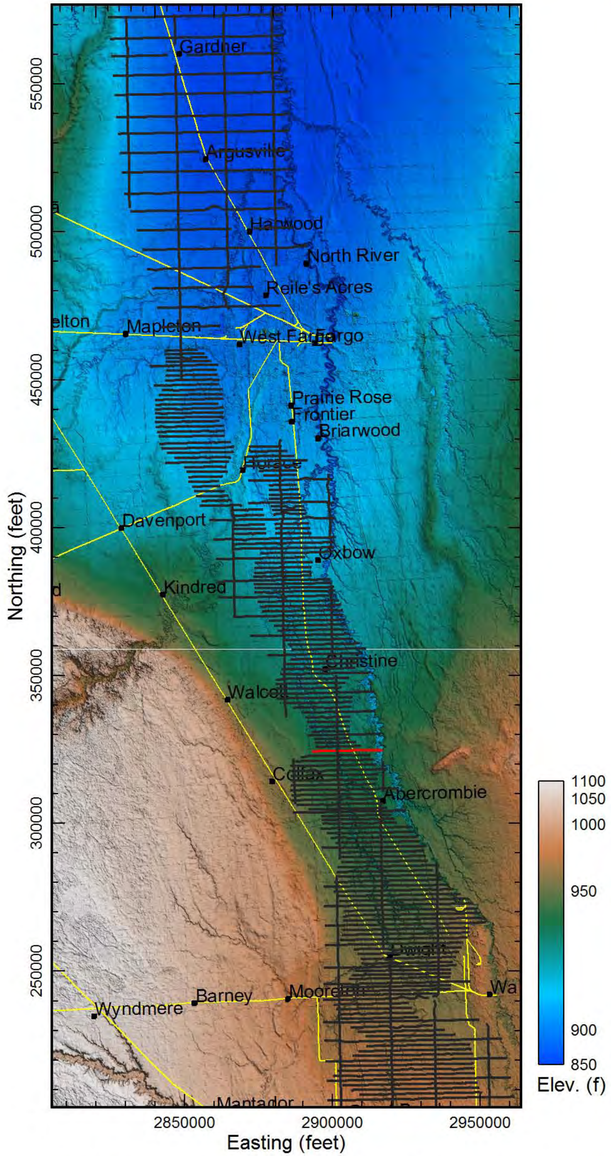

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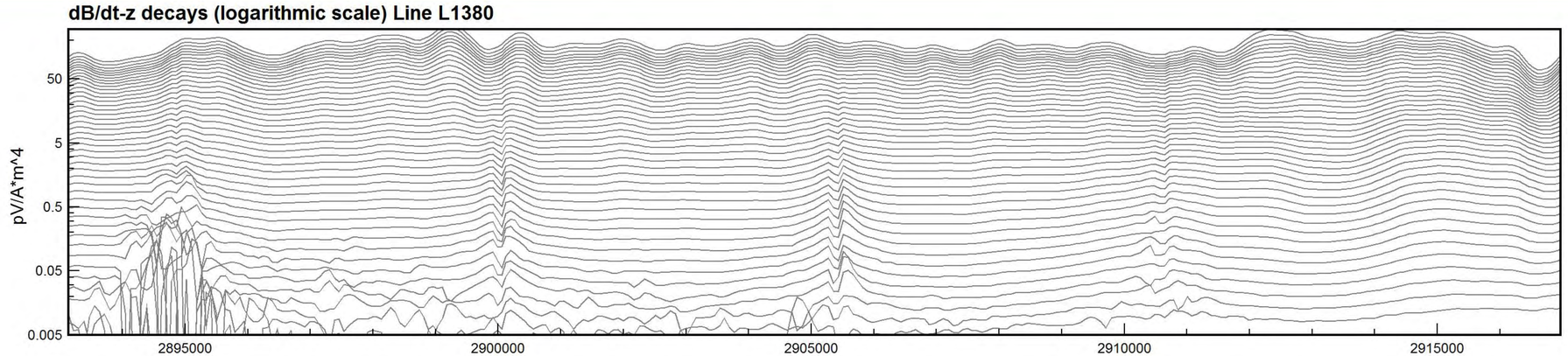

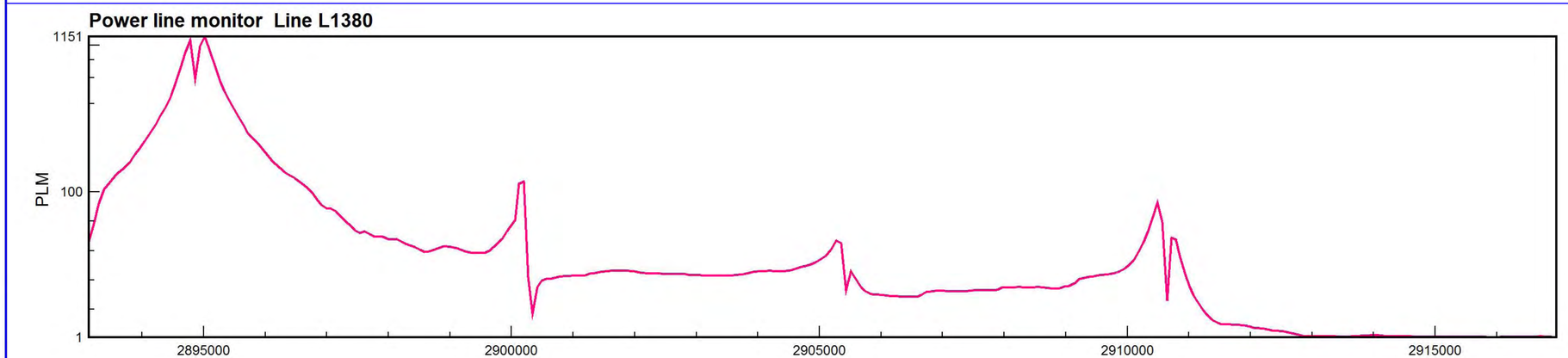

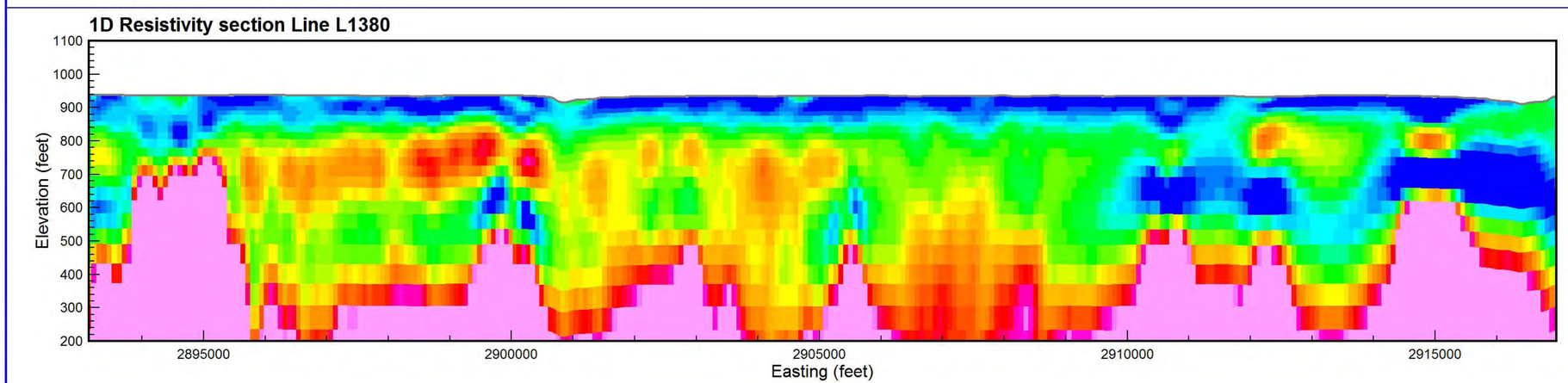

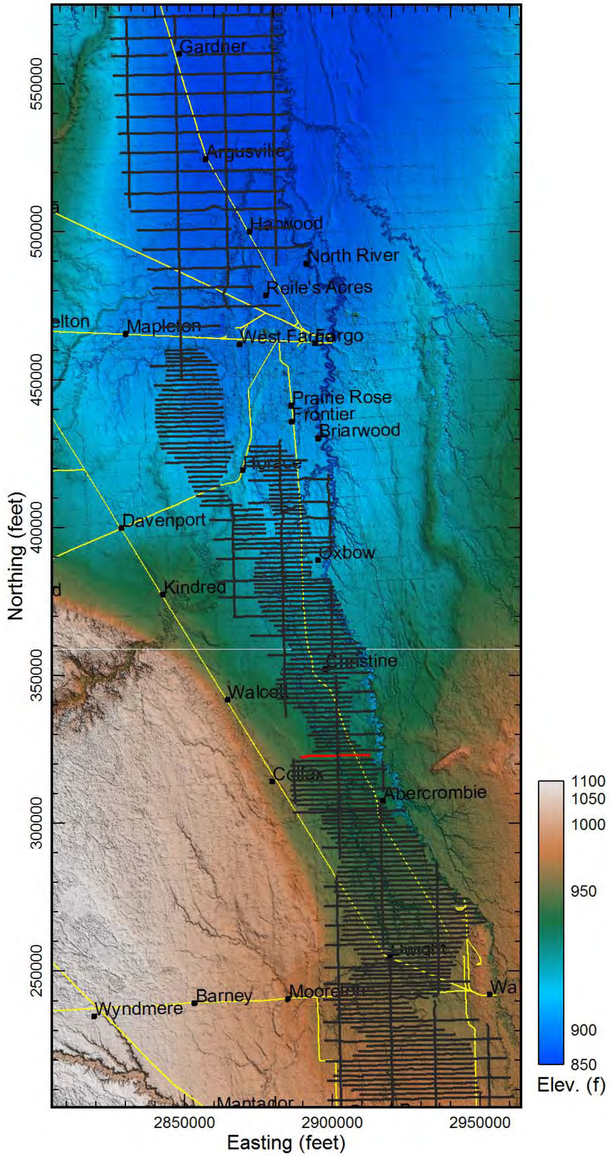

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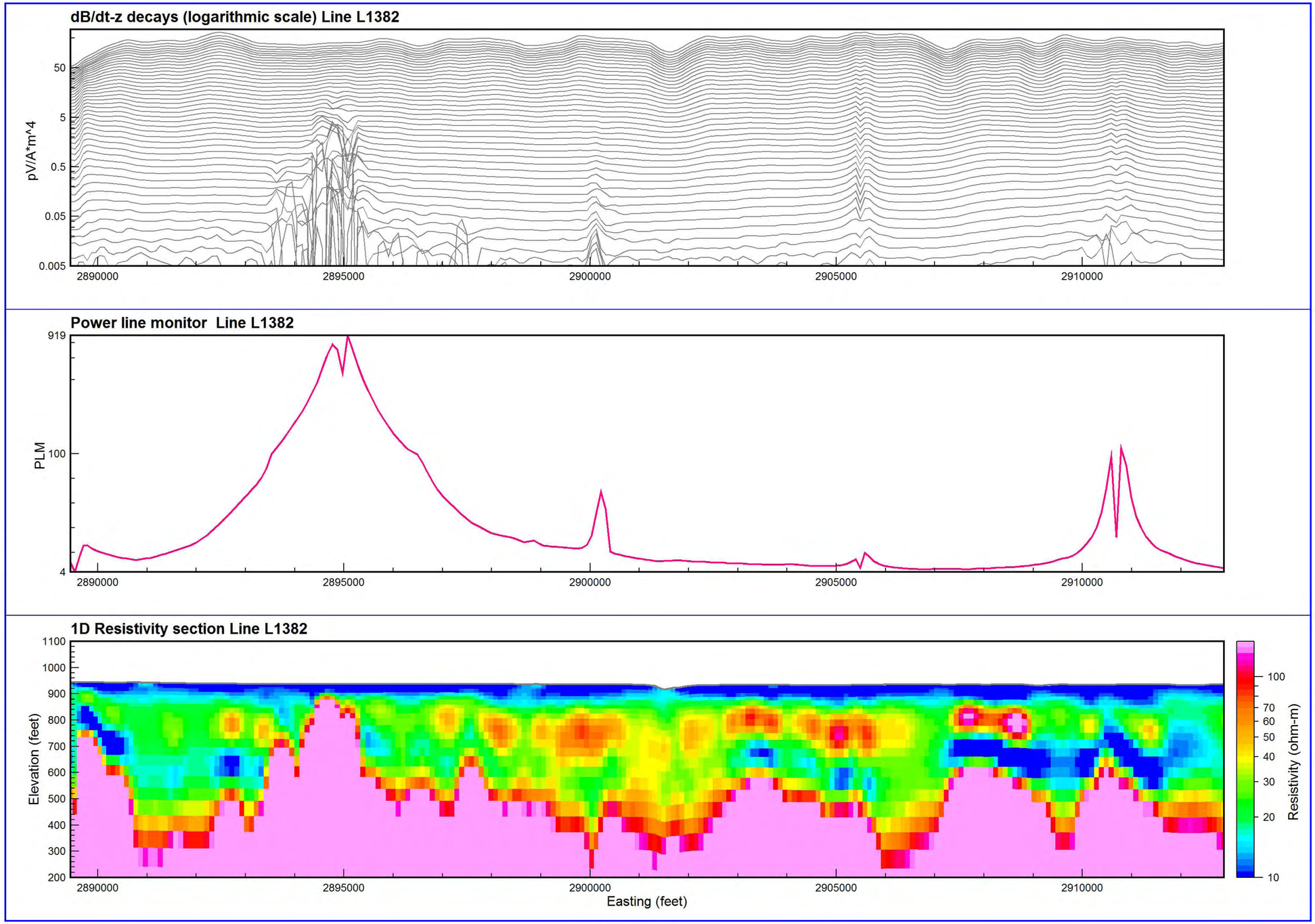

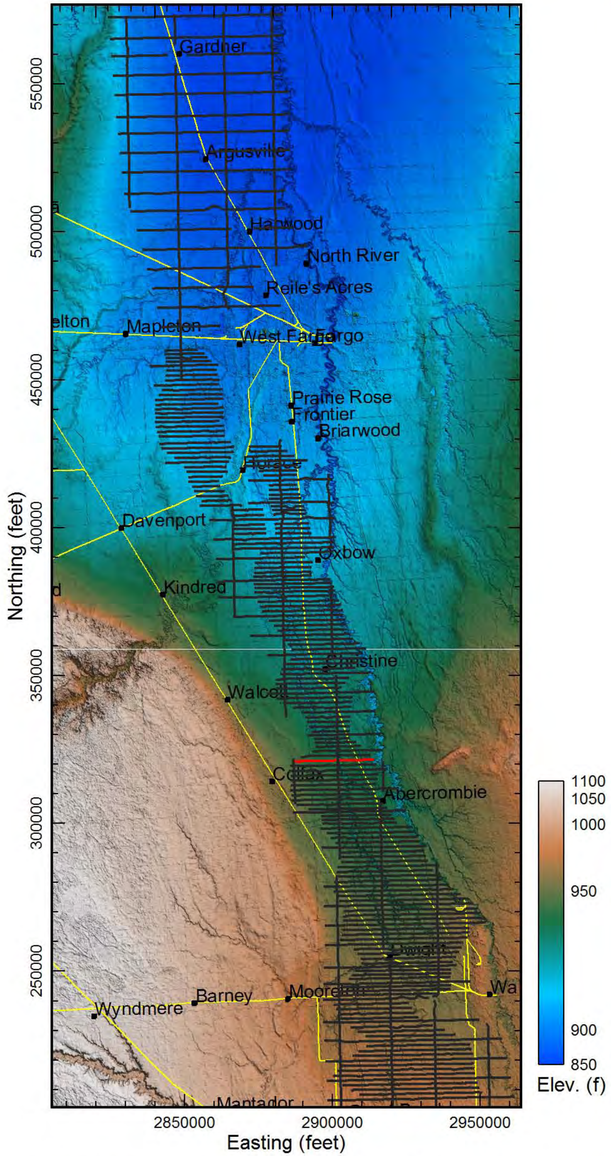

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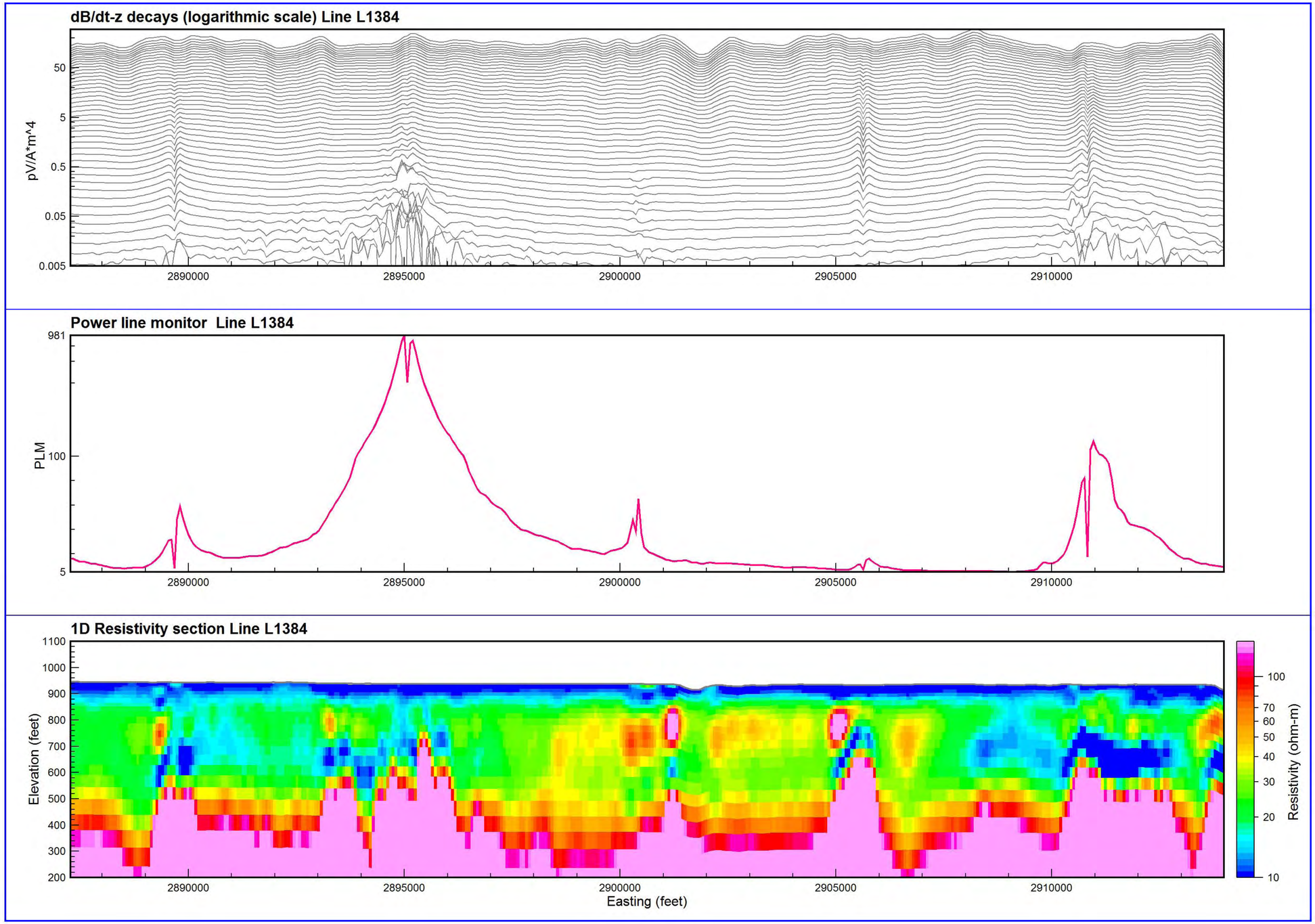

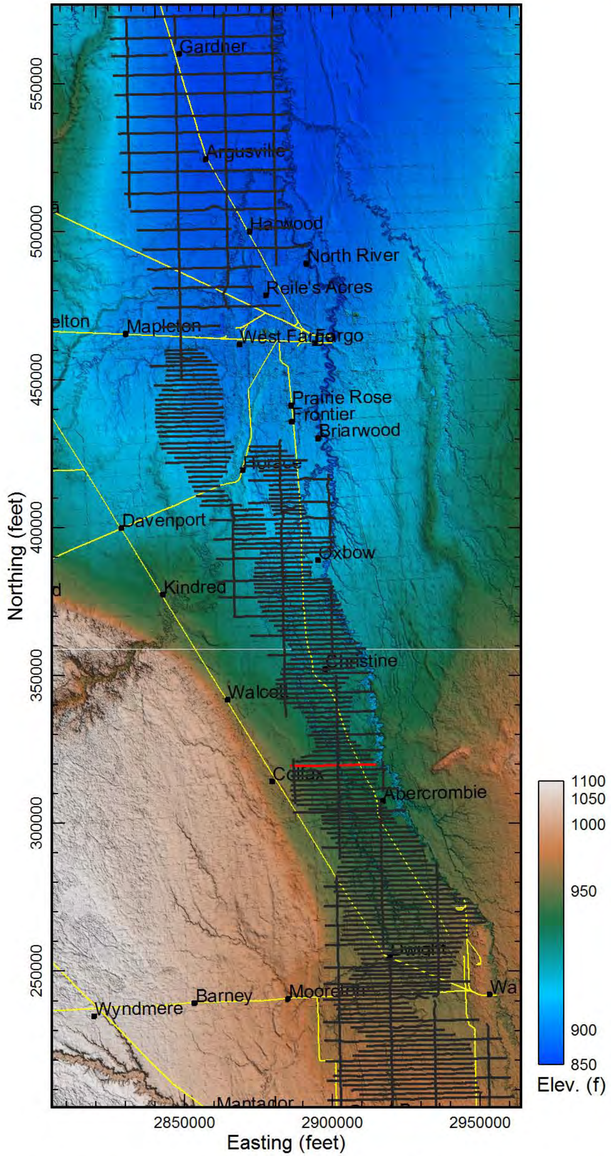

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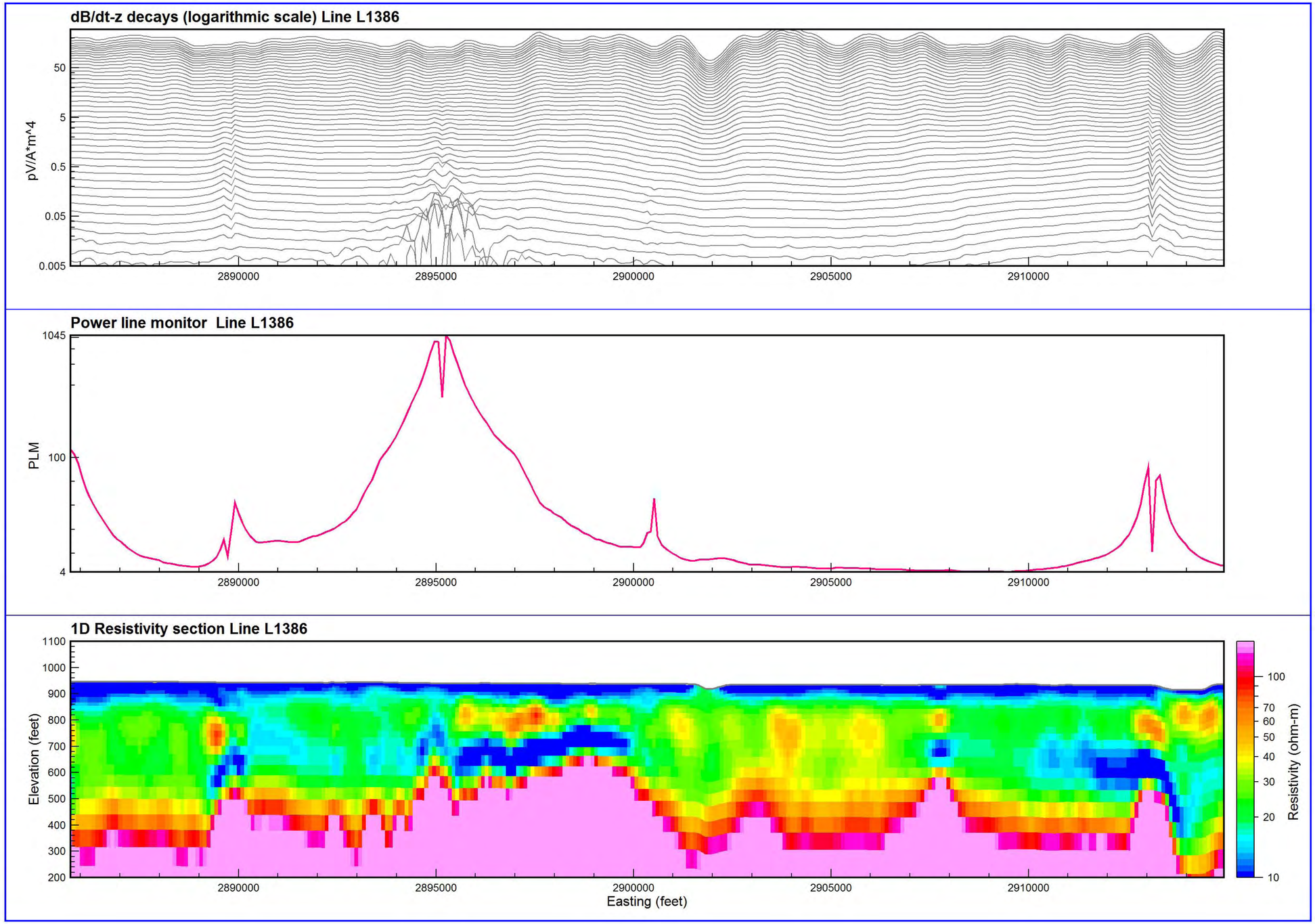

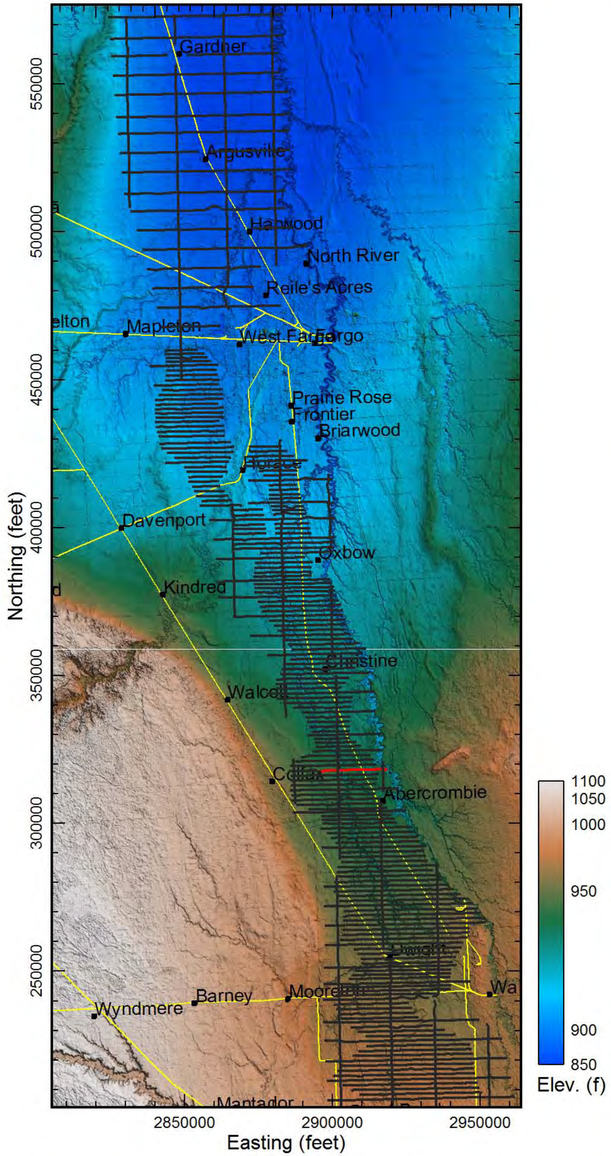

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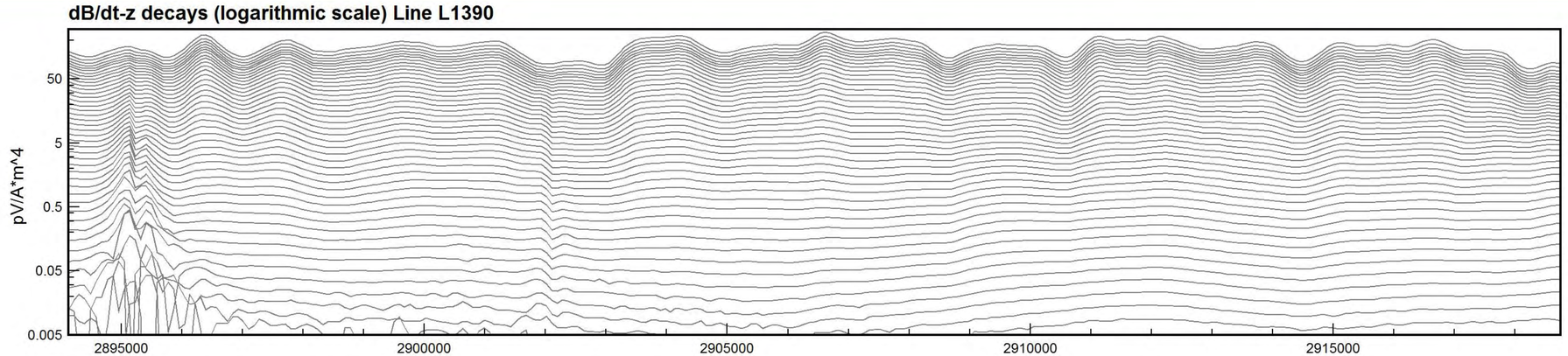

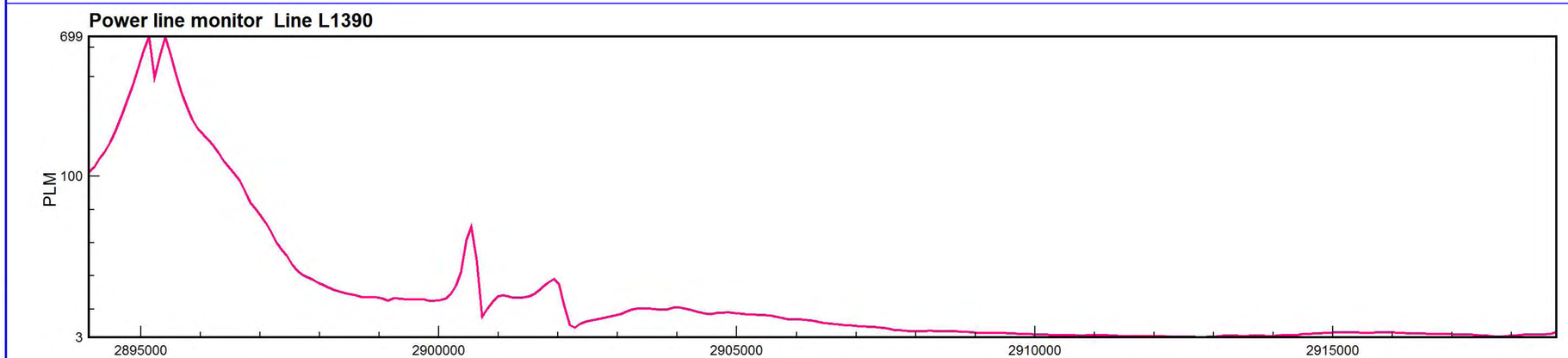

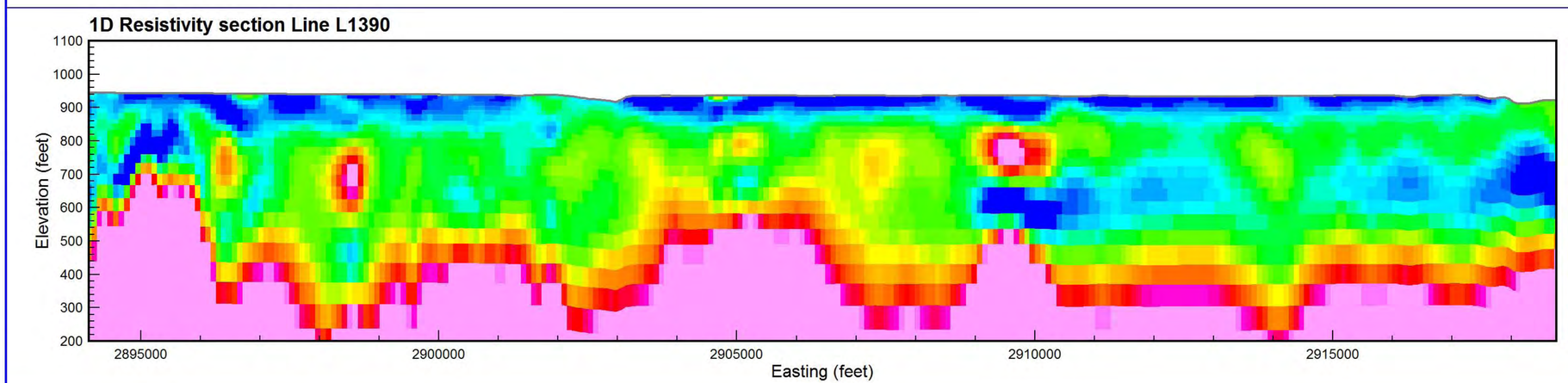

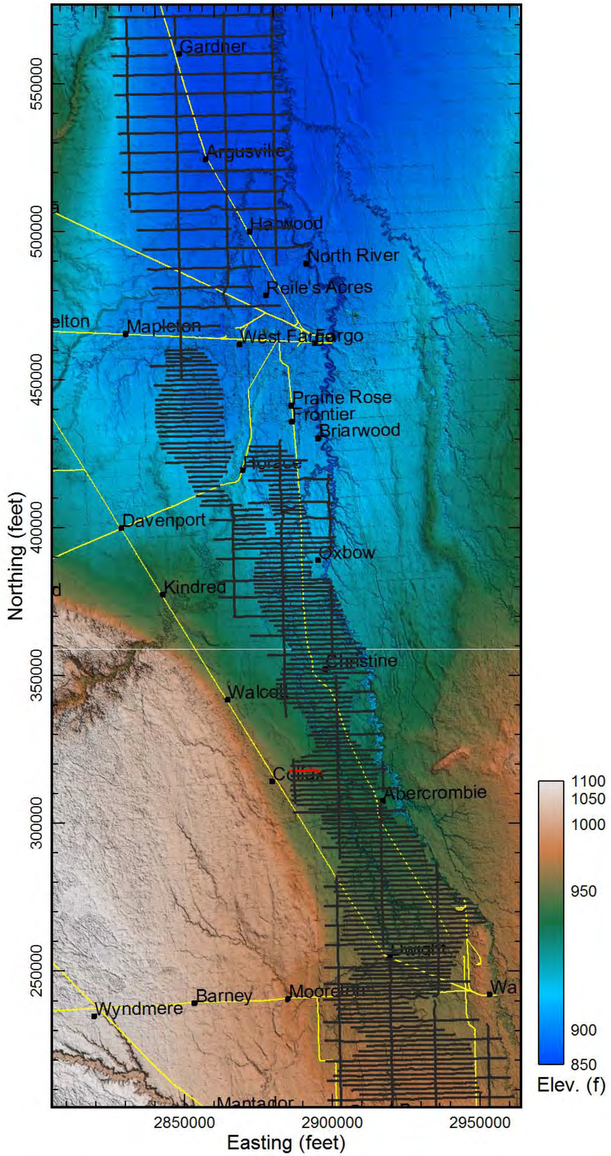

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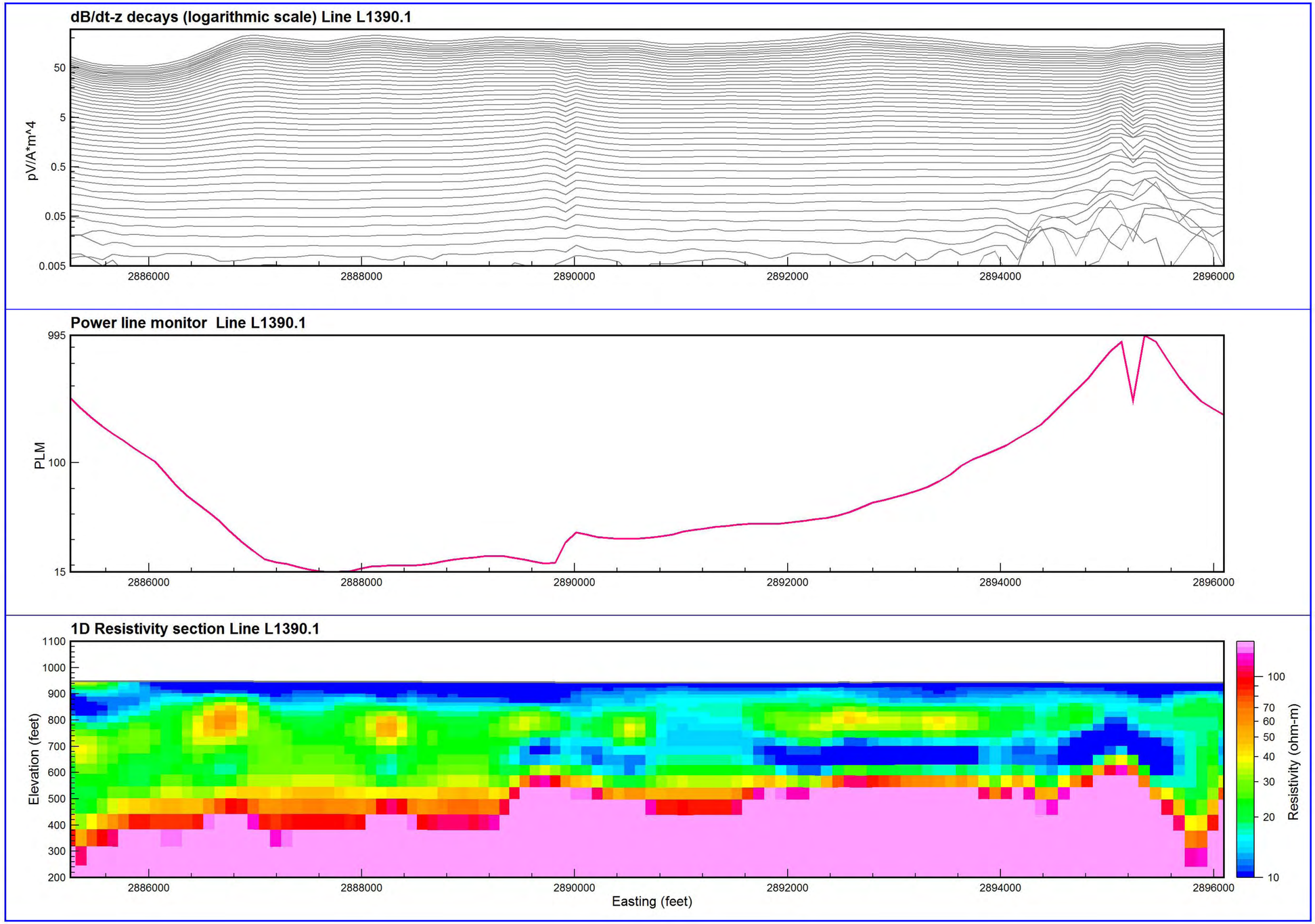

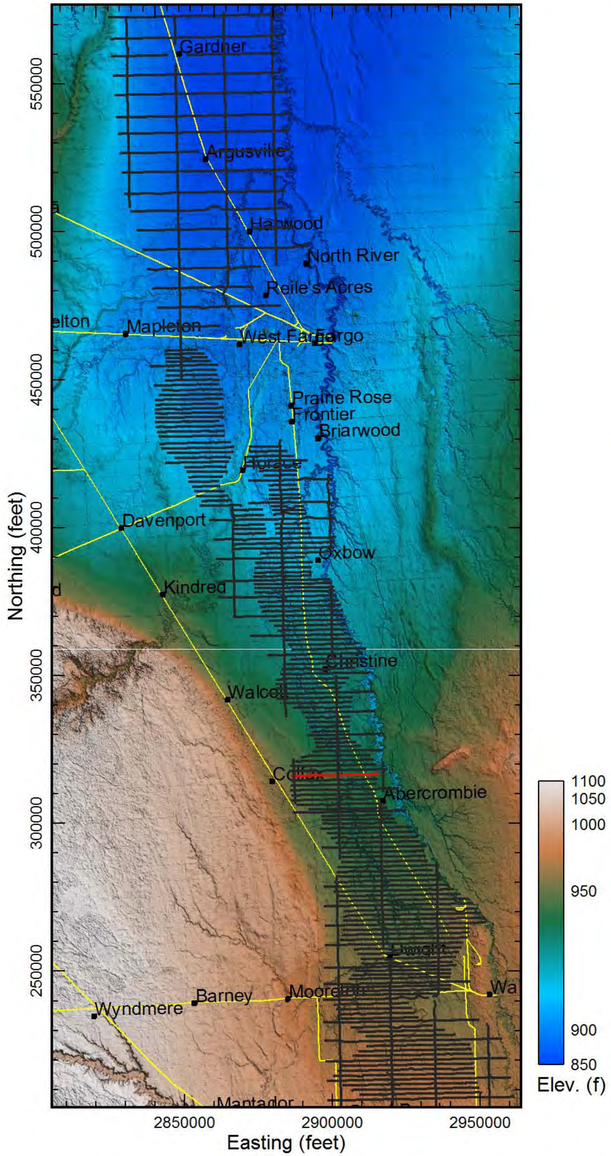

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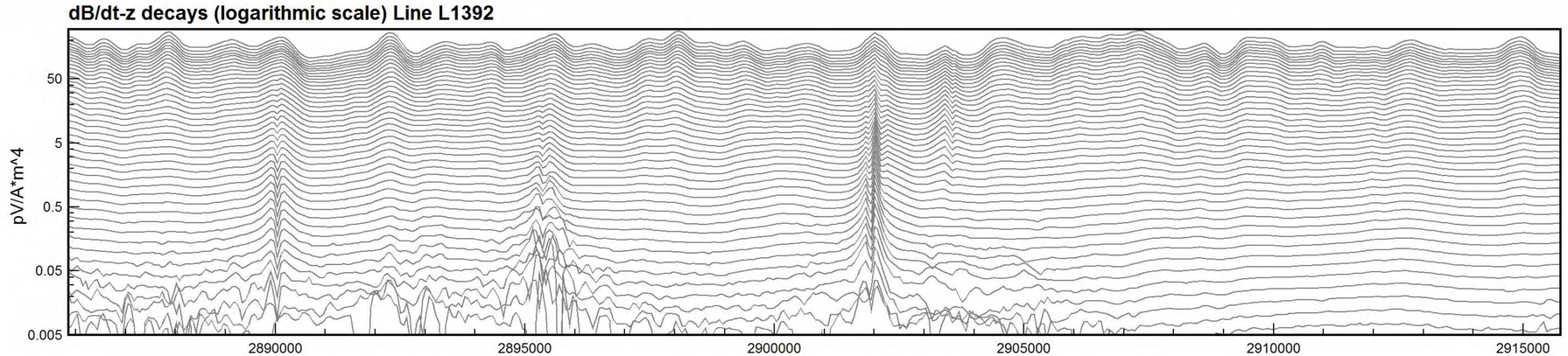

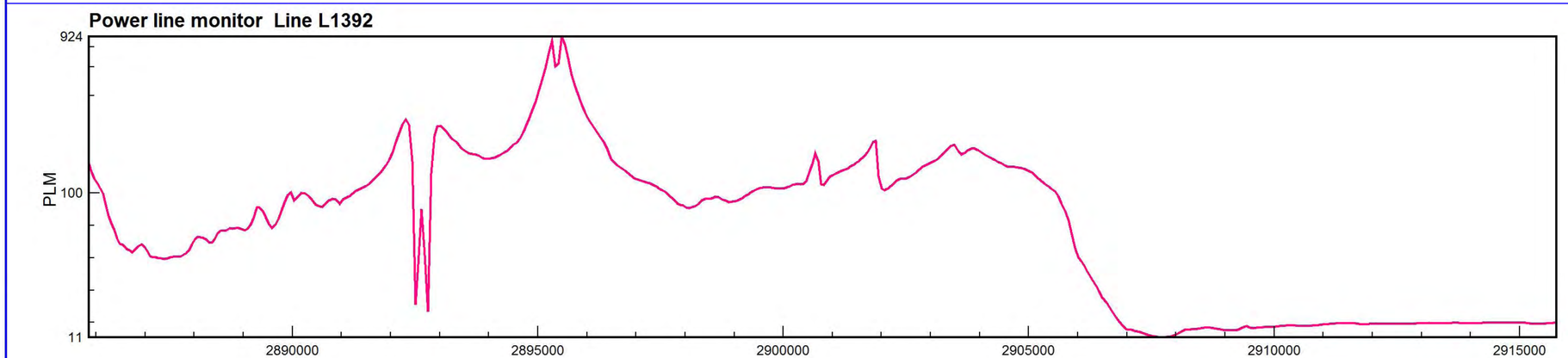

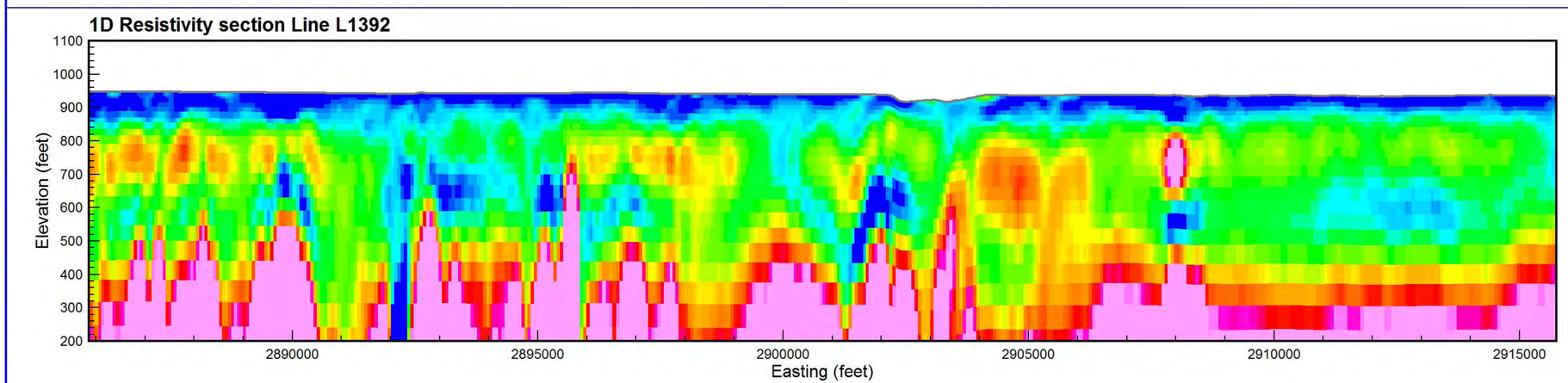

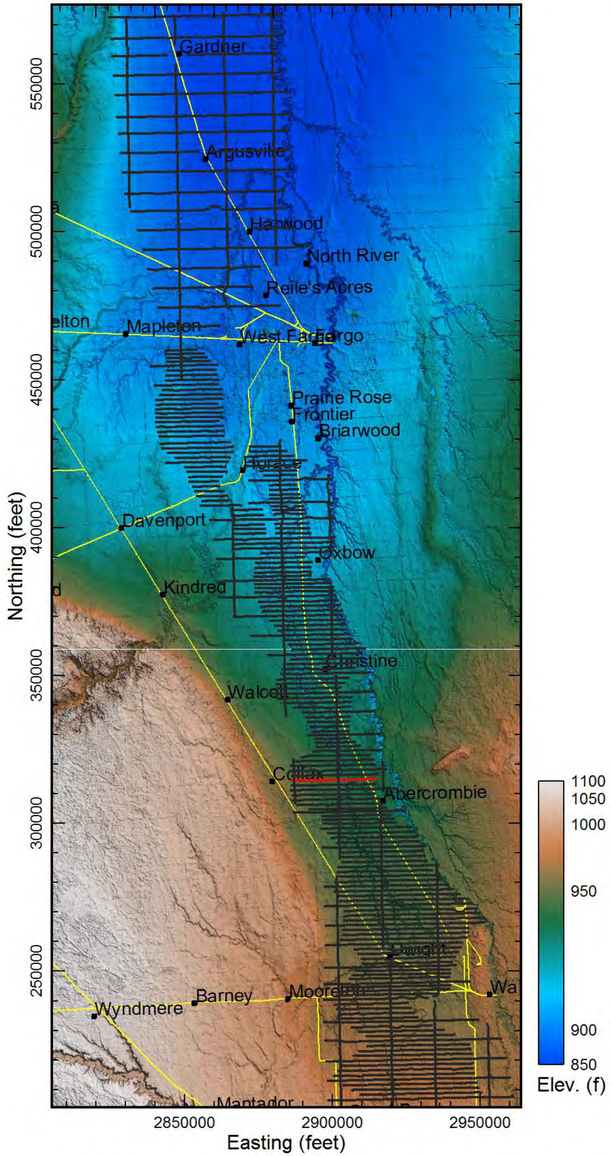

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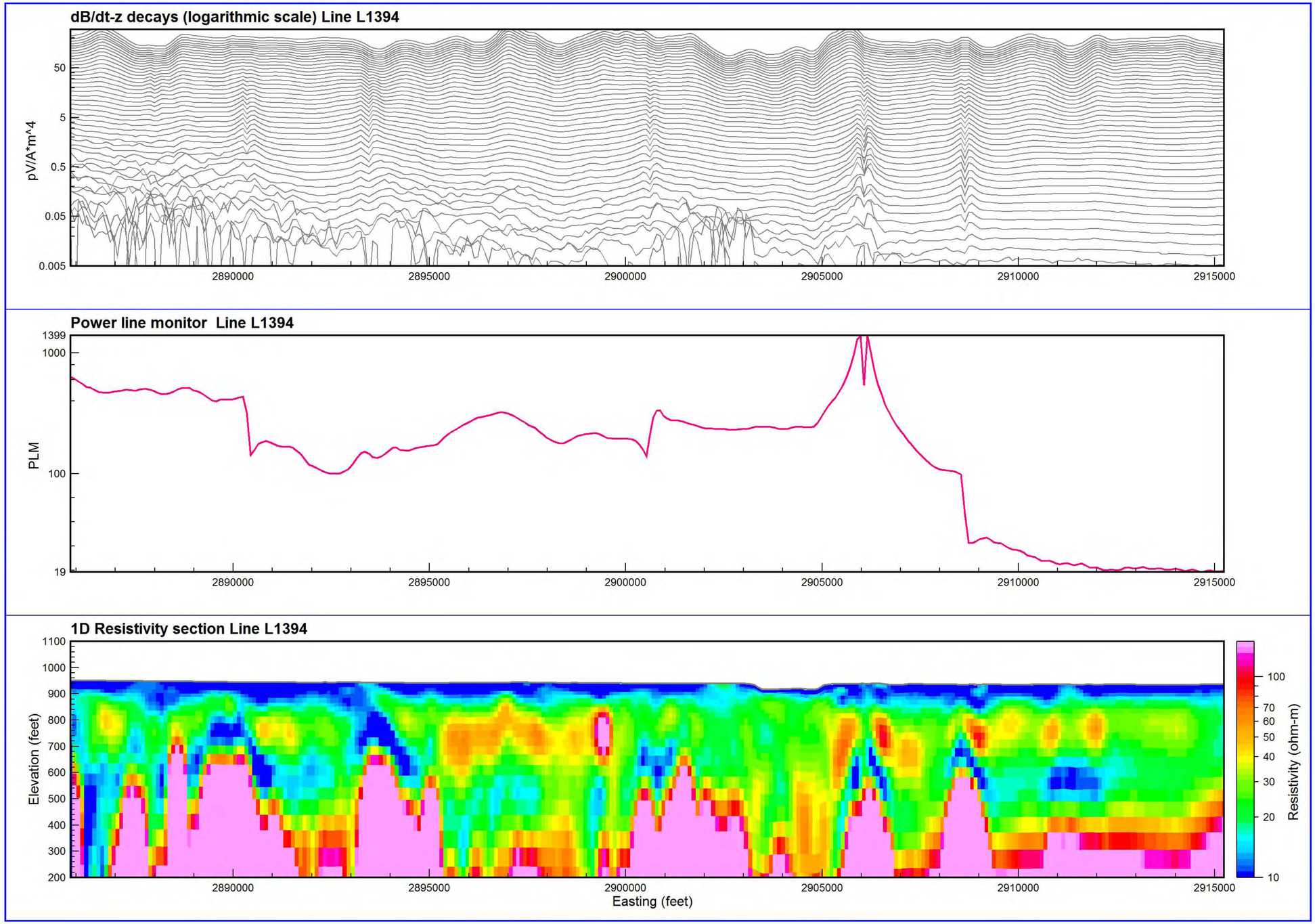

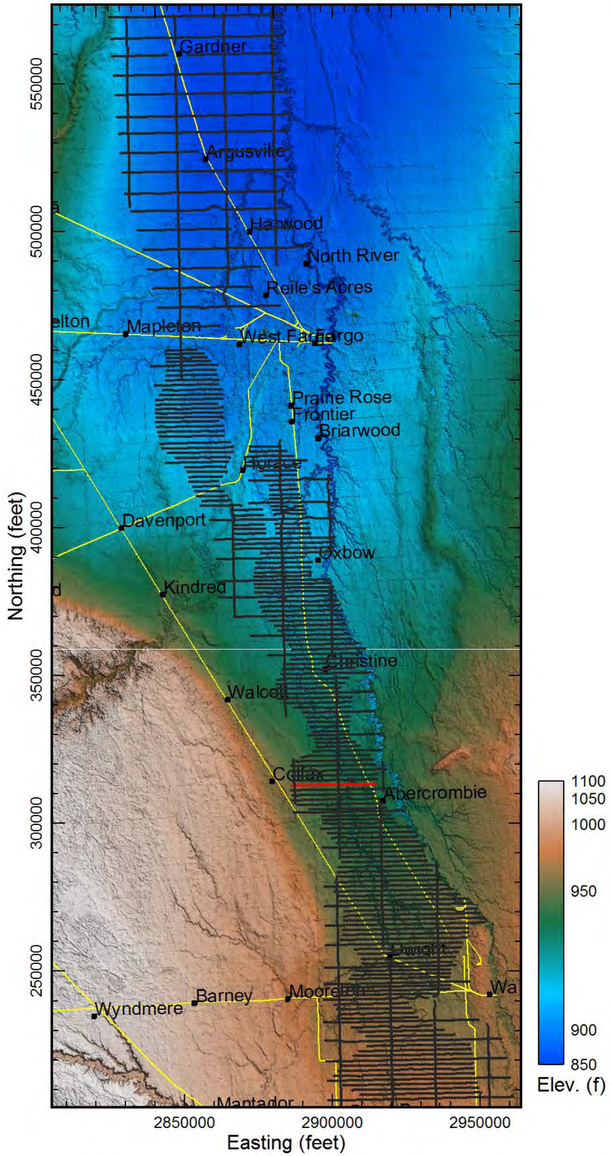

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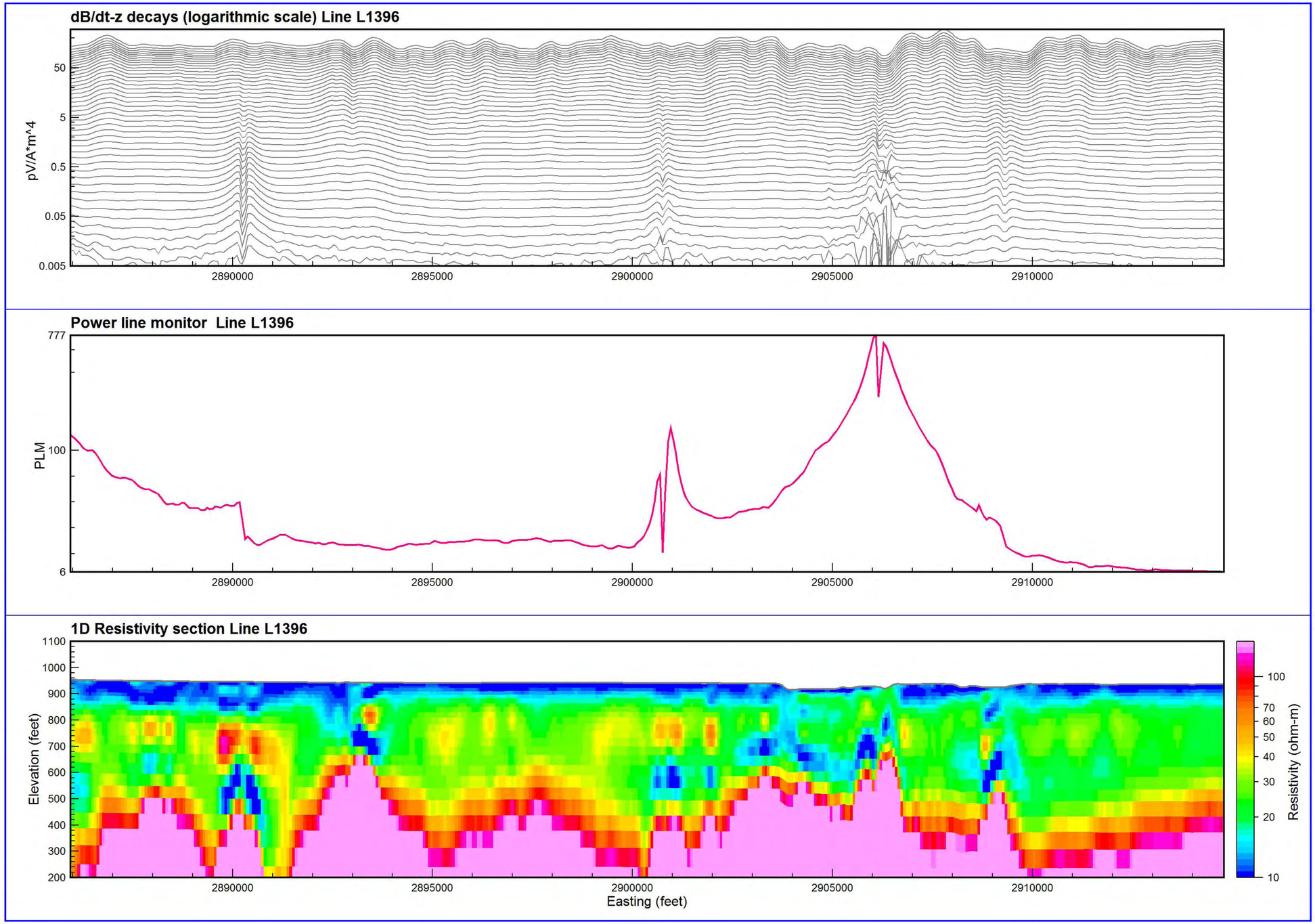

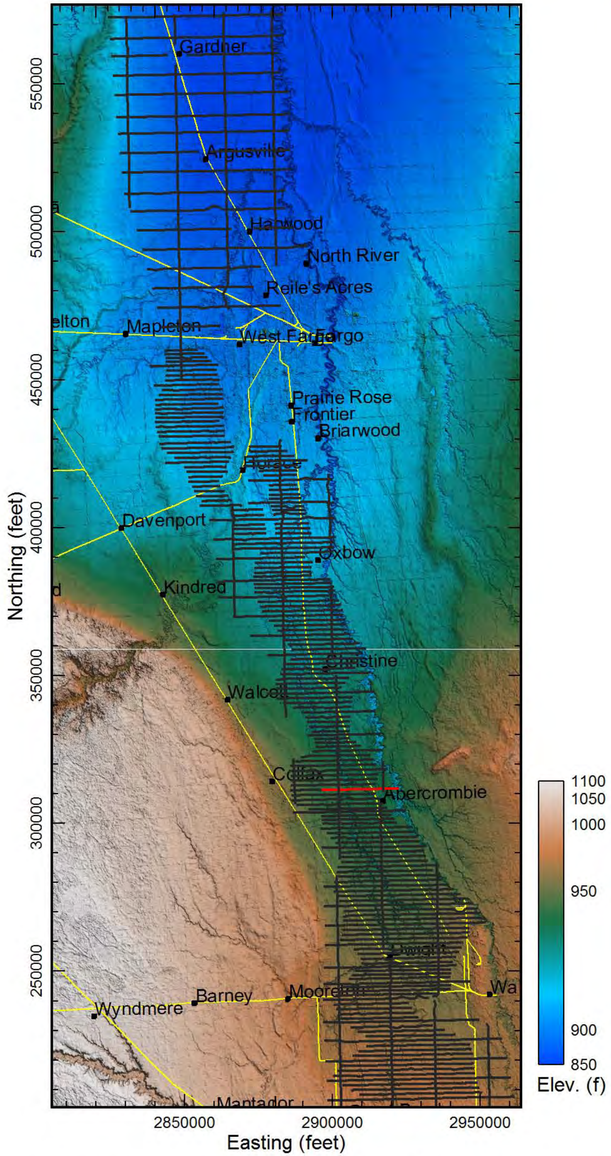

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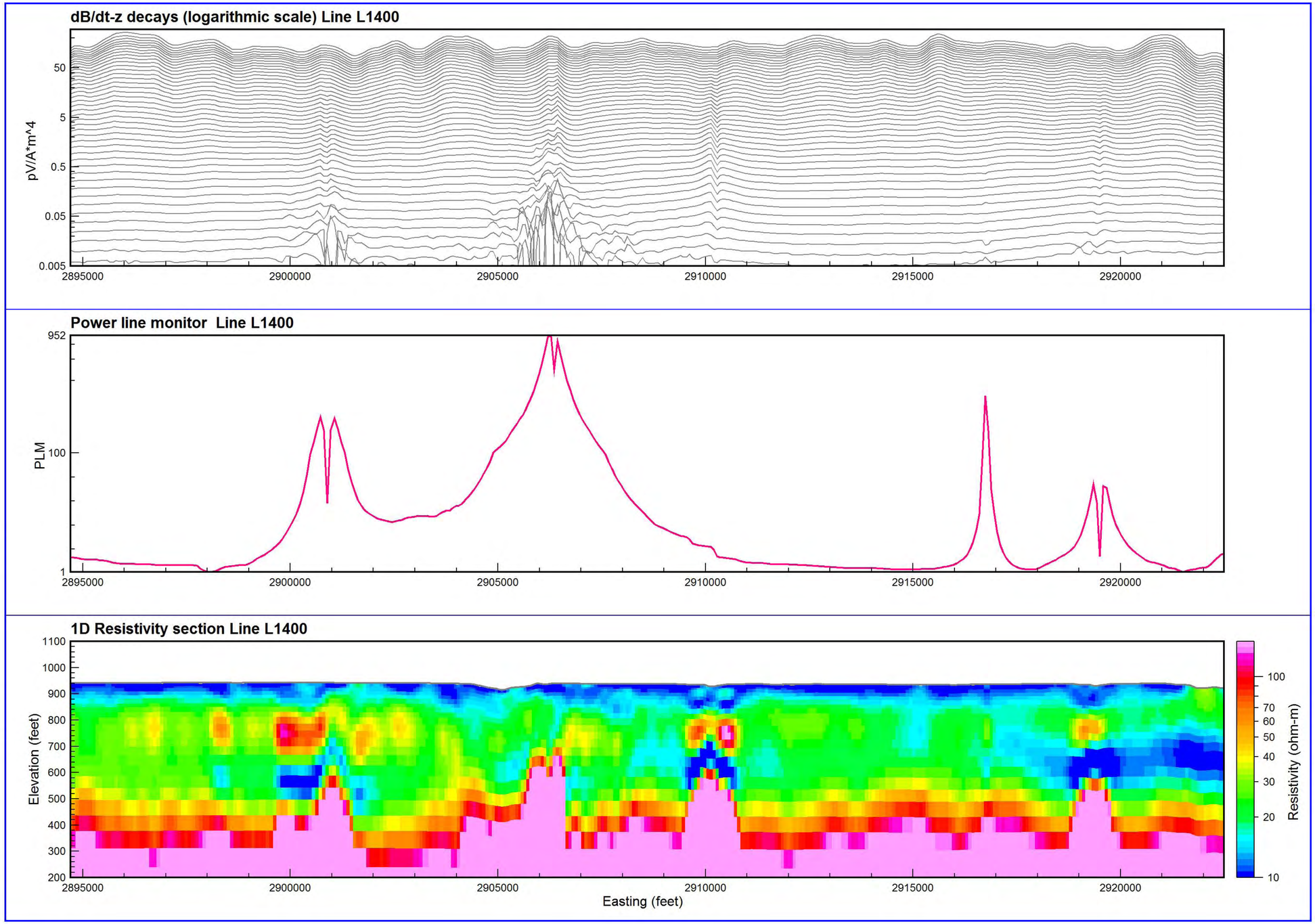

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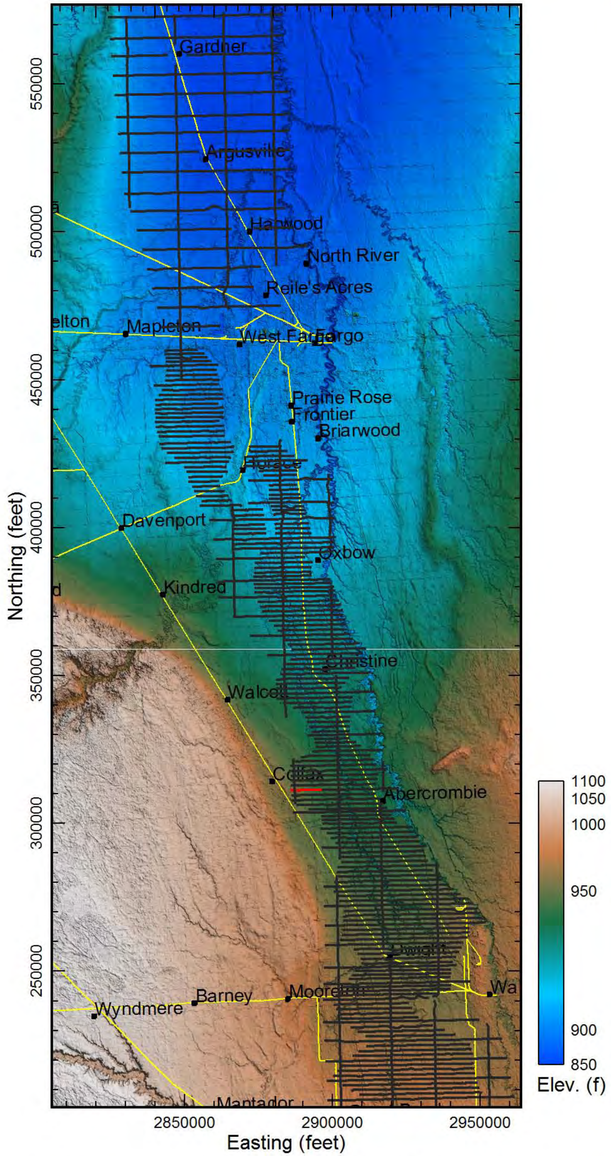

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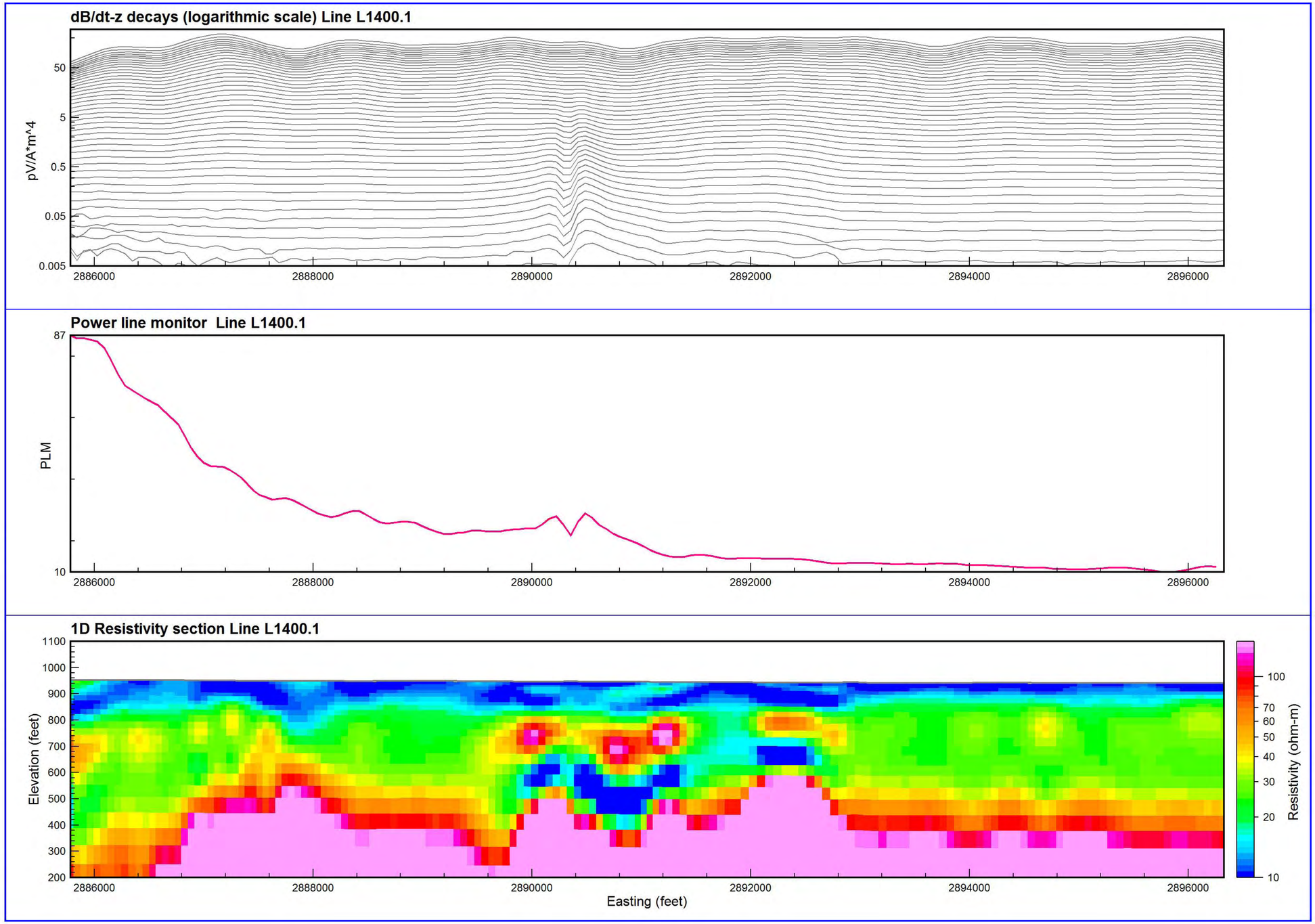

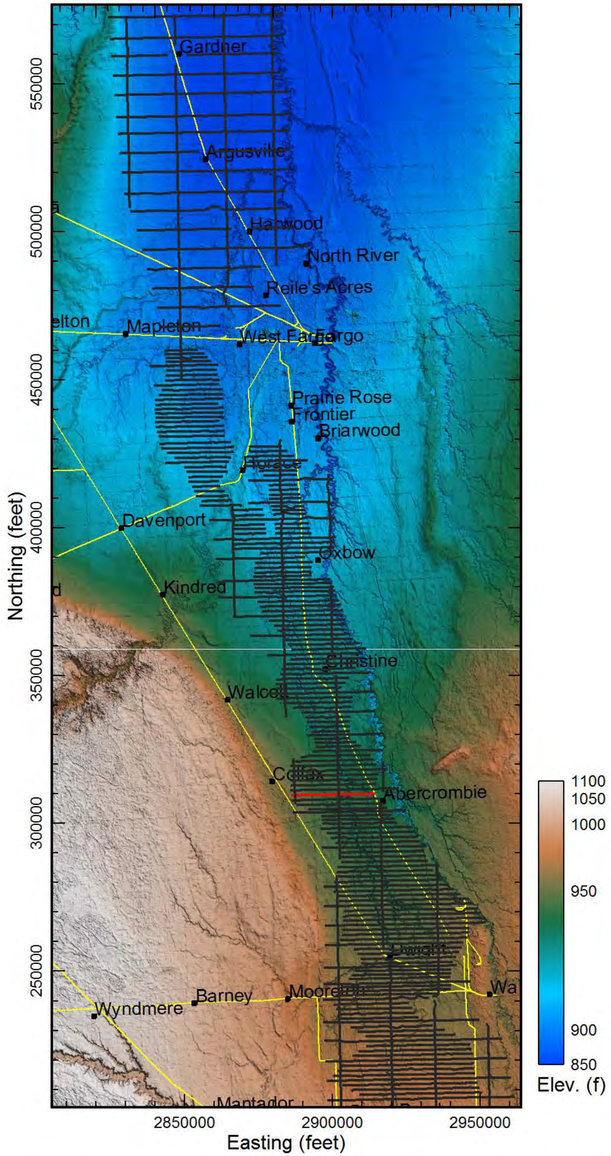

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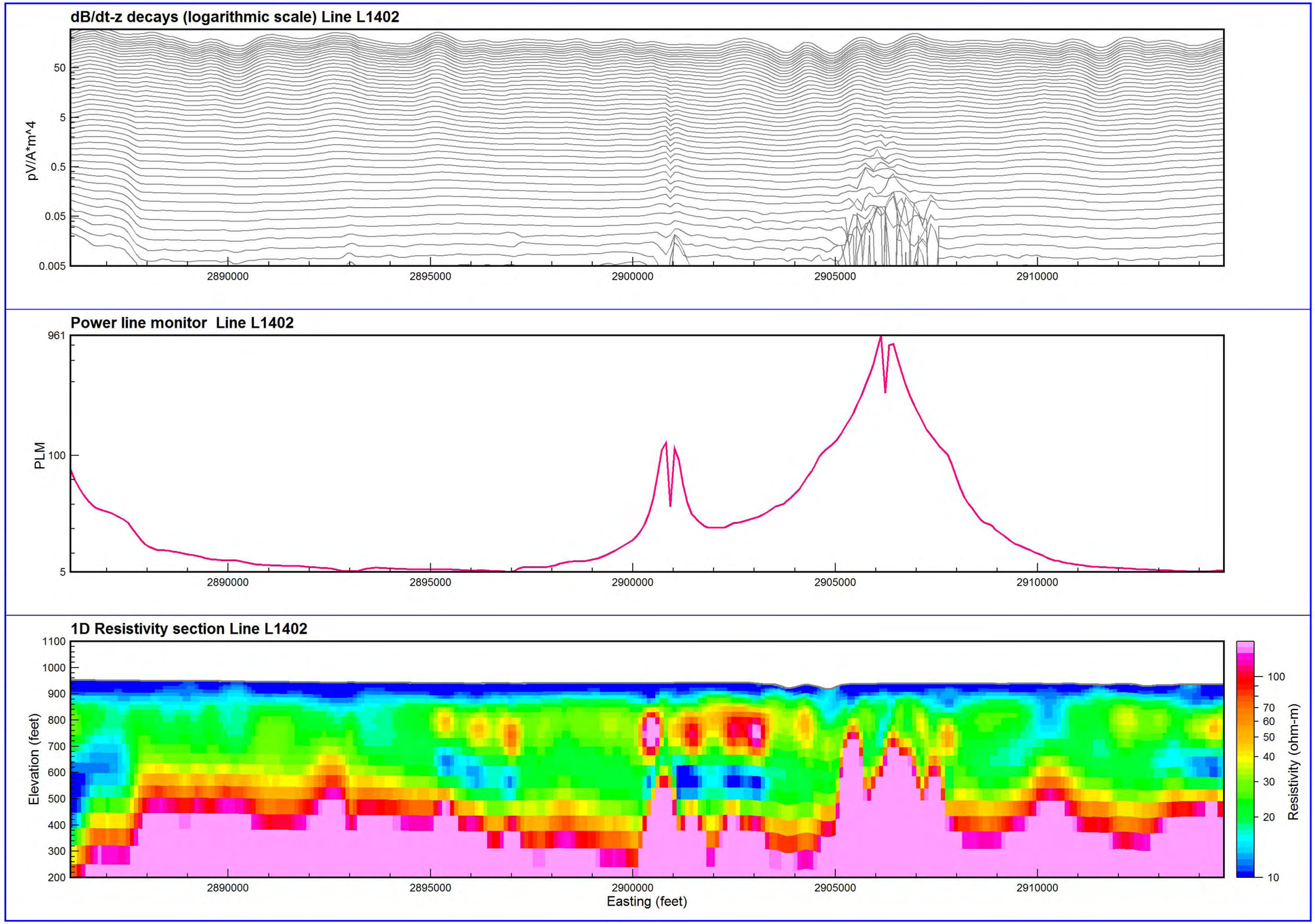

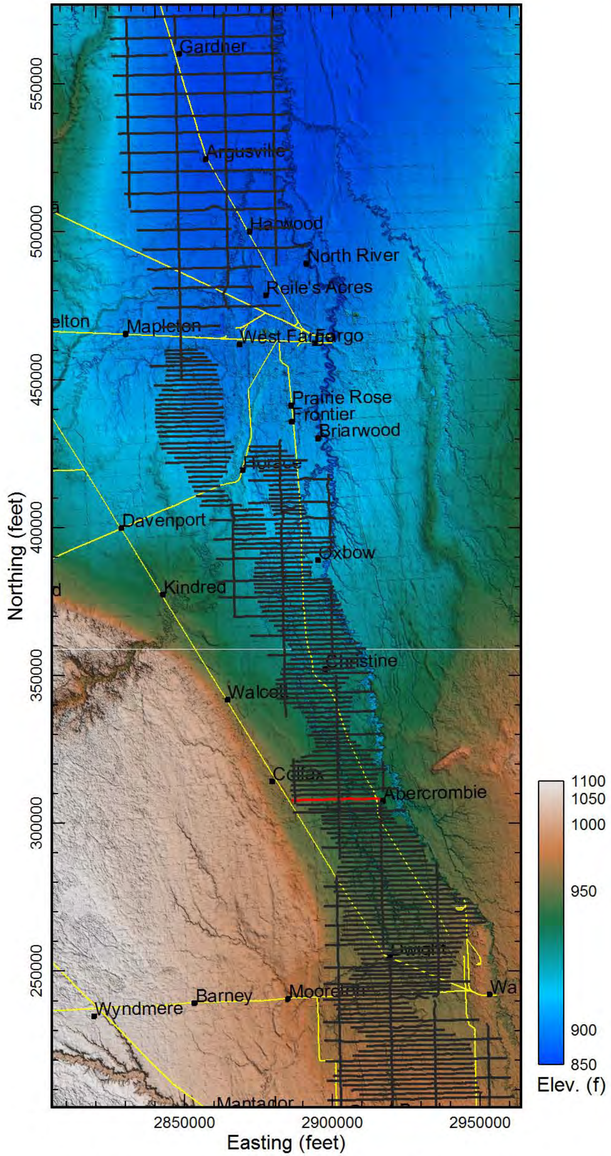

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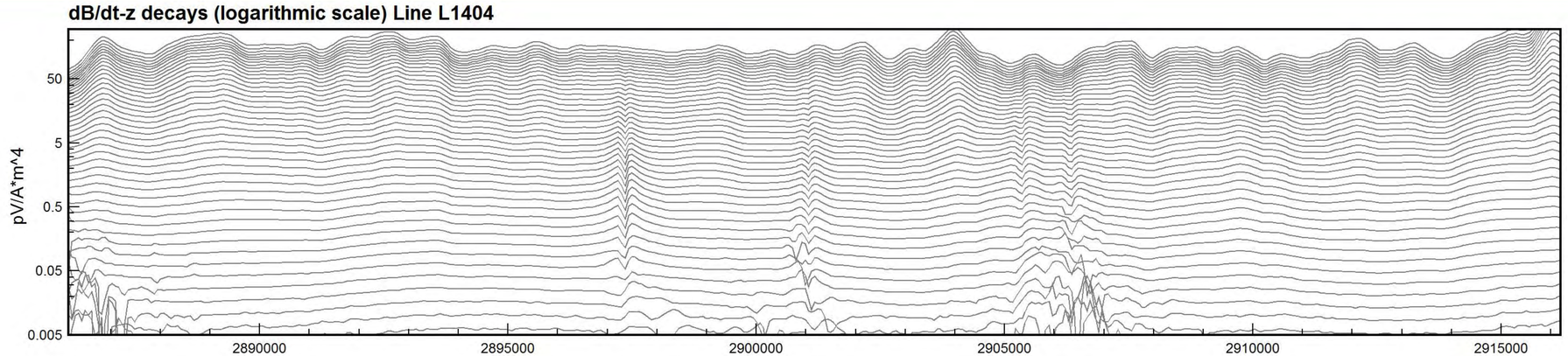

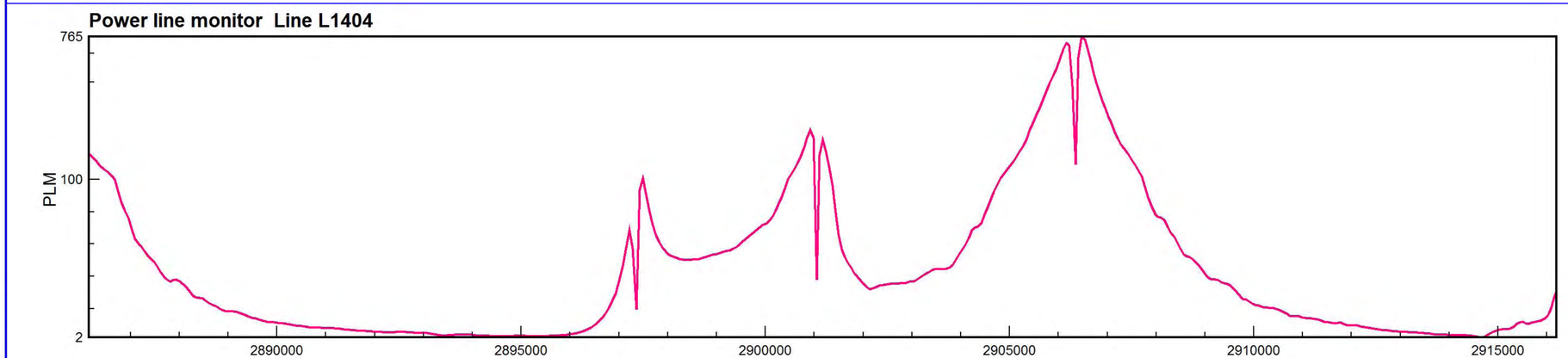

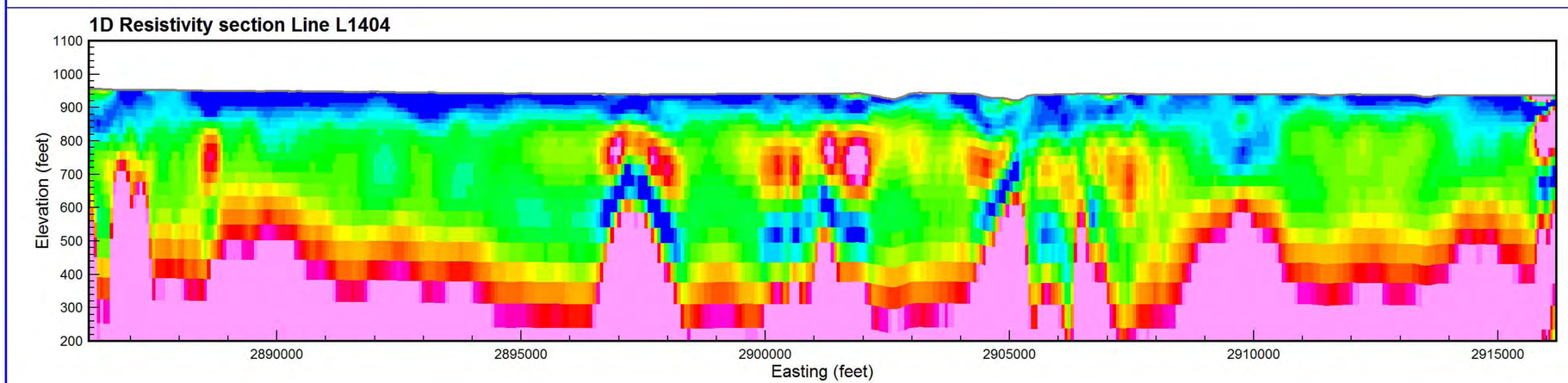

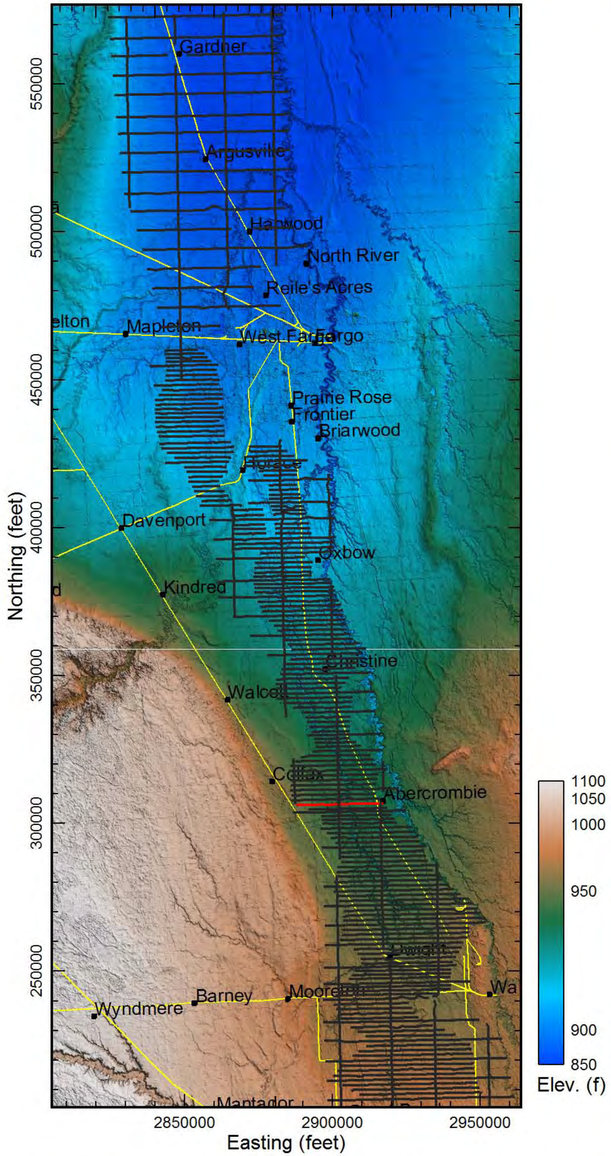

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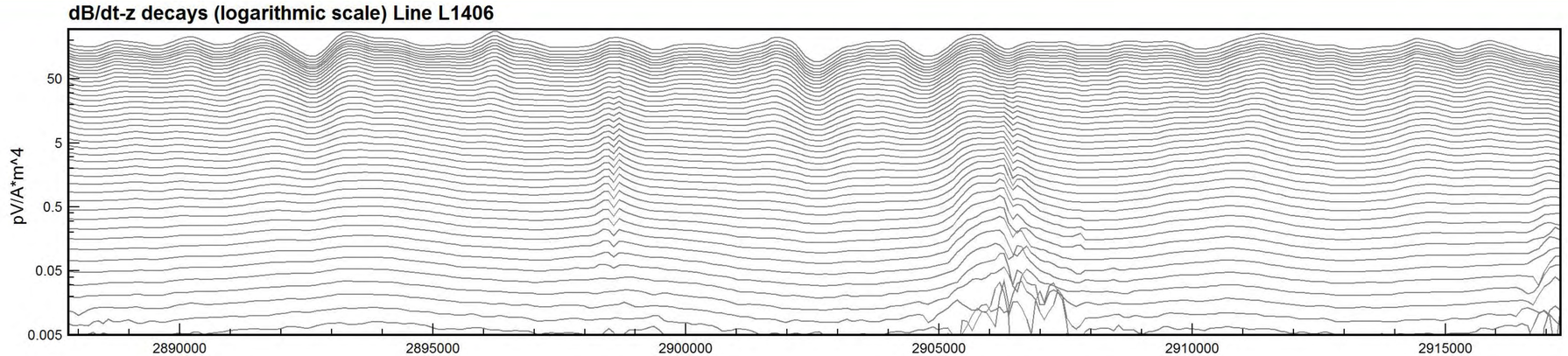

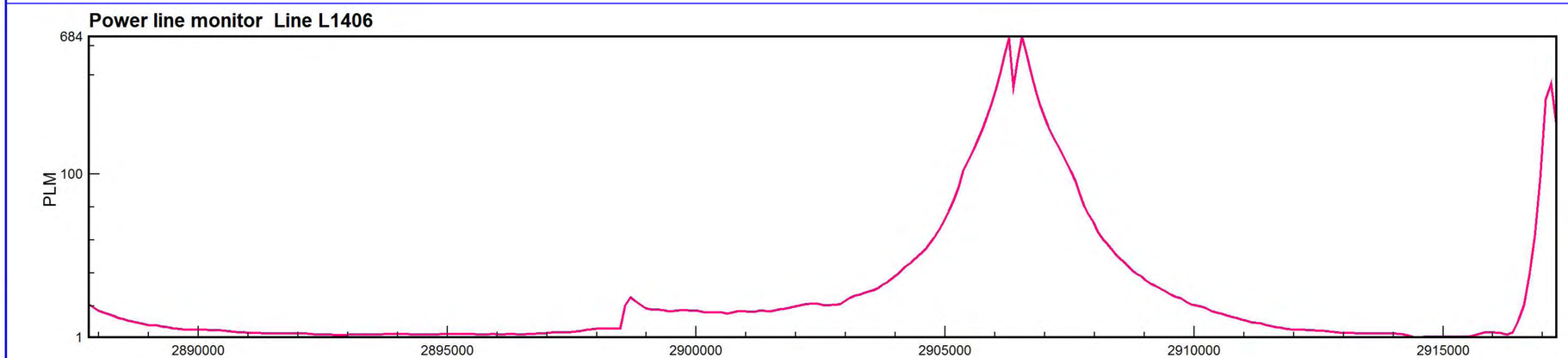

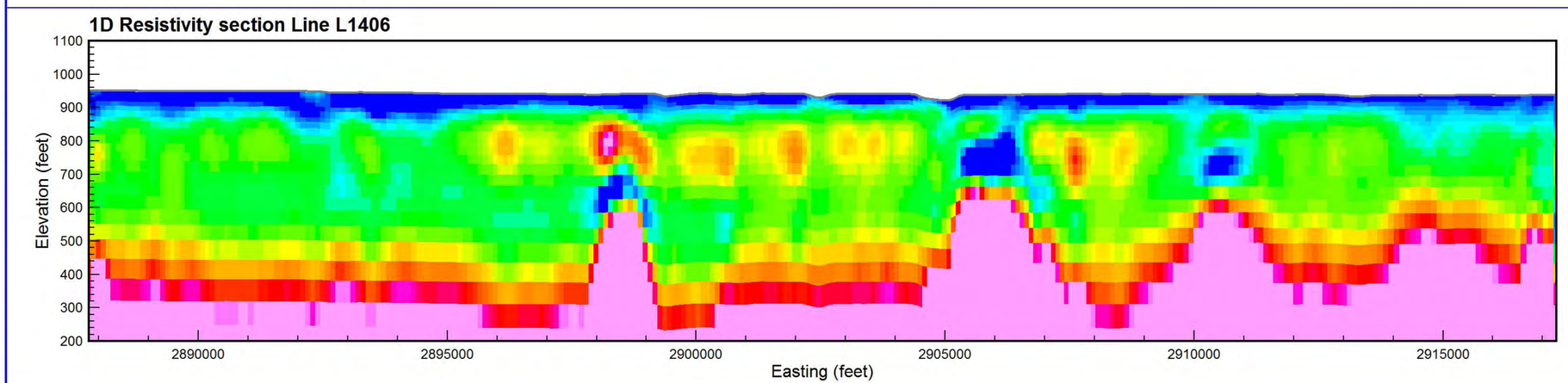

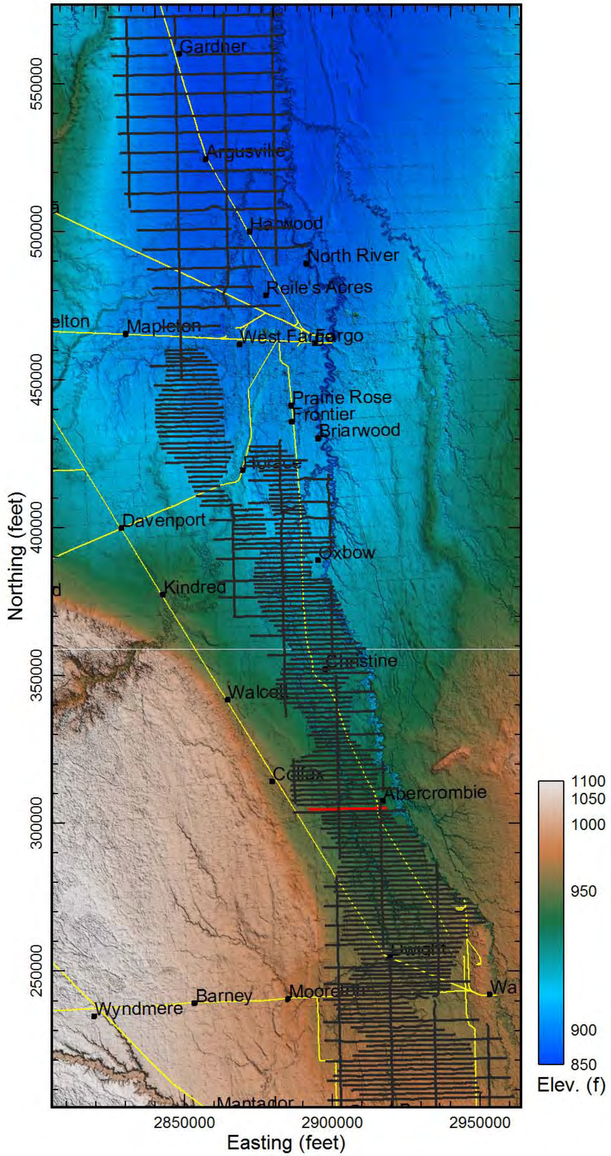

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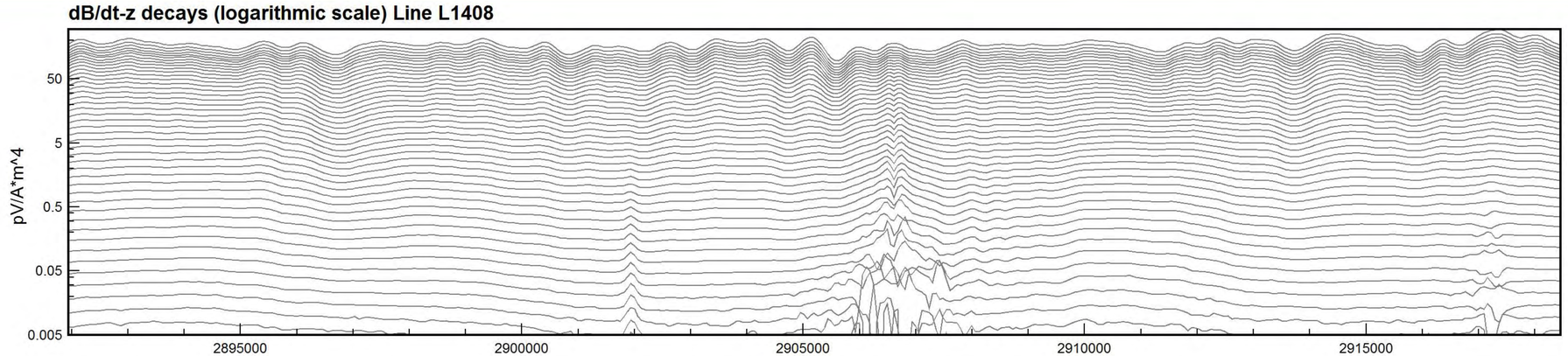

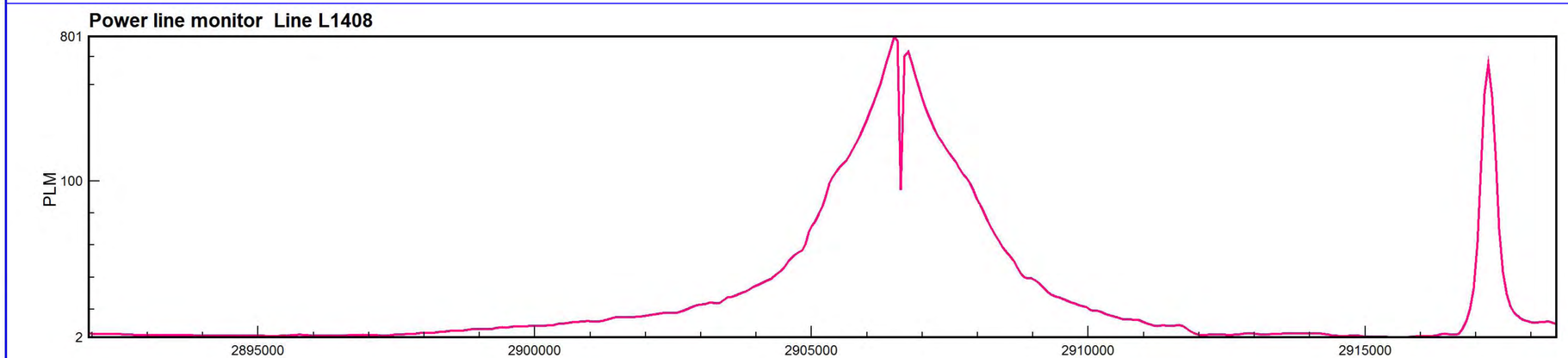

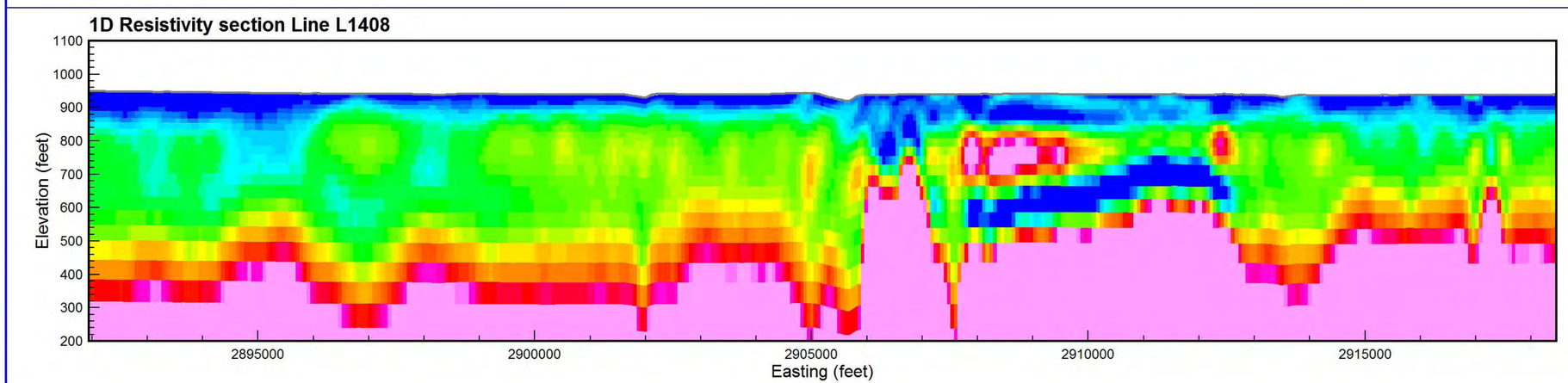

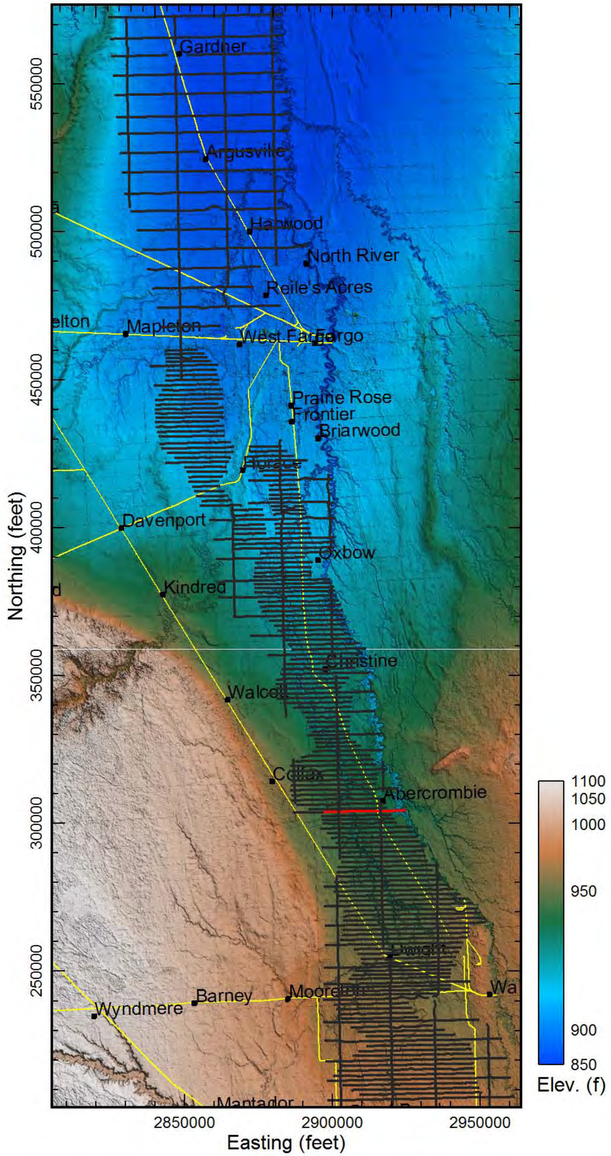

Map projection: NAD83 SPN Dakota South (int. feet)

Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

Date: Feb. 2, 2018

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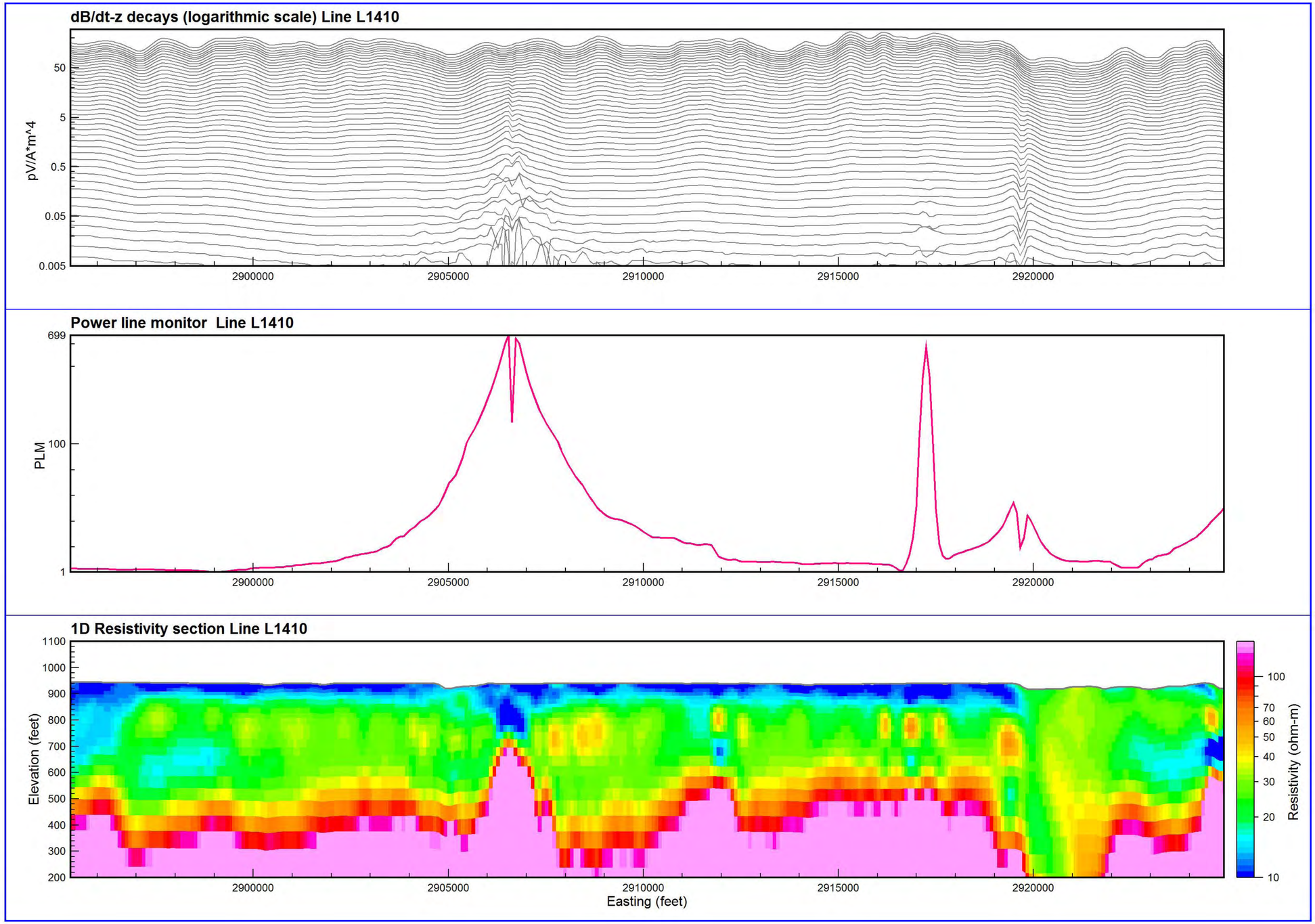

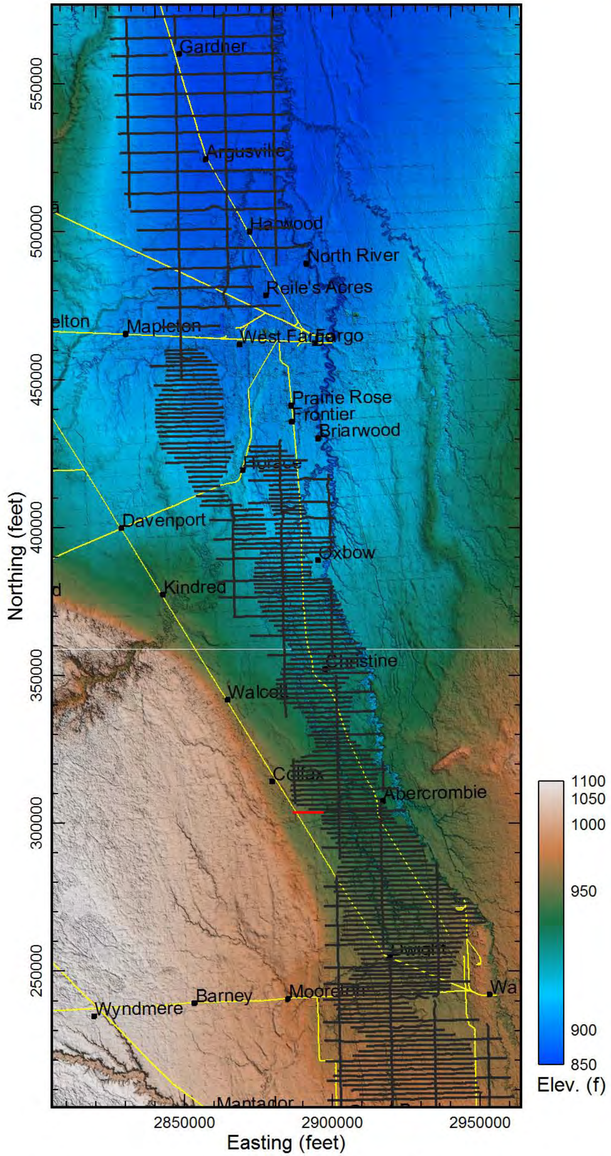

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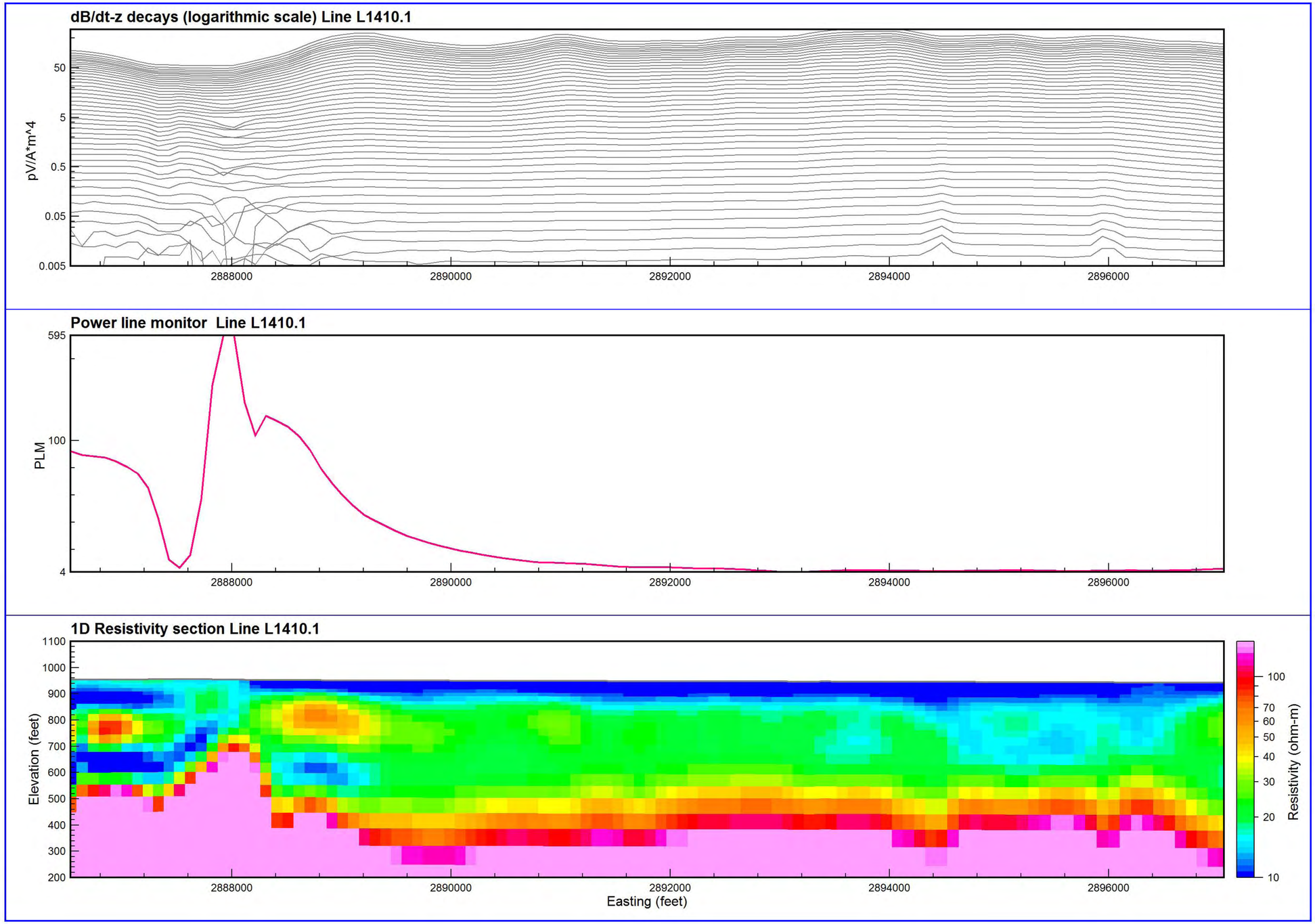

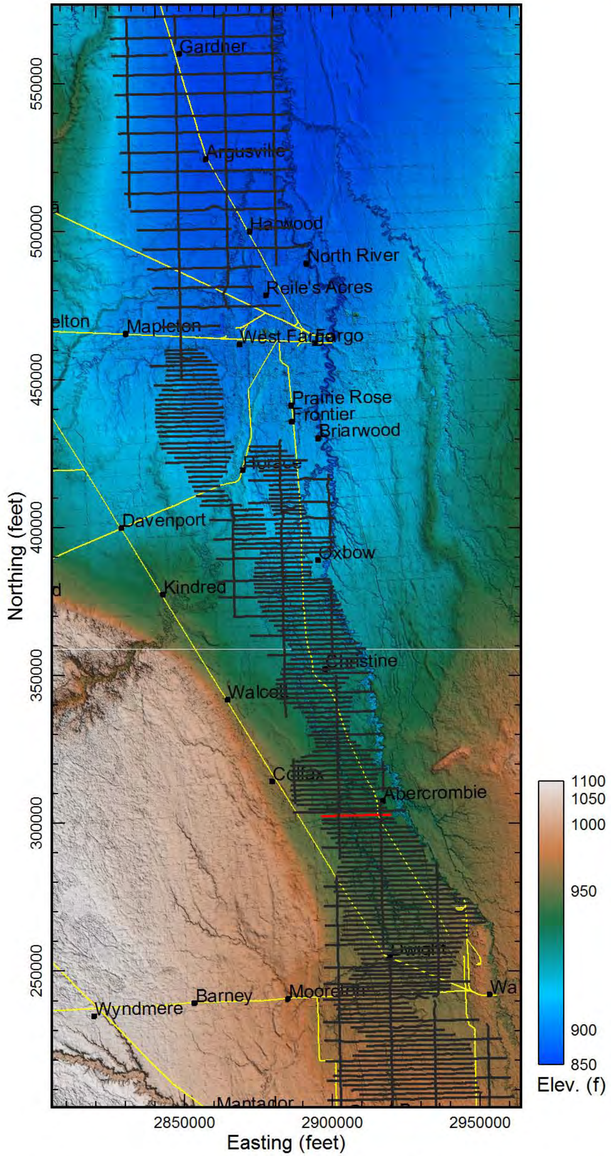

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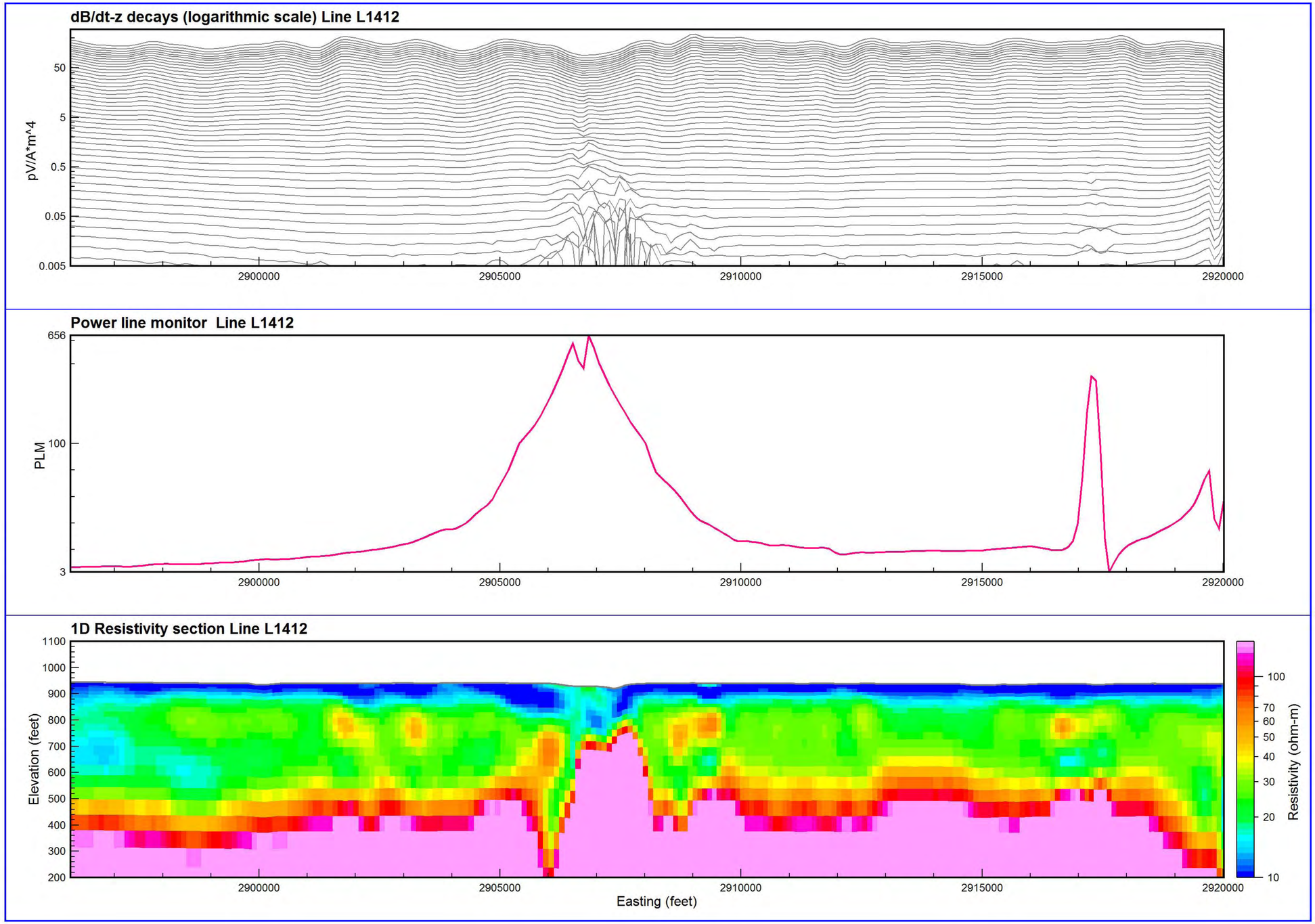

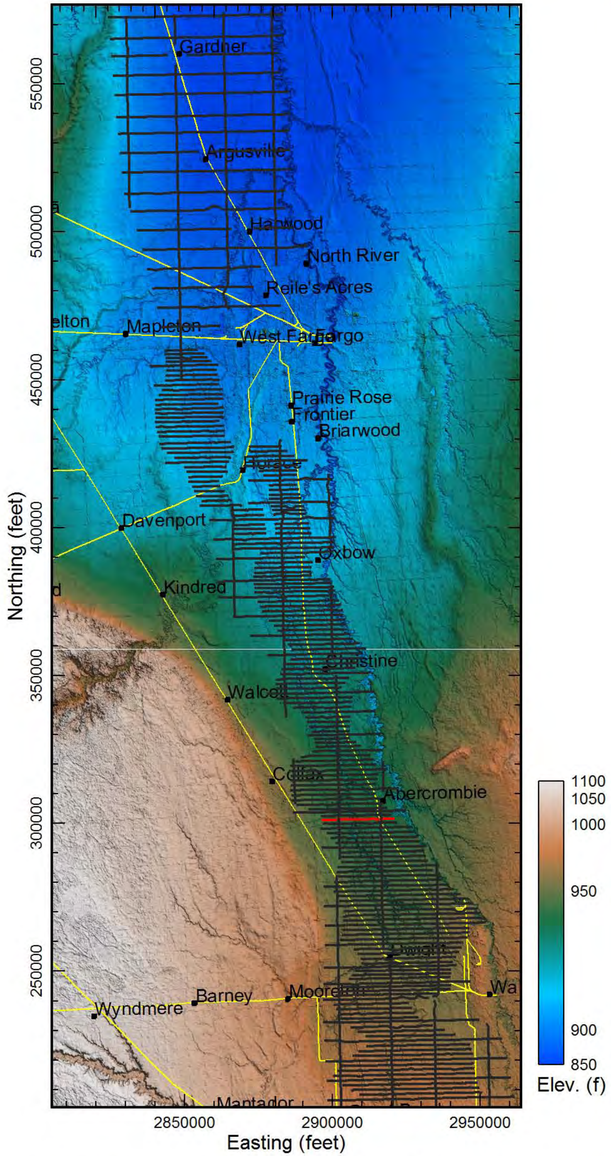

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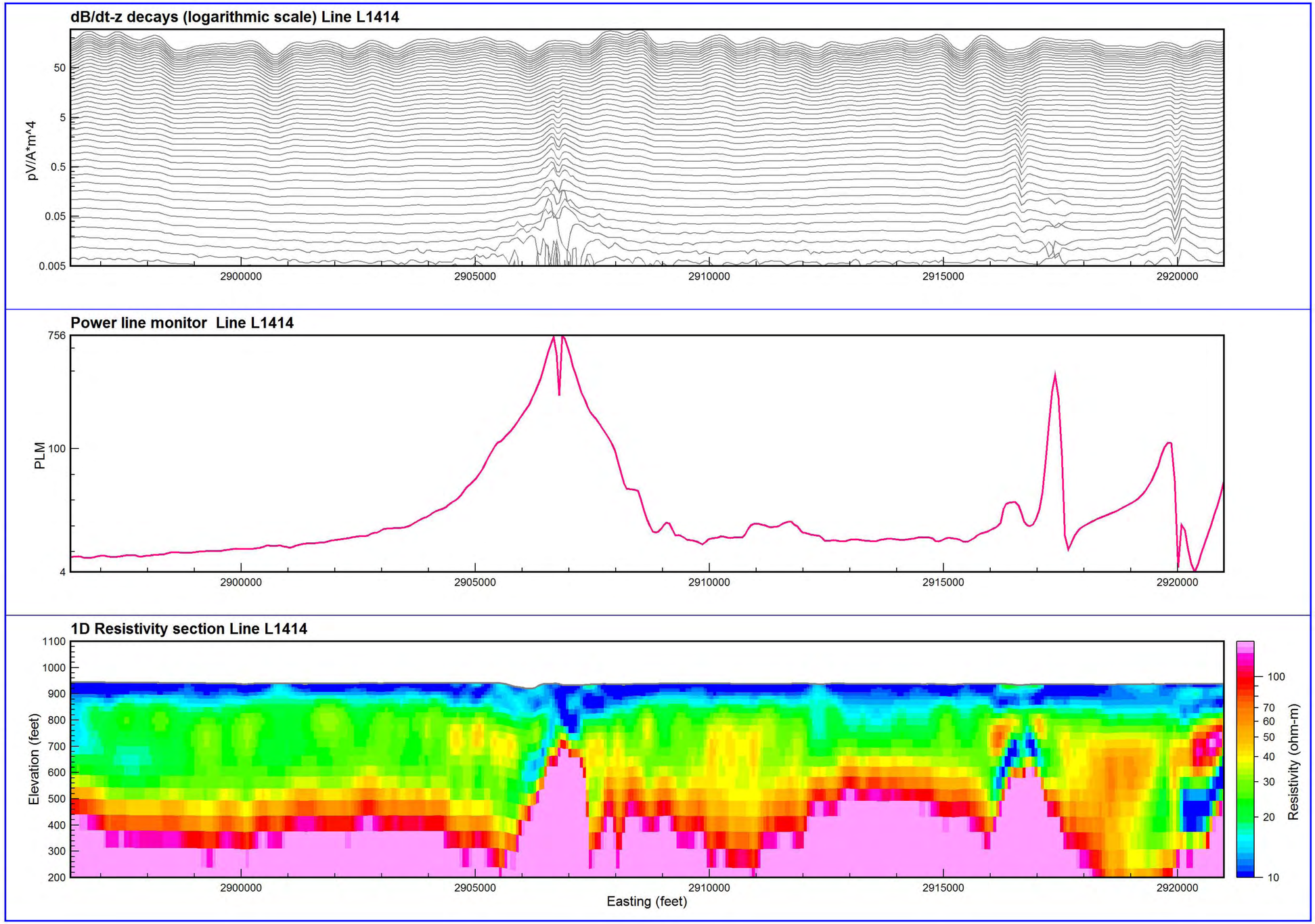

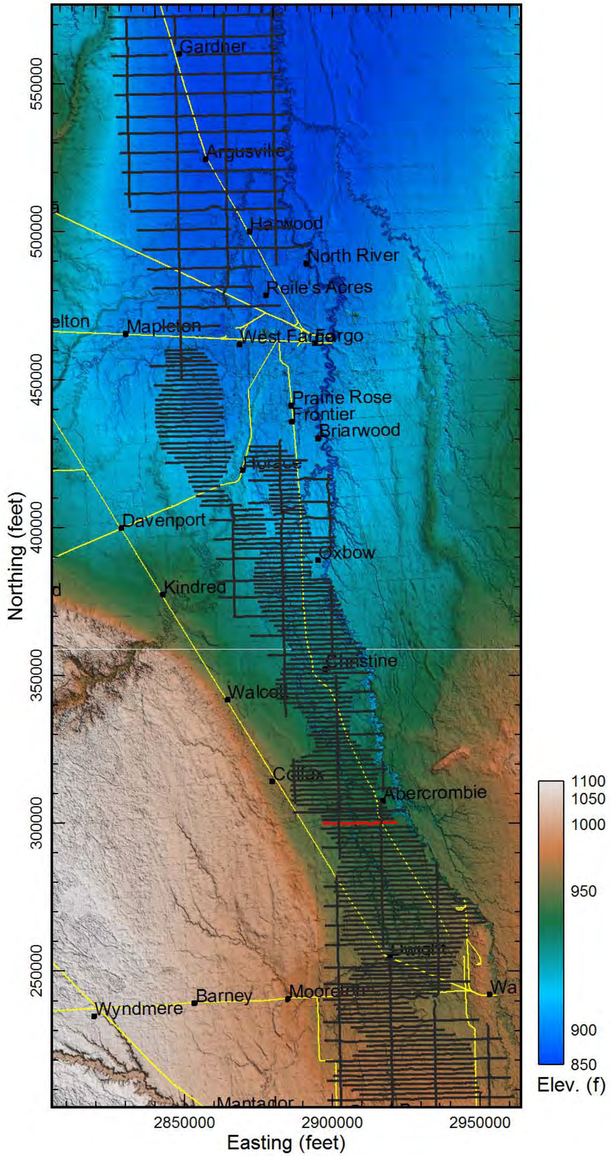

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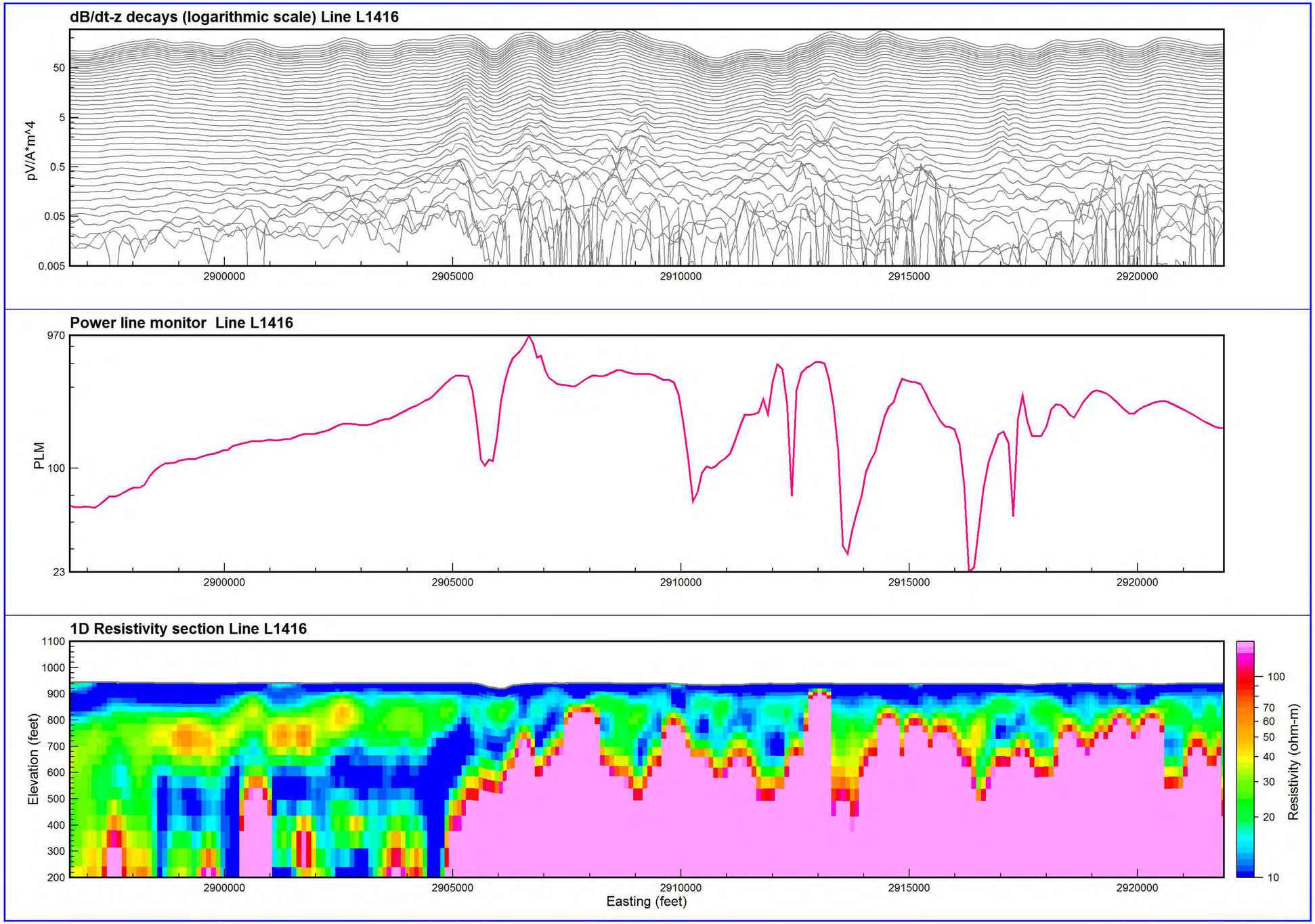

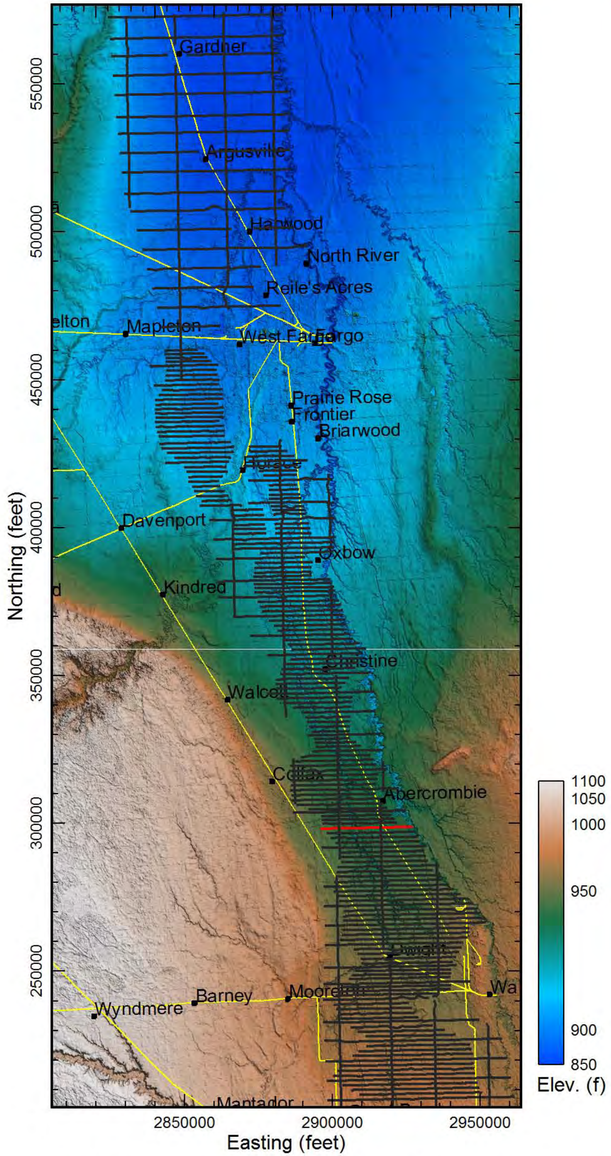

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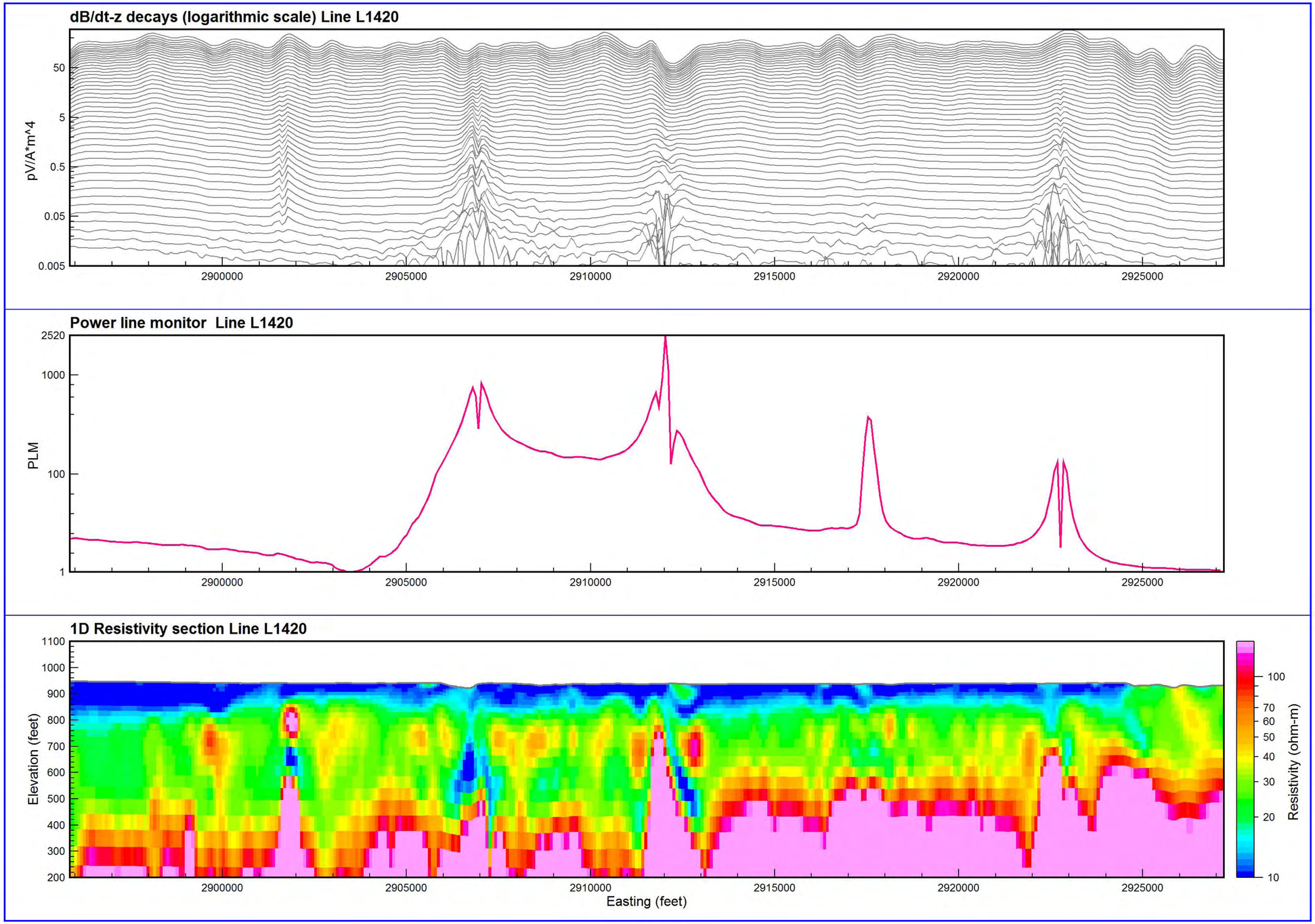

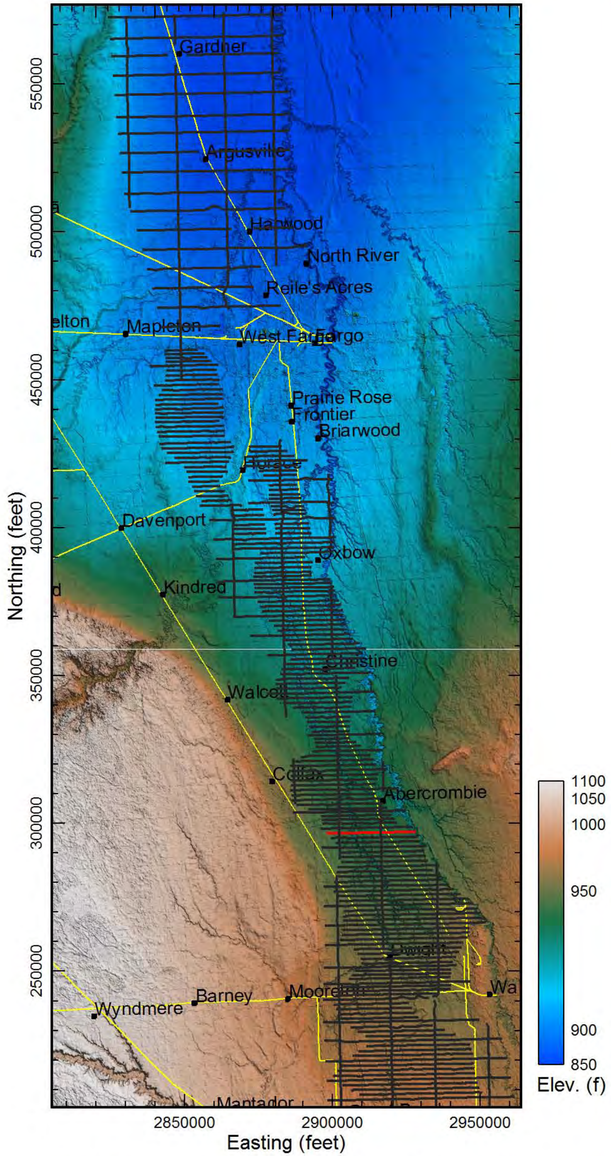

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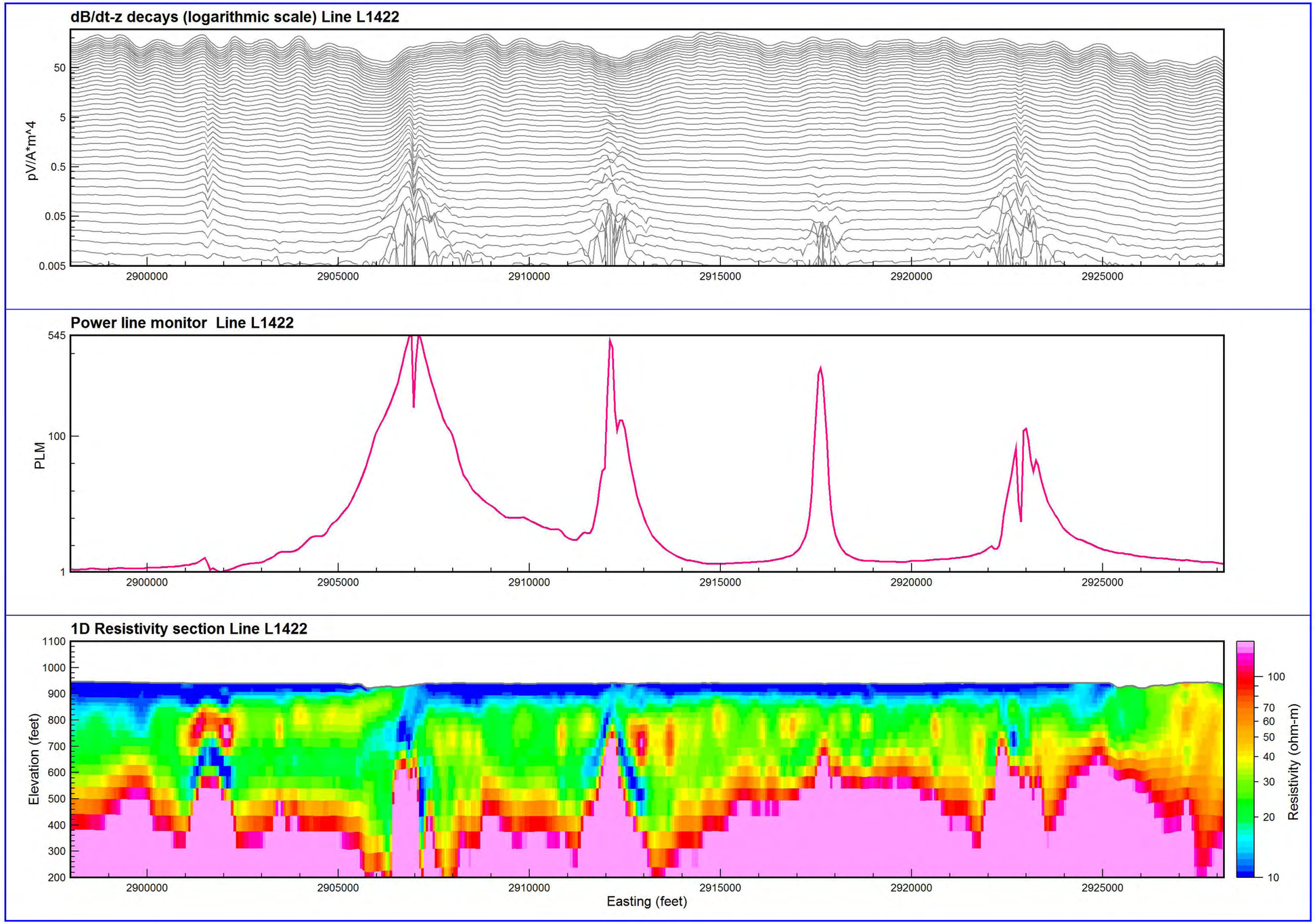

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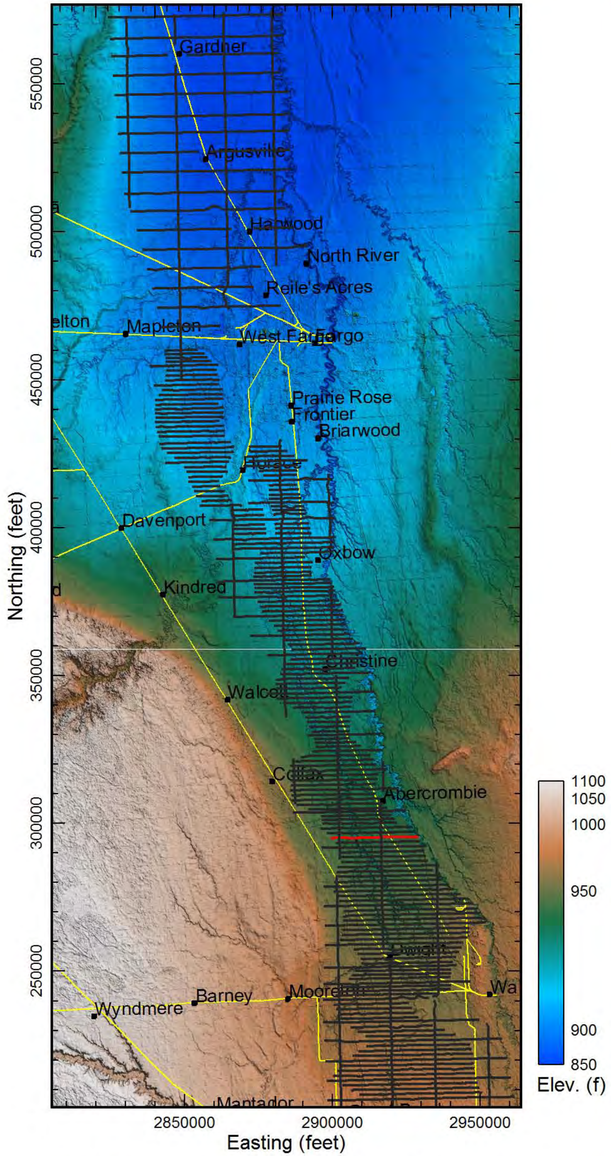

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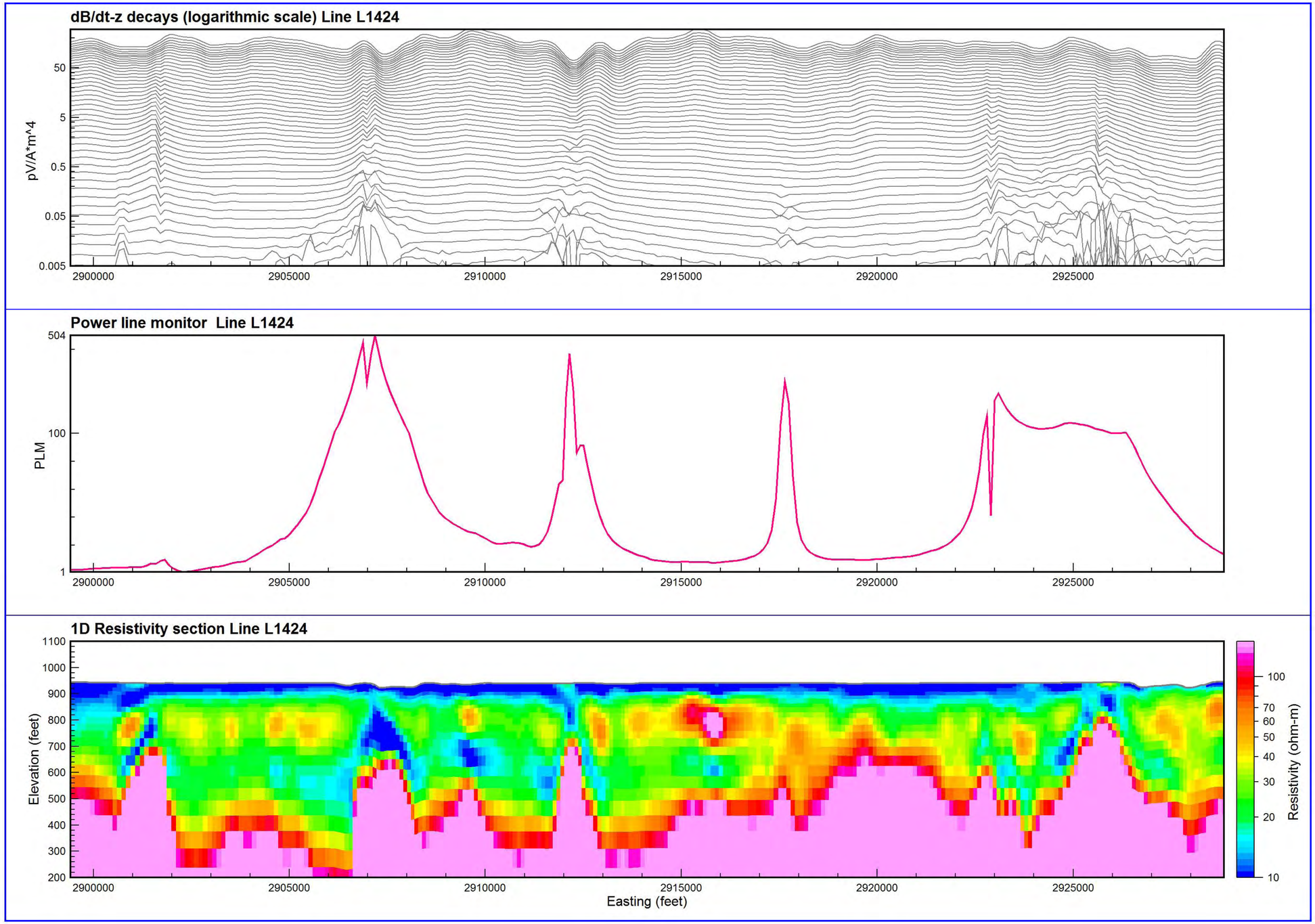

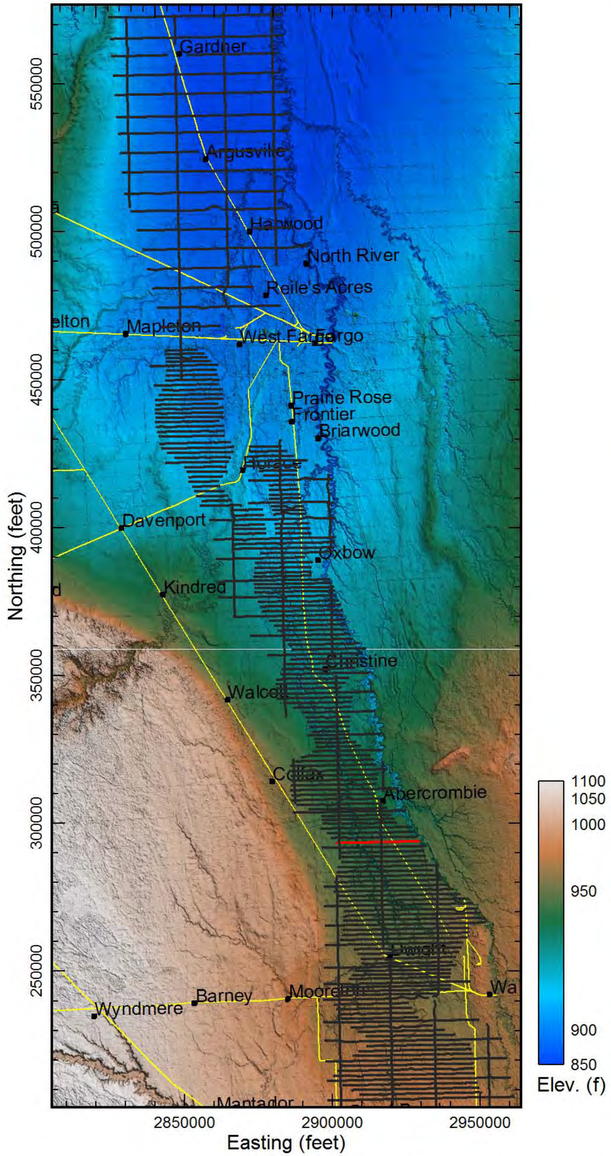

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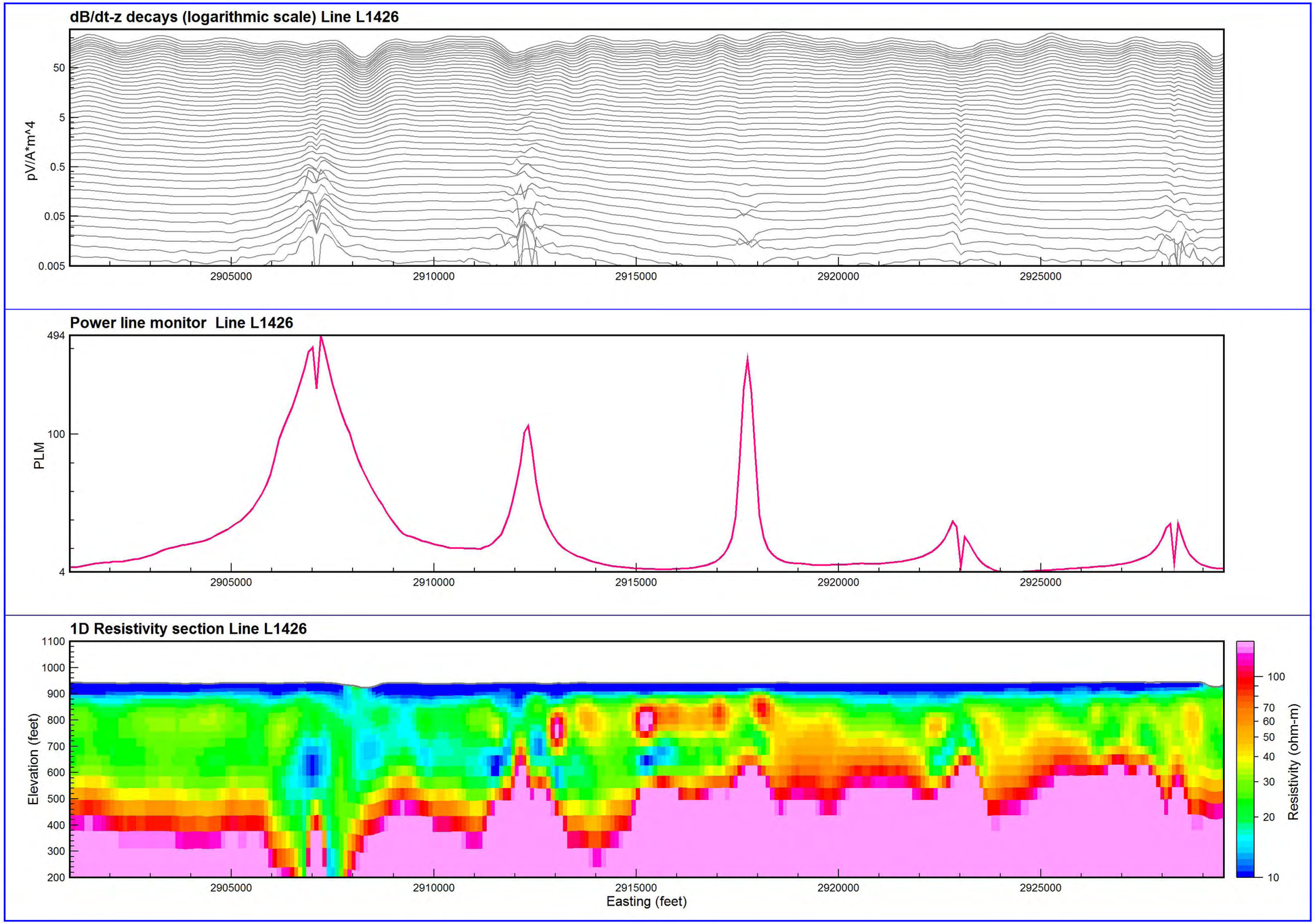

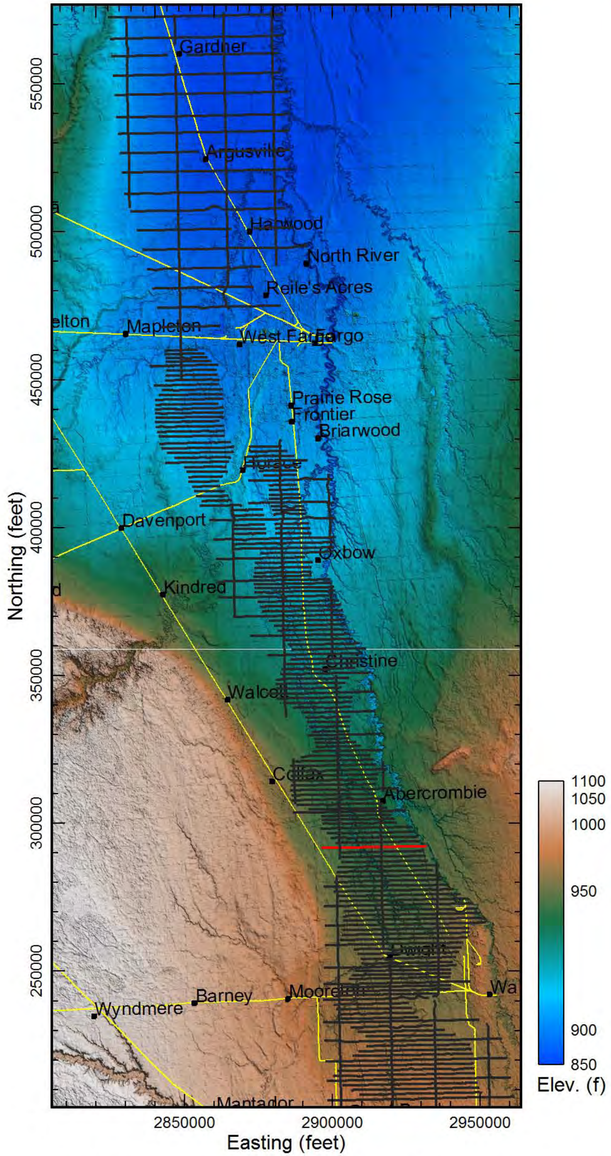

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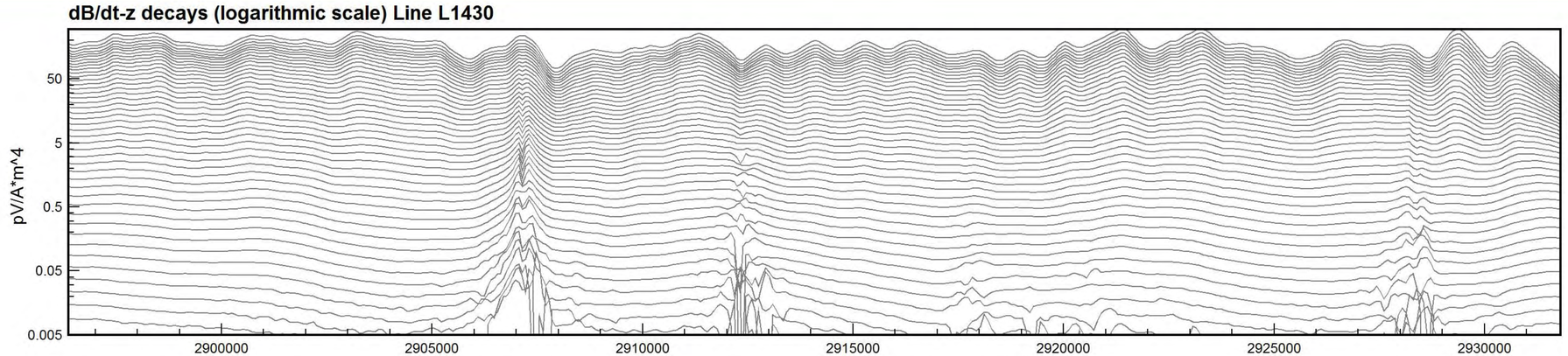

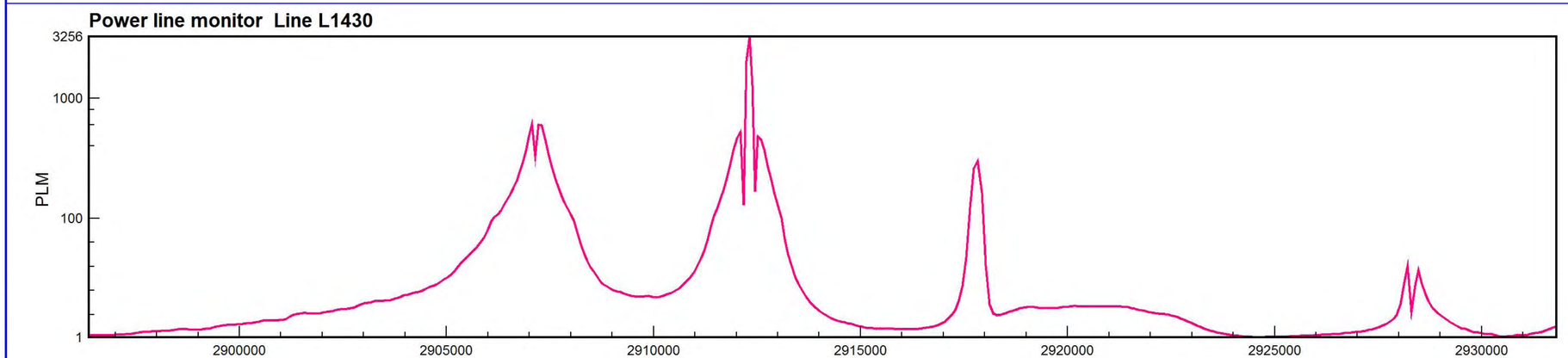

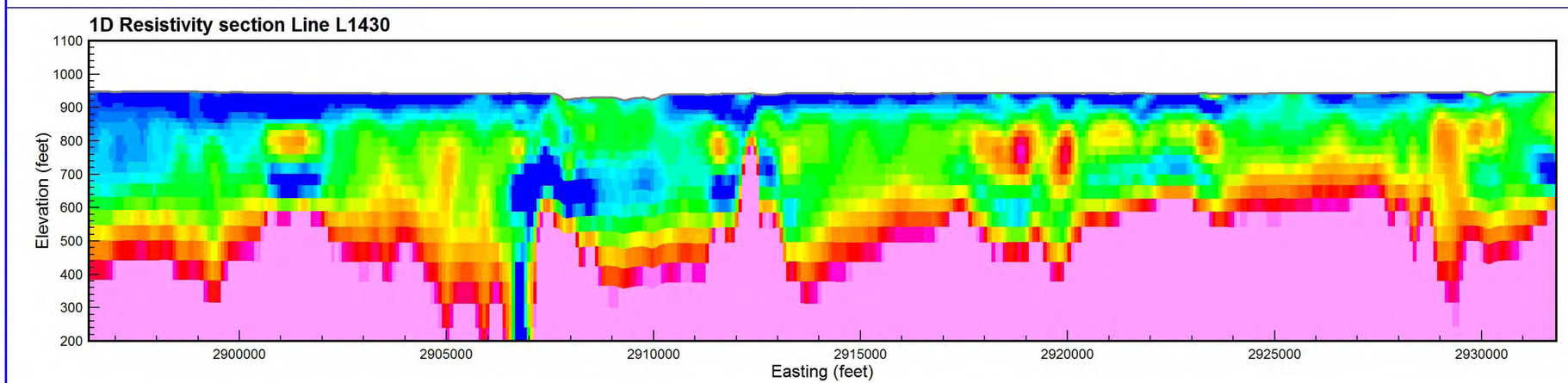

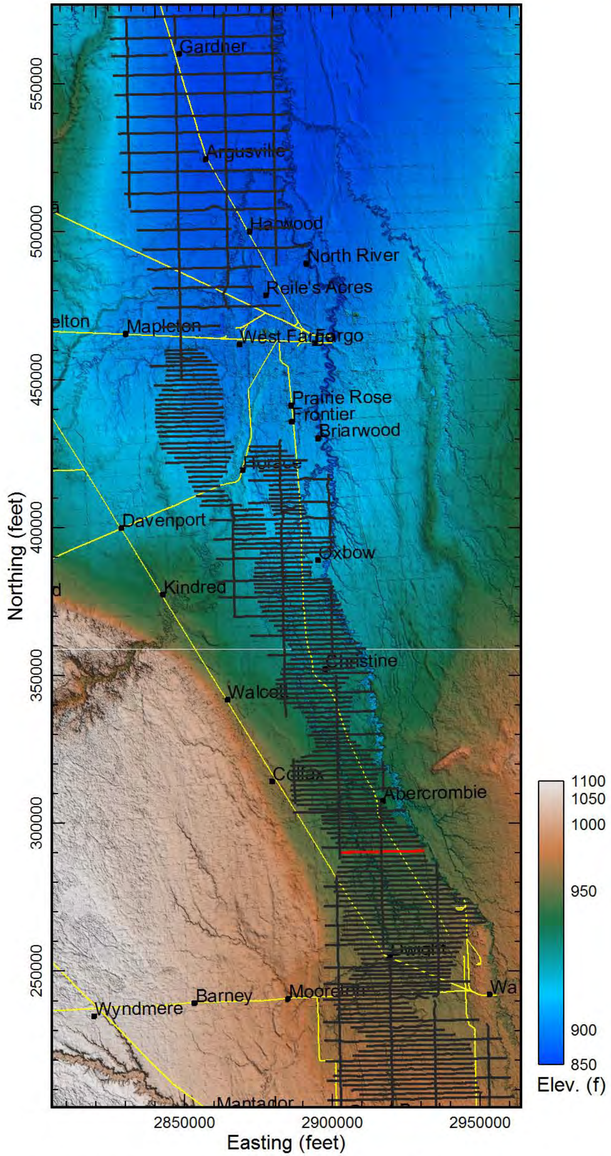

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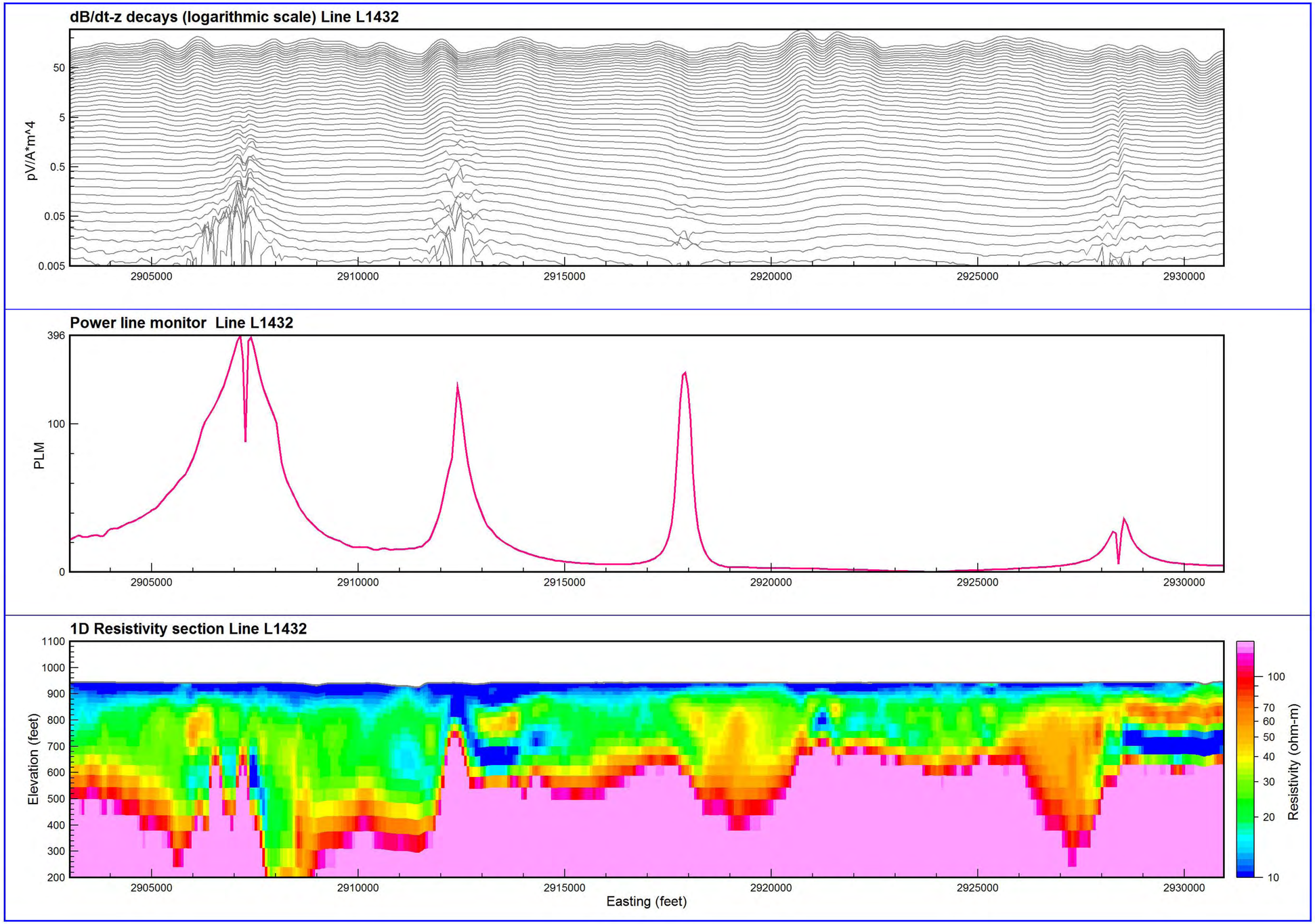

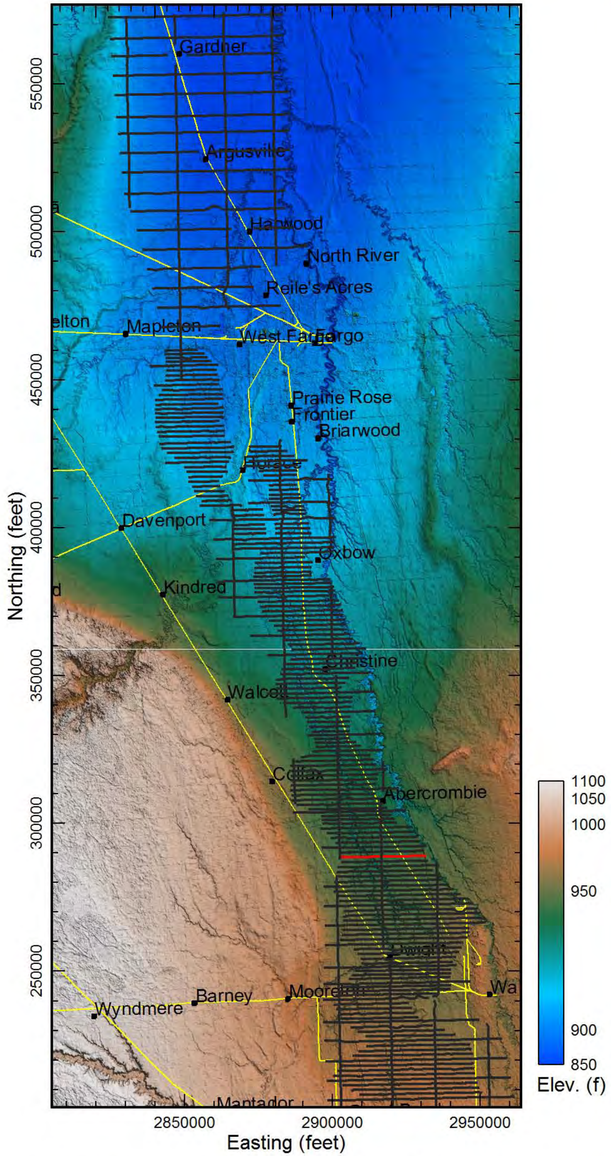

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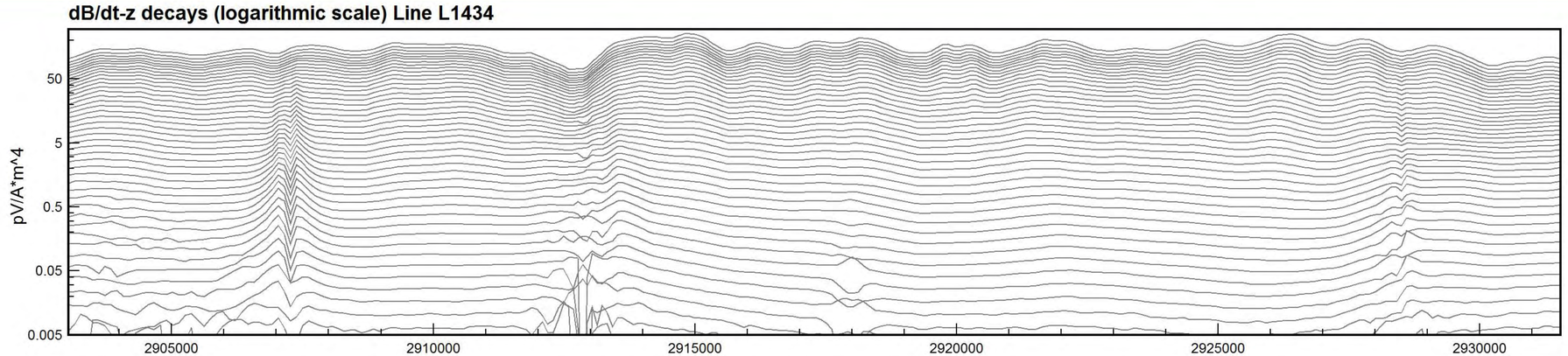

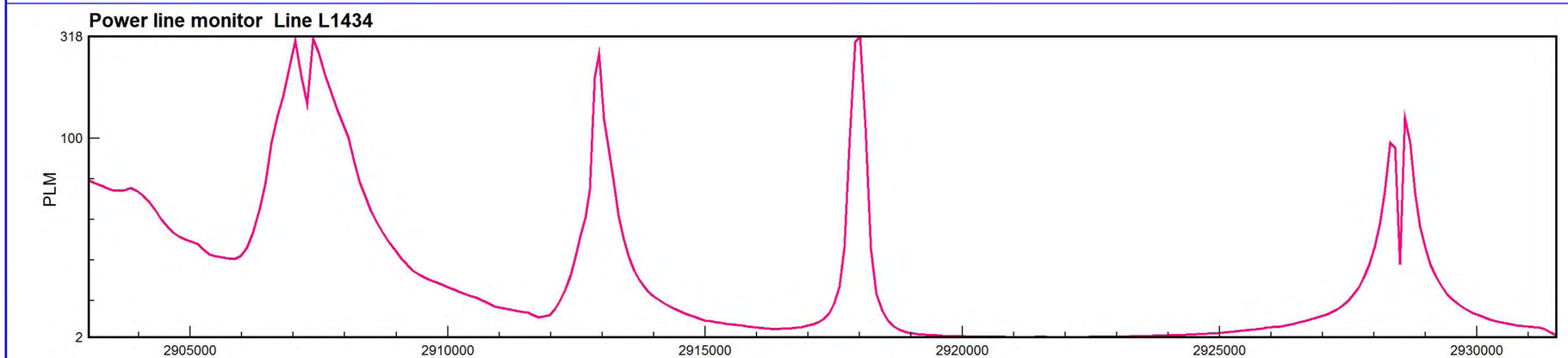

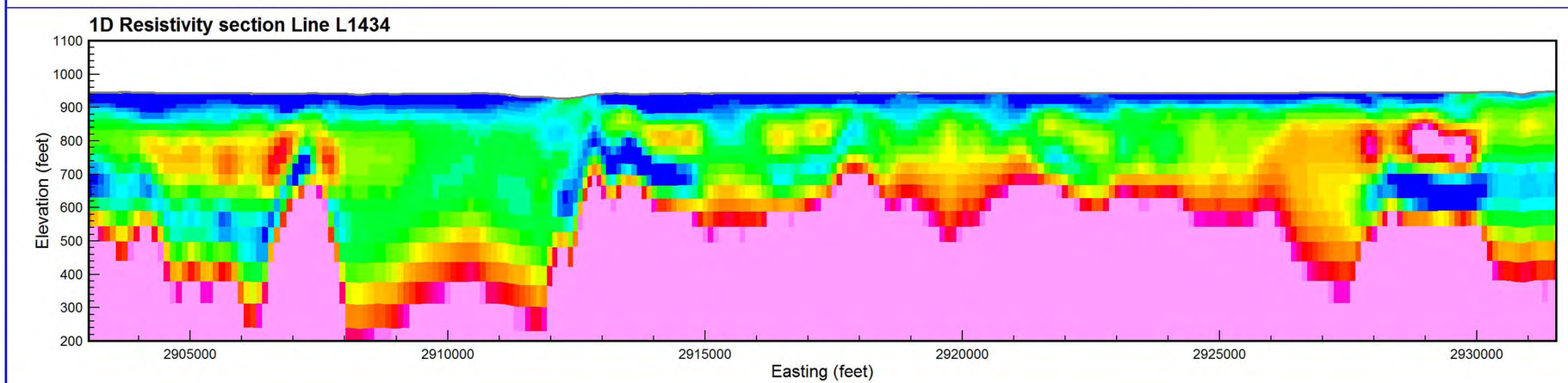

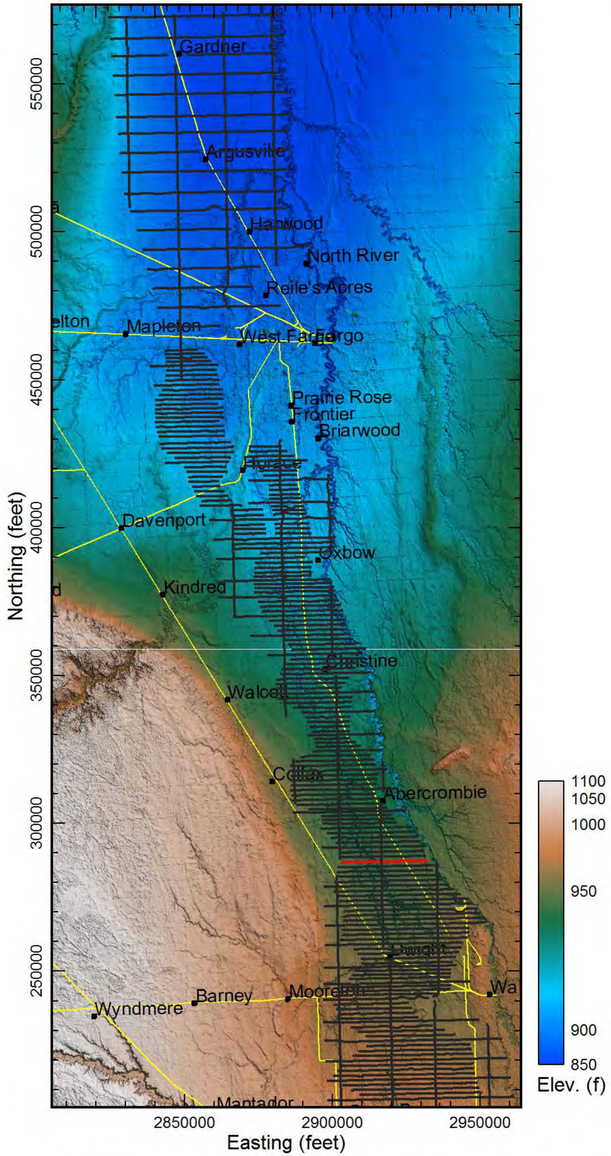

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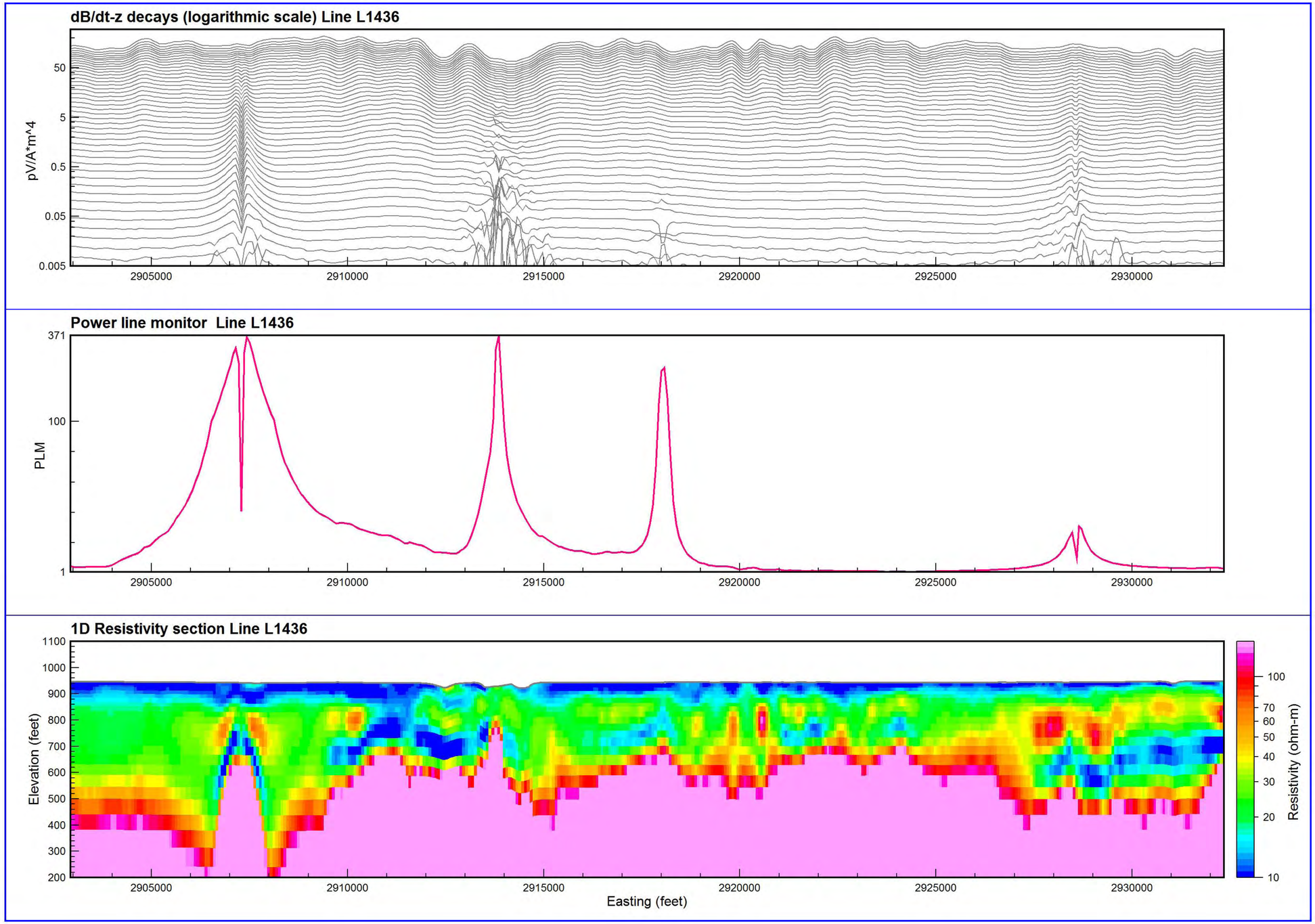

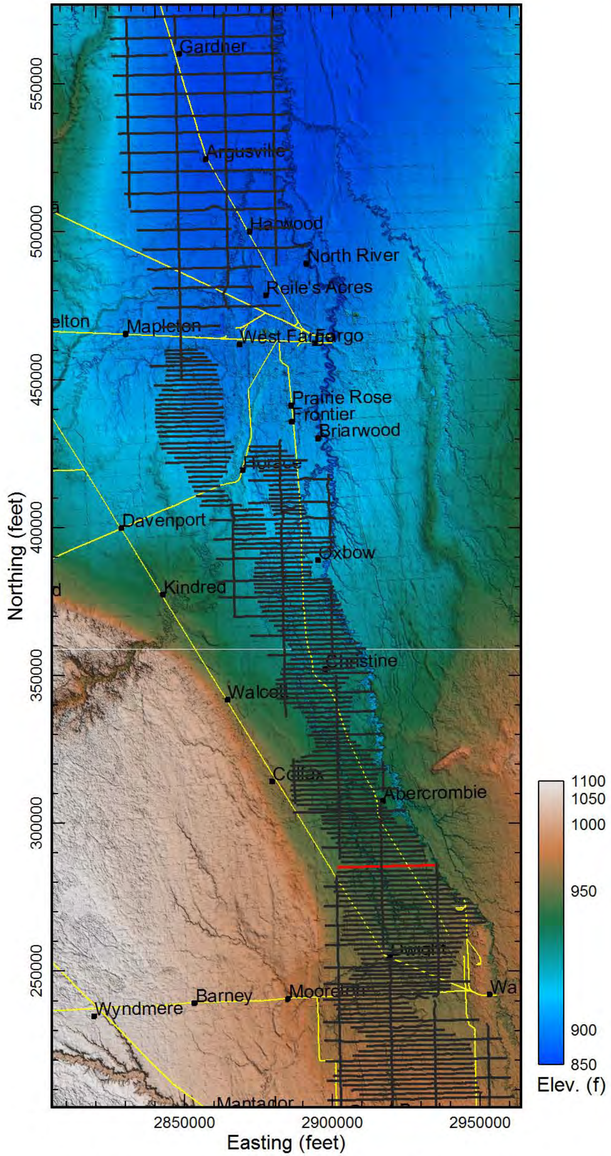

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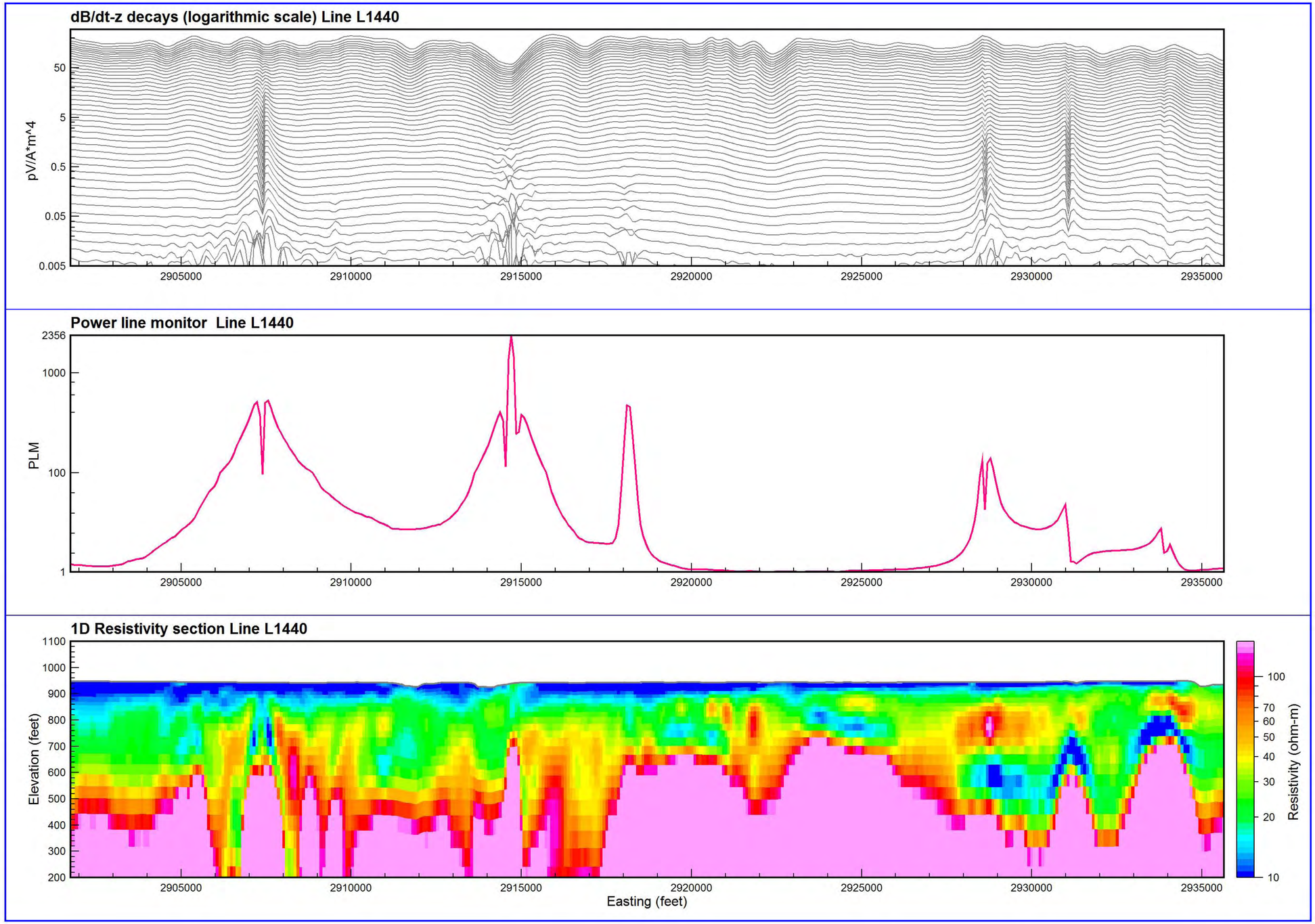

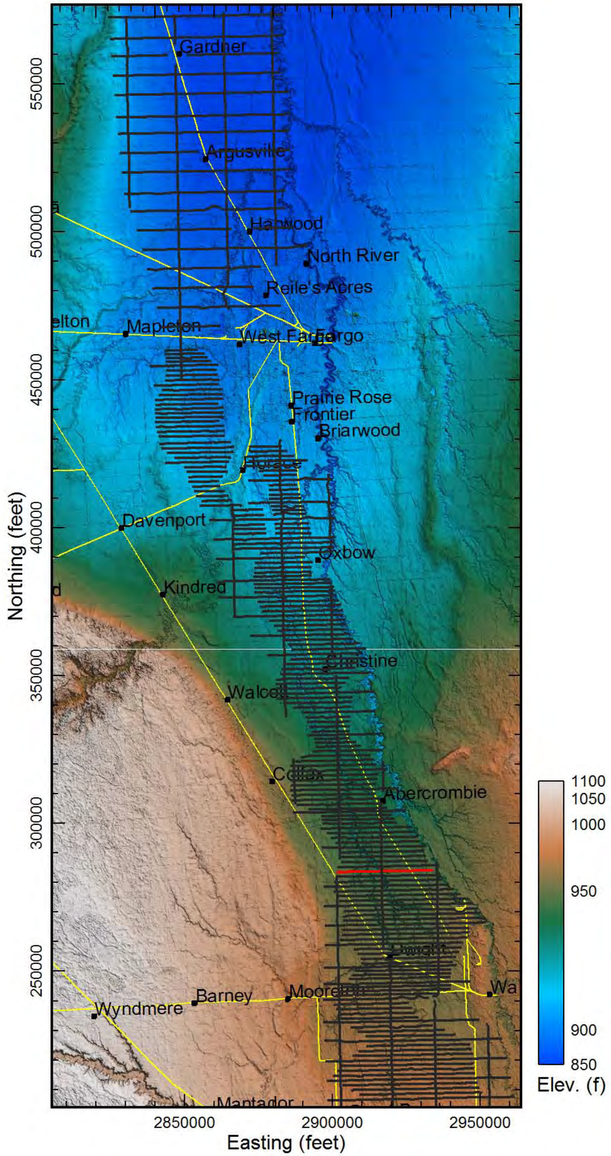

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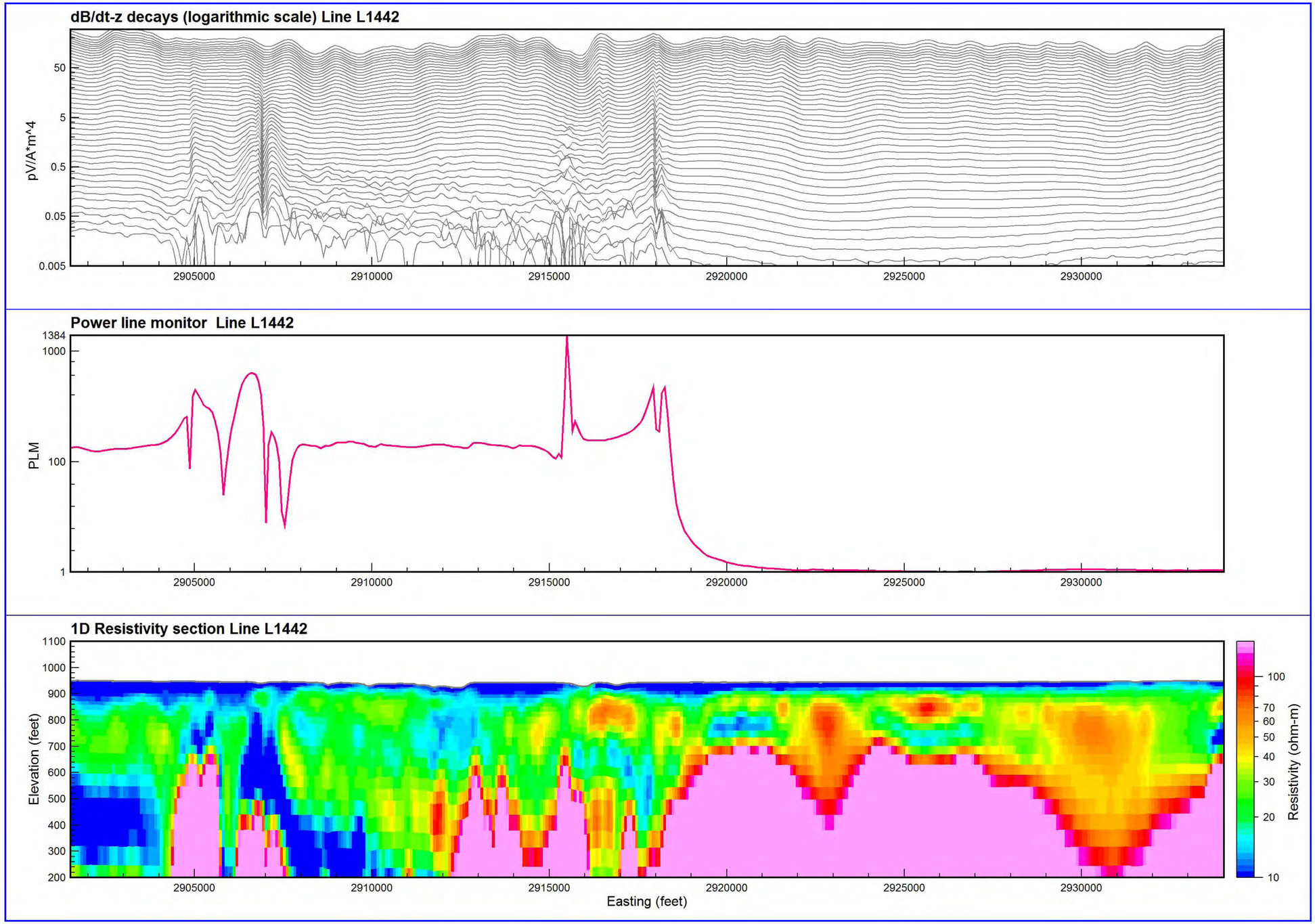

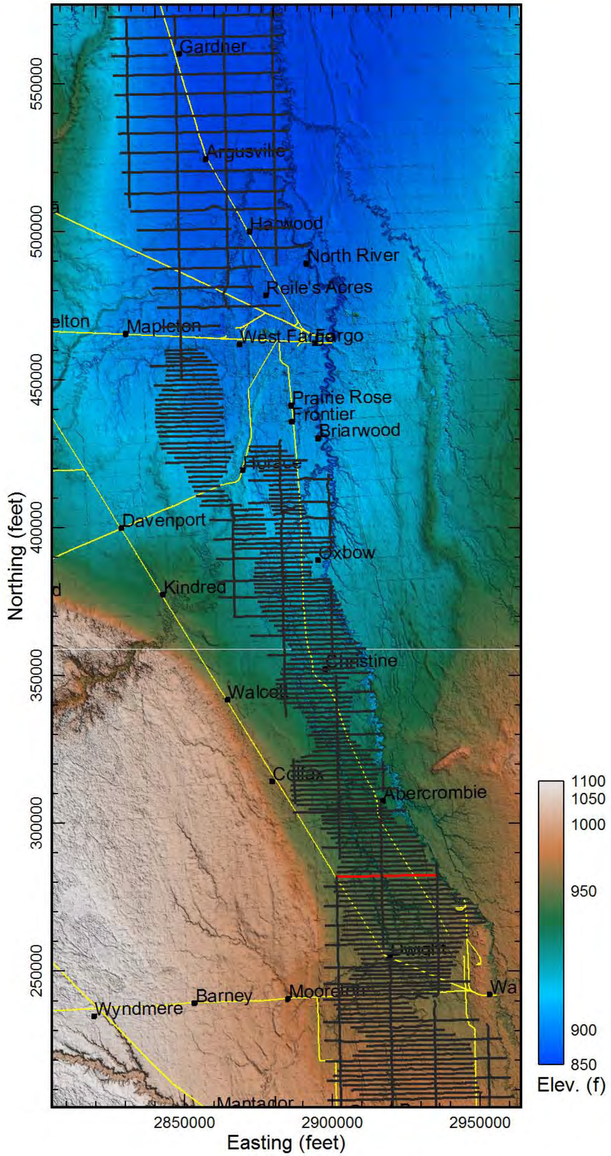

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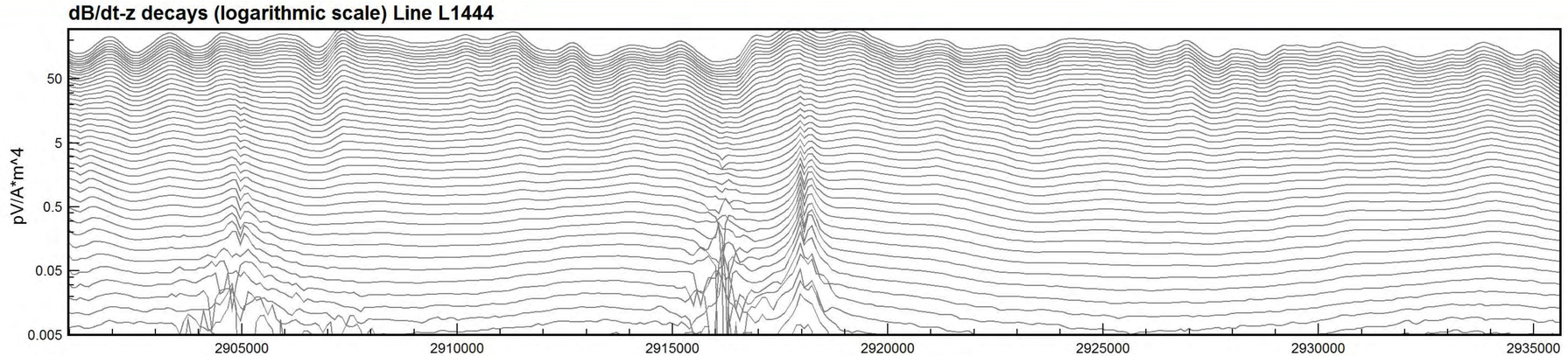

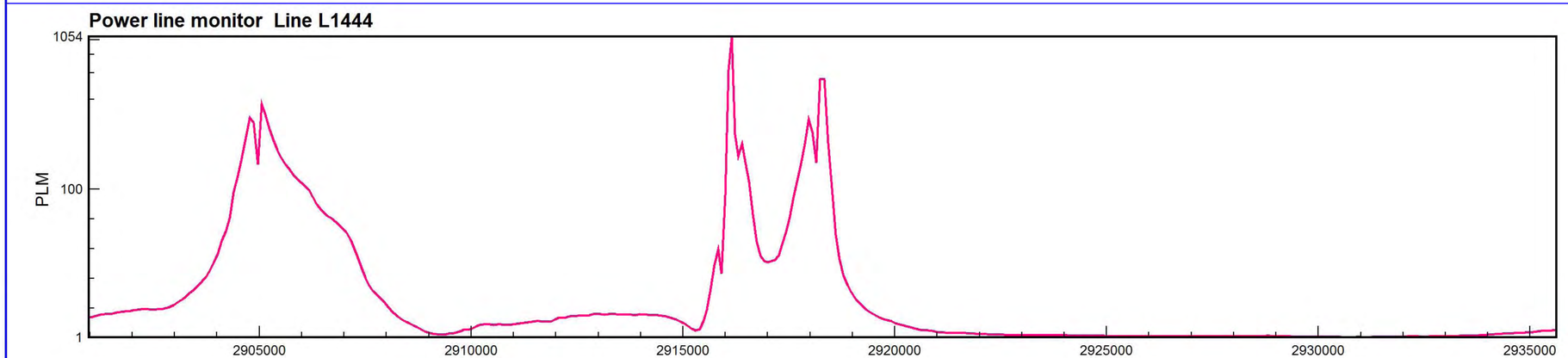

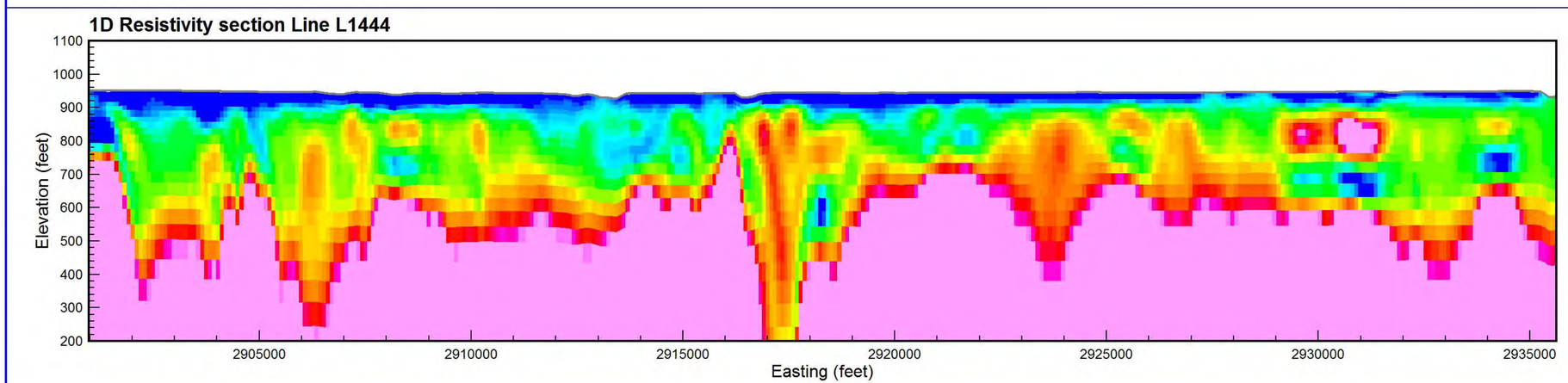

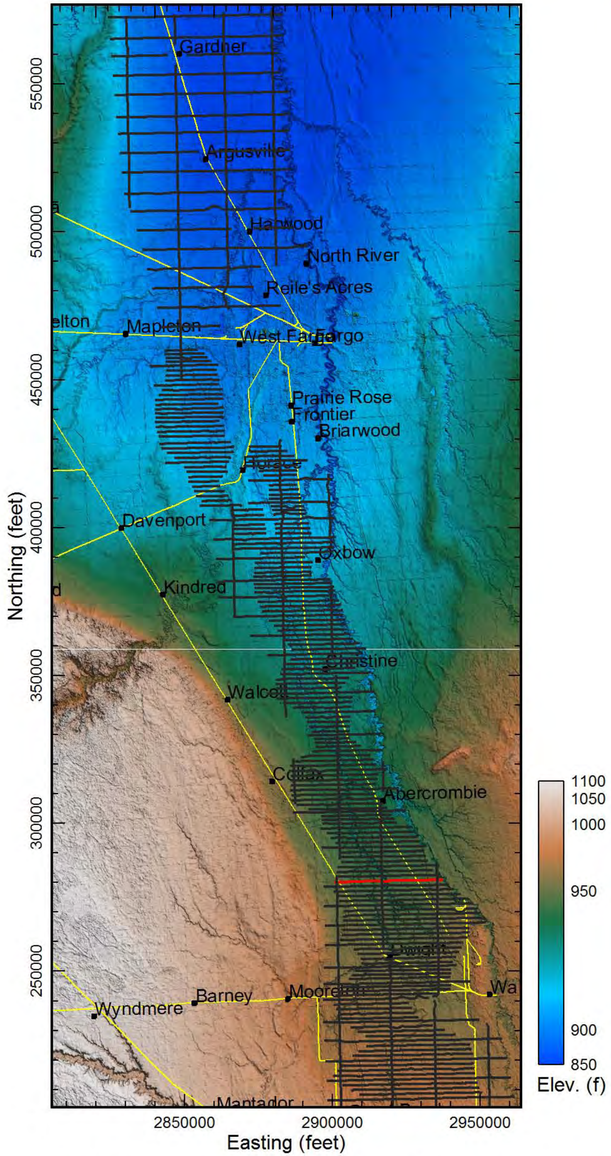

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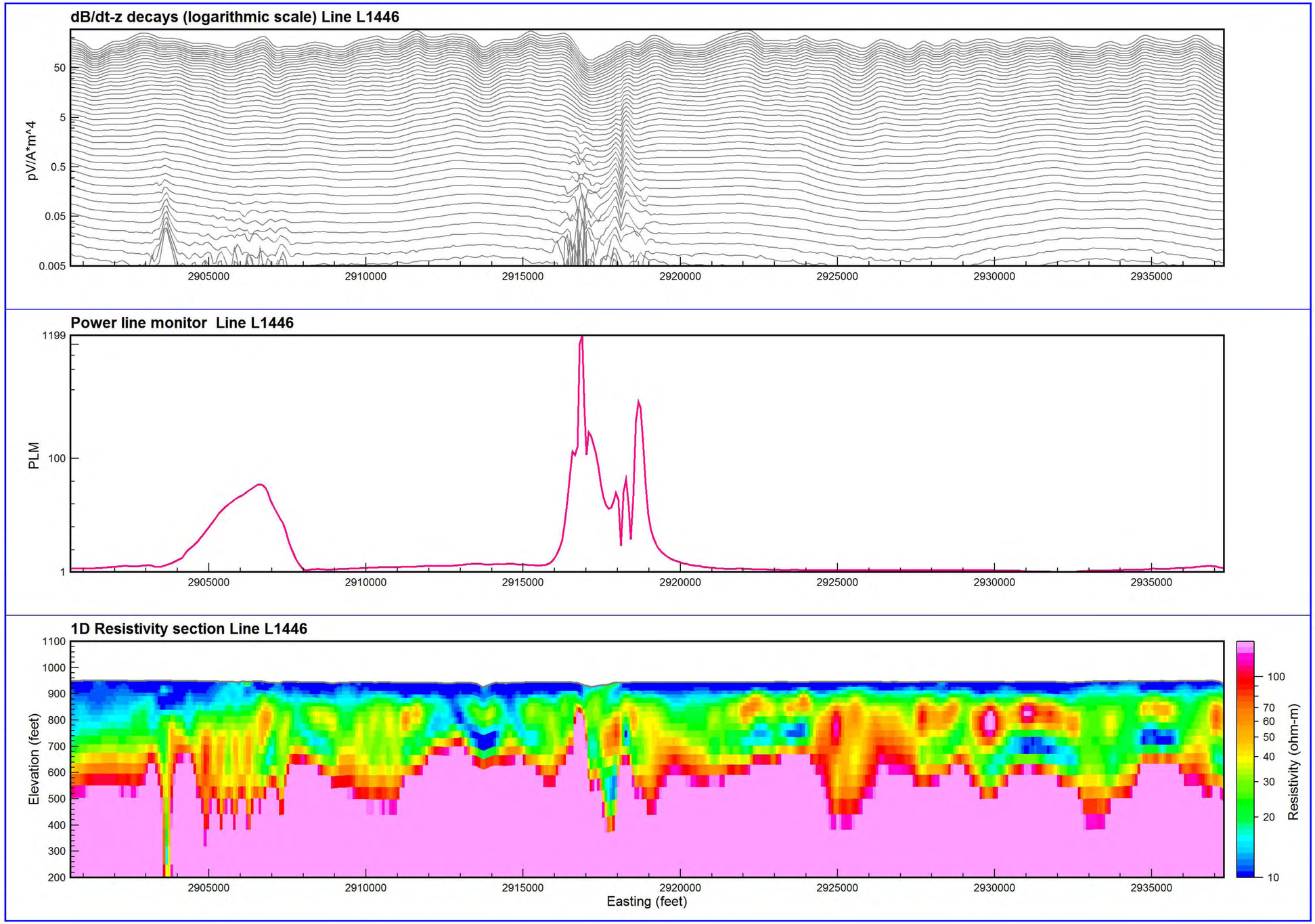

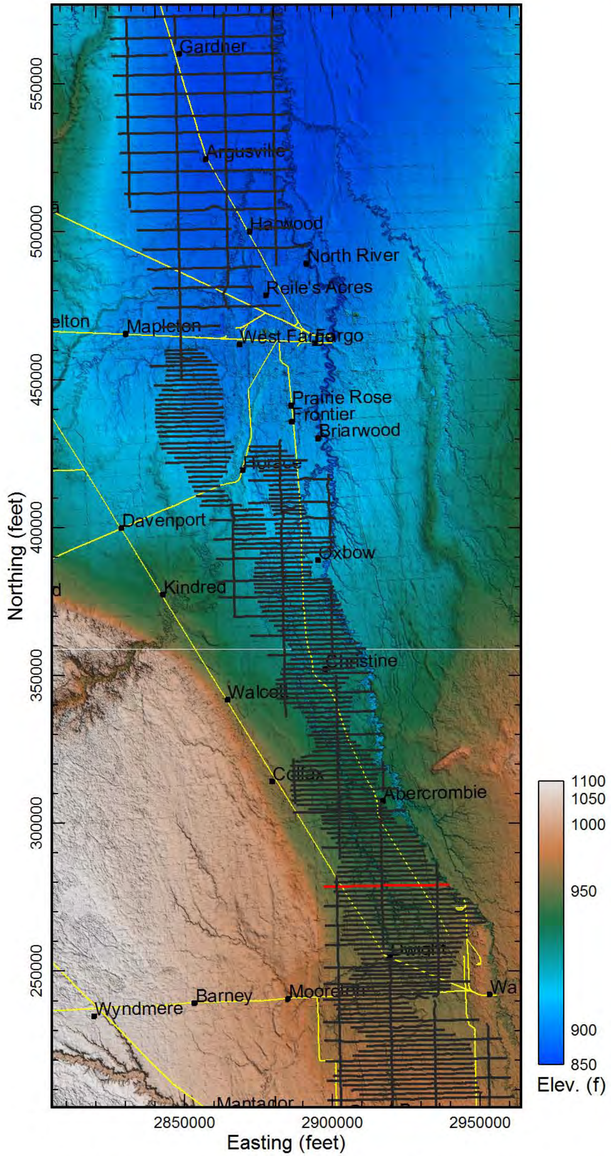

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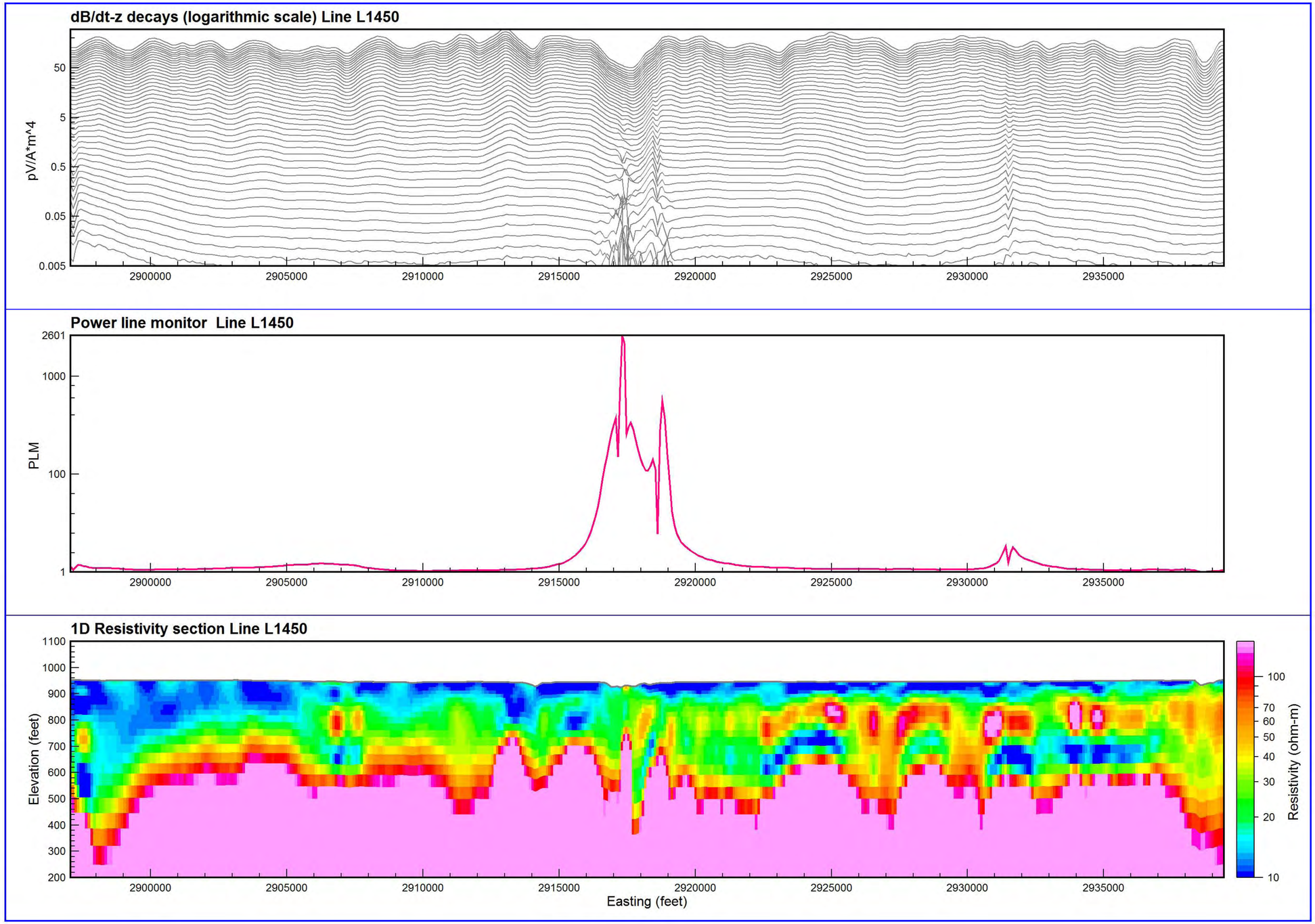

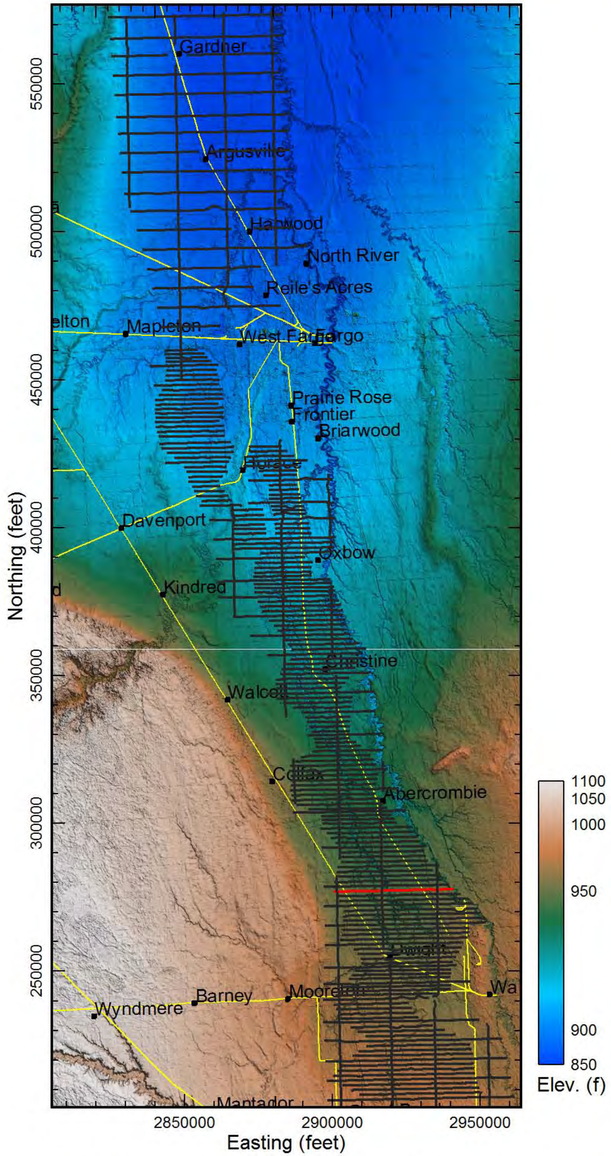

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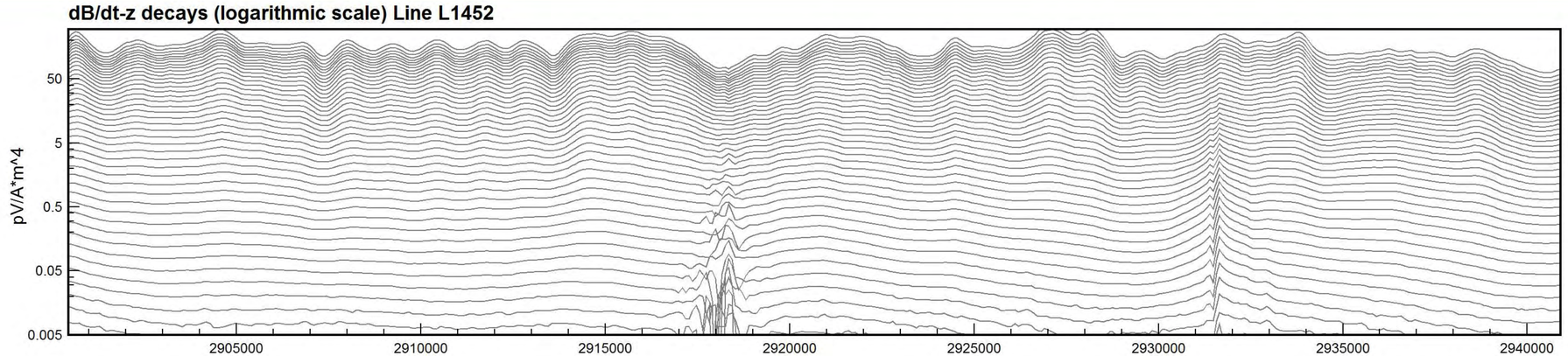

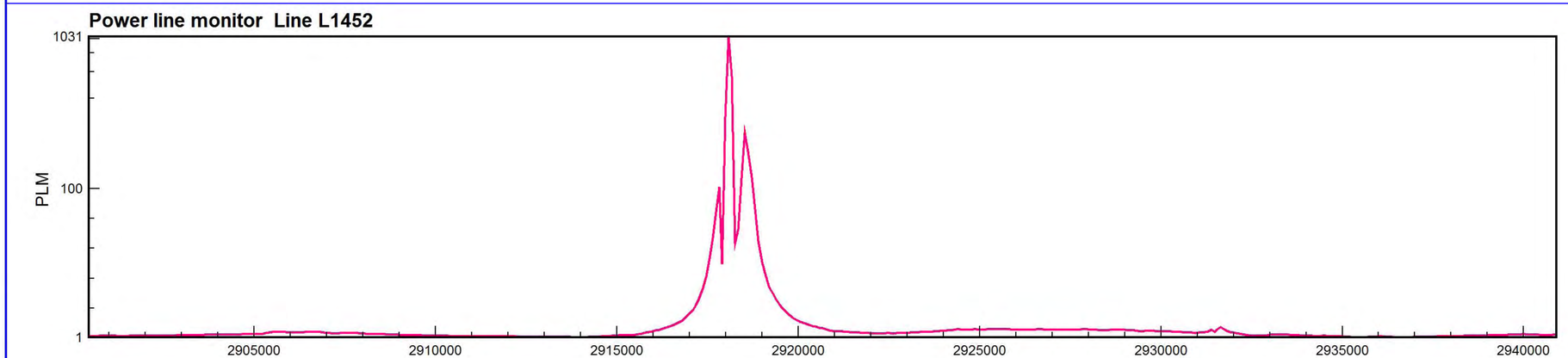

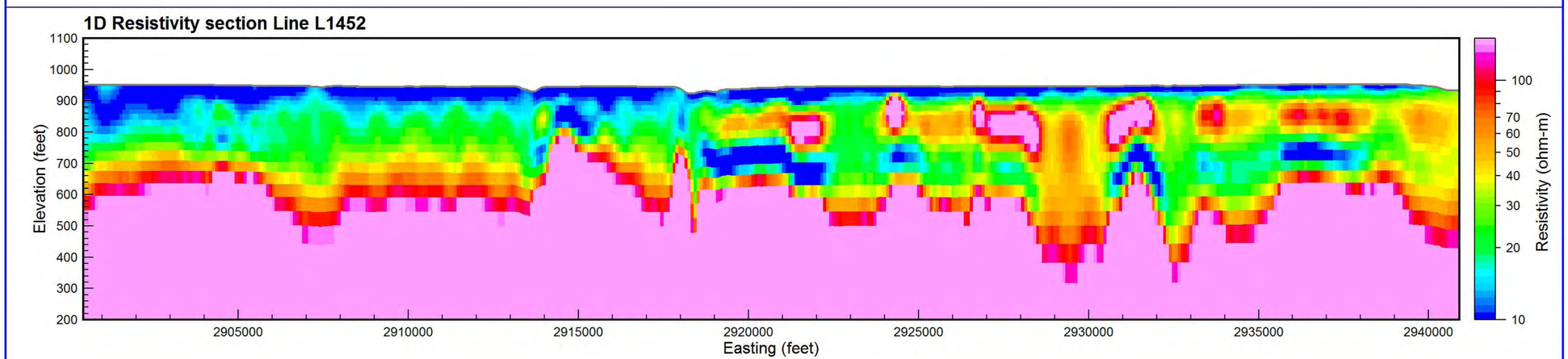

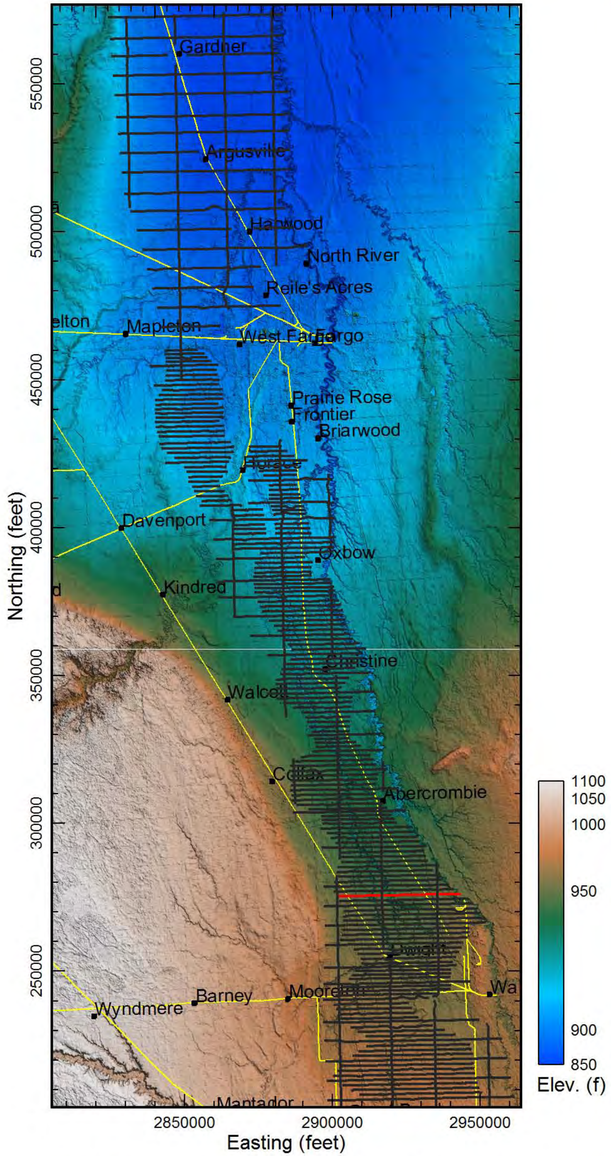

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Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
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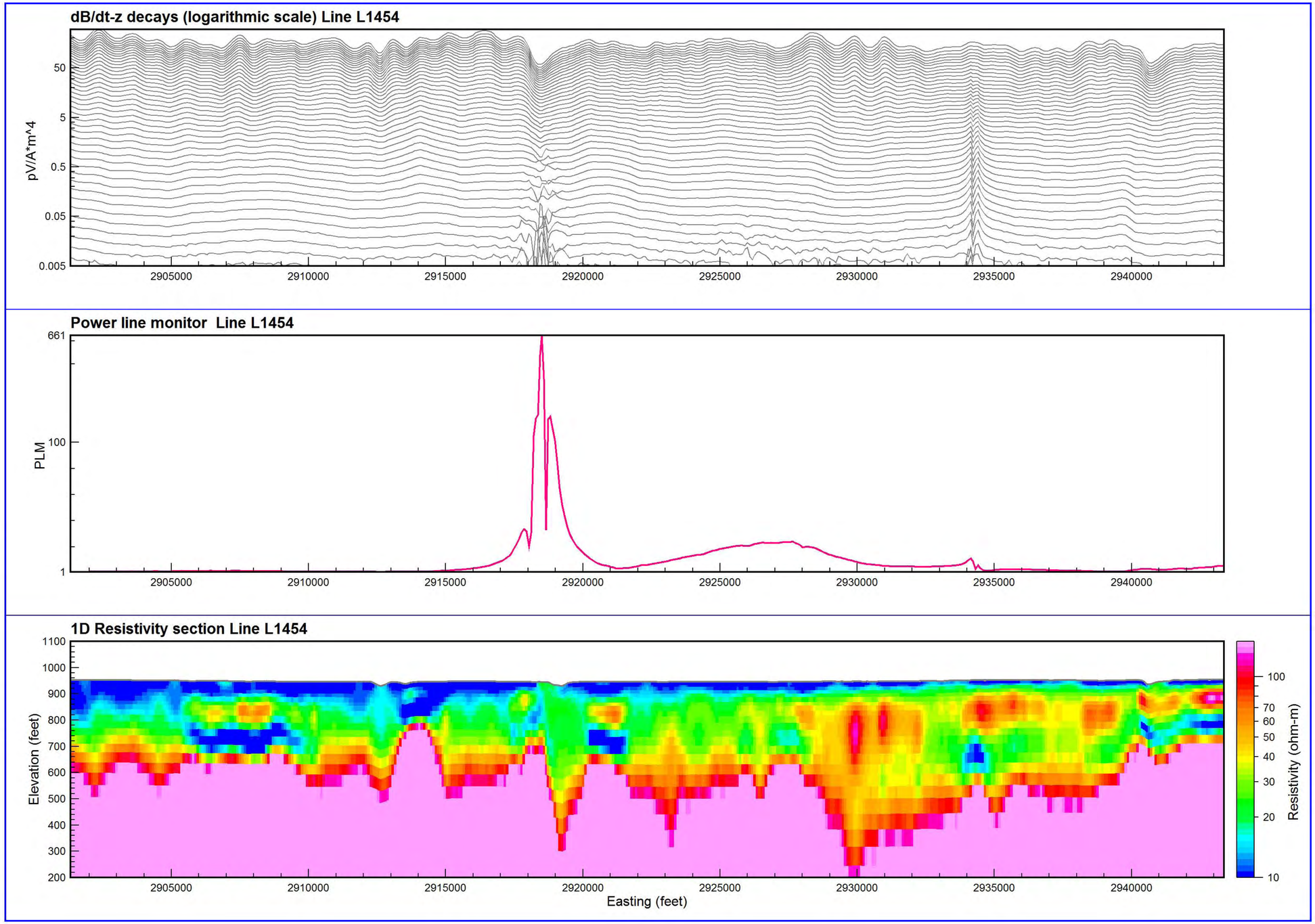

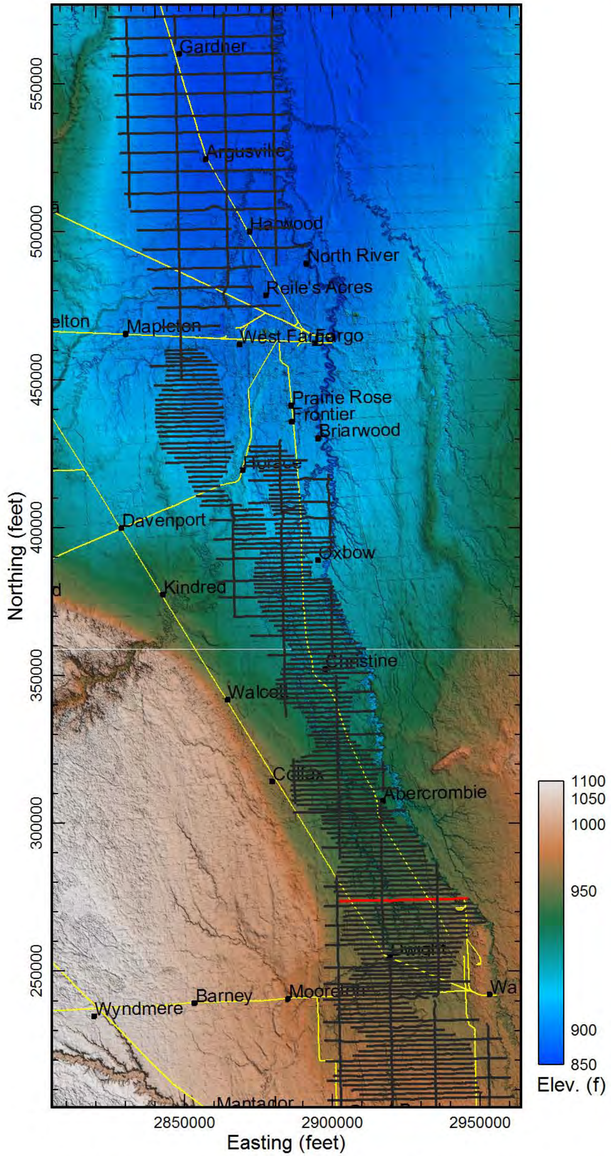

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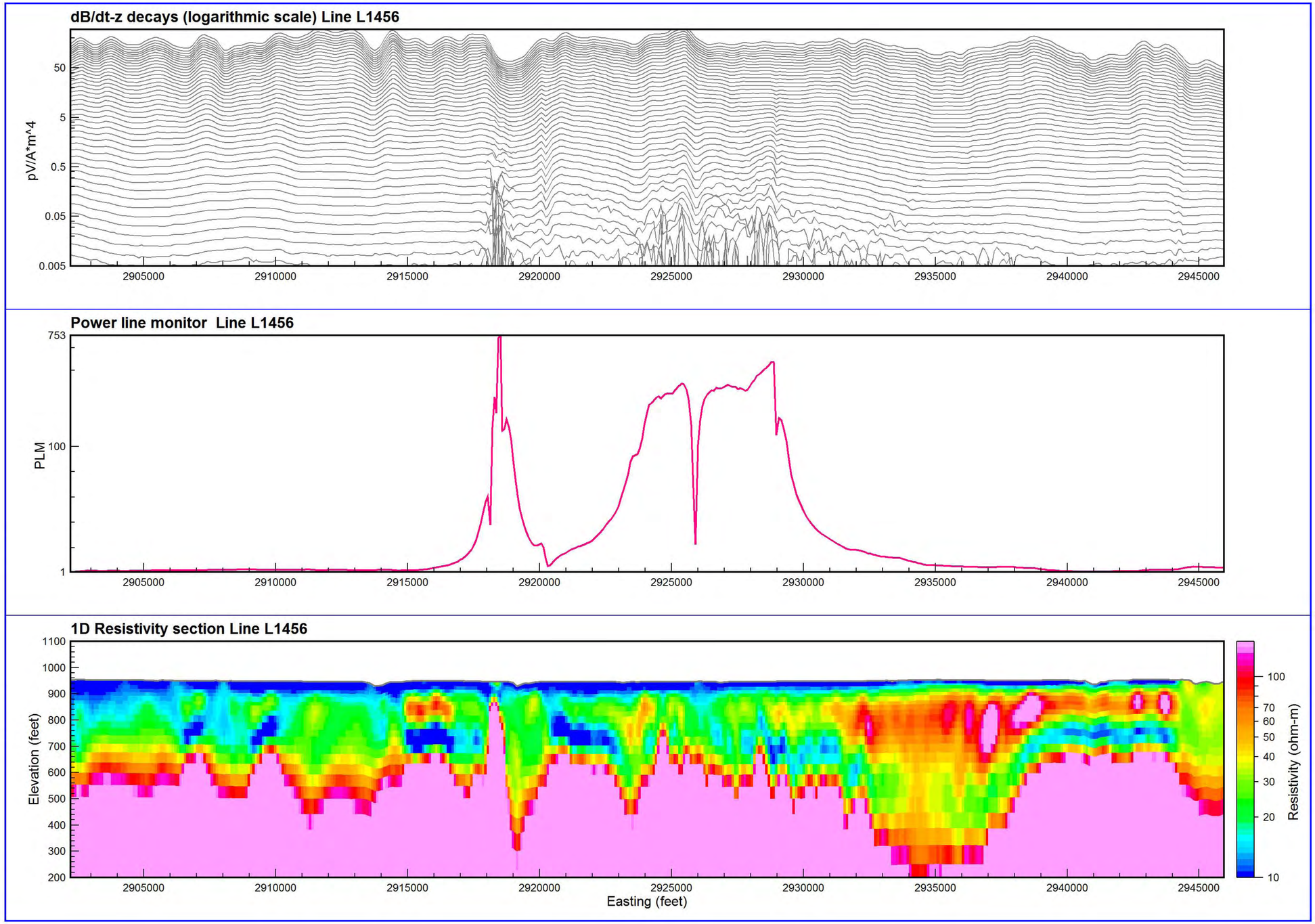

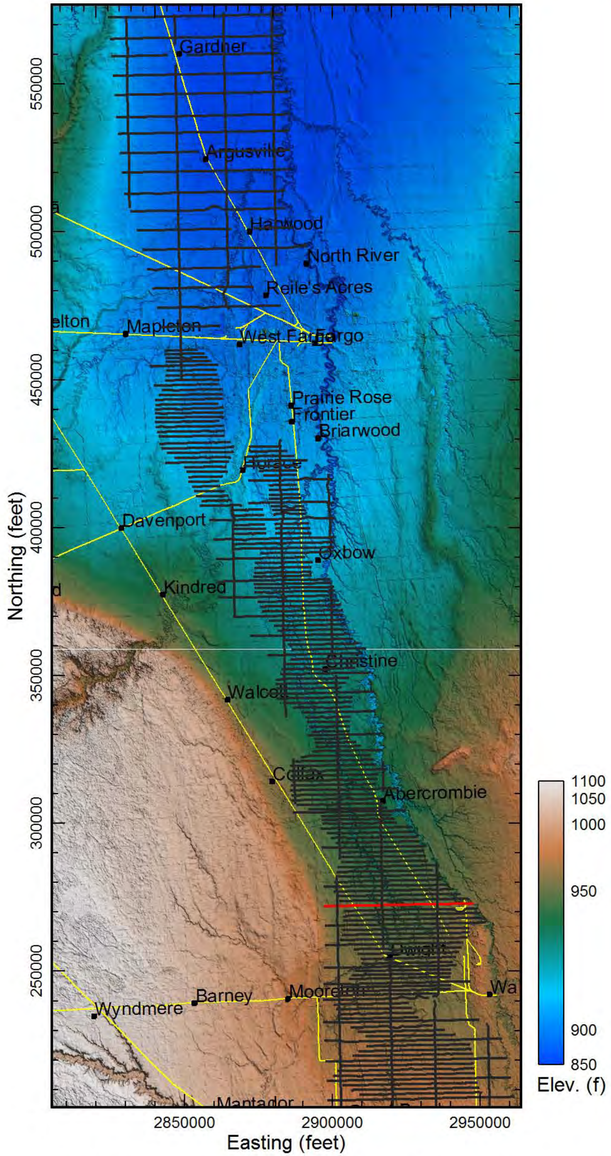

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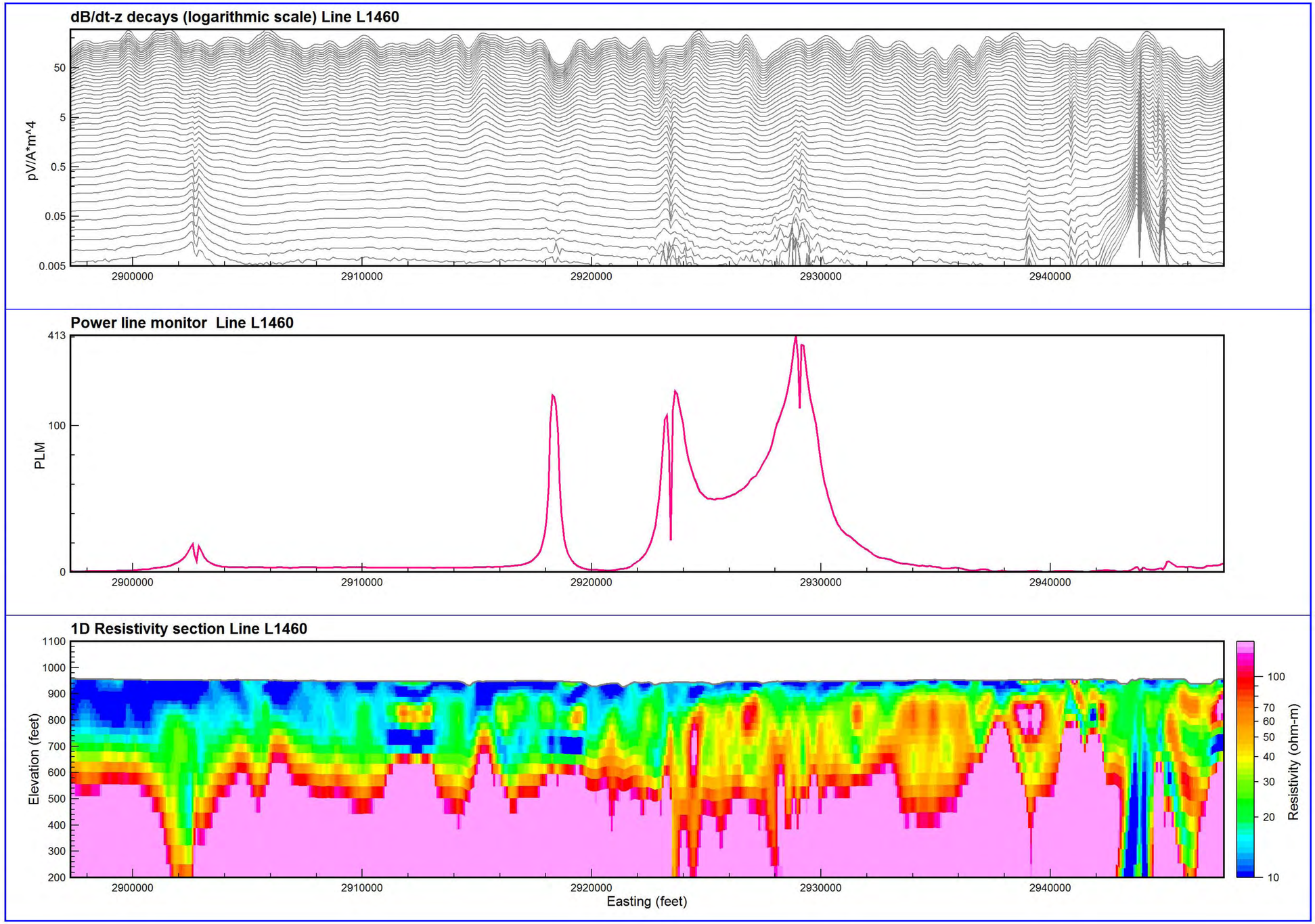

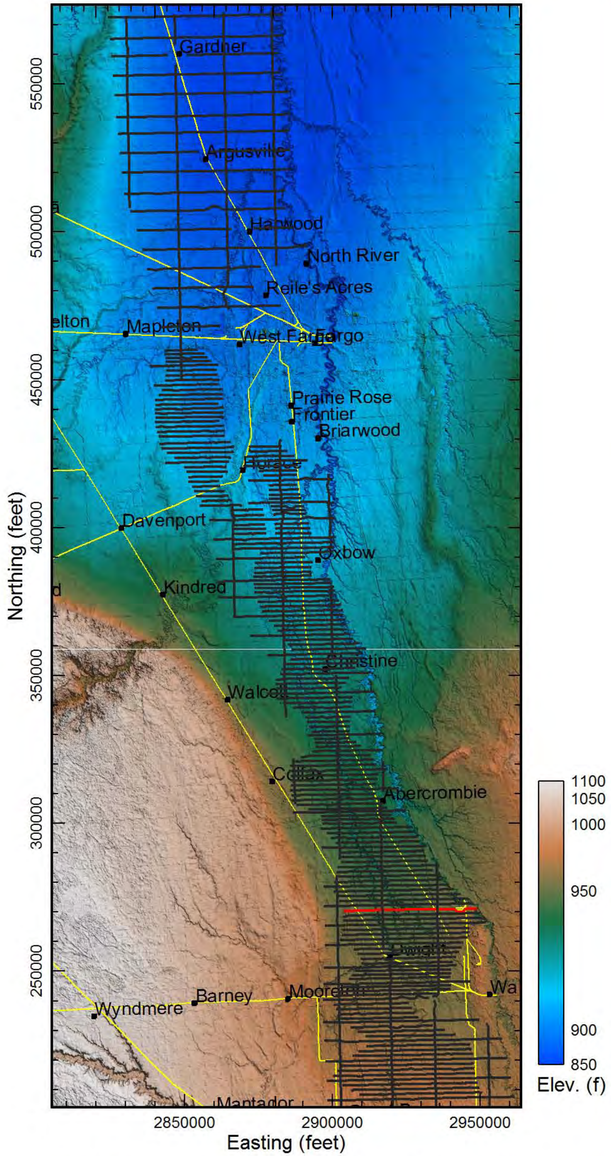

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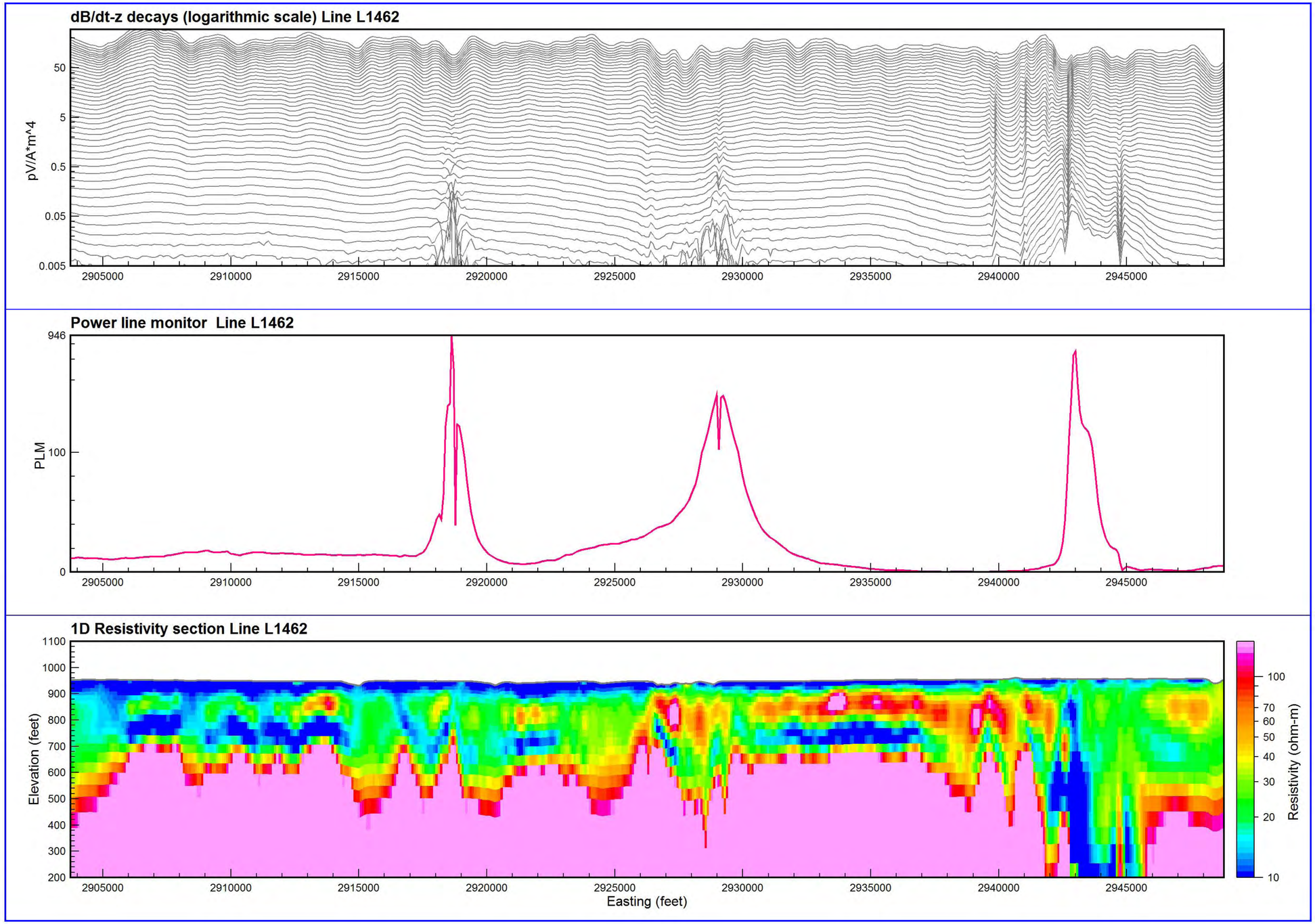

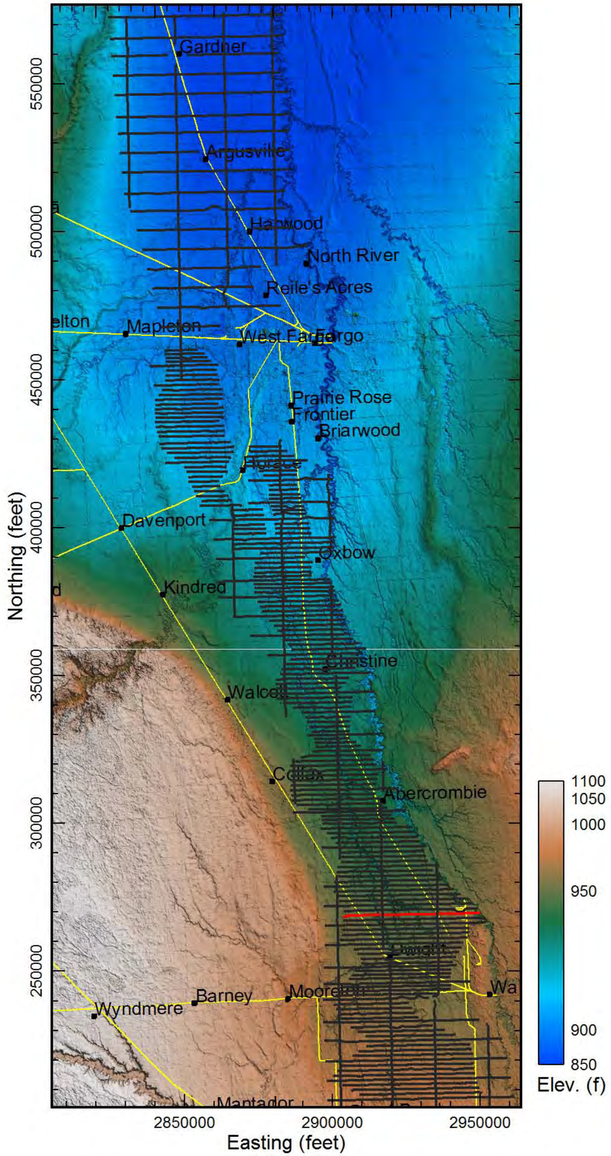

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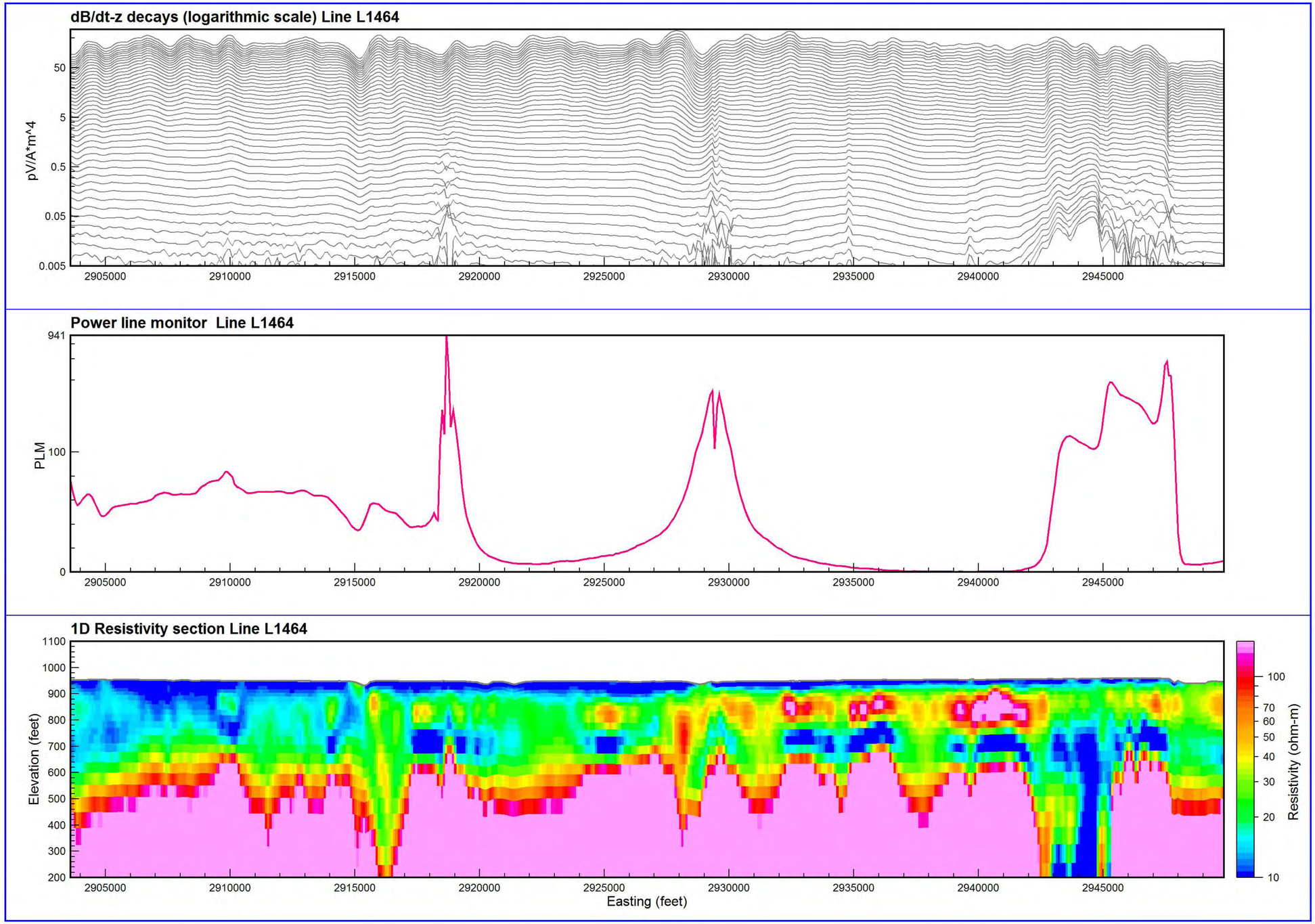

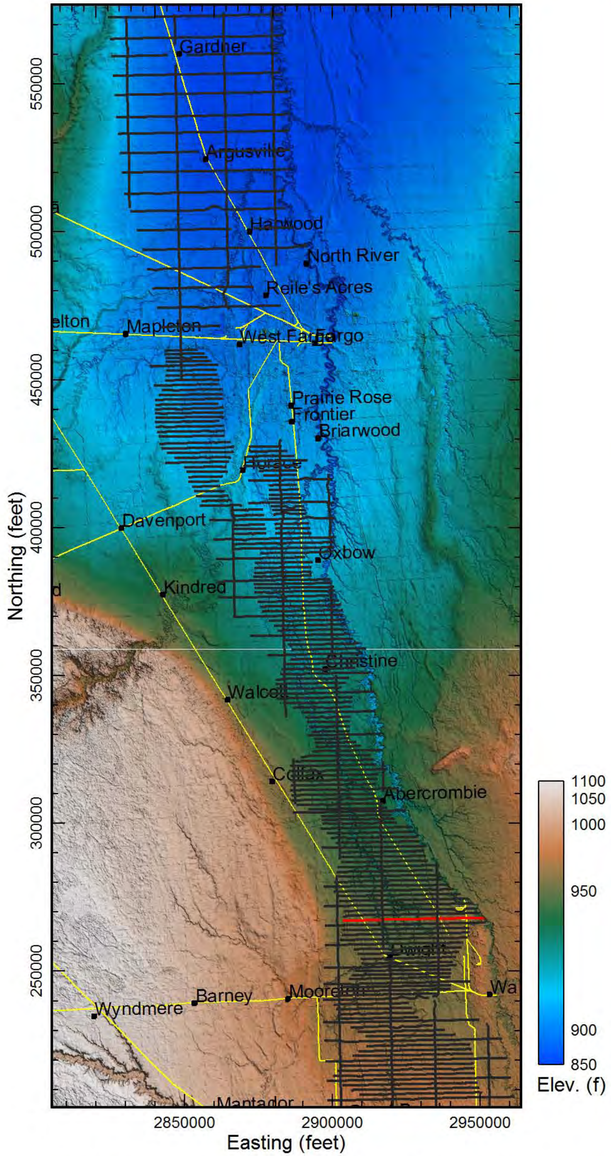

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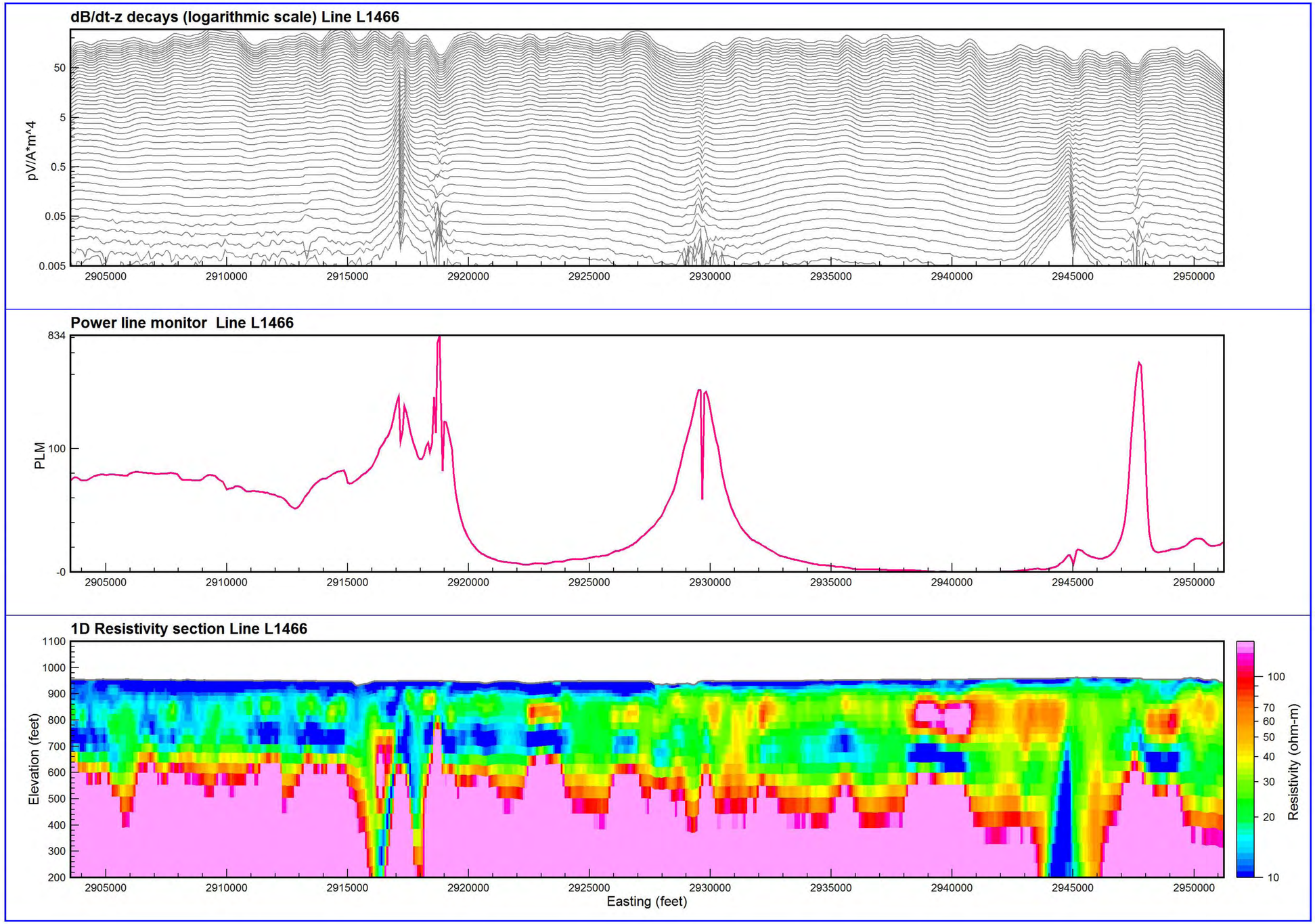

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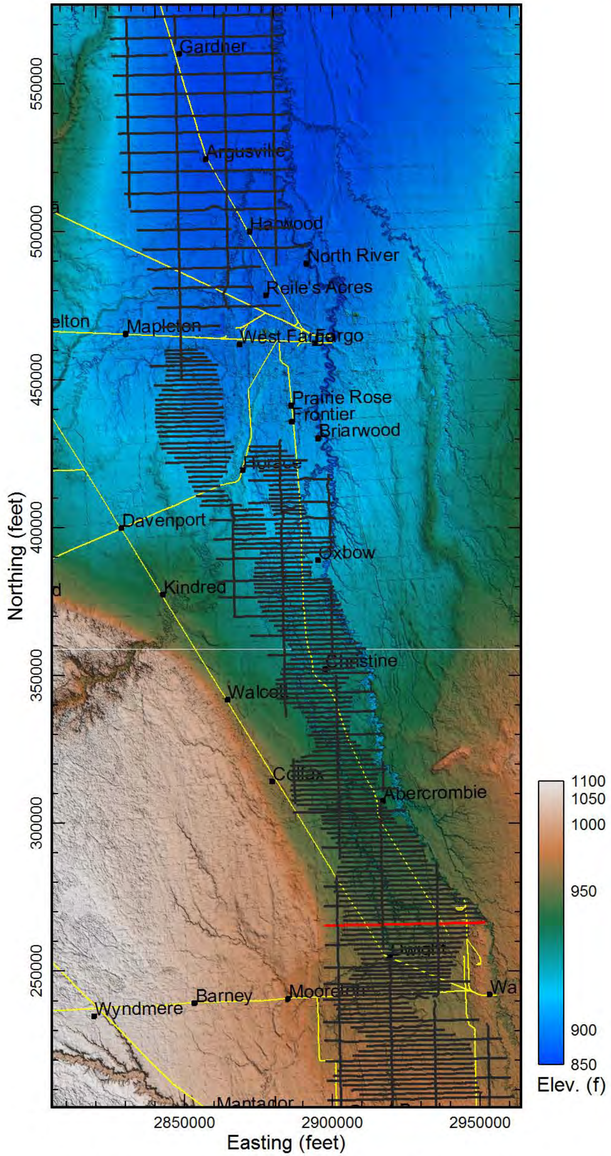

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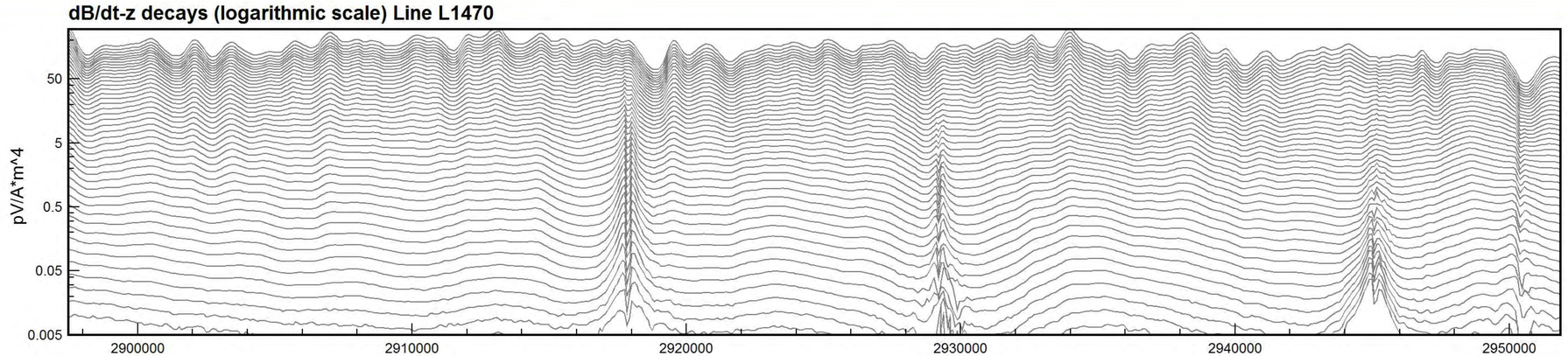

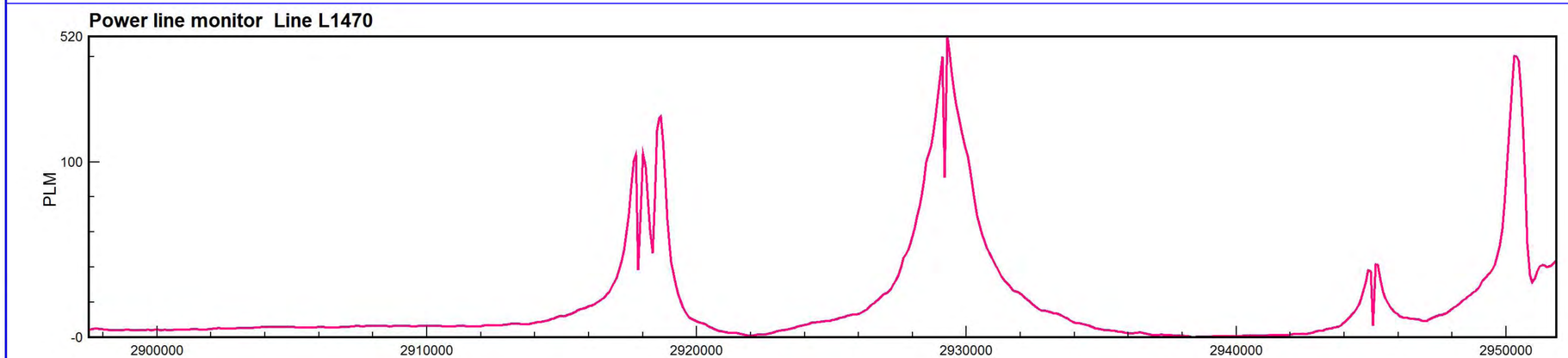

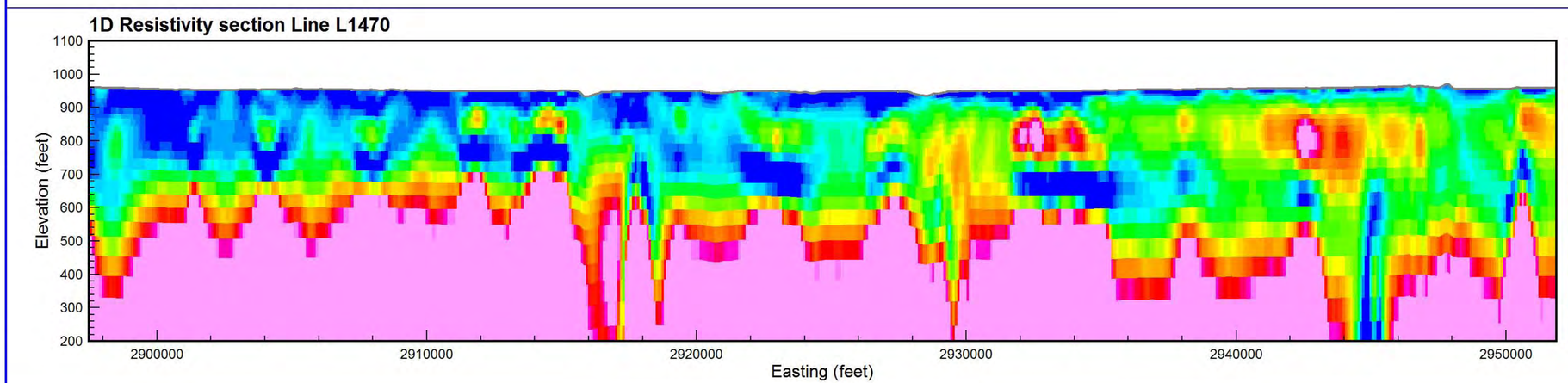

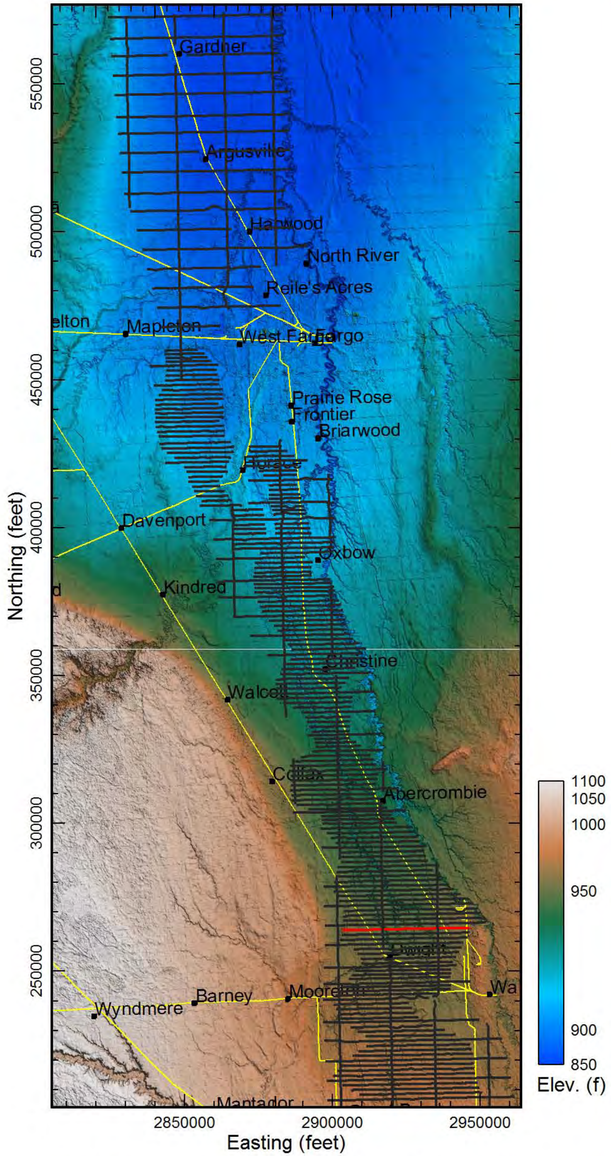

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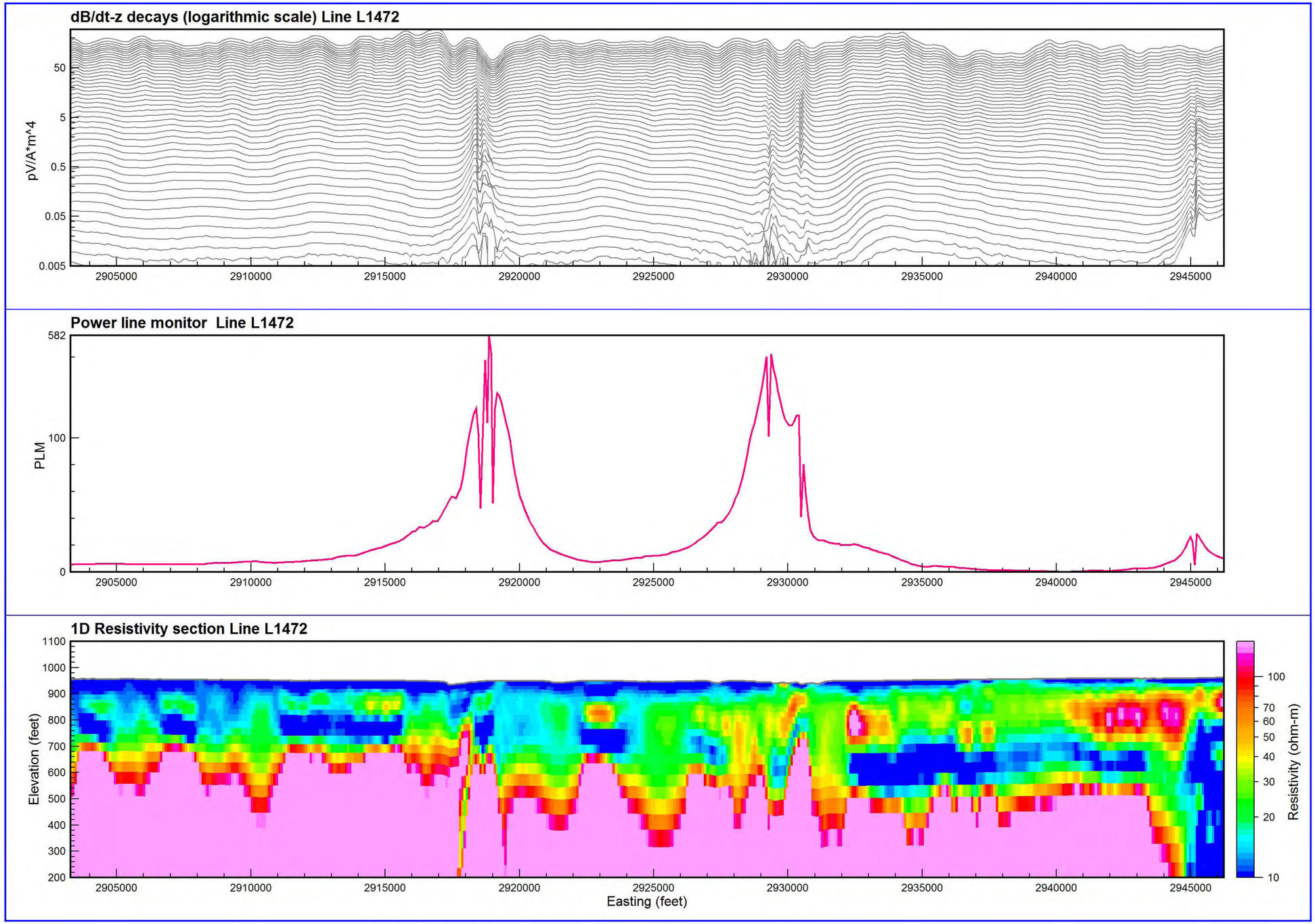

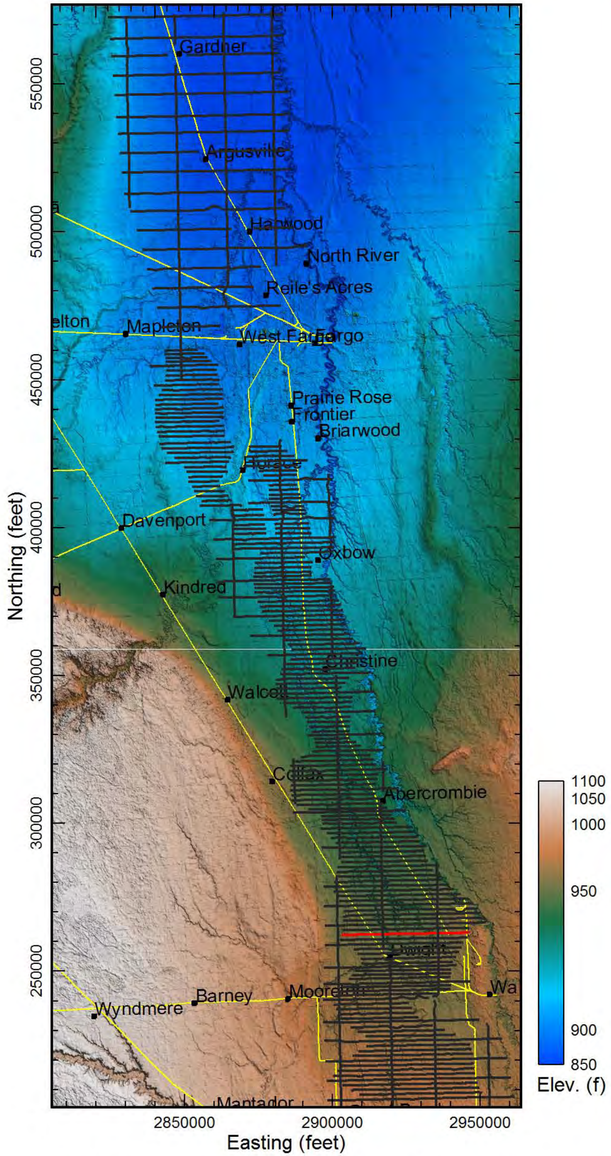

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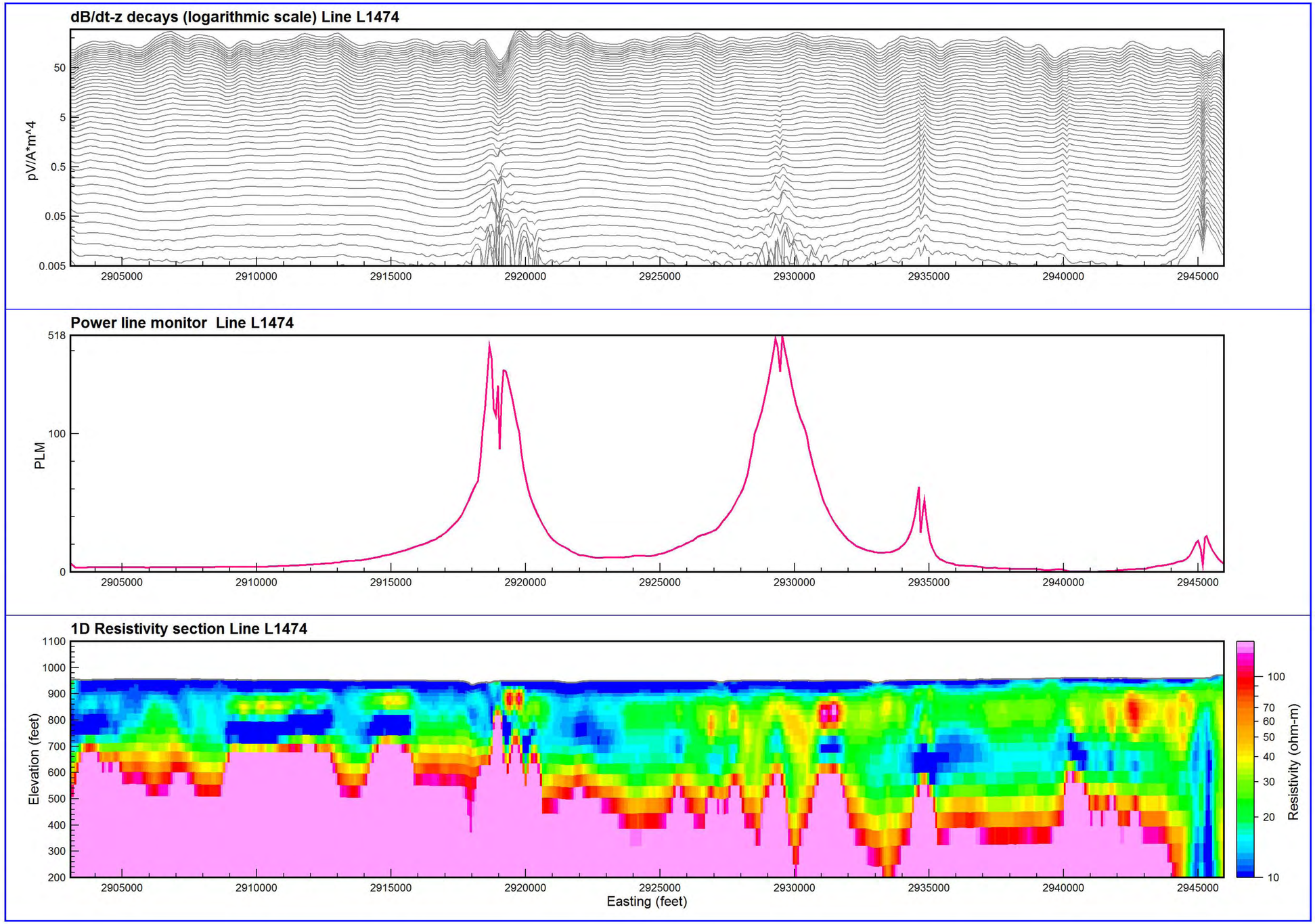

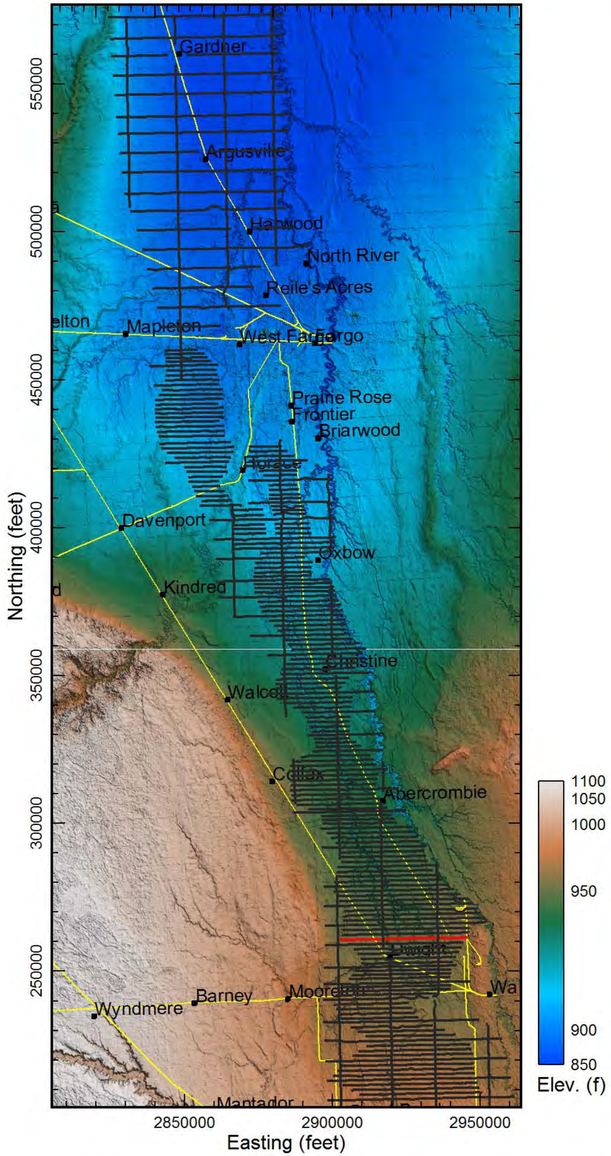

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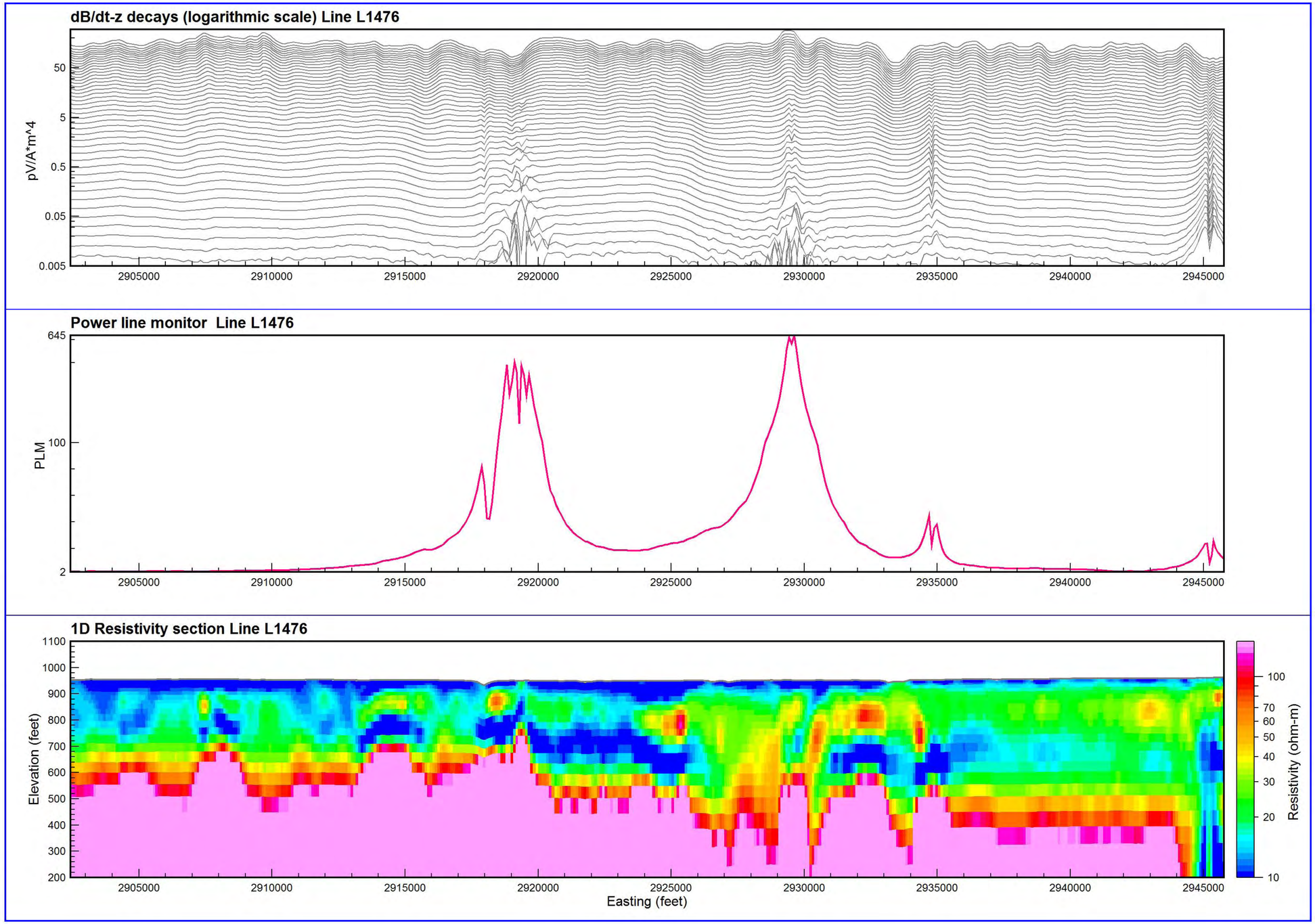

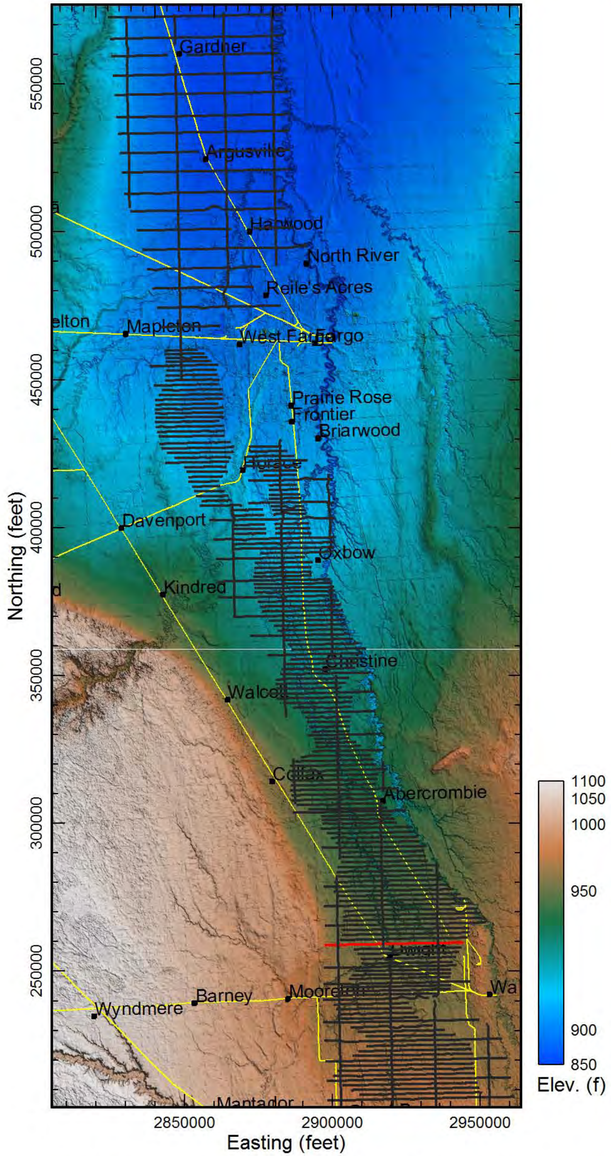

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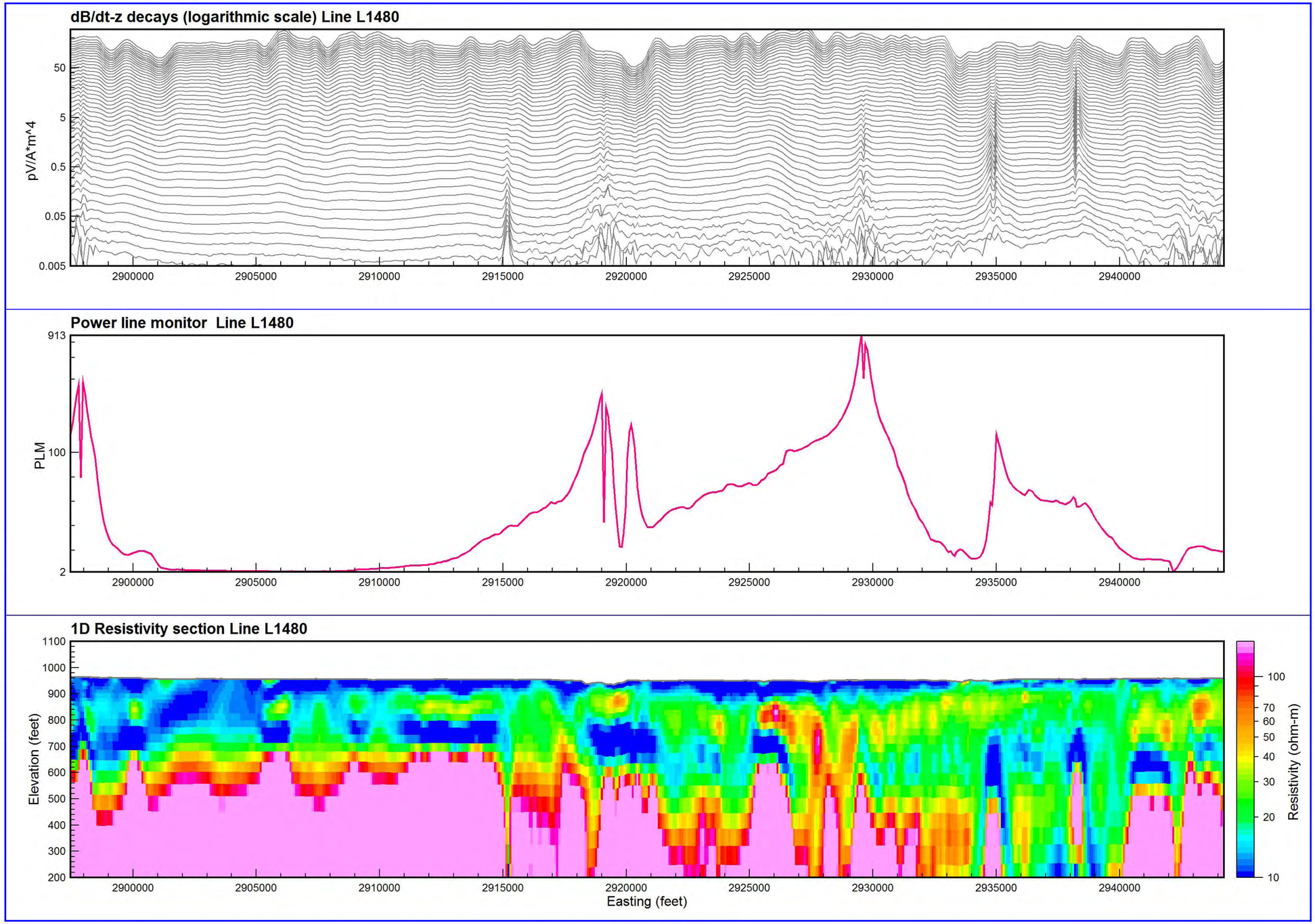

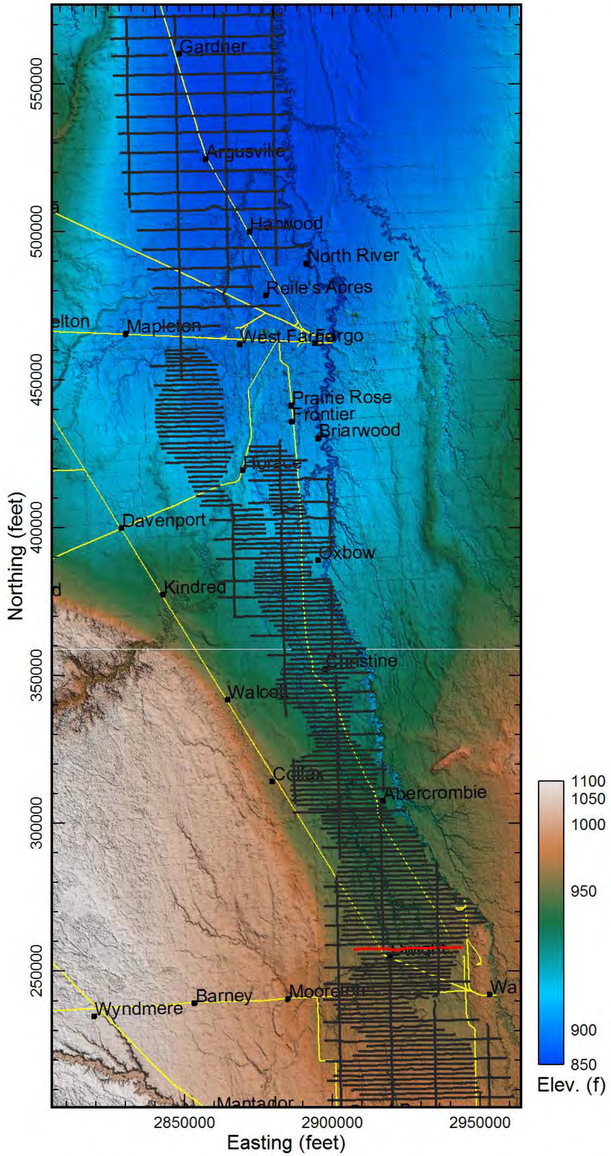

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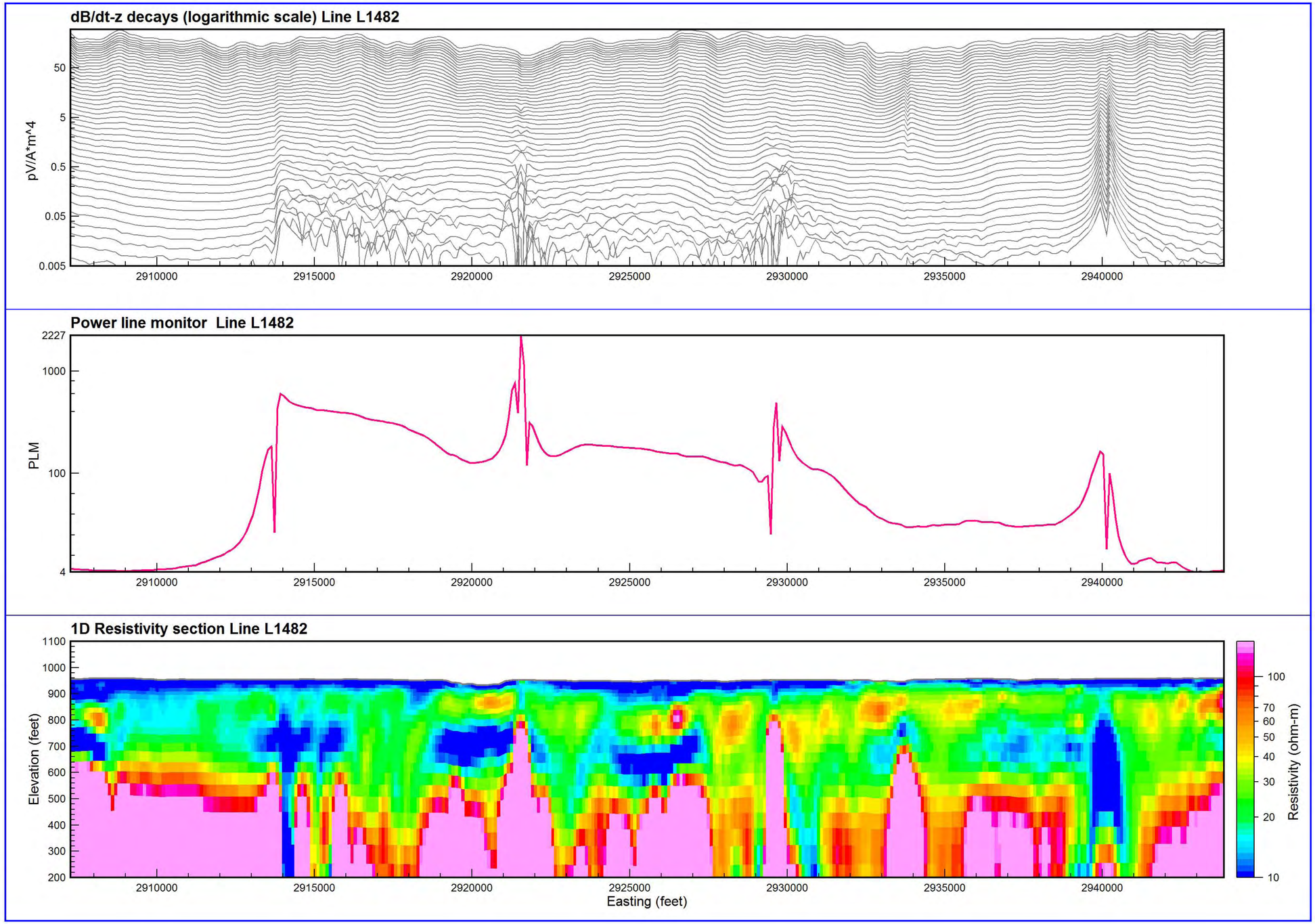

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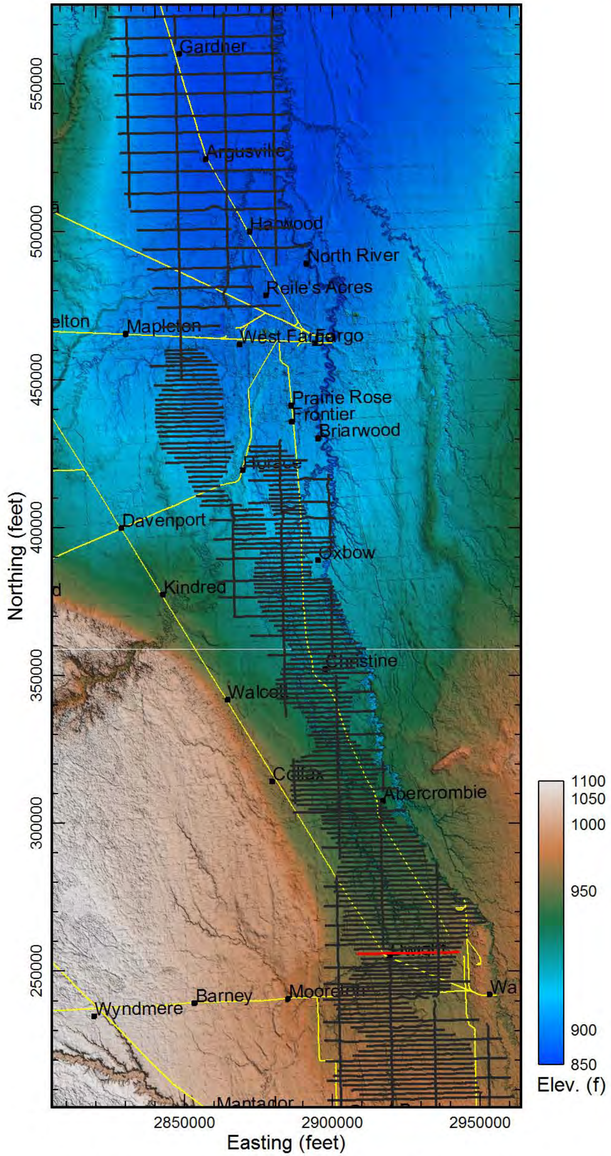

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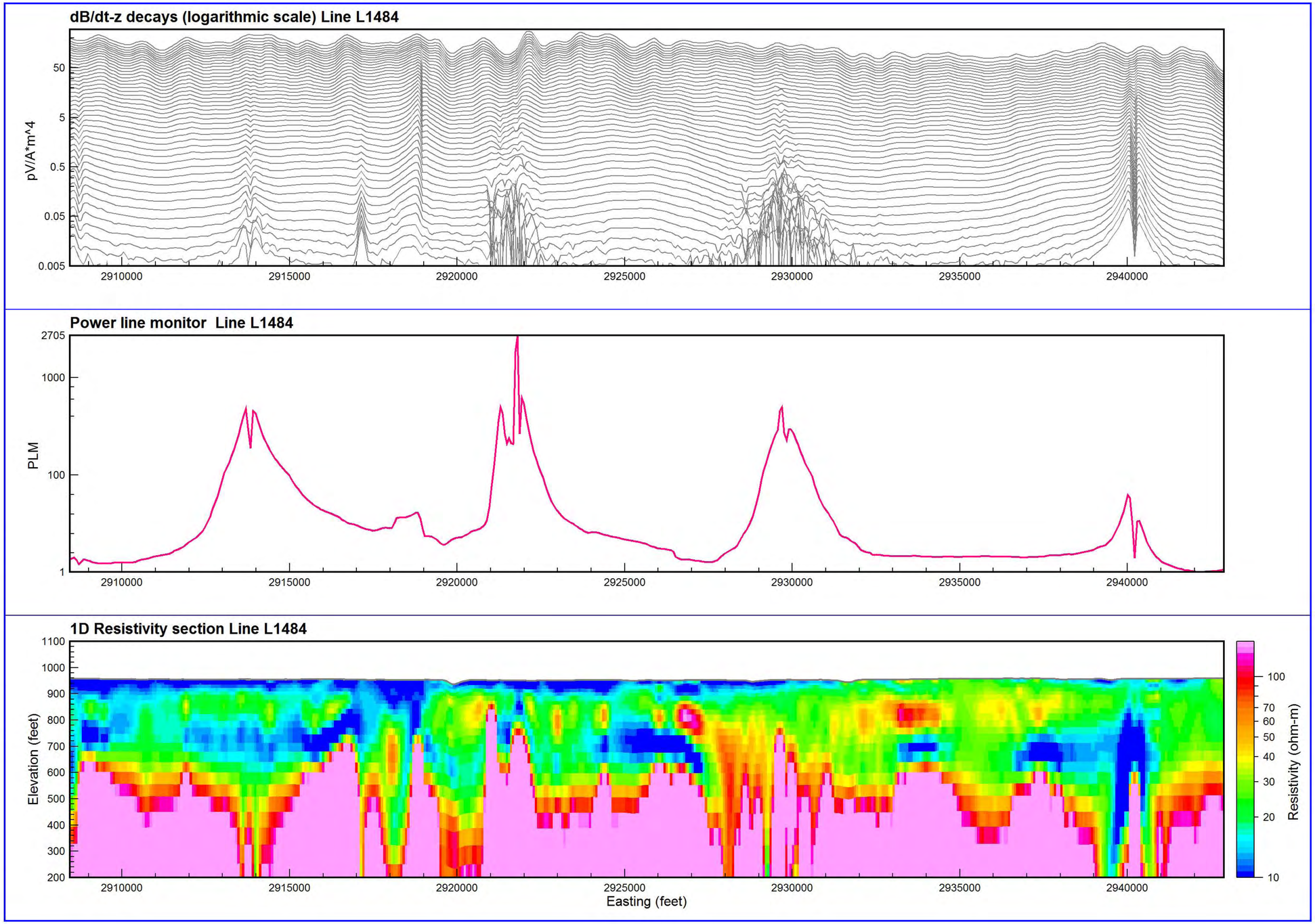

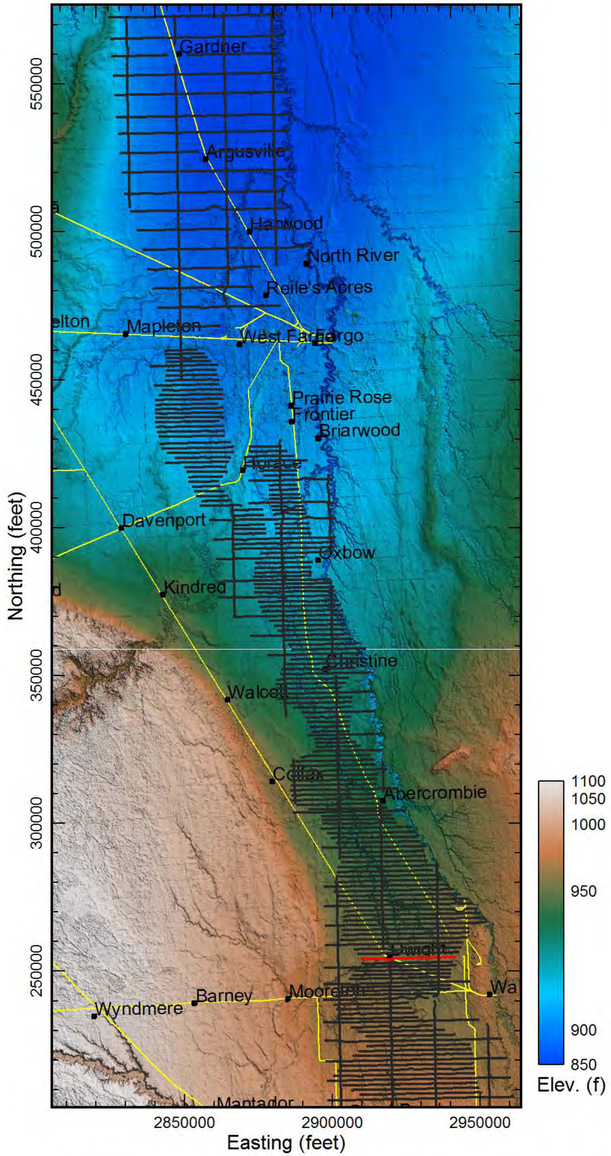

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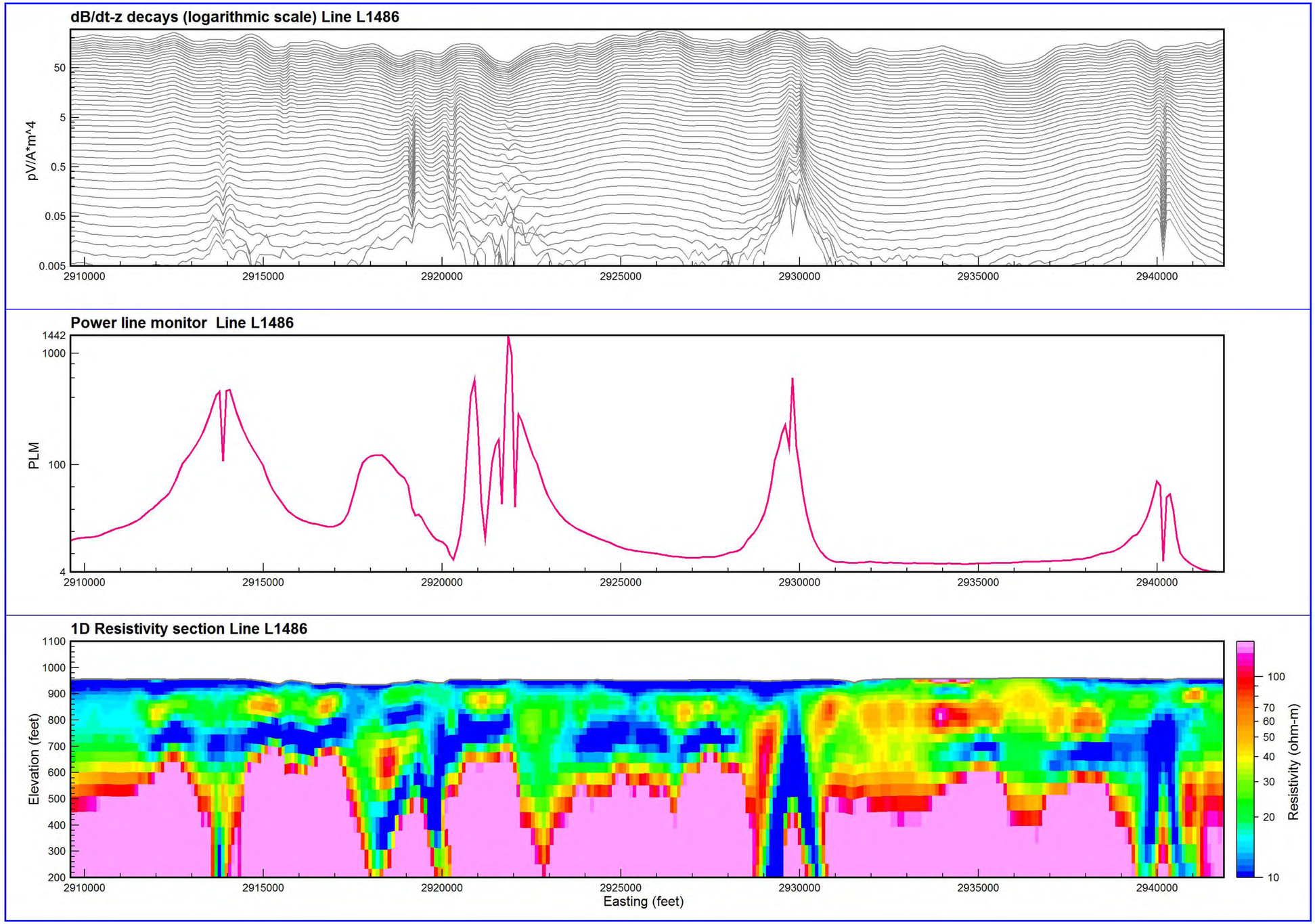

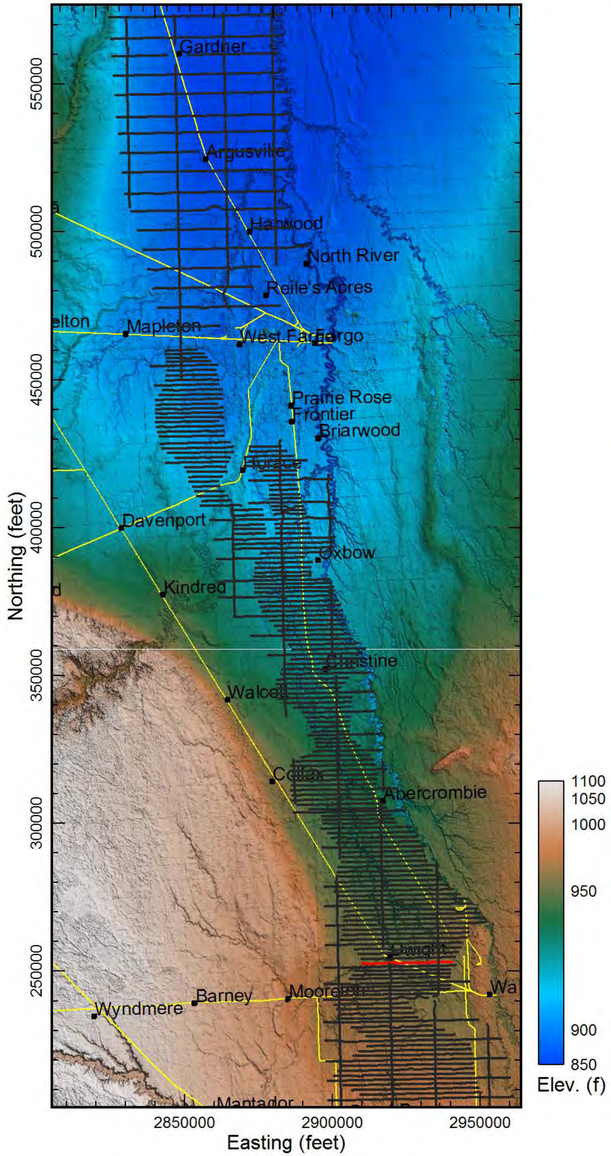

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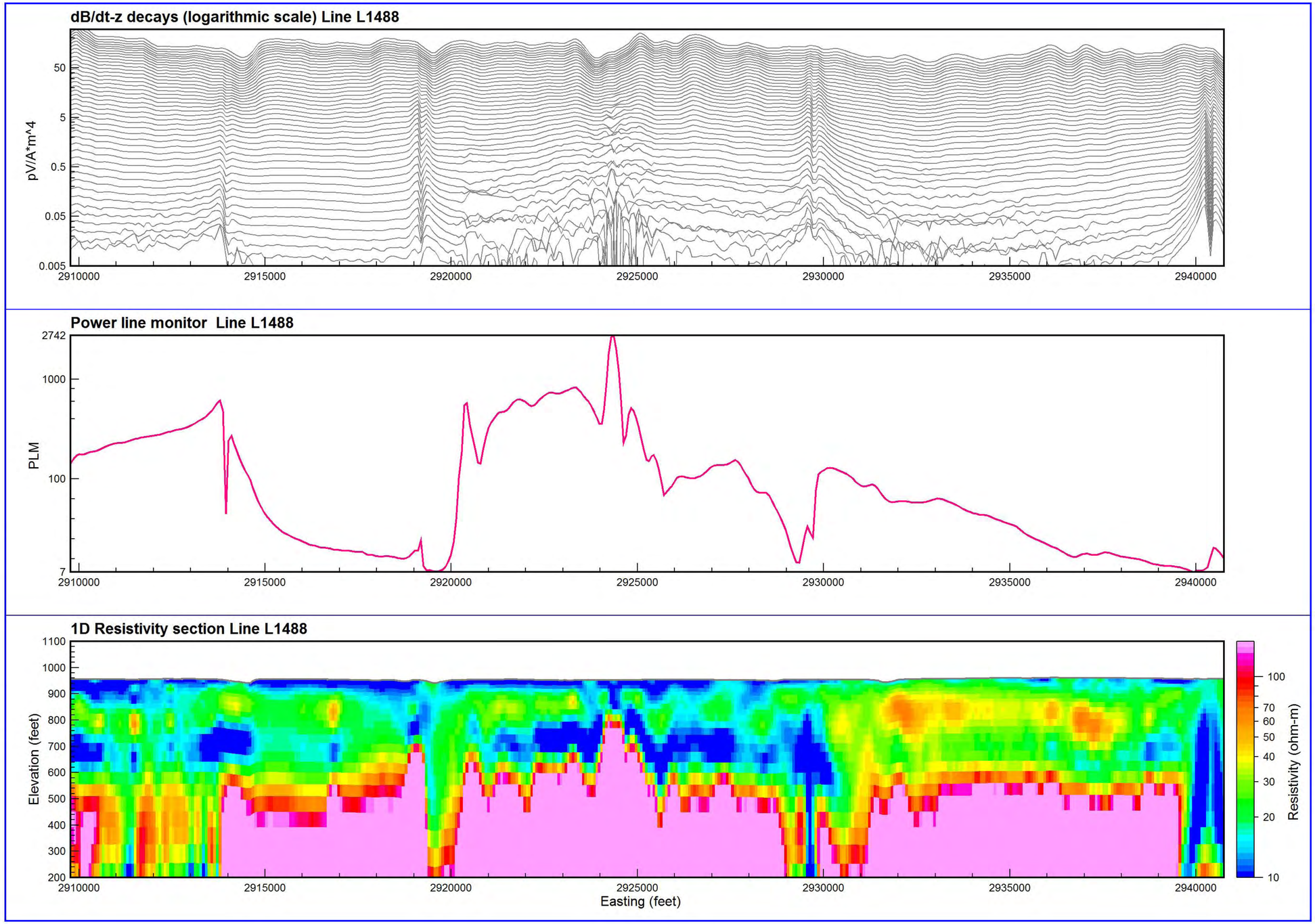

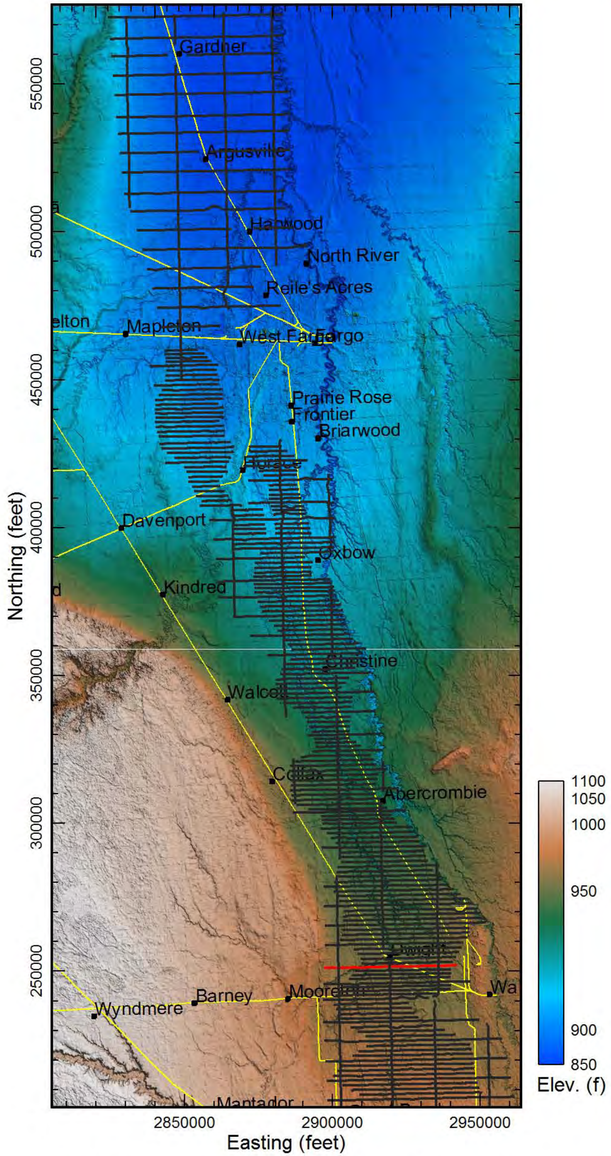

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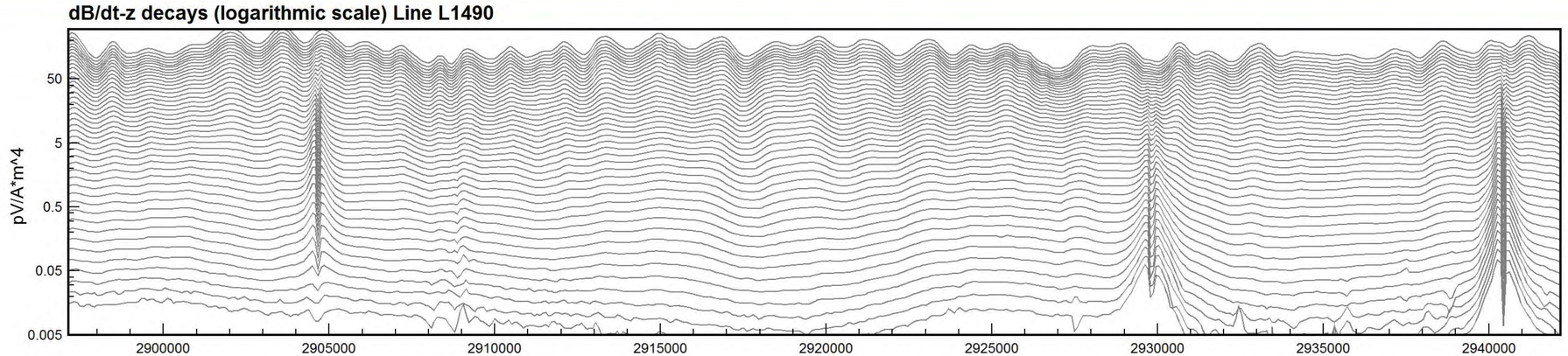

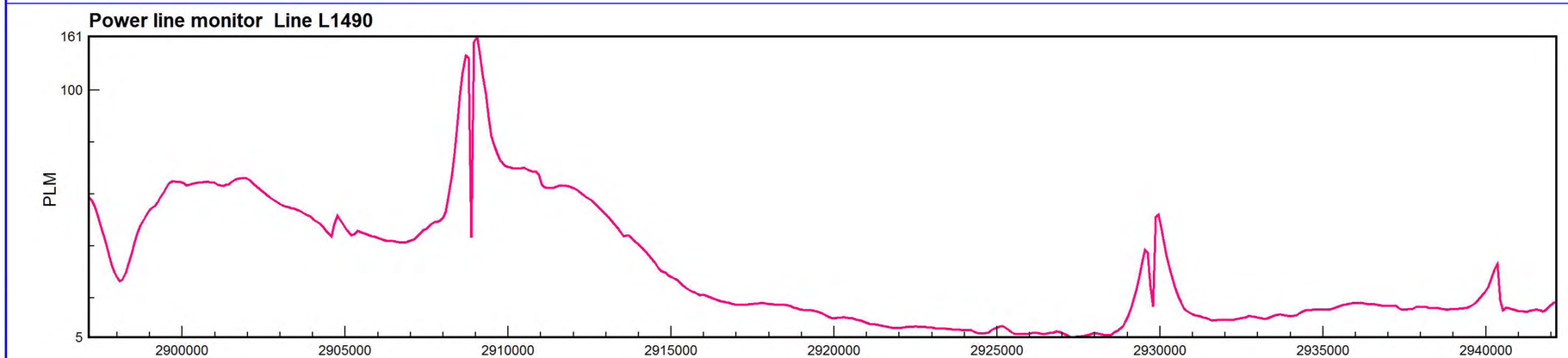

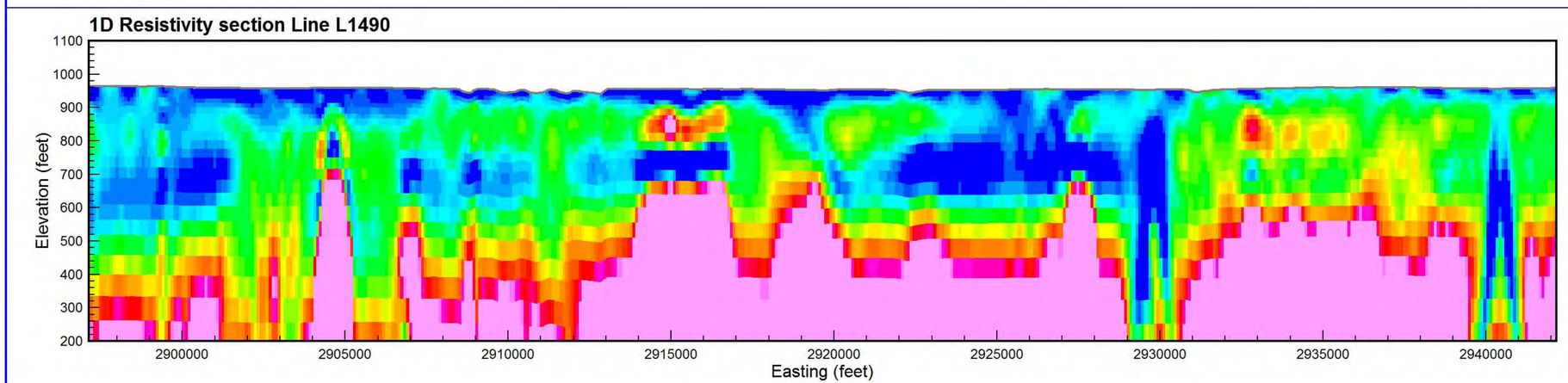

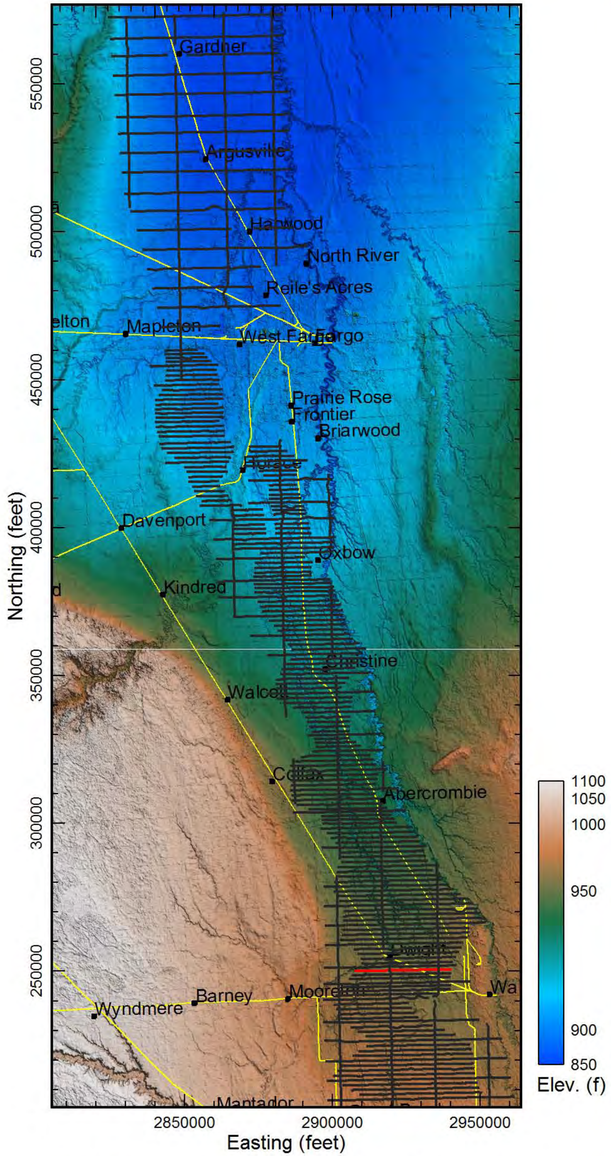

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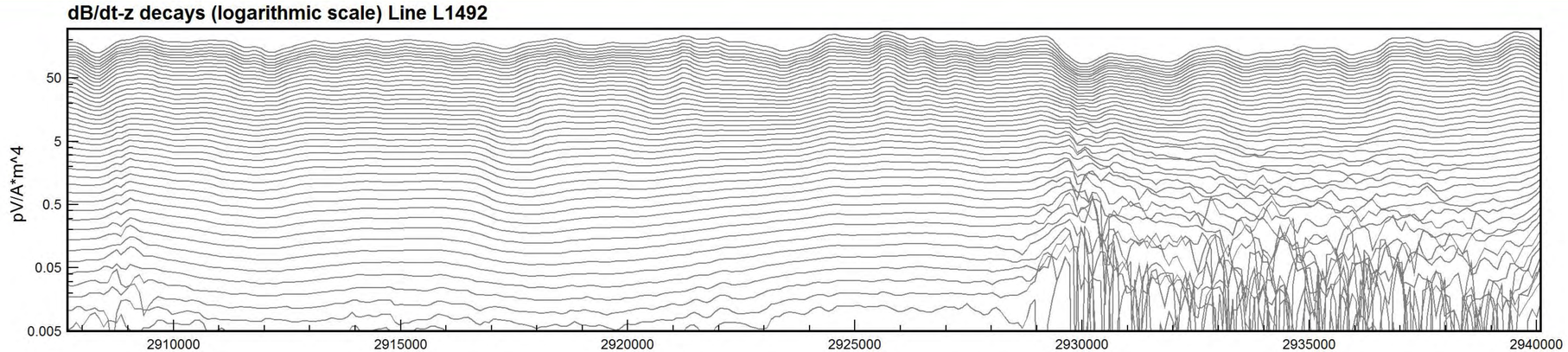

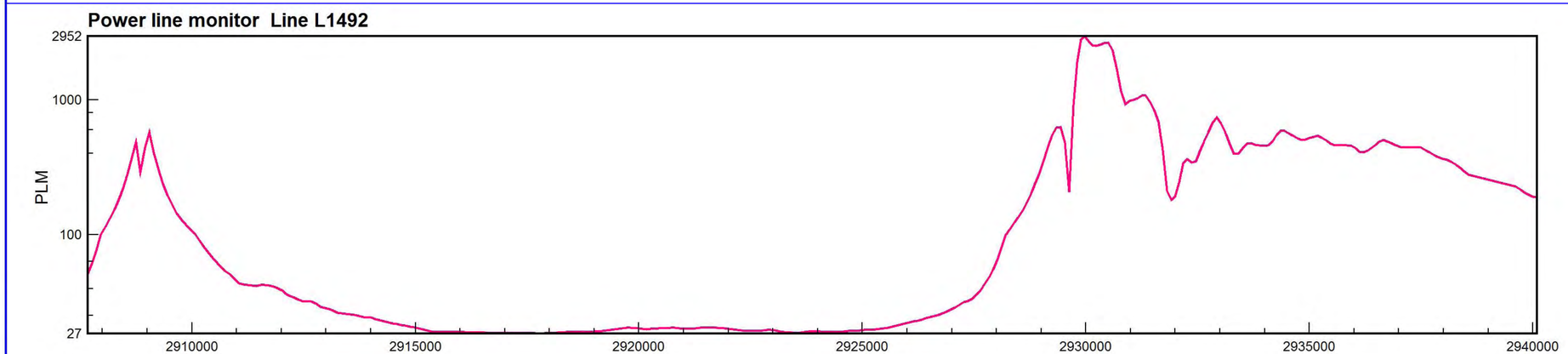

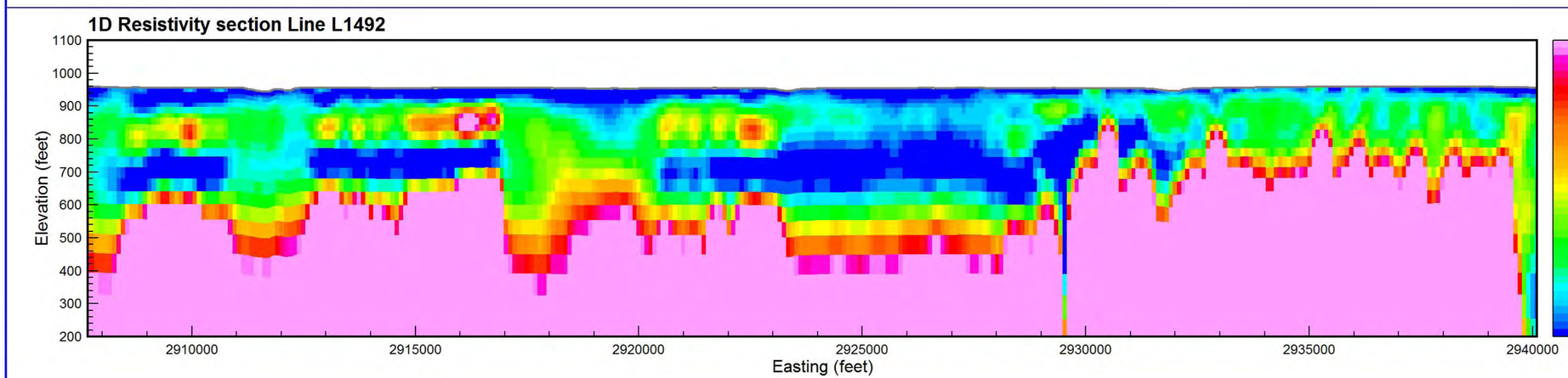

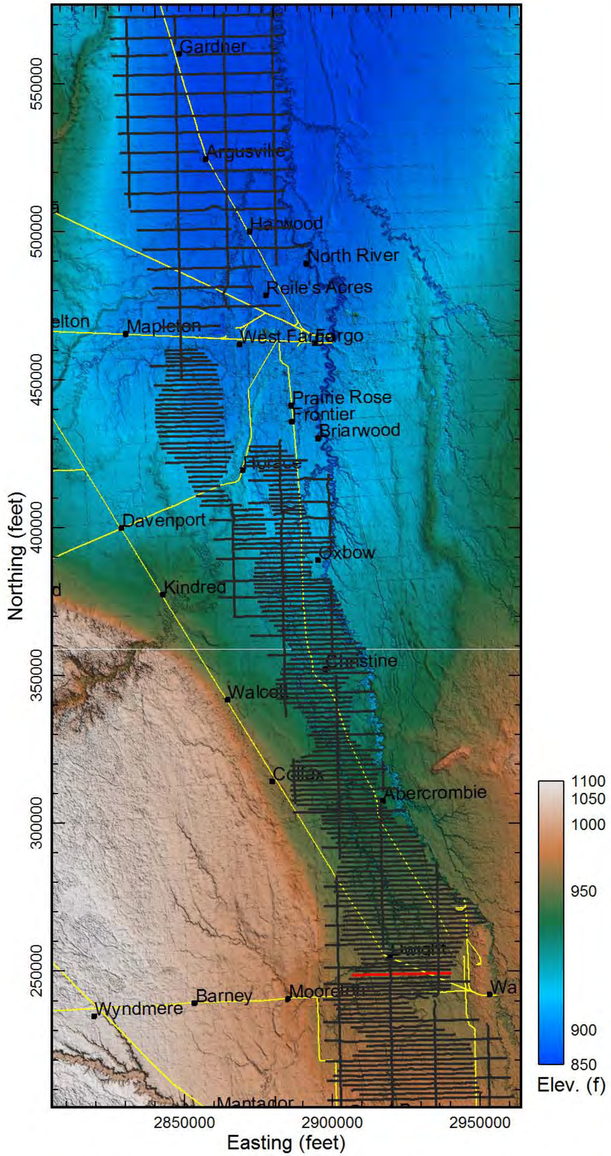

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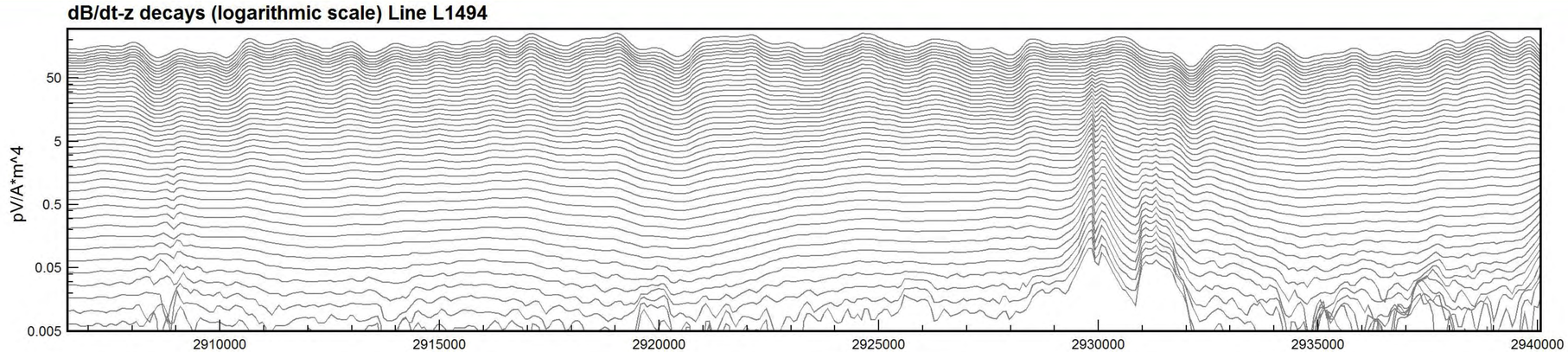

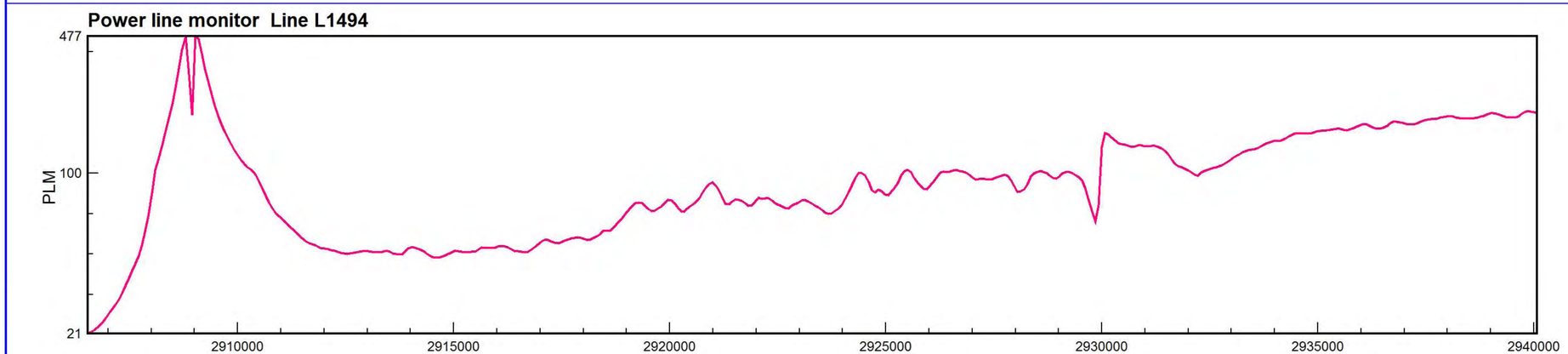

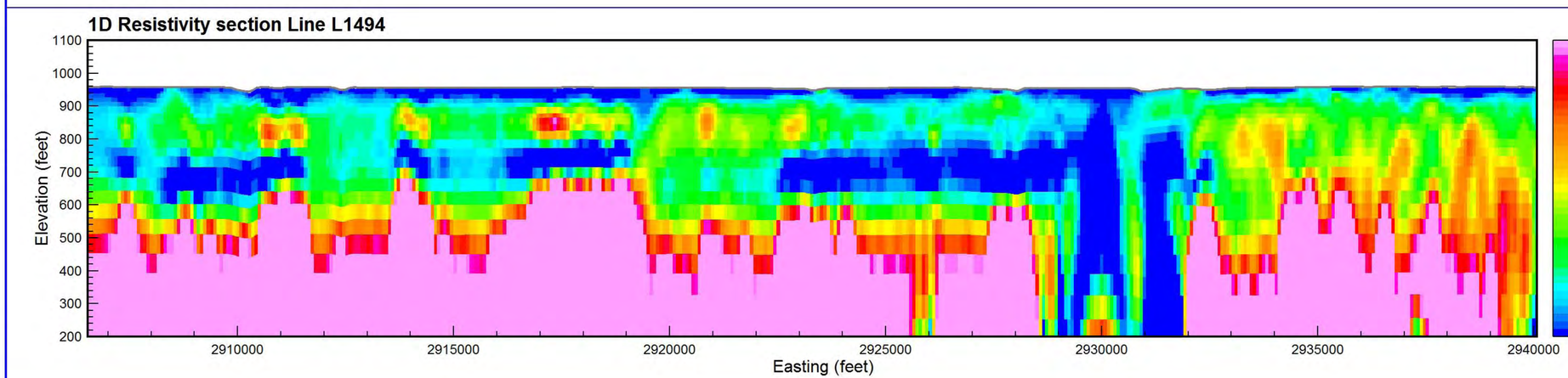

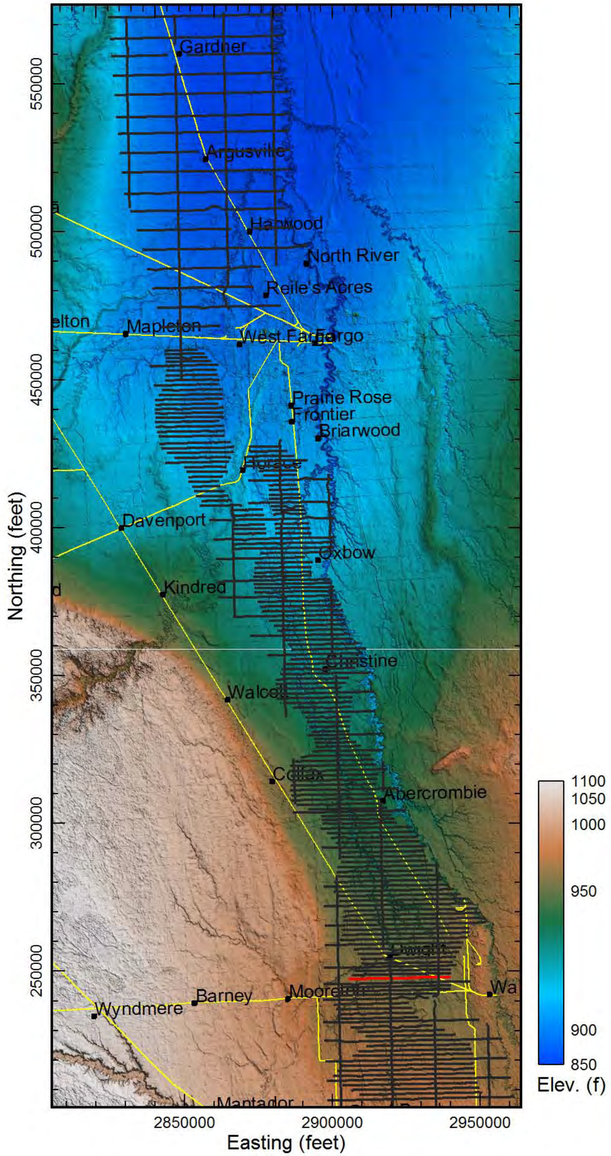

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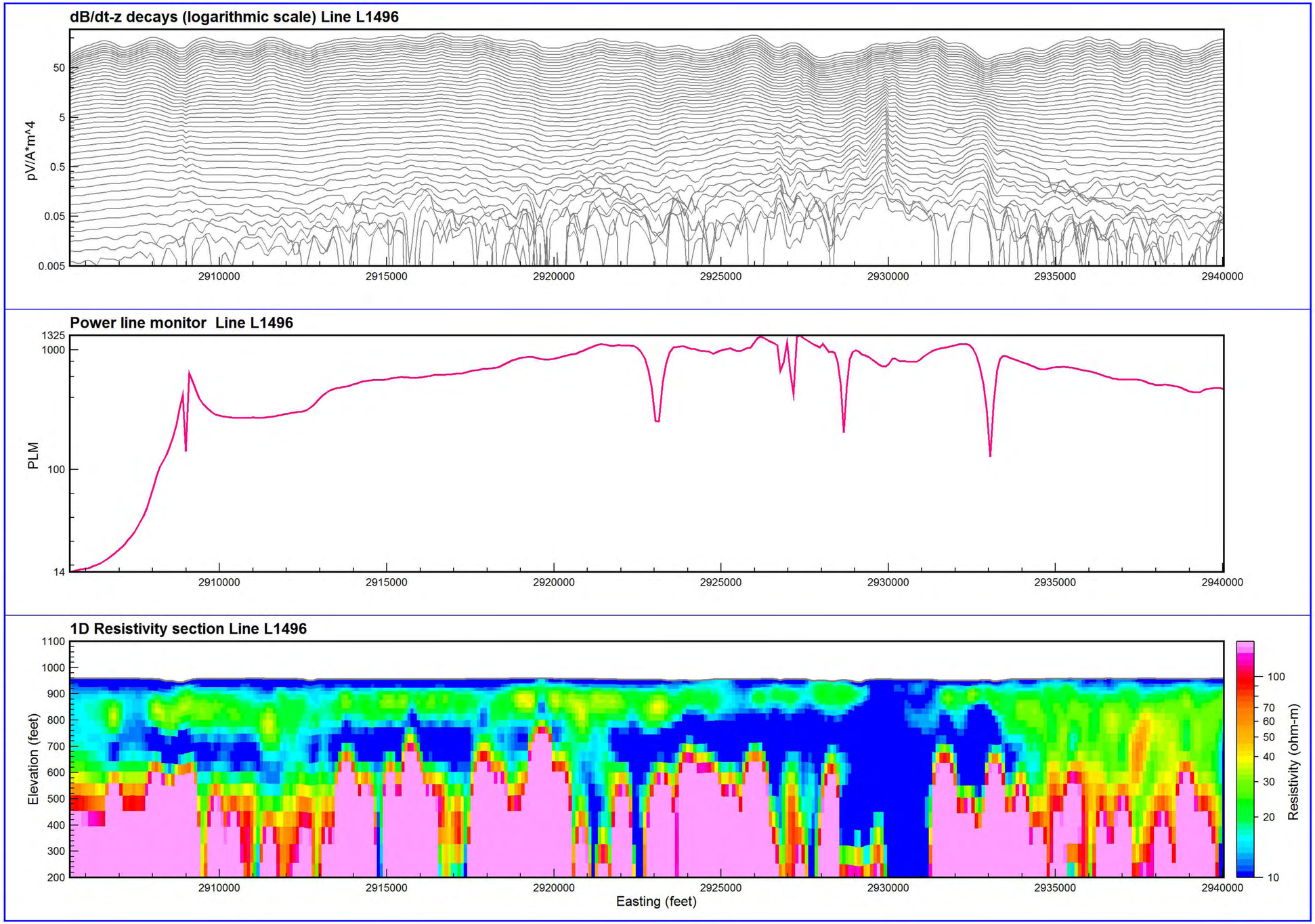
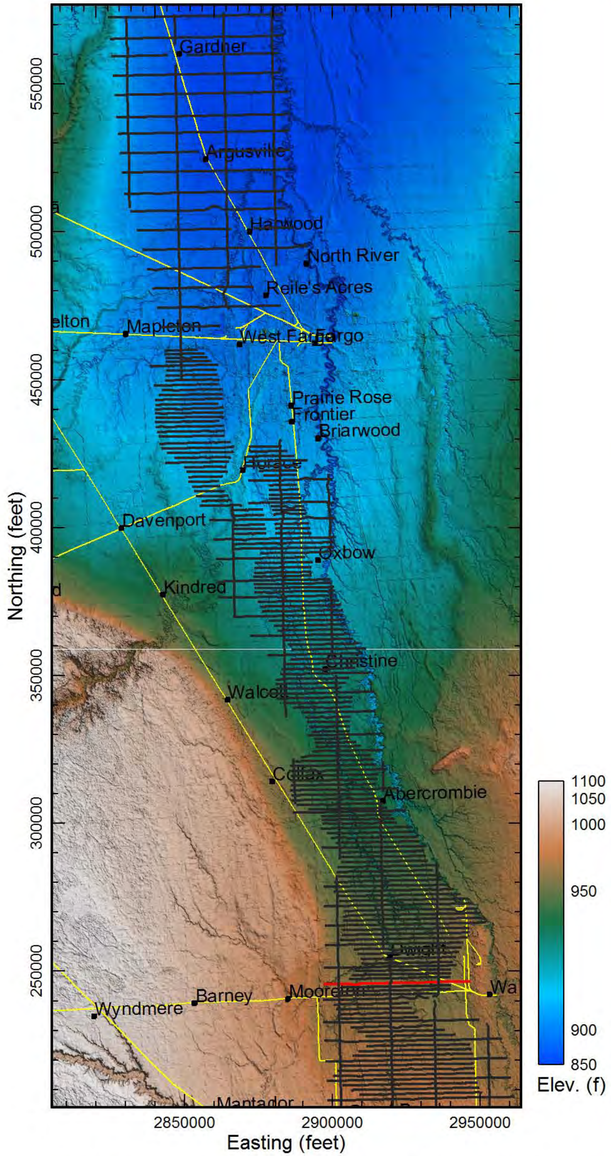
GEOTECH AIRBORNE GEOPHYSICAL SURVEYS





Map projection: NAD83 SPN Dakota South (int. feet)

Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

Date: Feb. 2, 2018

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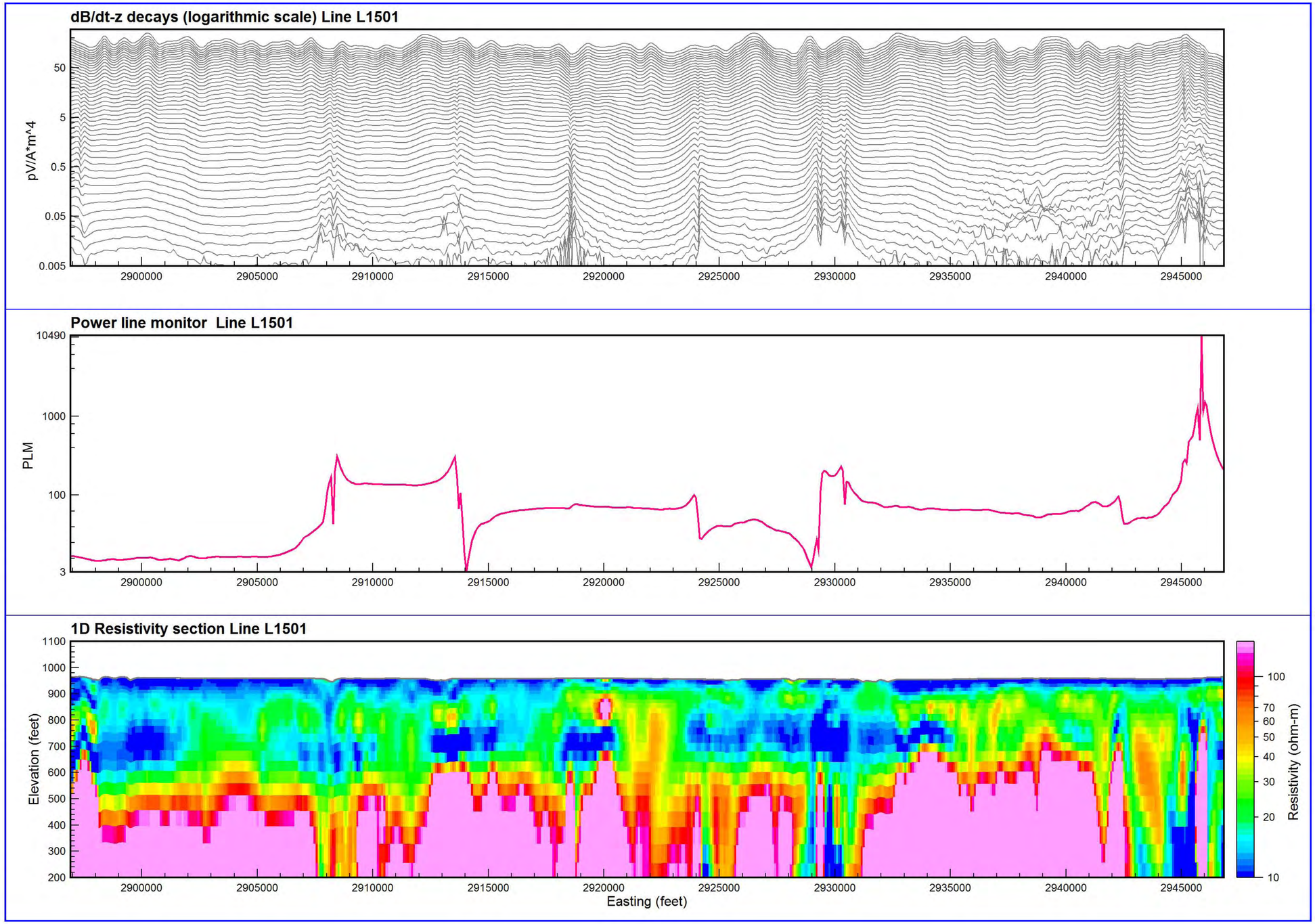

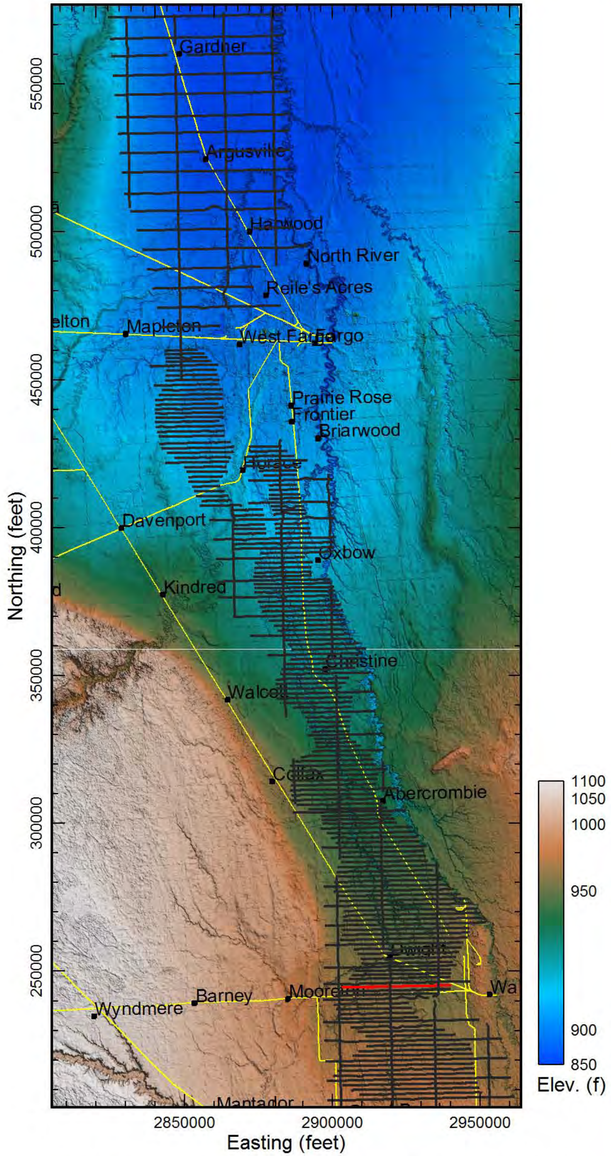

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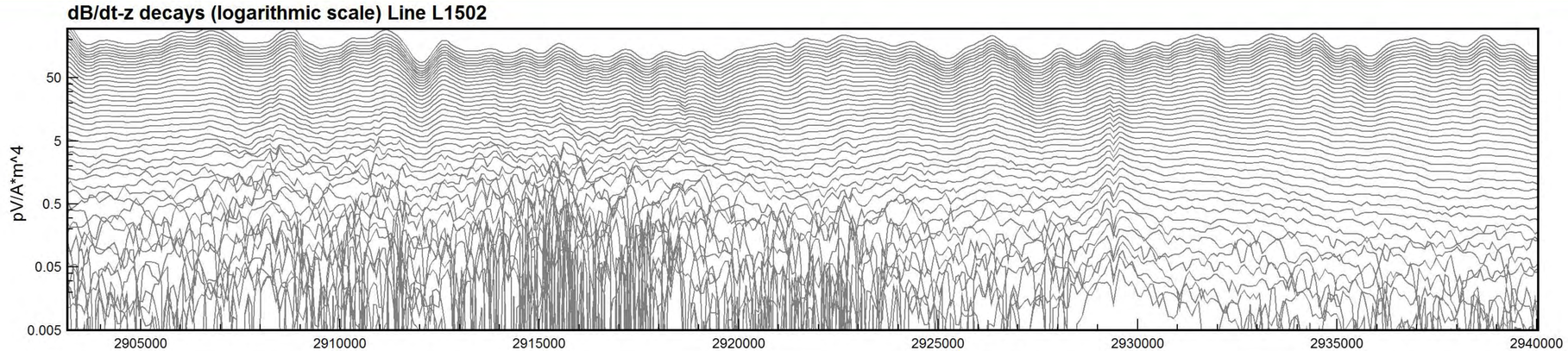

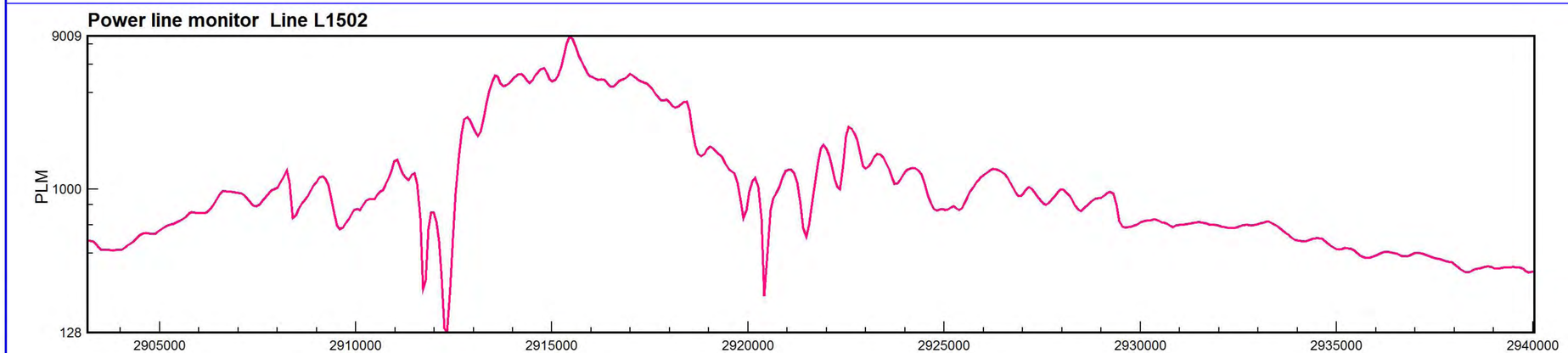

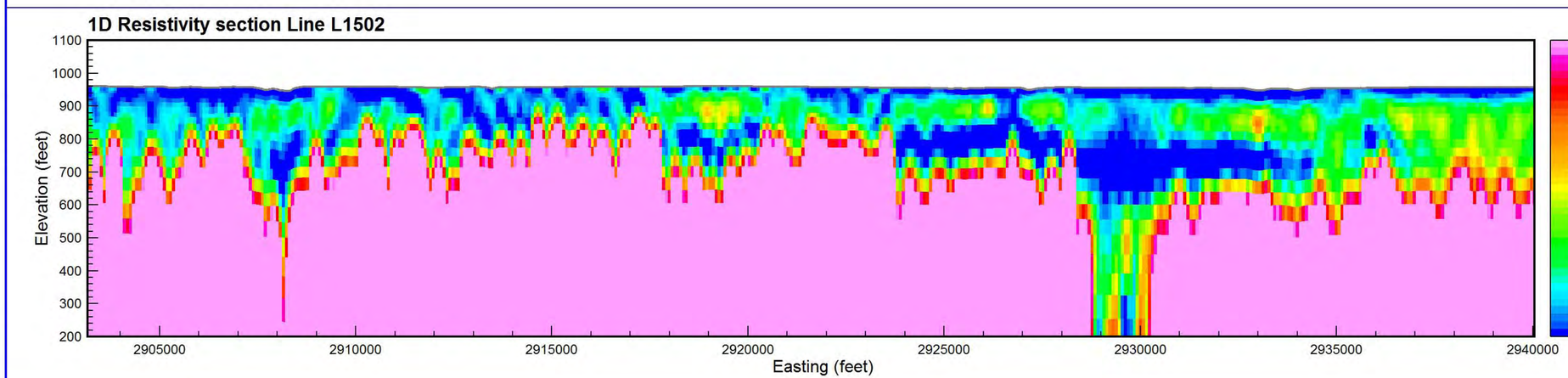

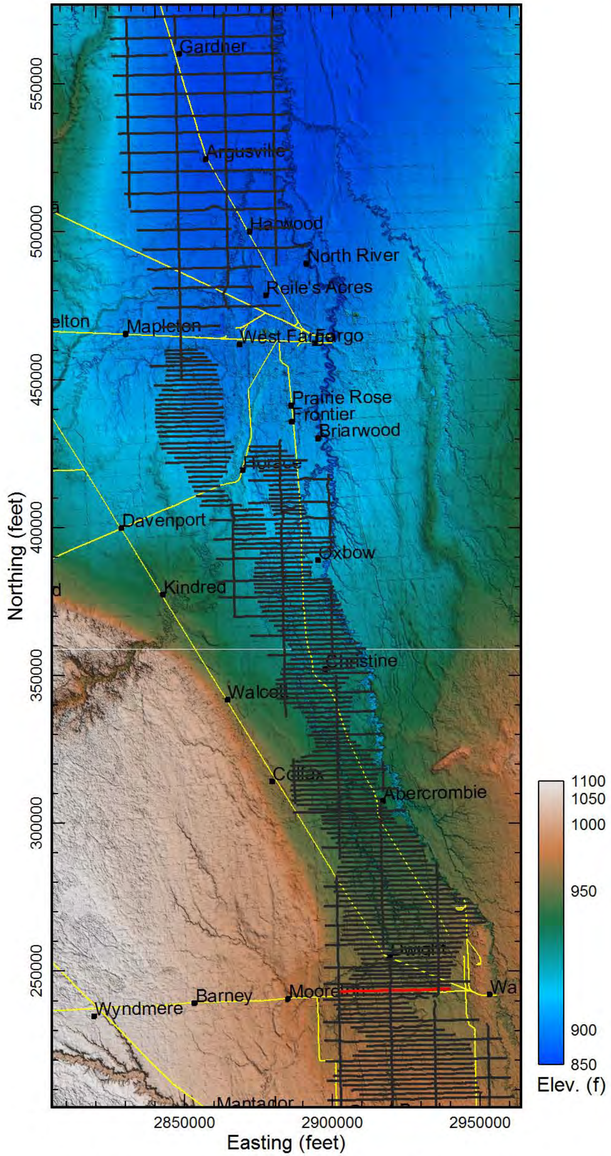

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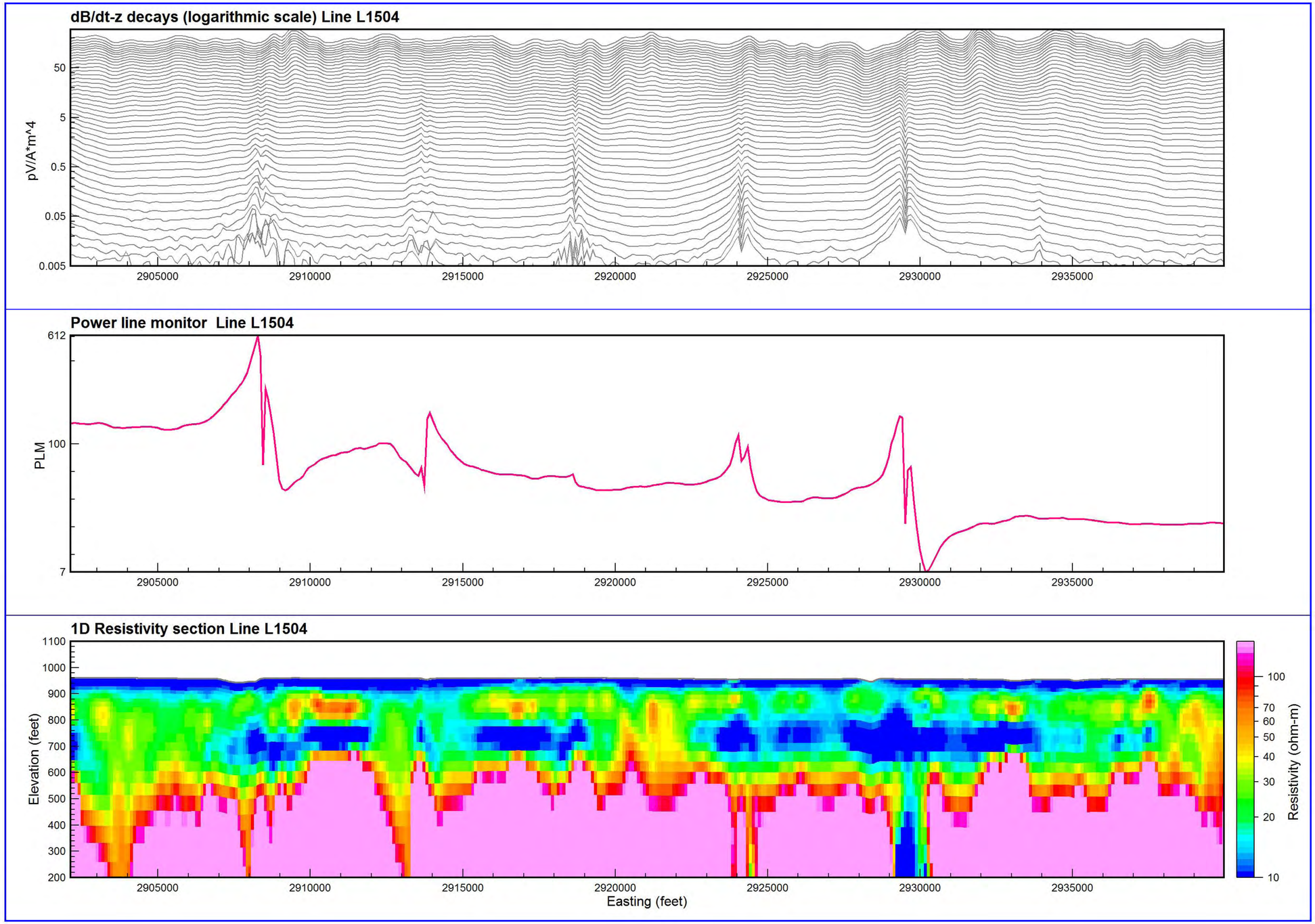

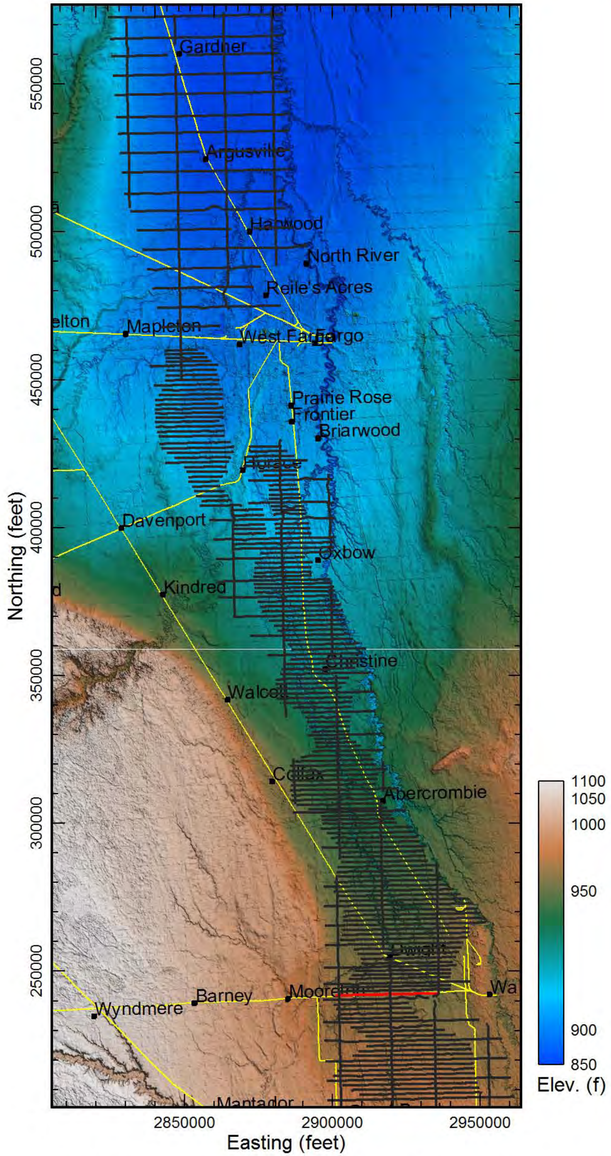

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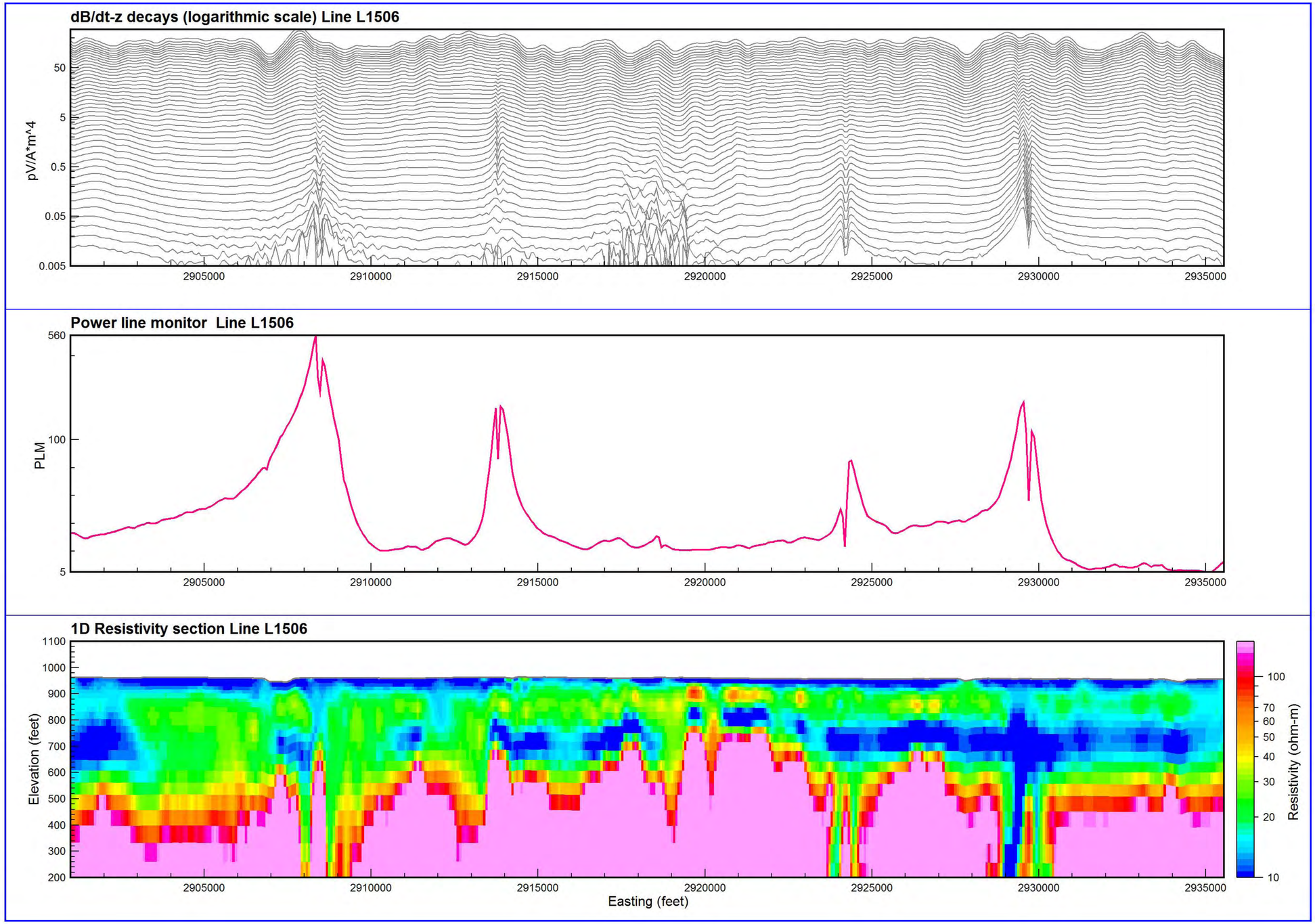

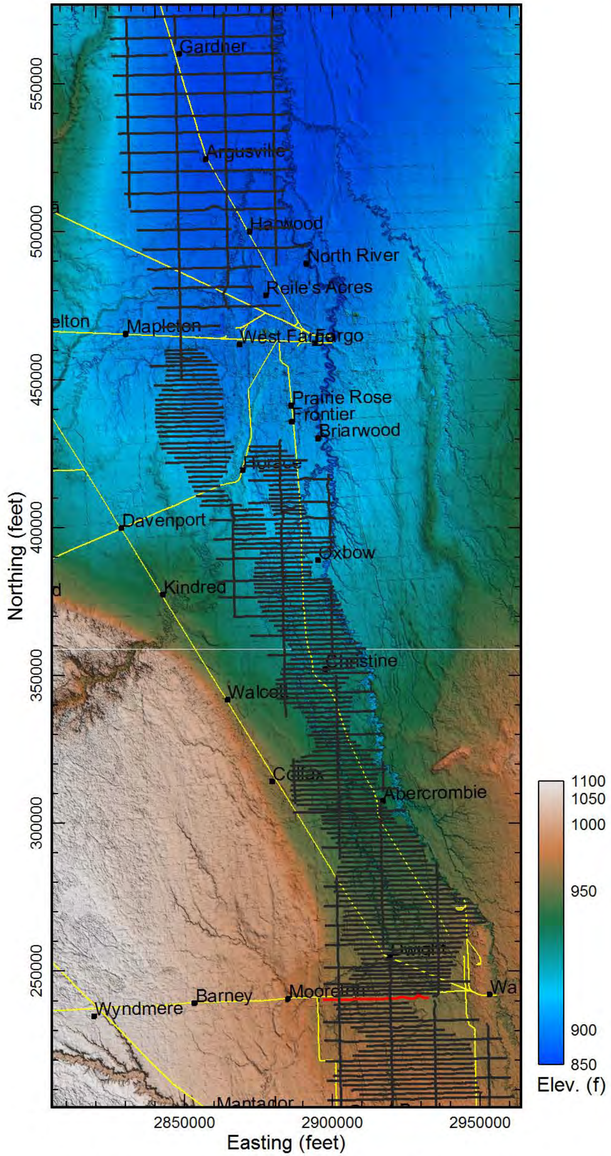

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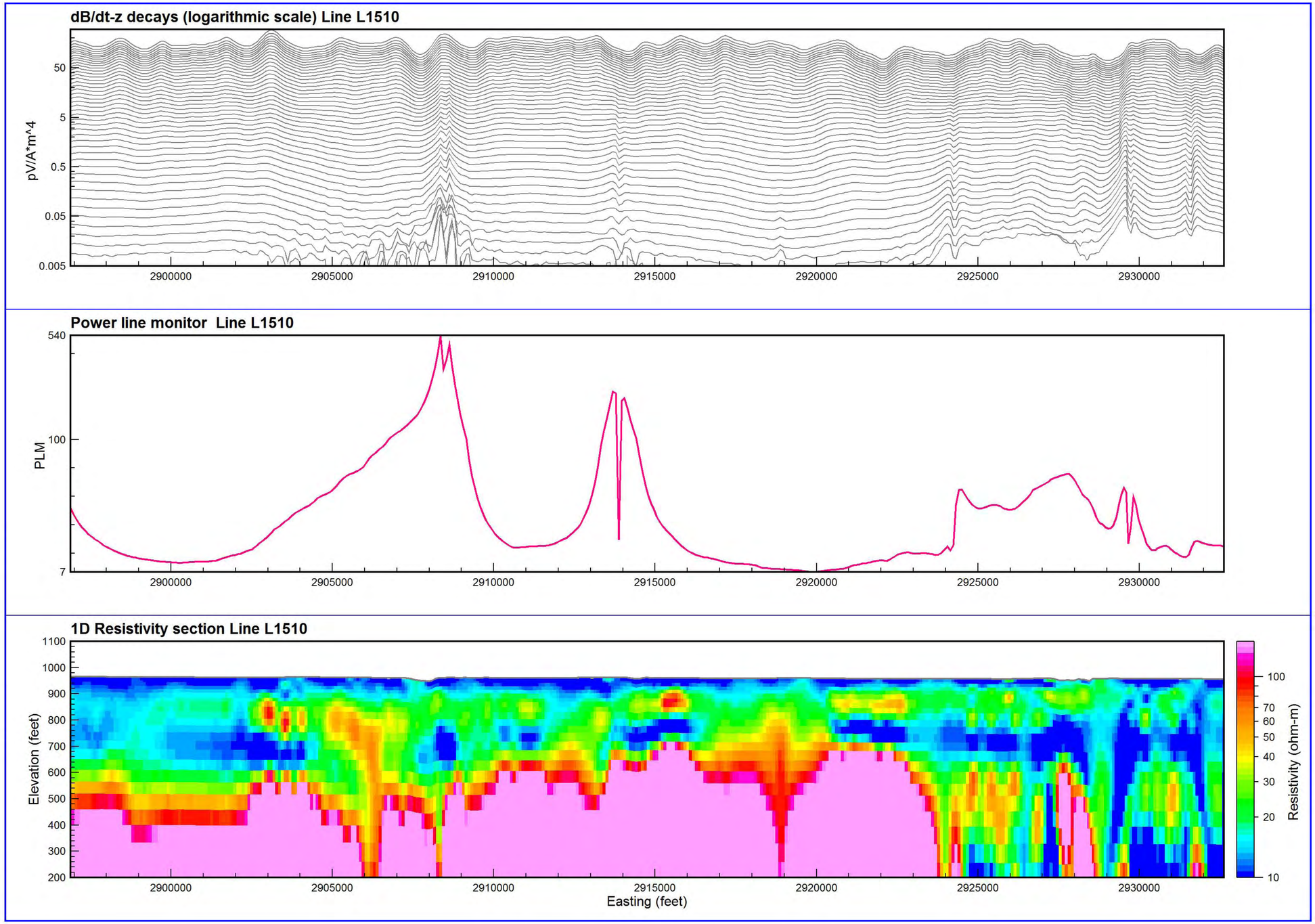

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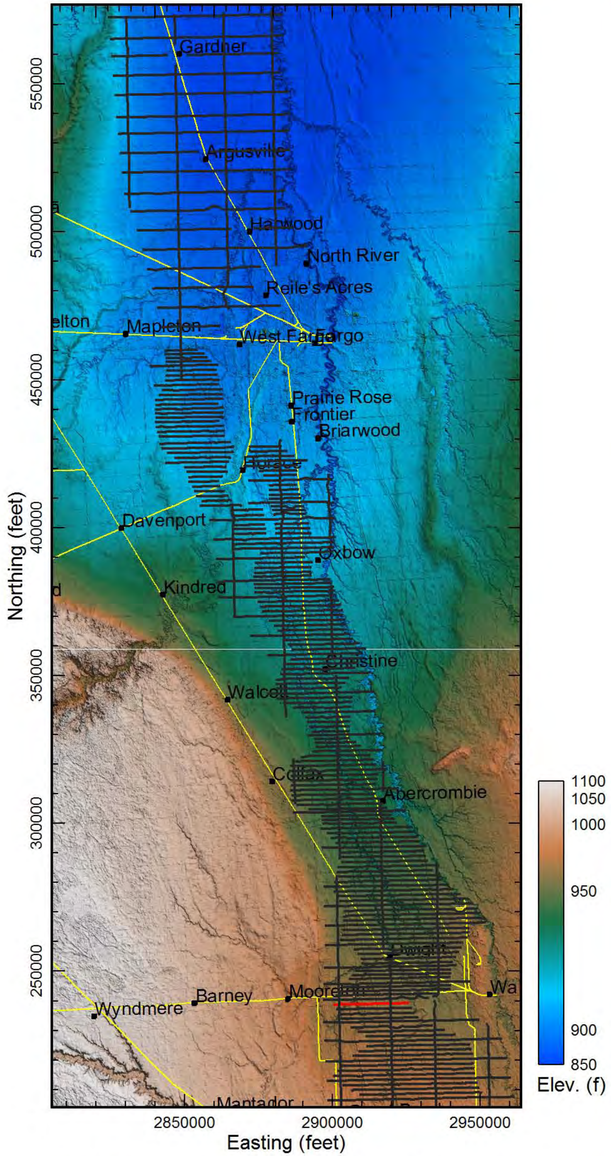

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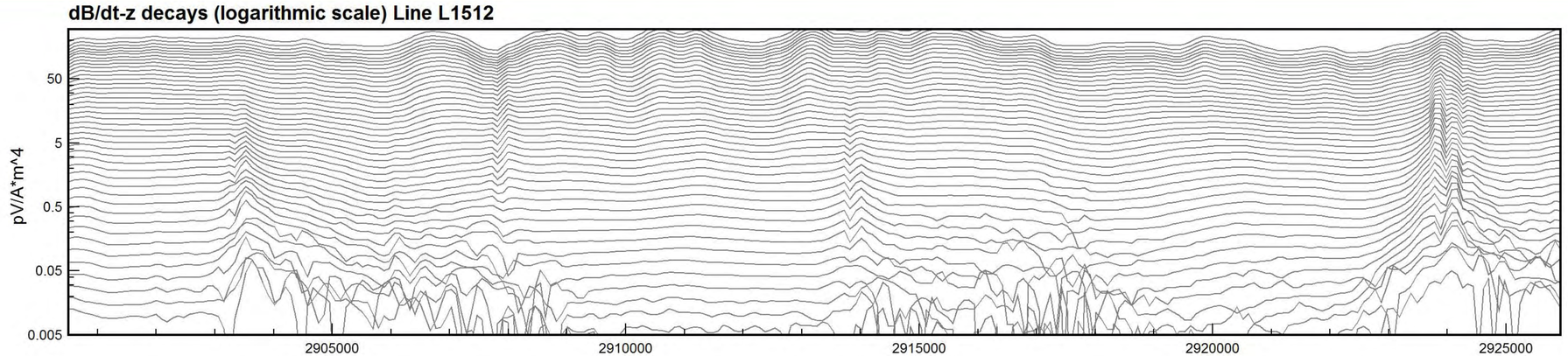

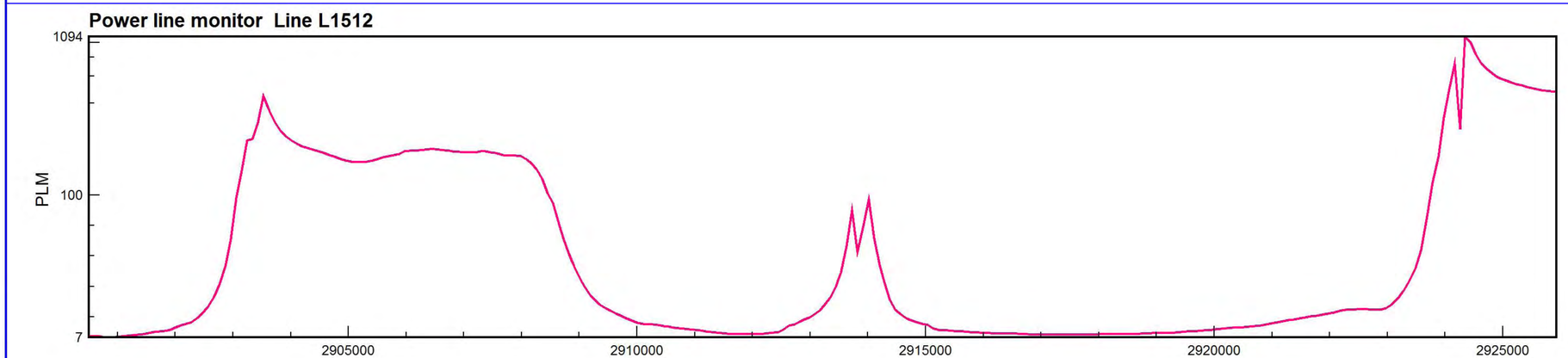

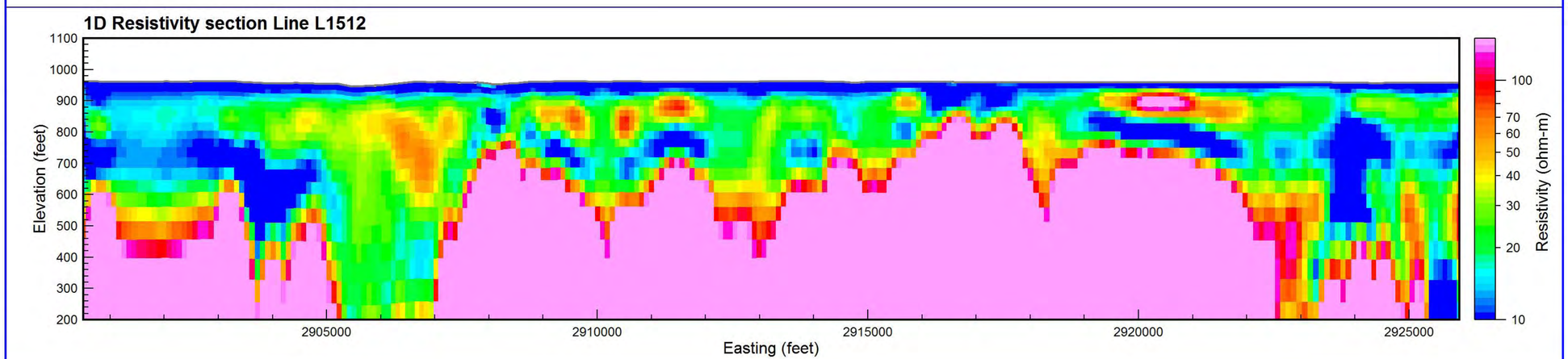

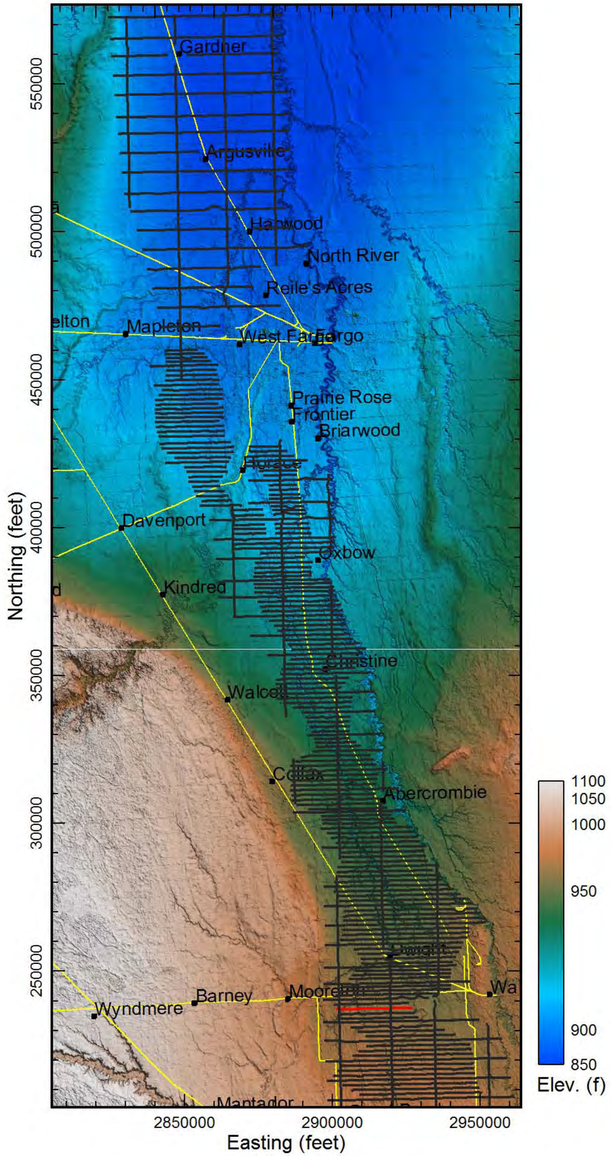

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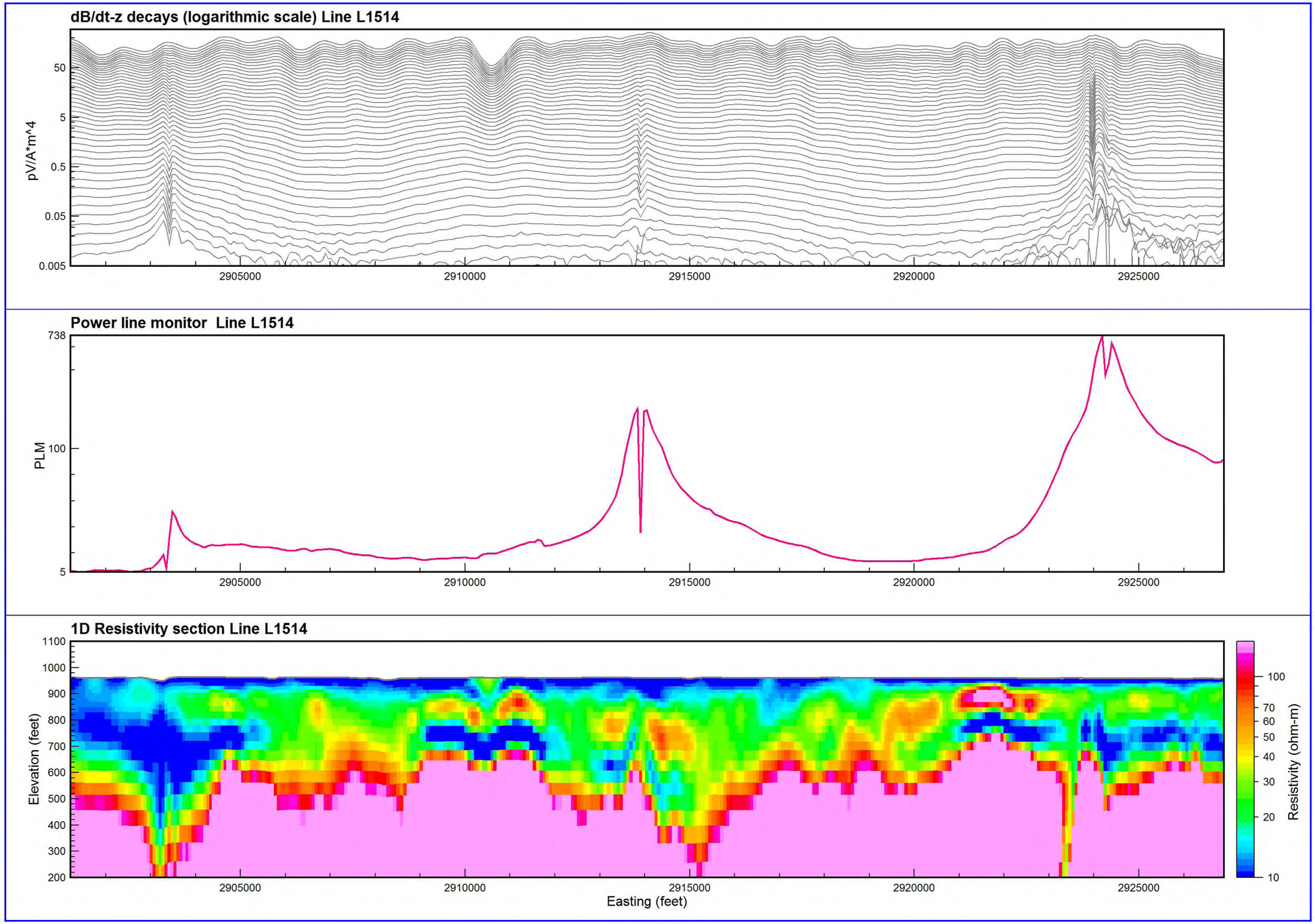

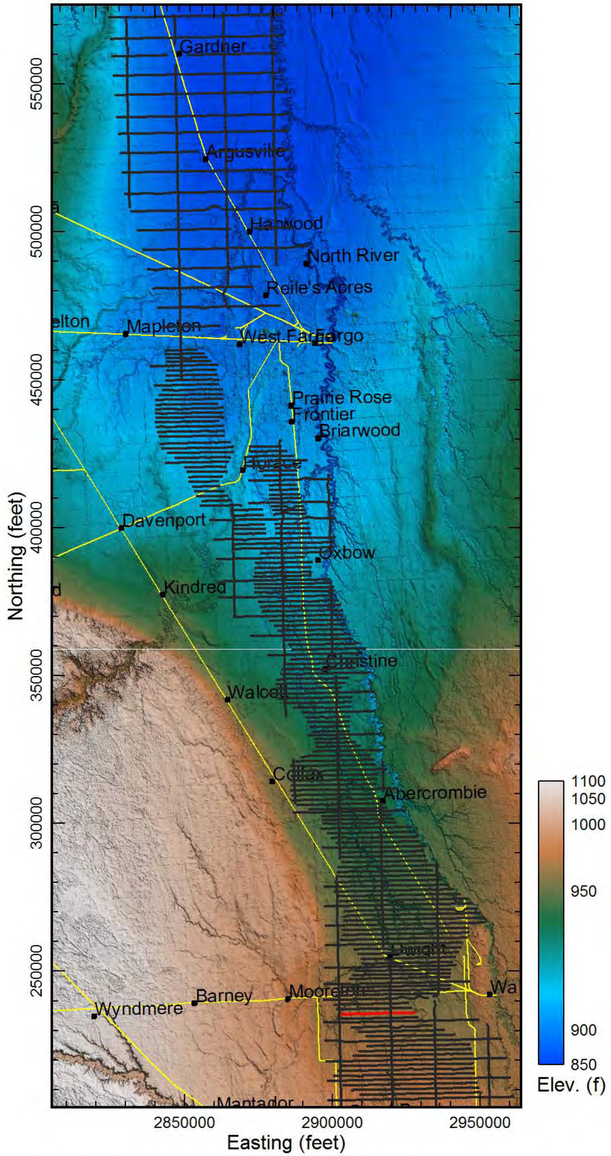

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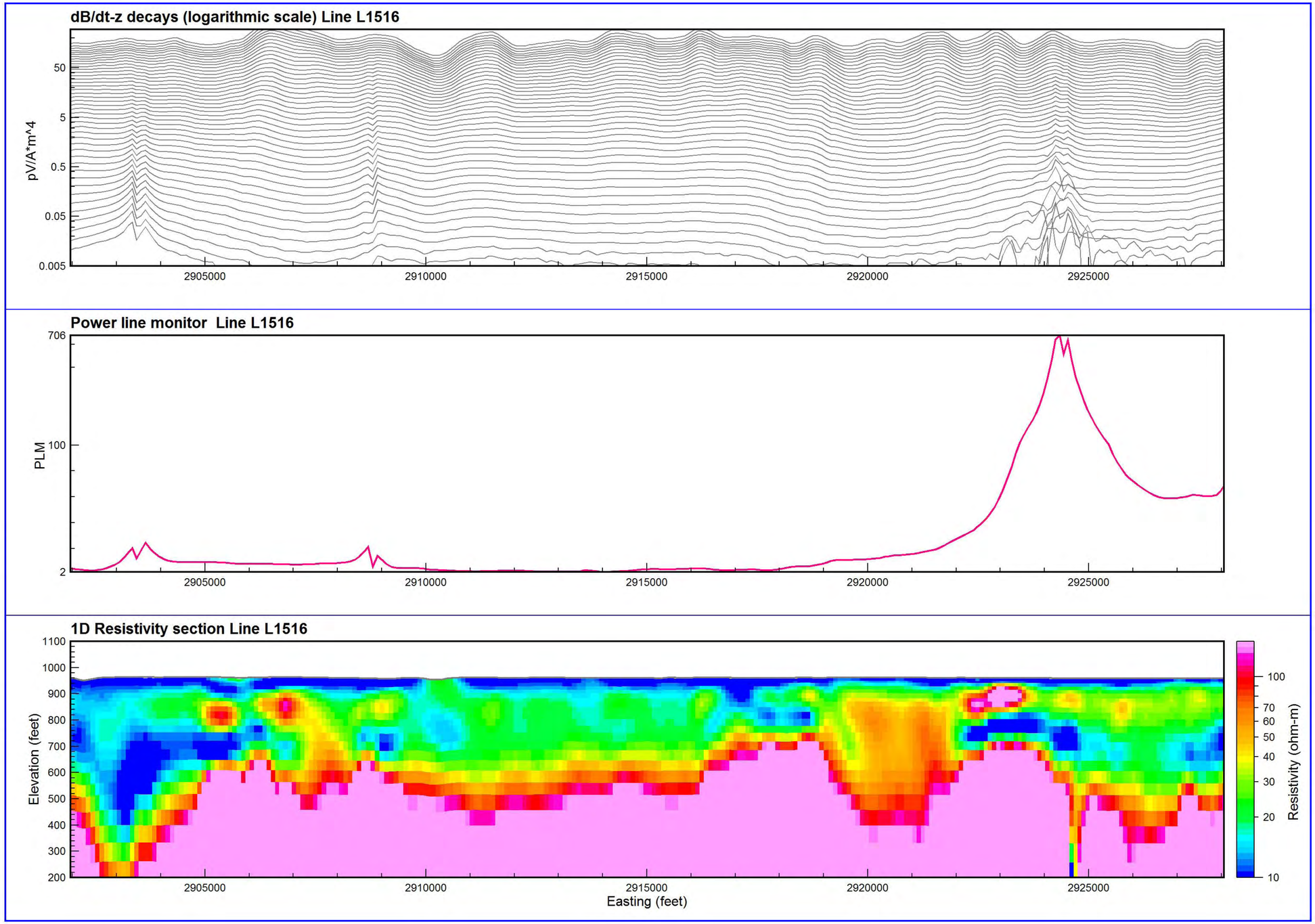

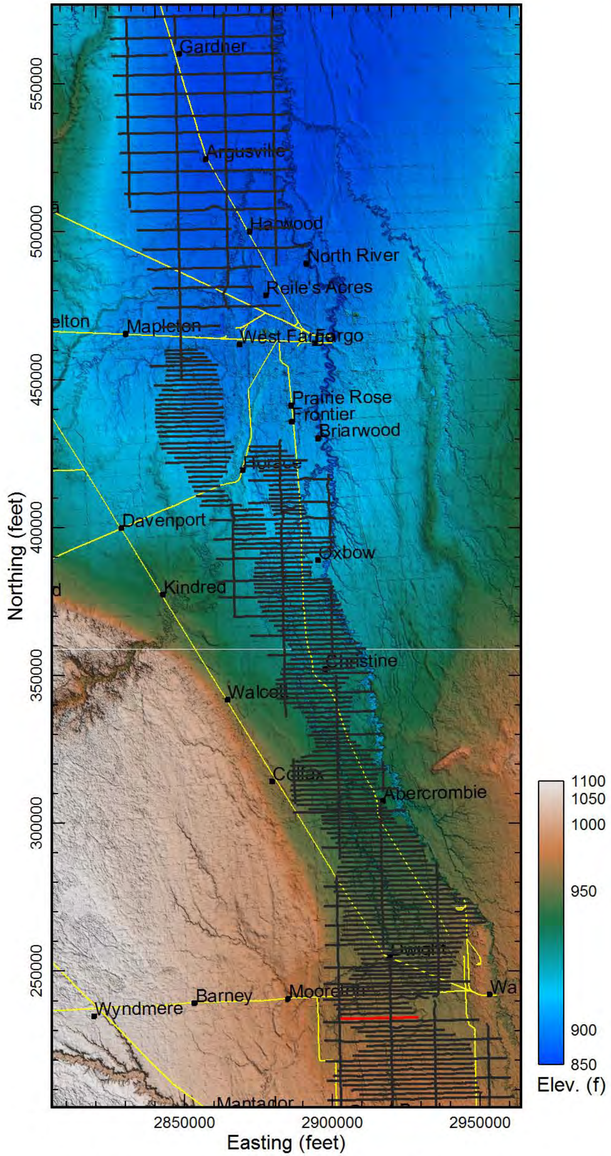

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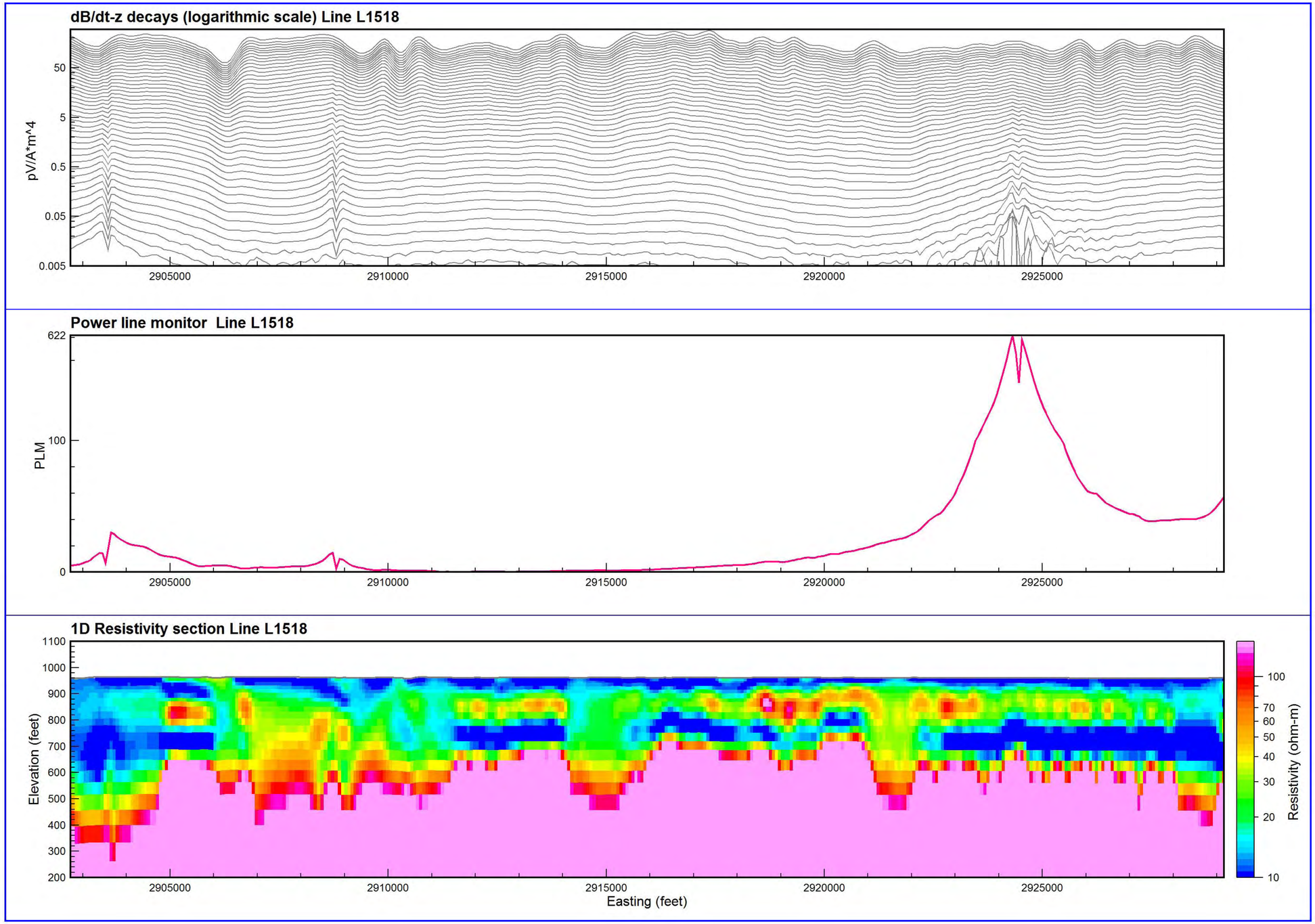

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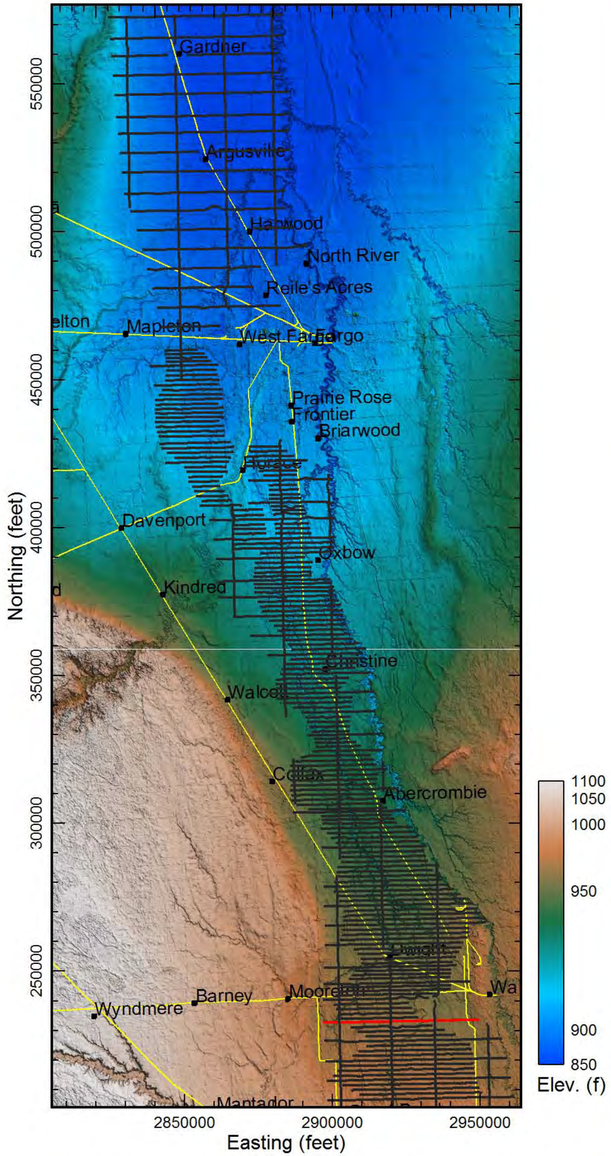

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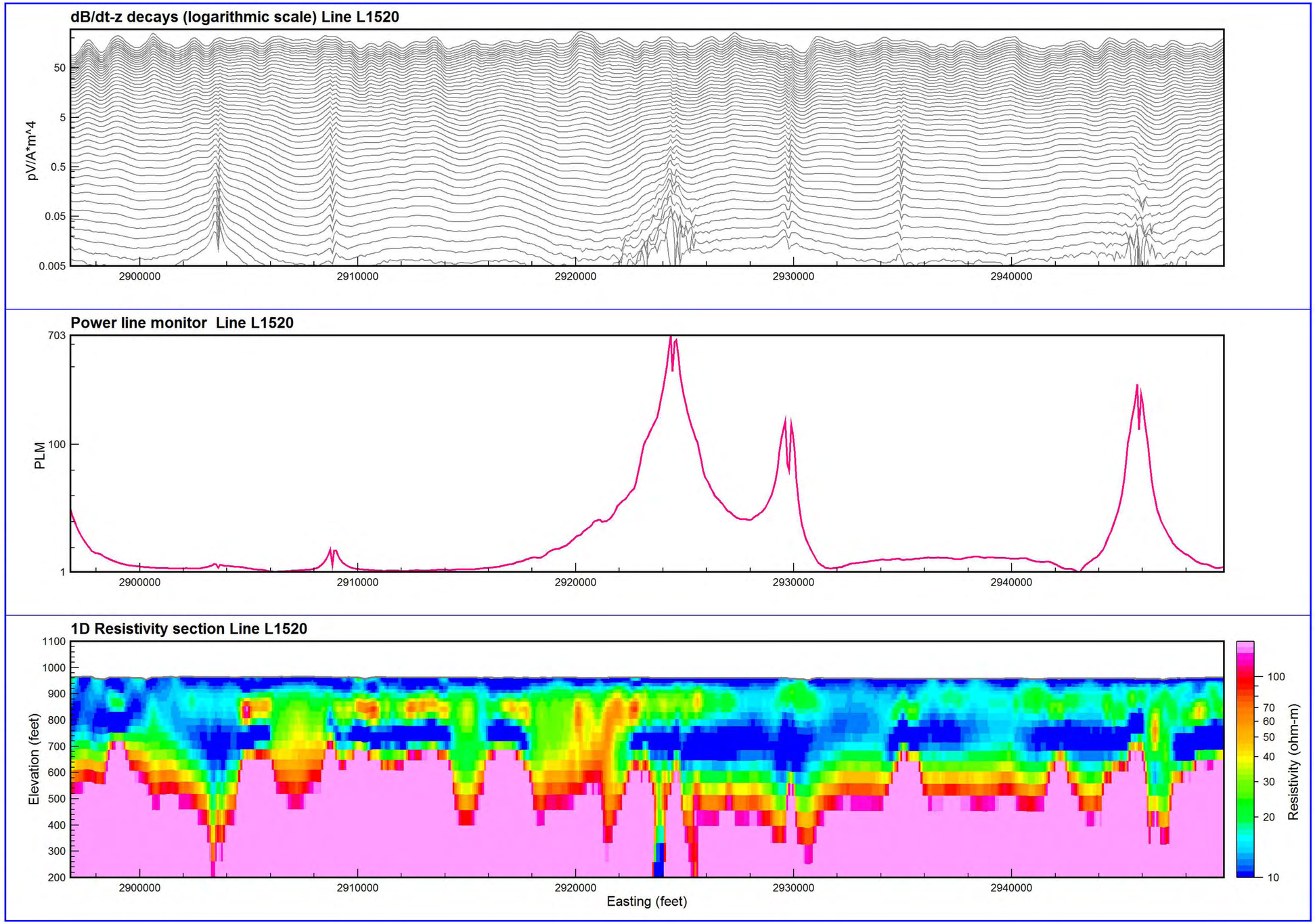

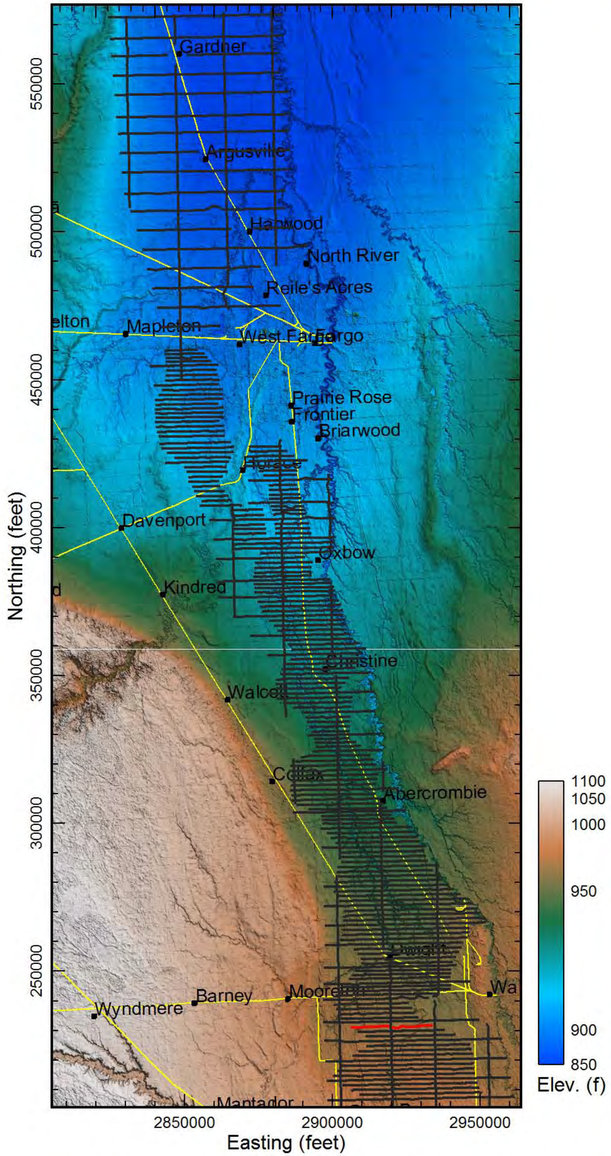

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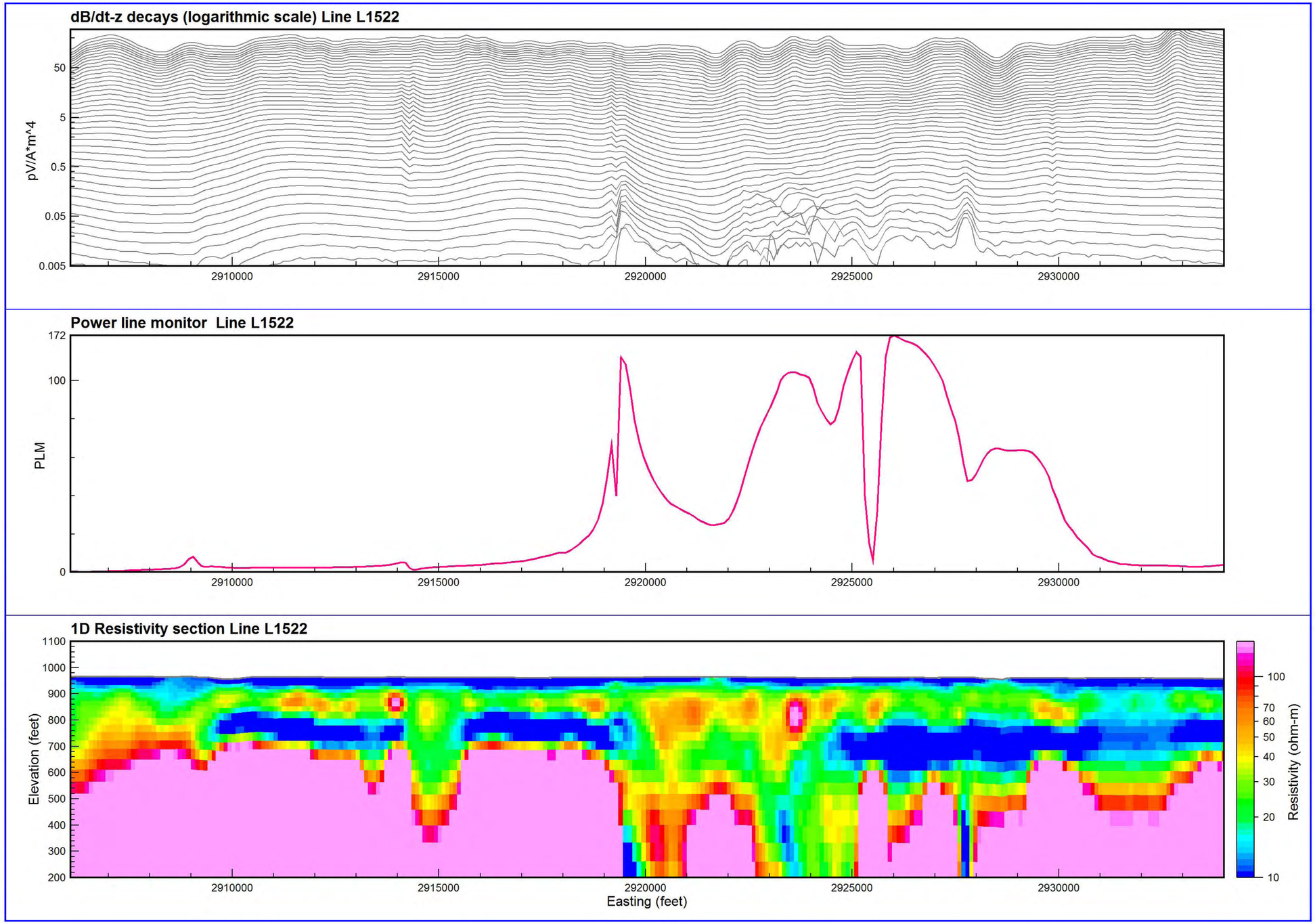

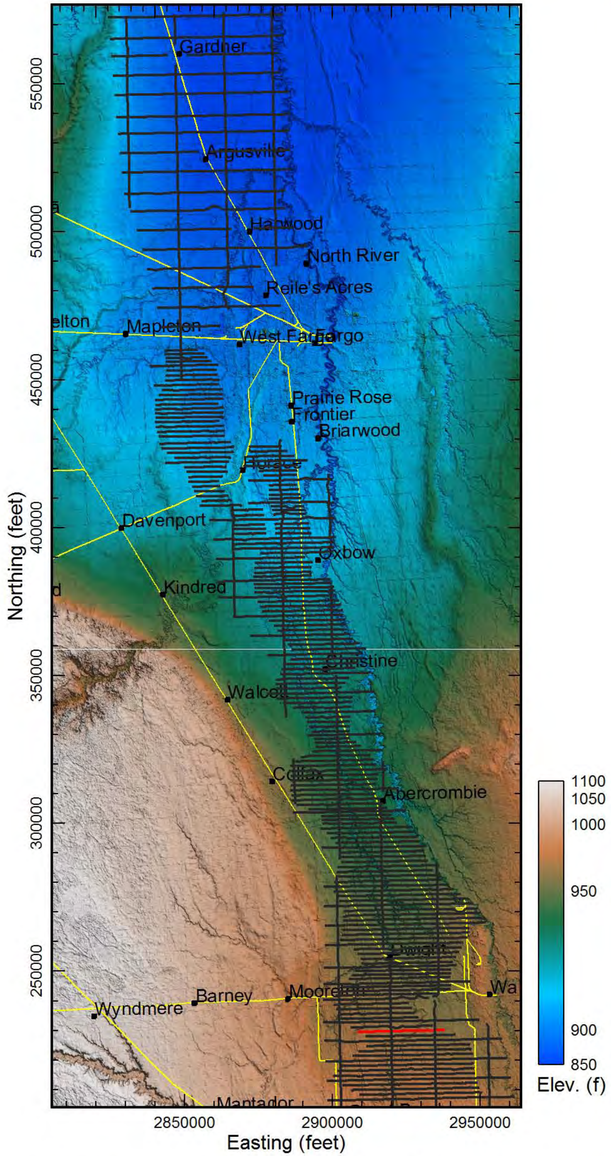

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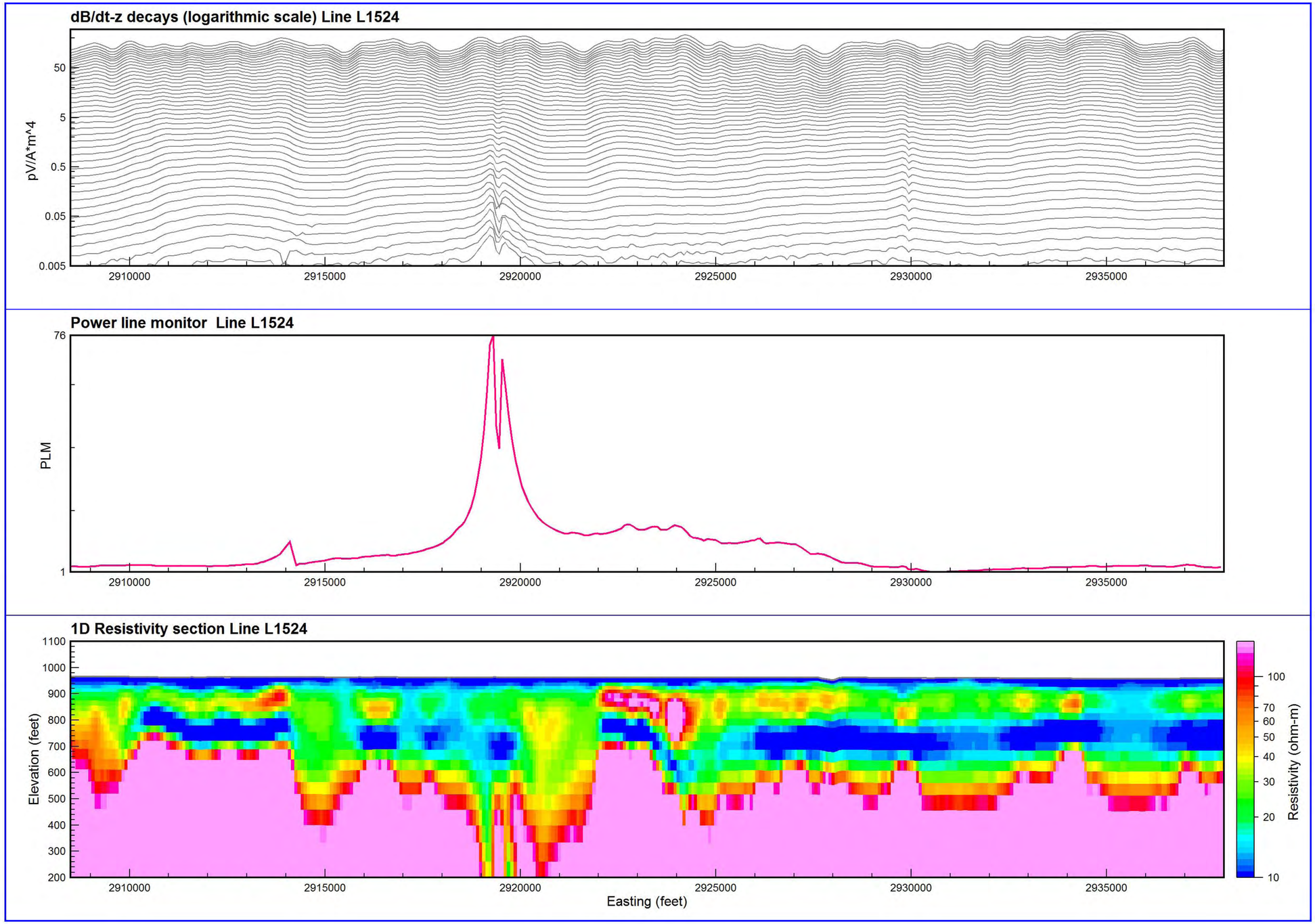

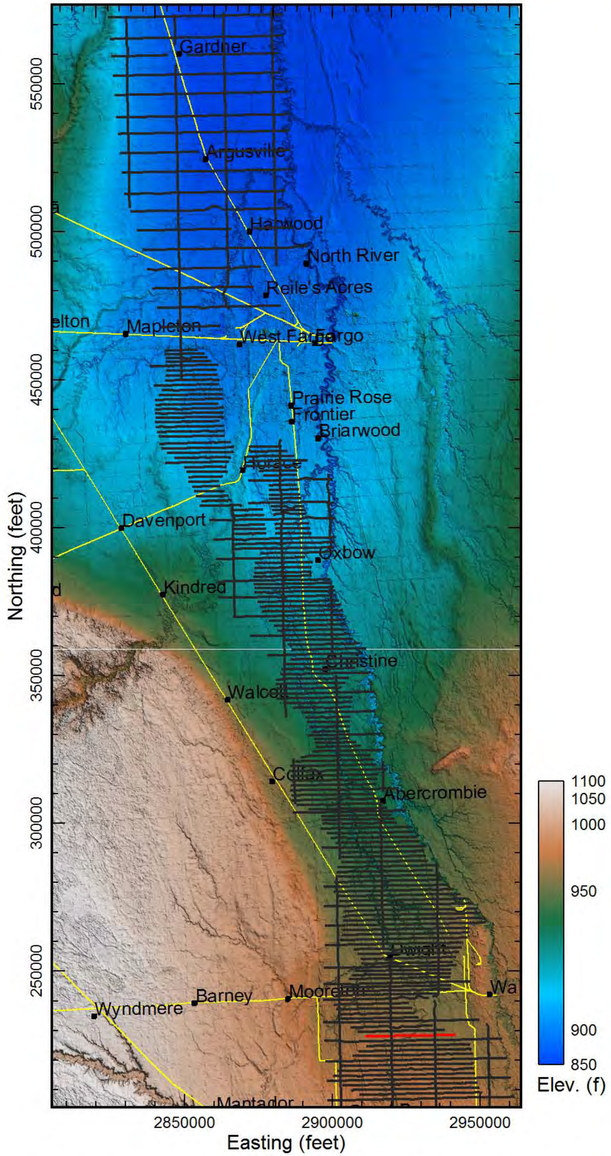

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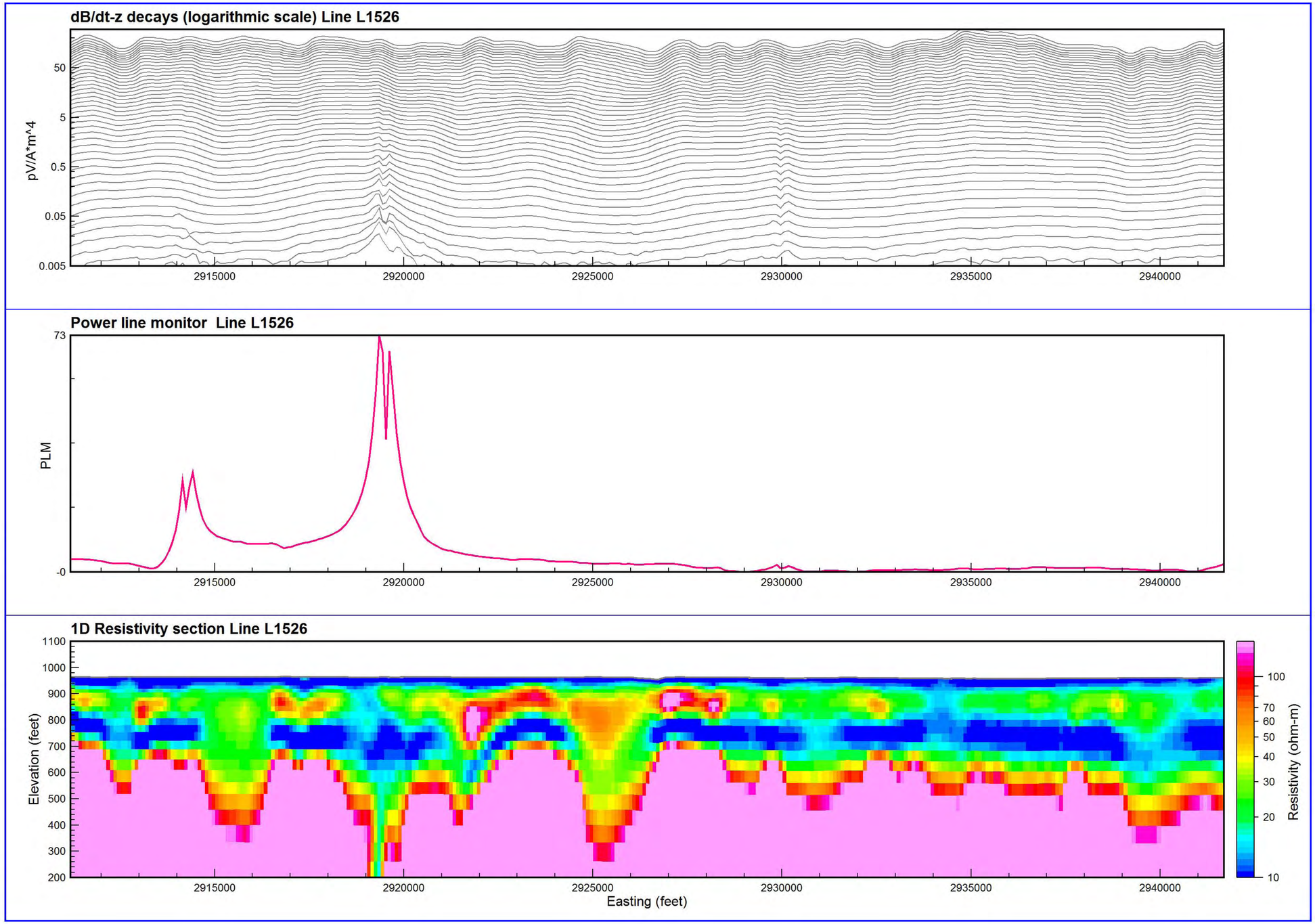

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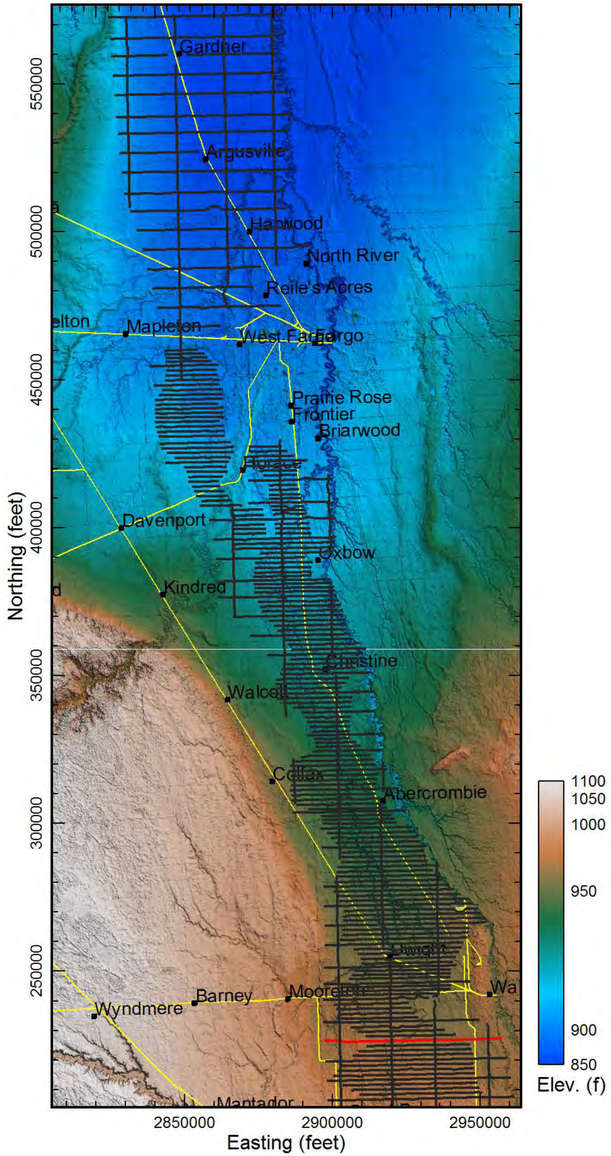

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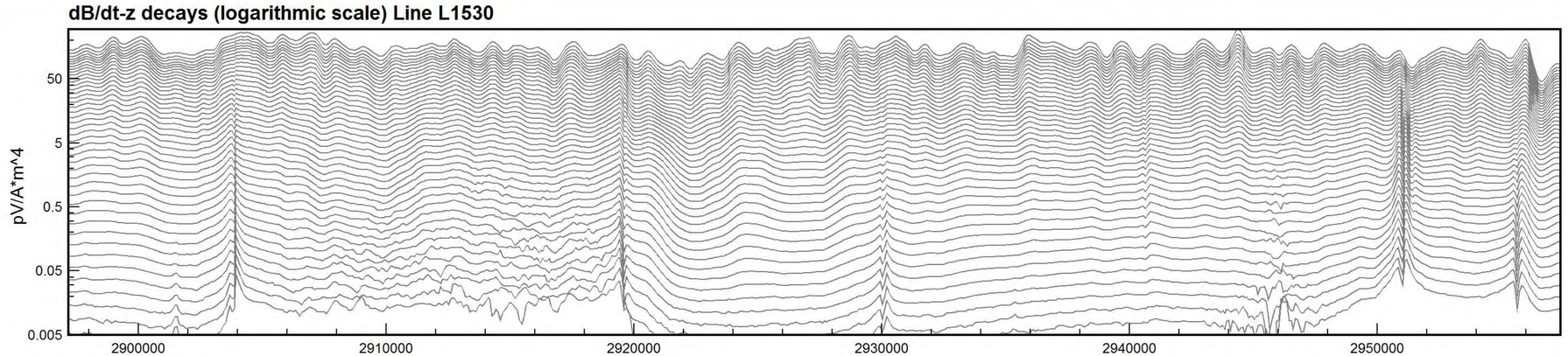

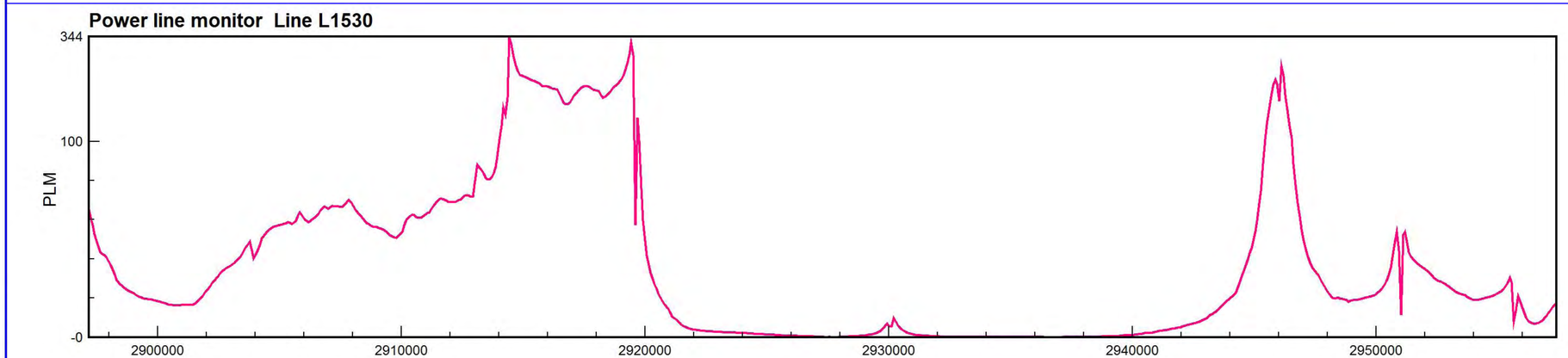

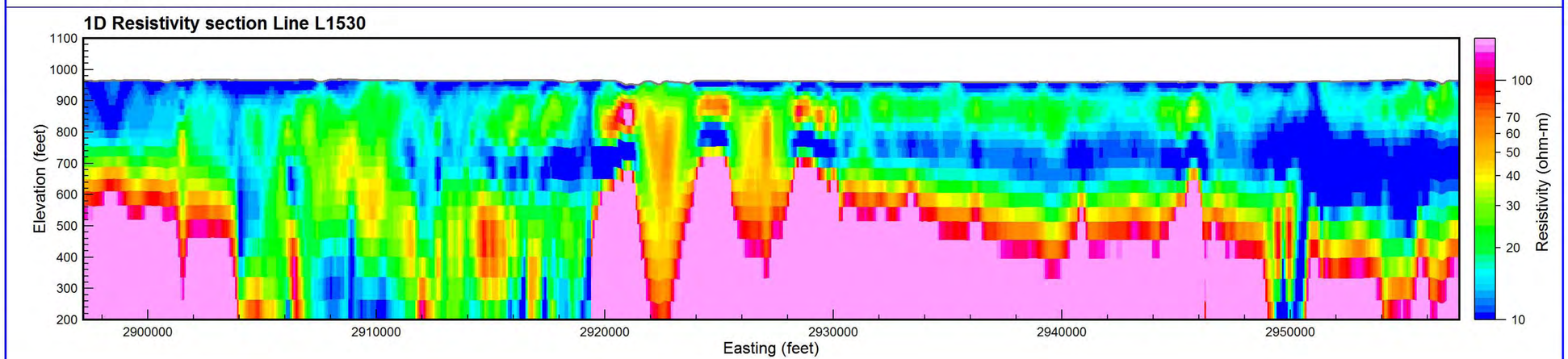

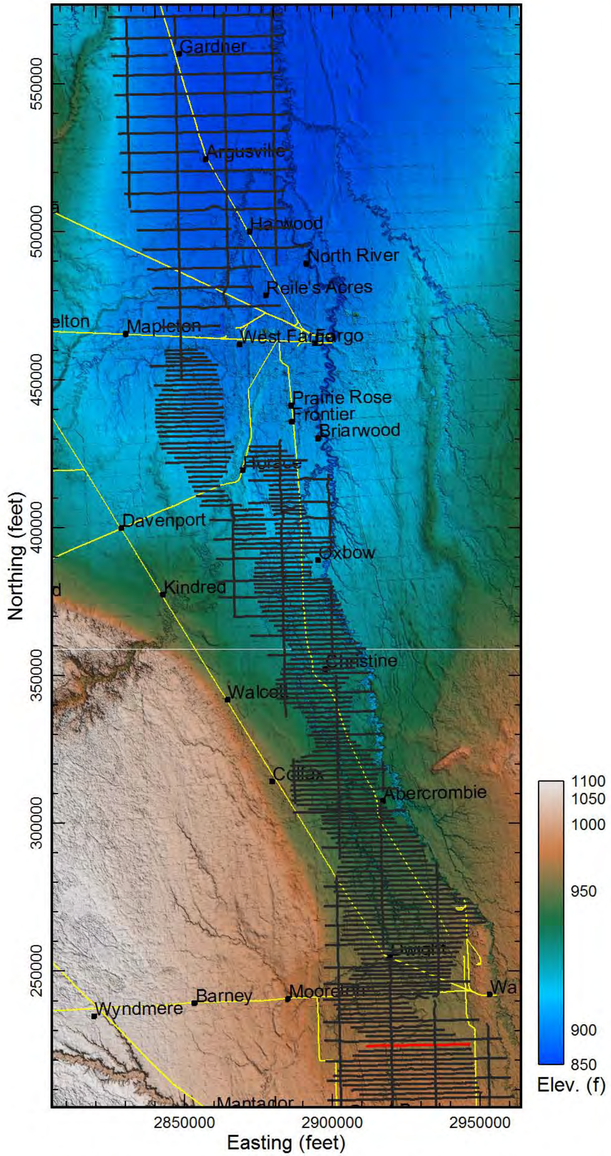

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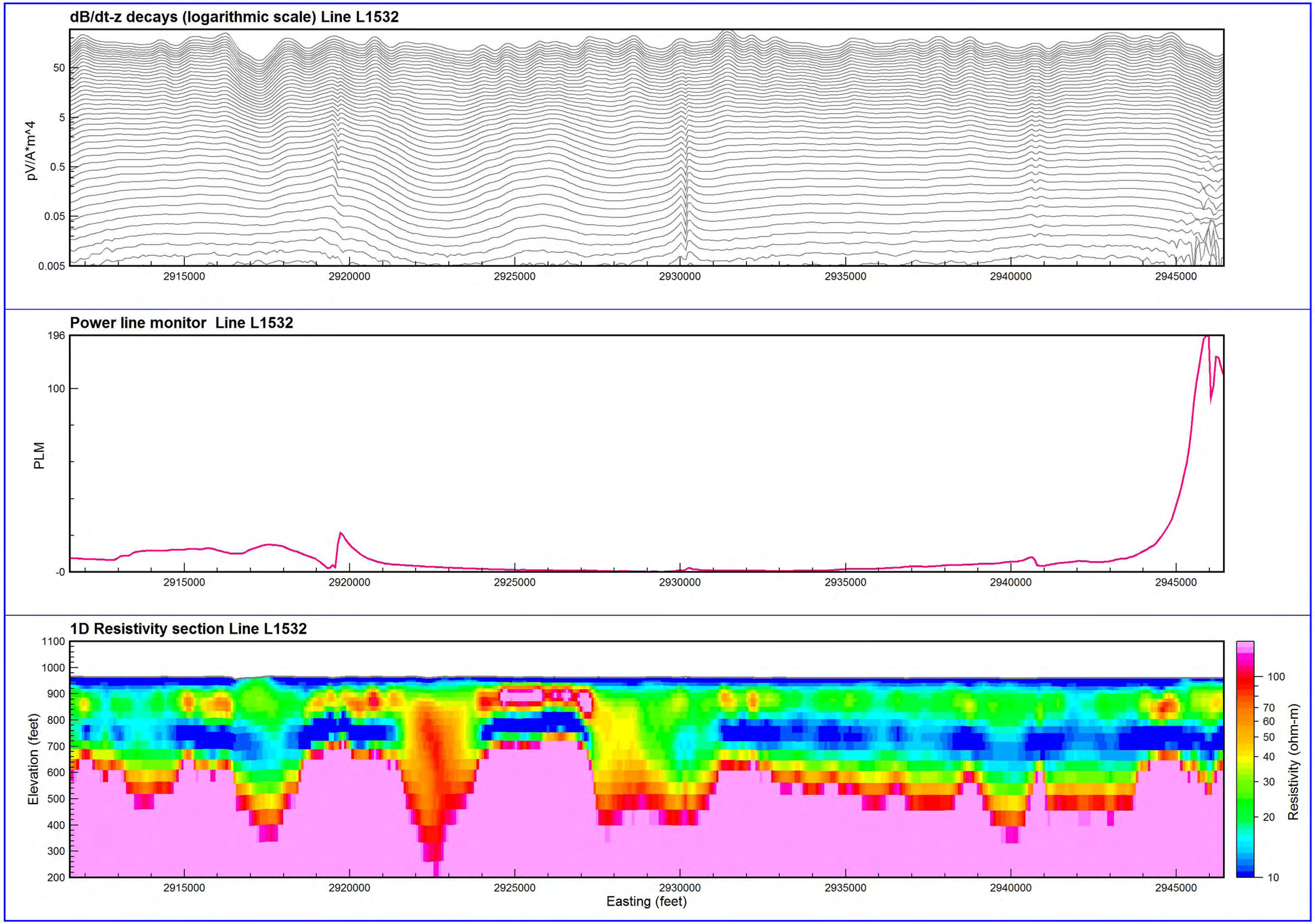

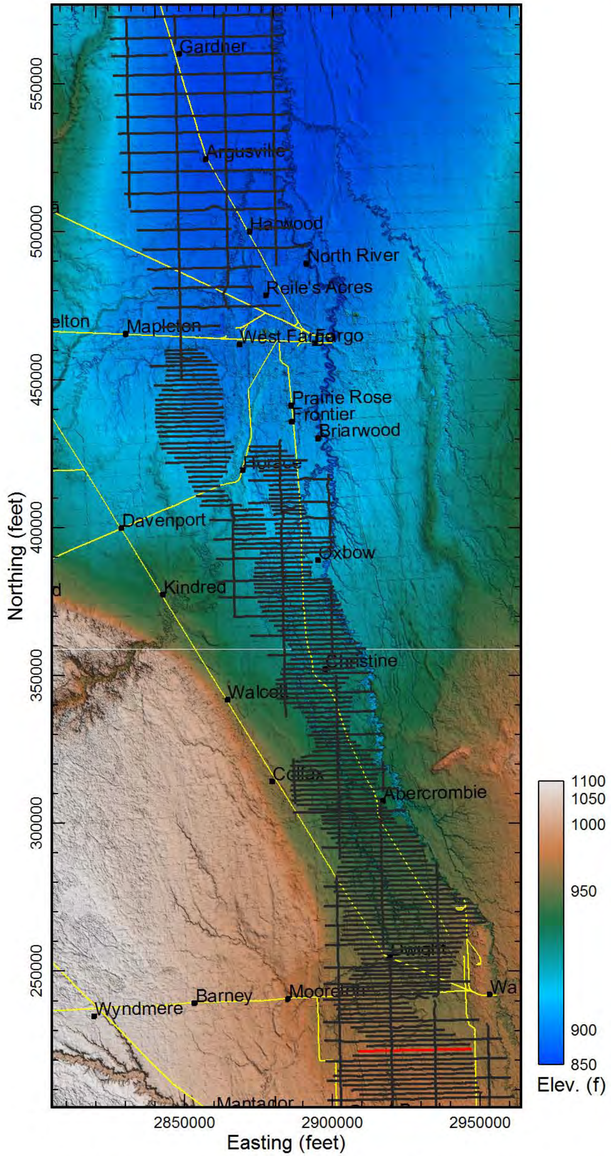

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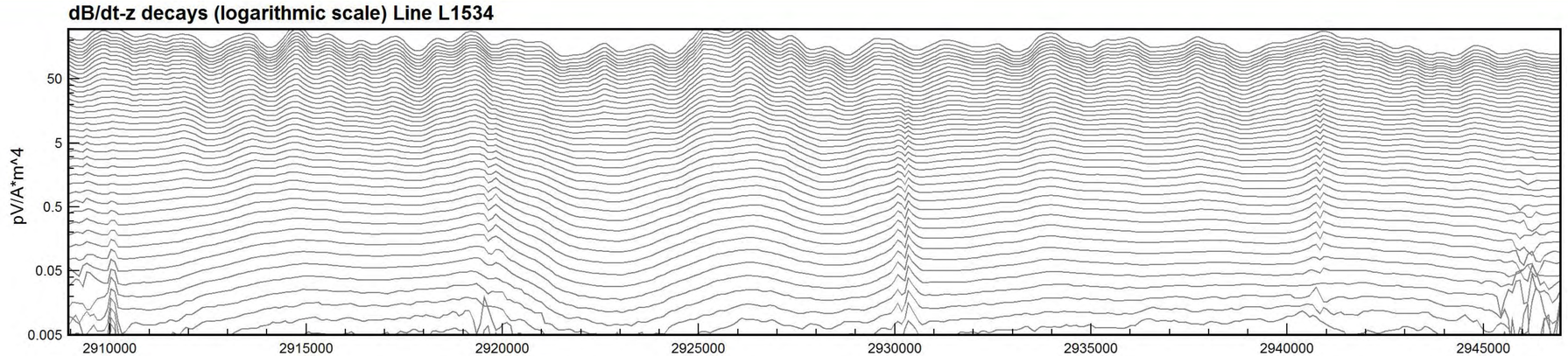

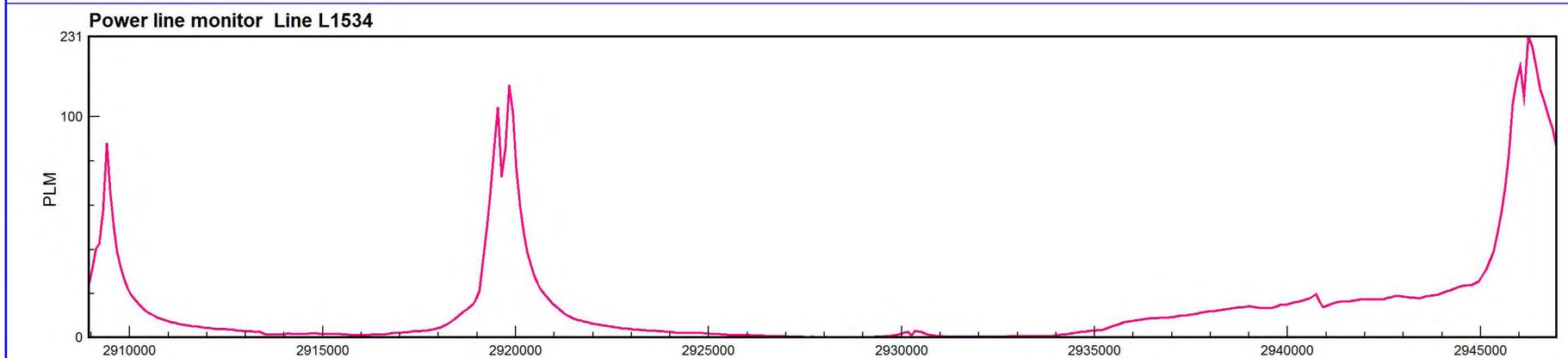

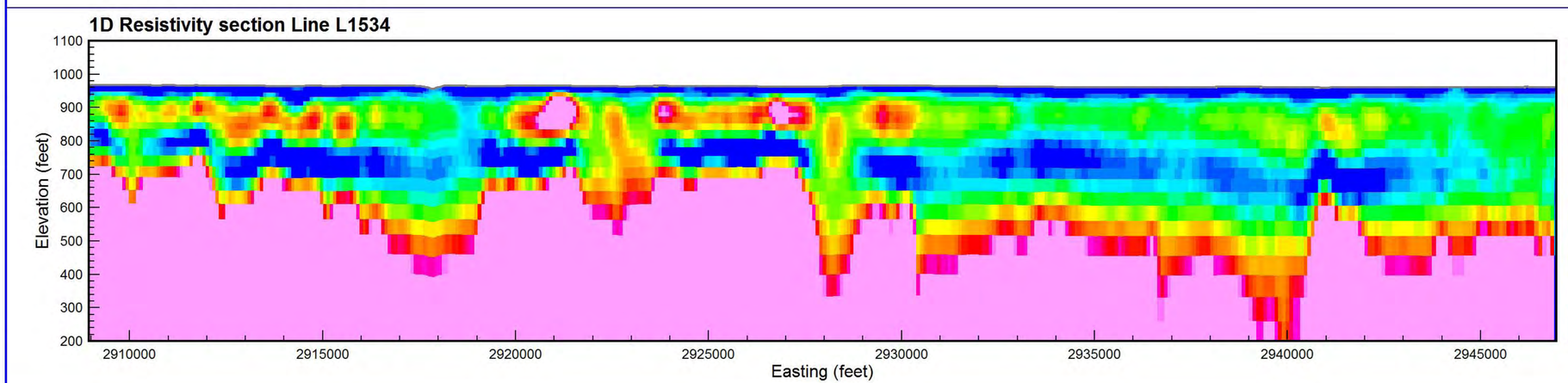

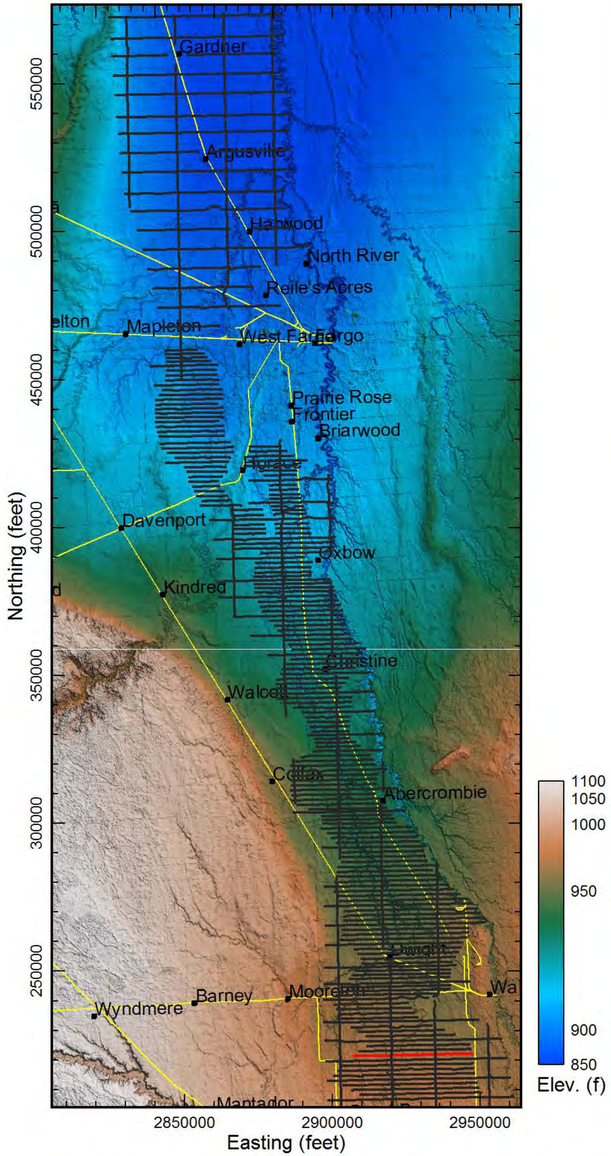

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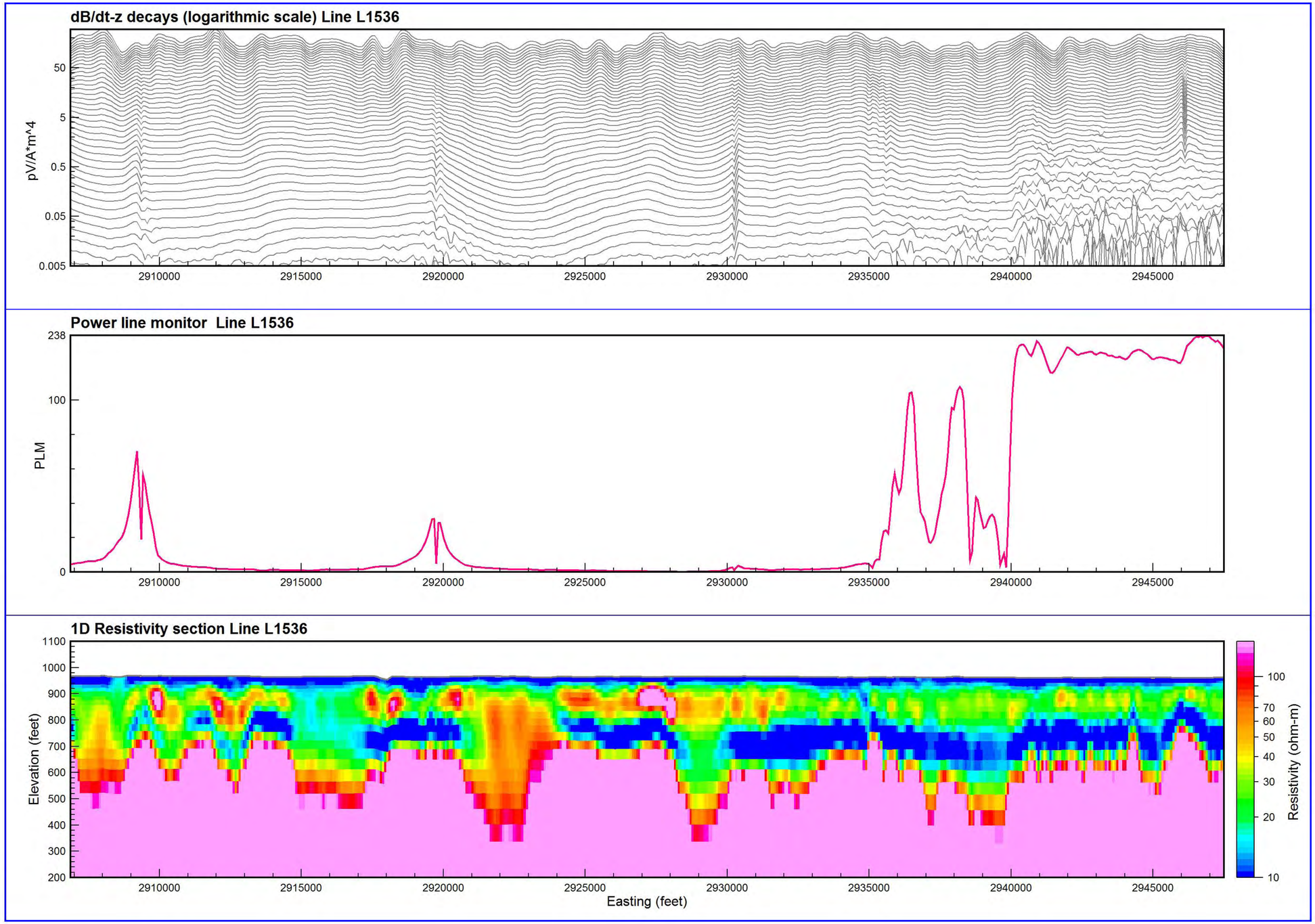

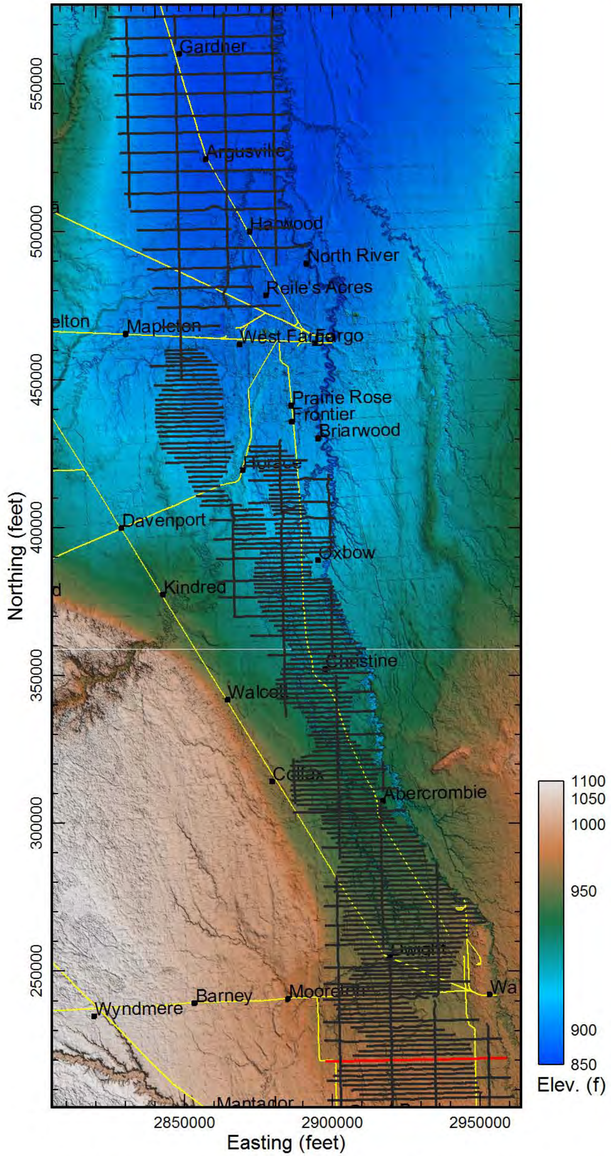

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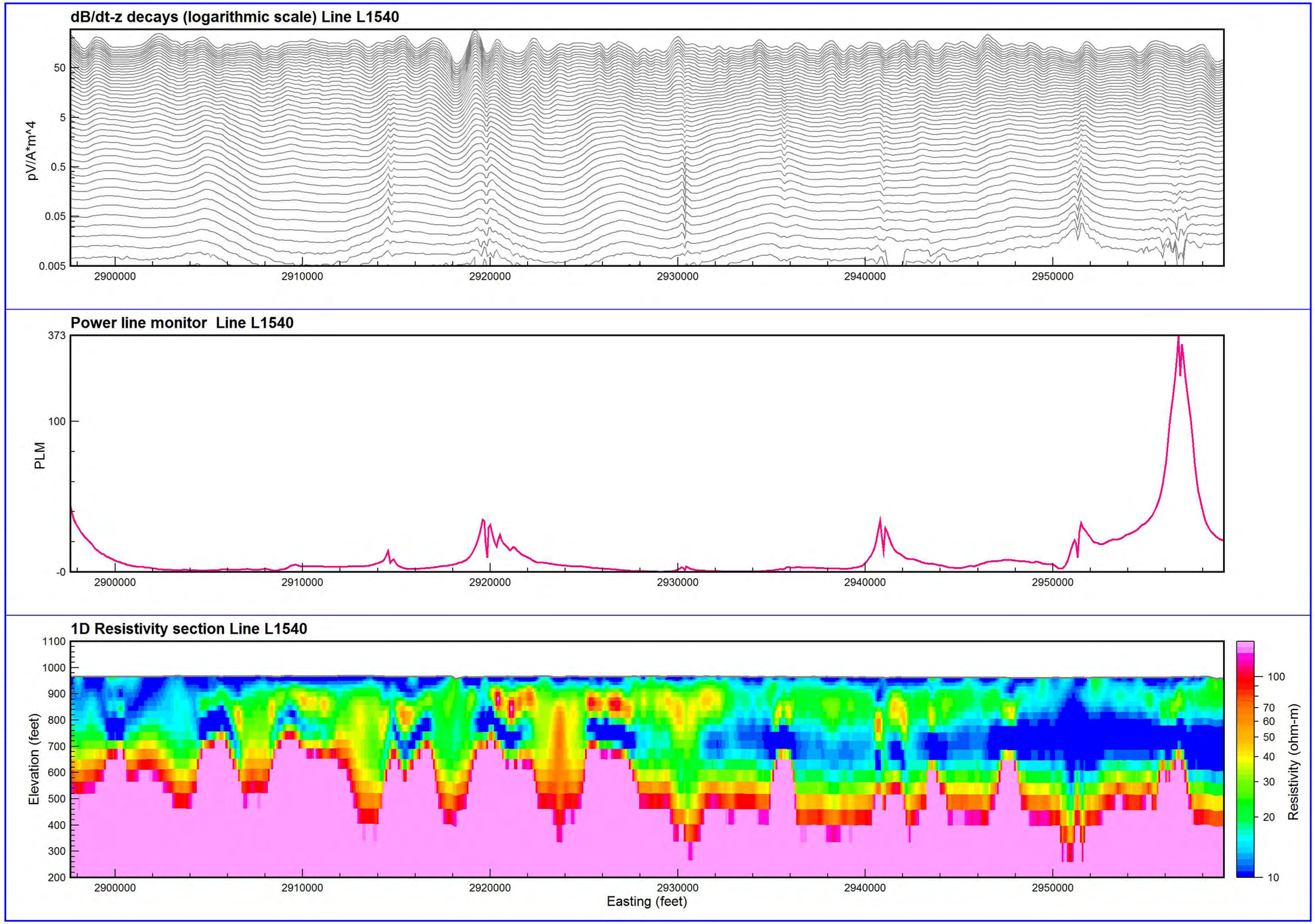

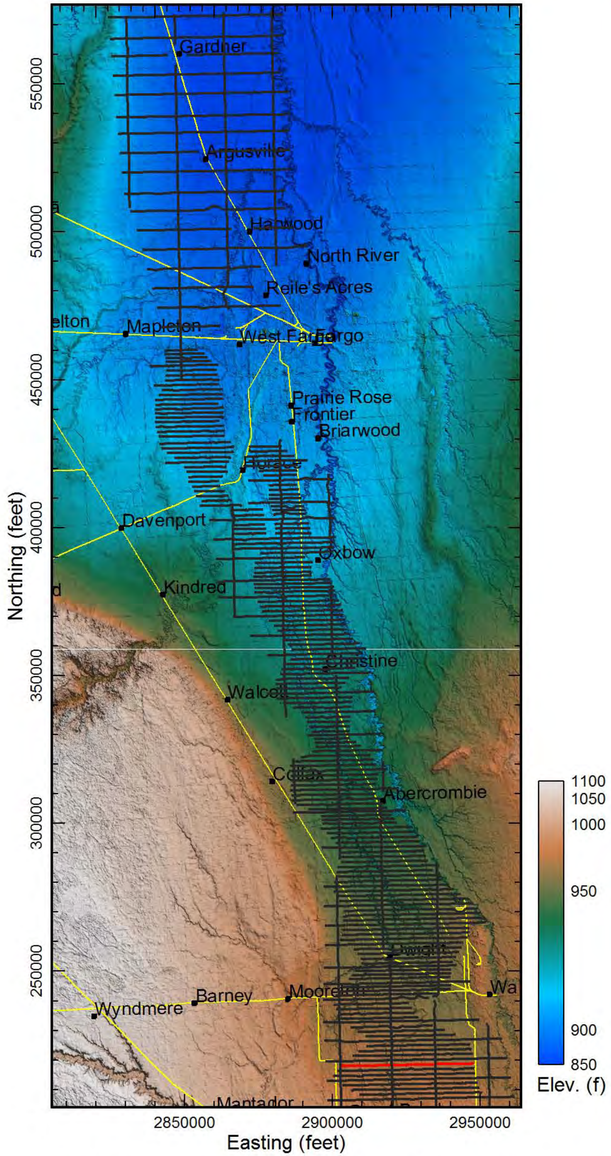

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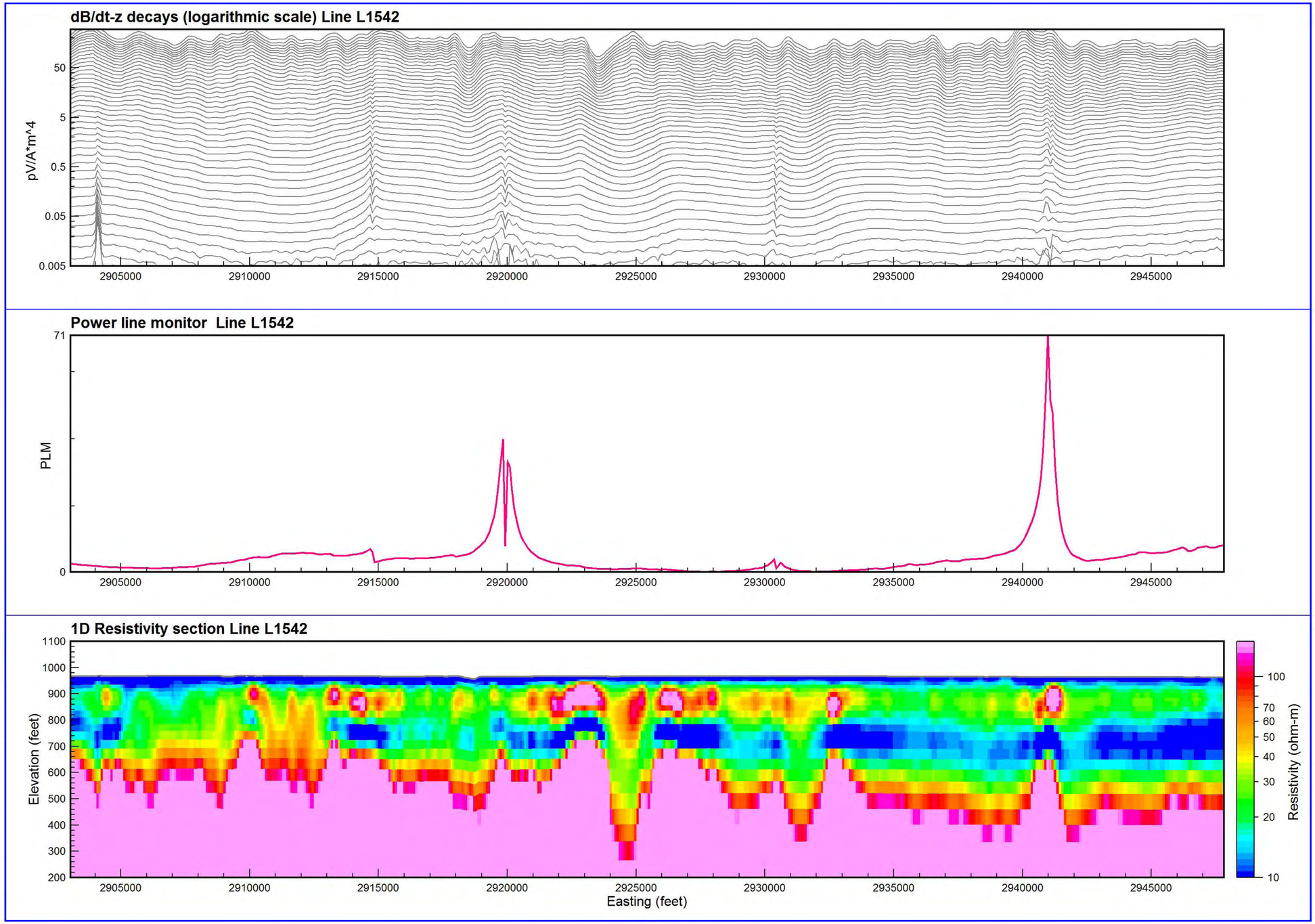

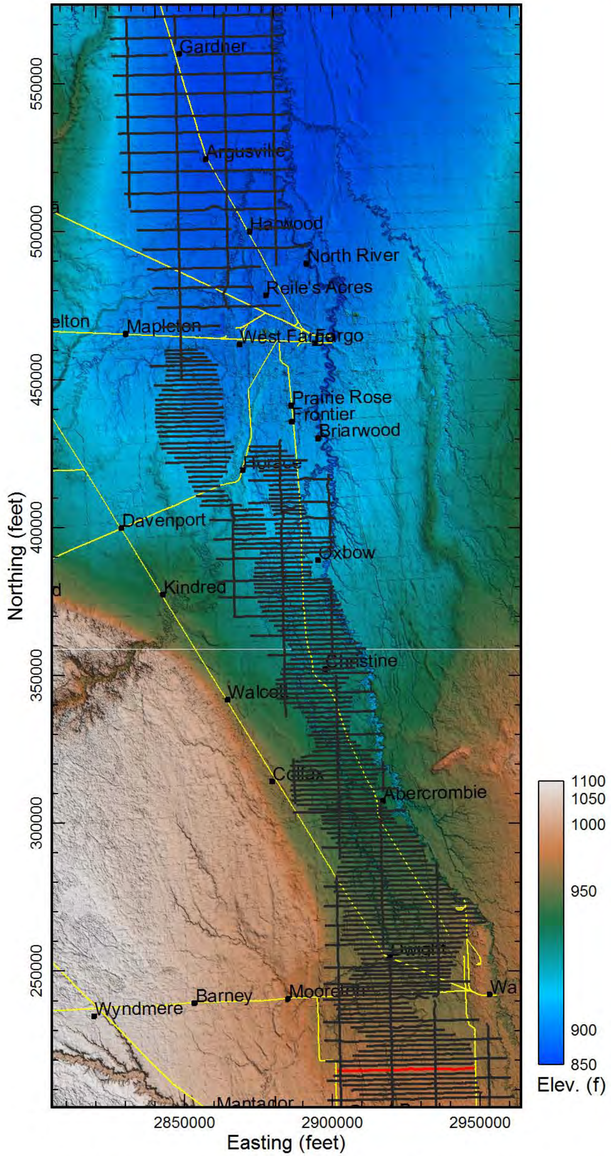

Map projection: NAD83 SPN Dakota South (int. feet)

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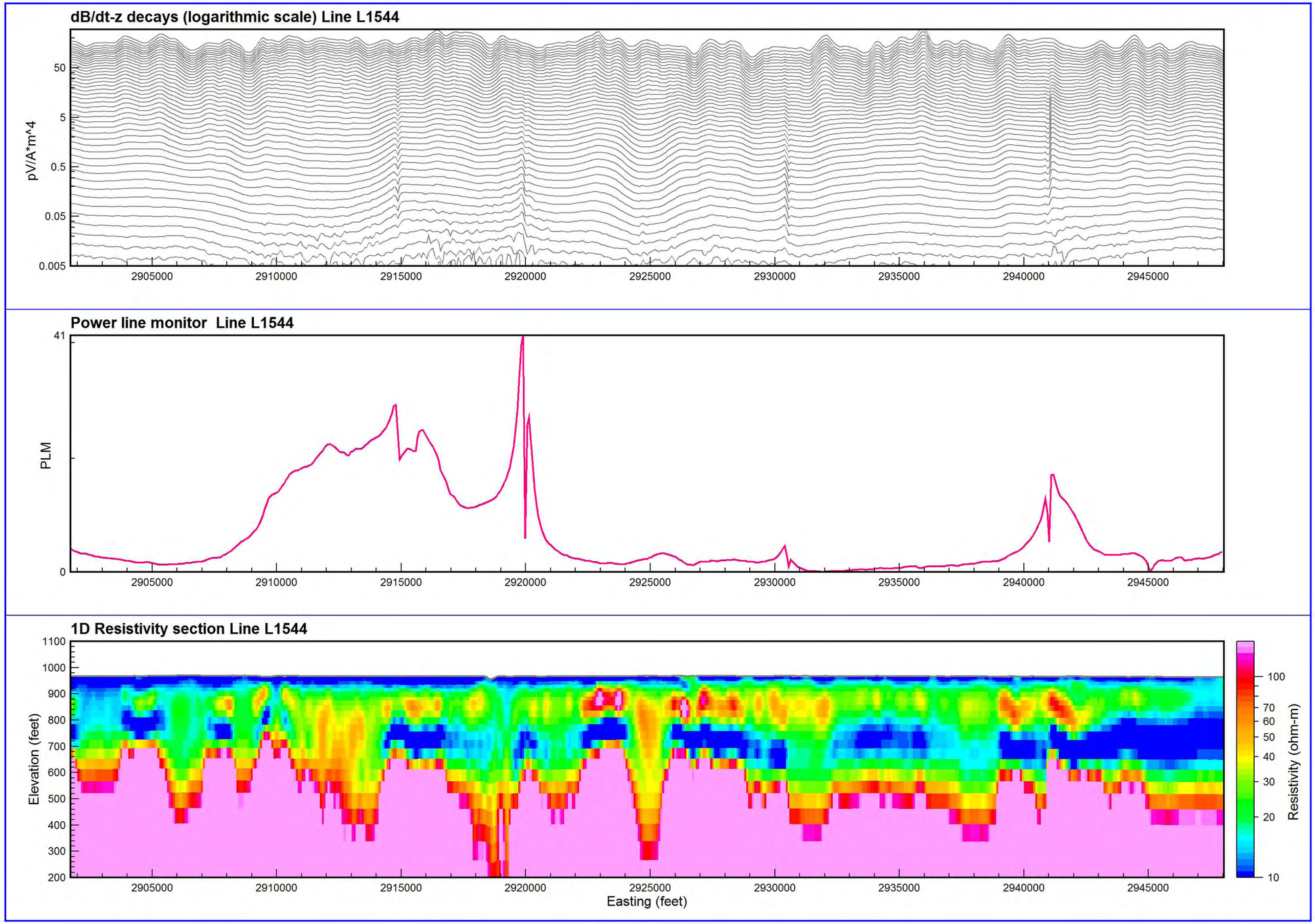

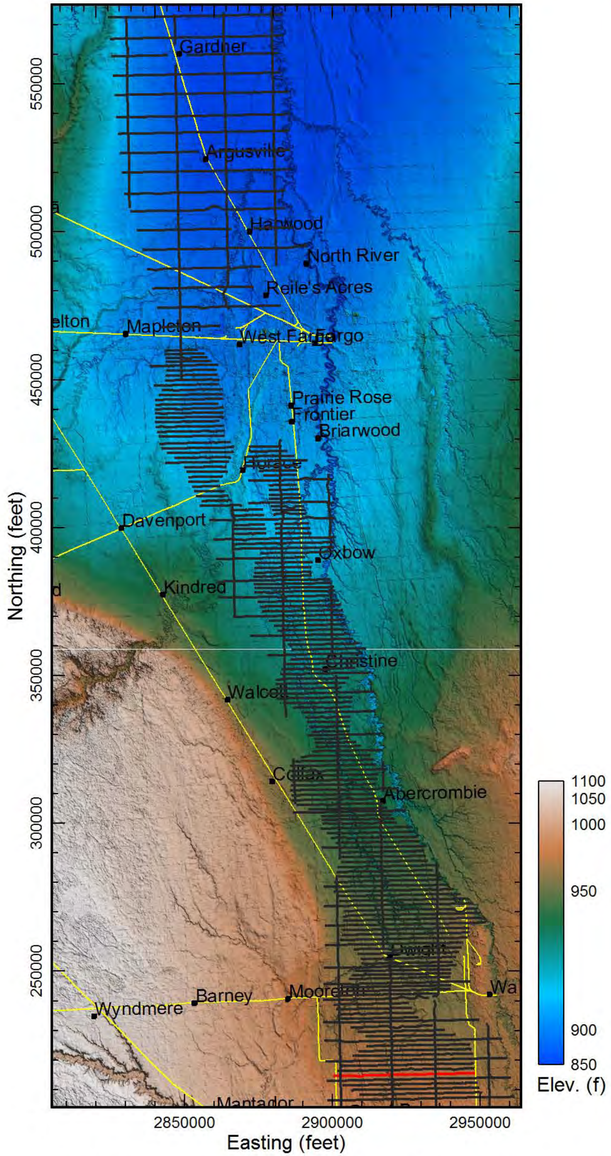

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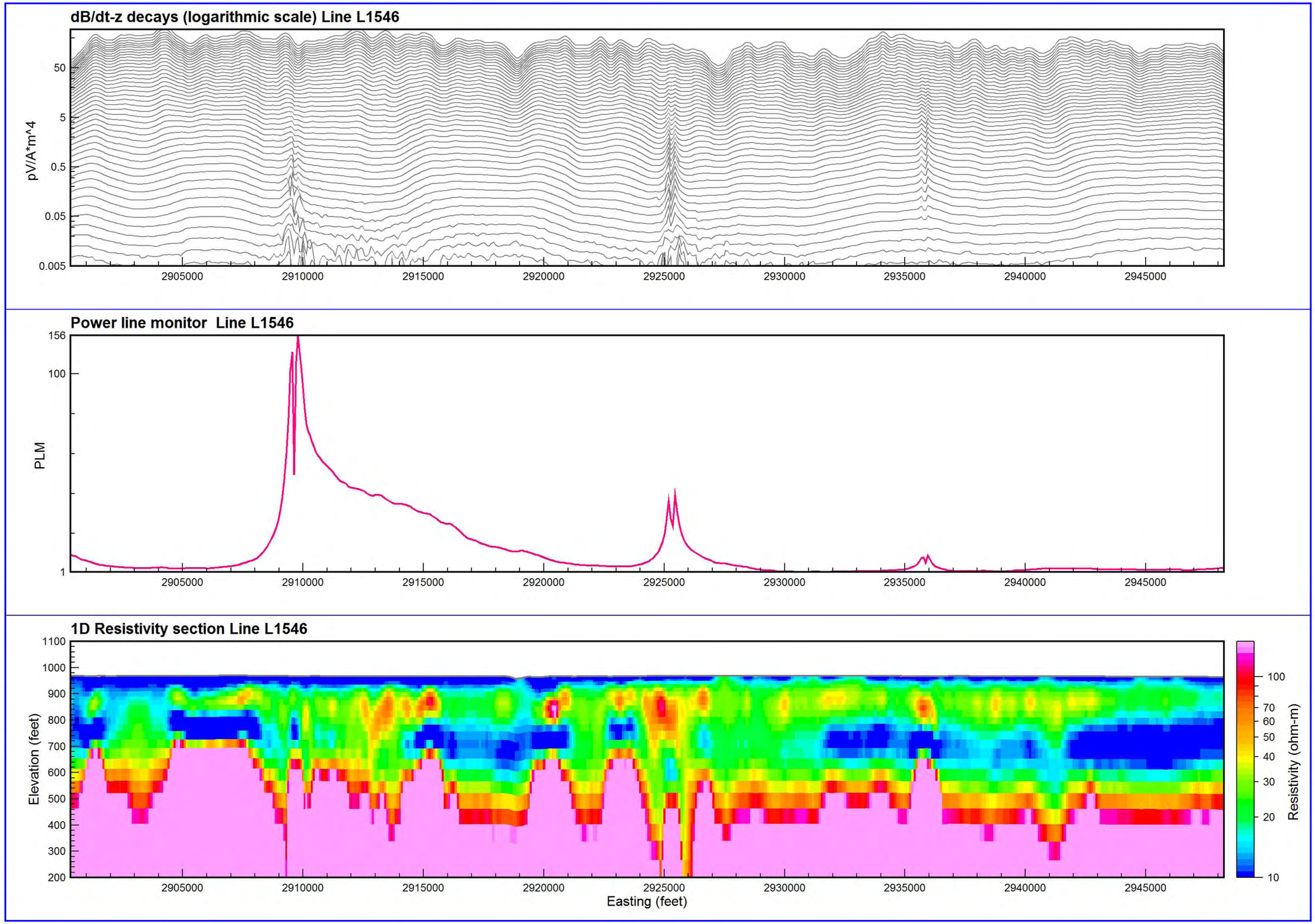

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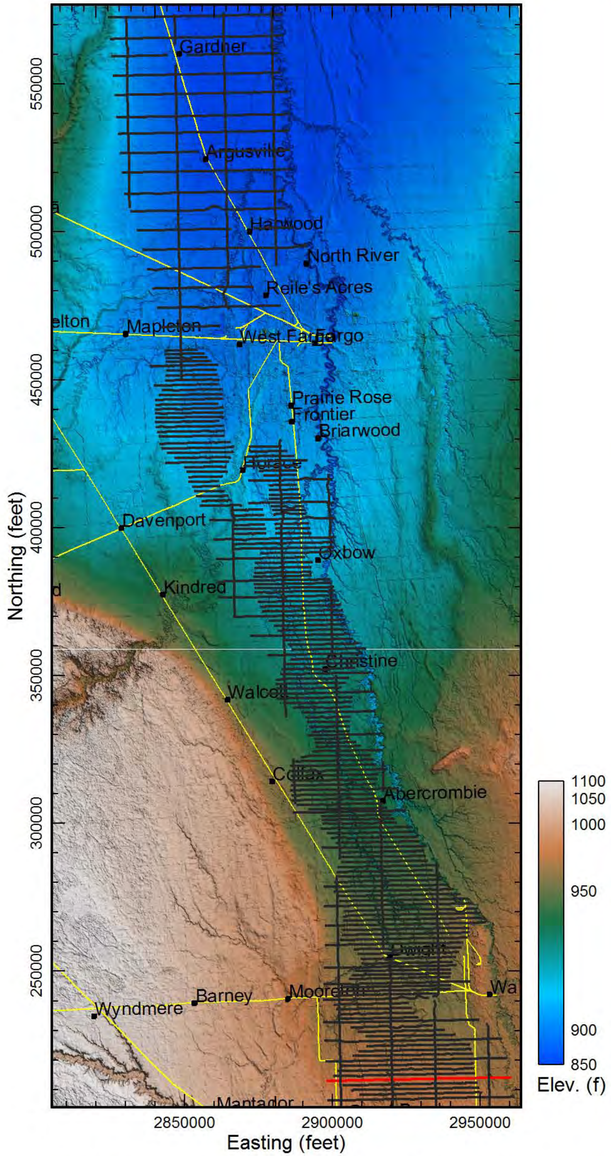

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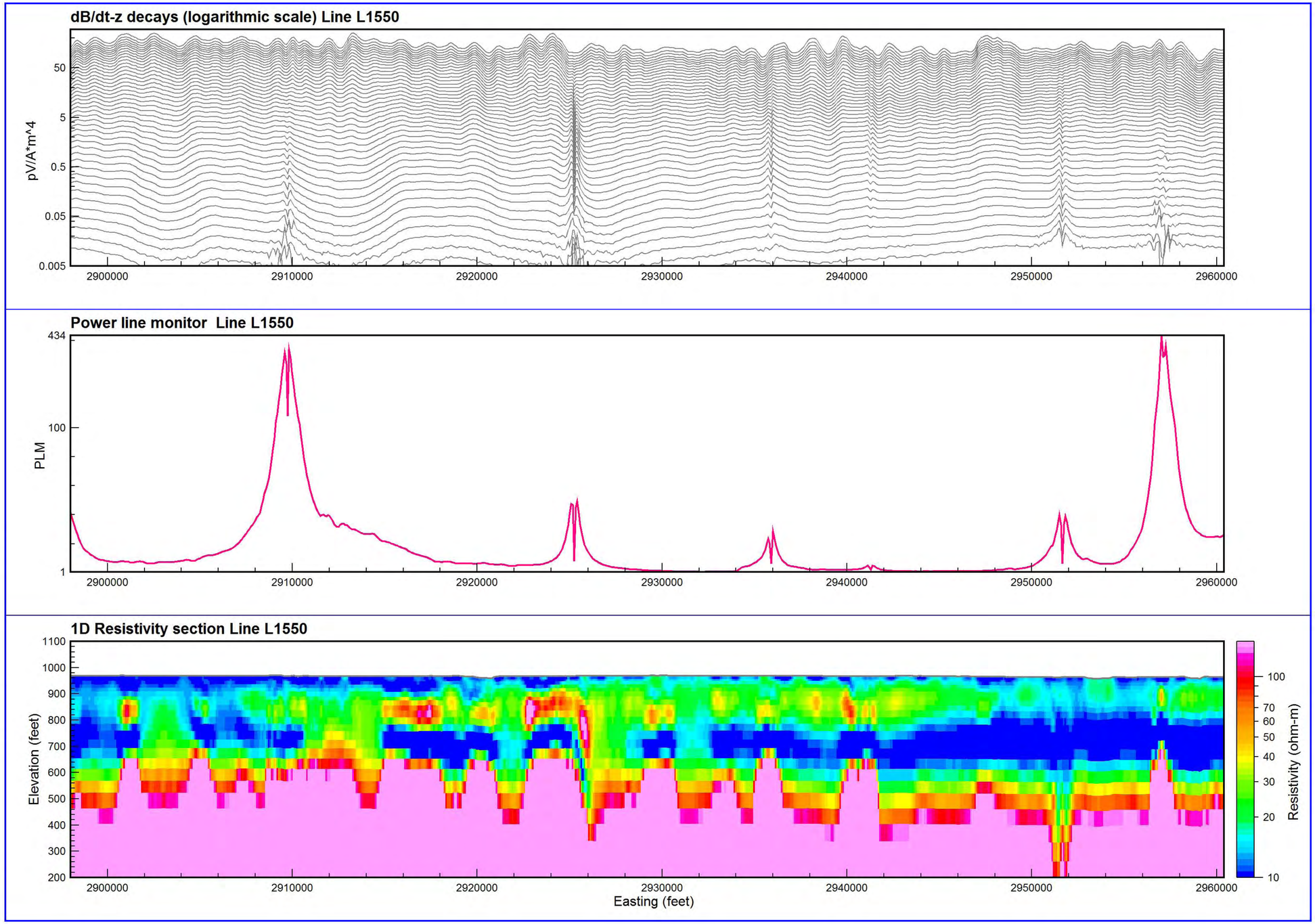

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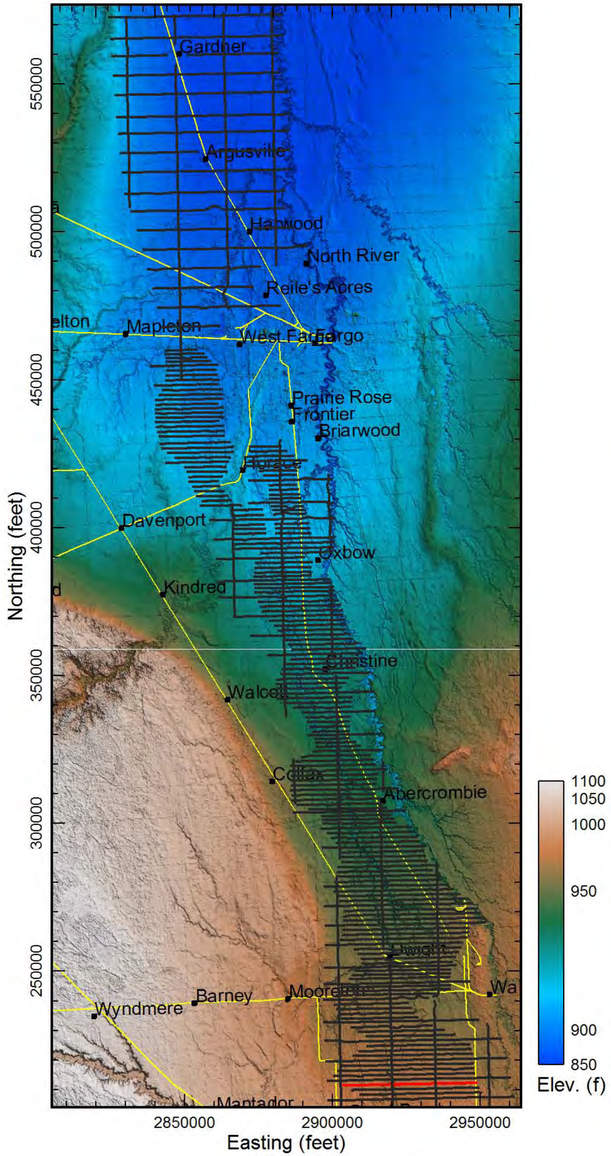

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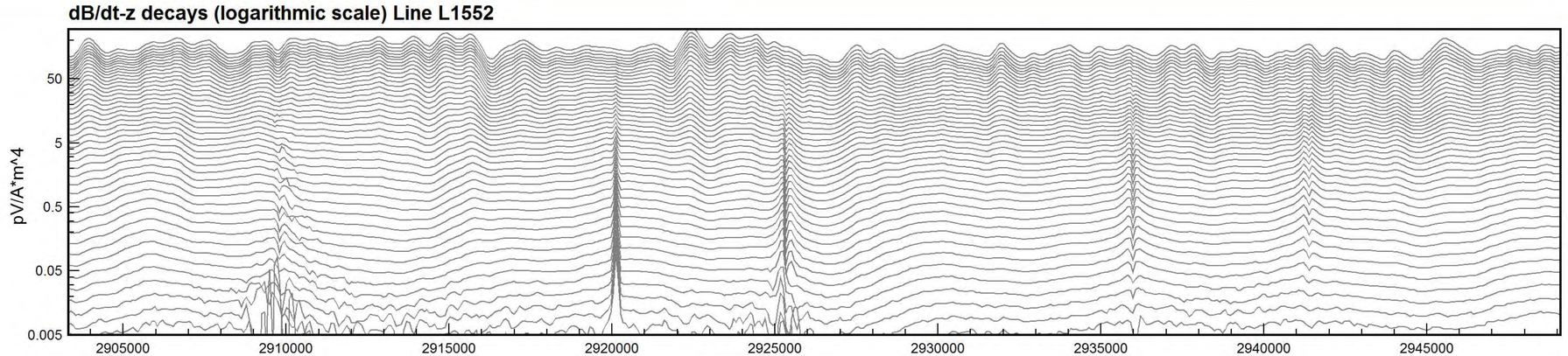

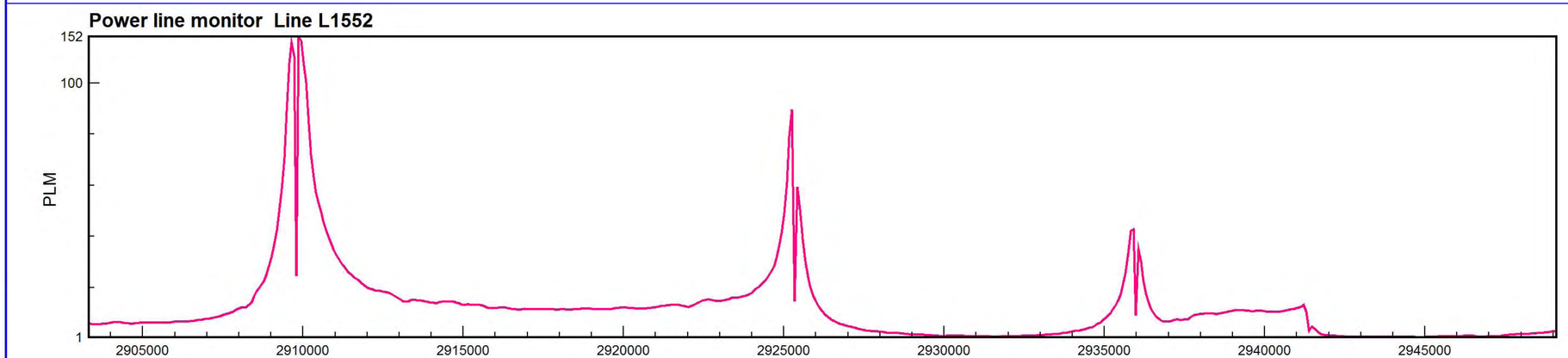

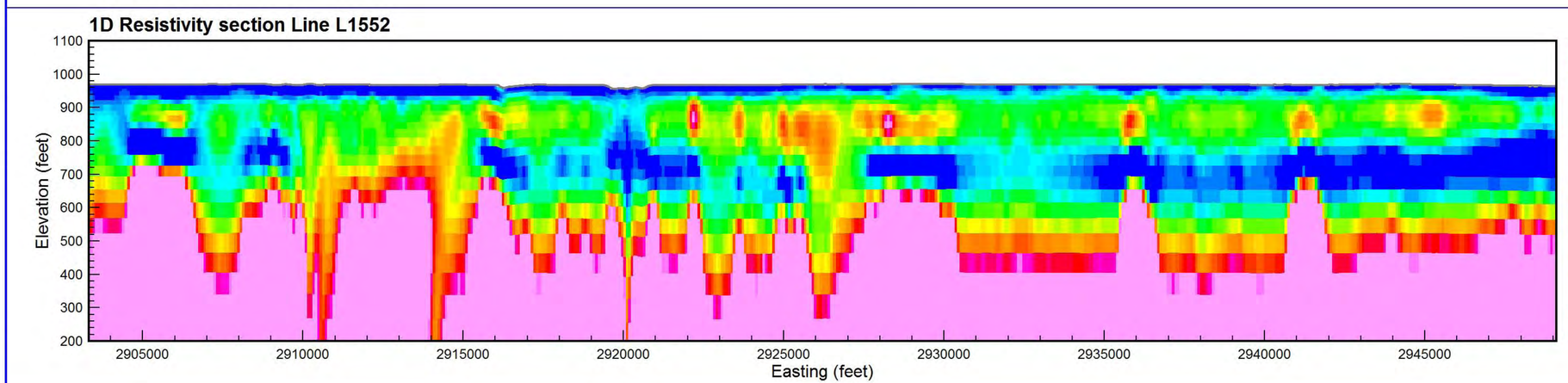

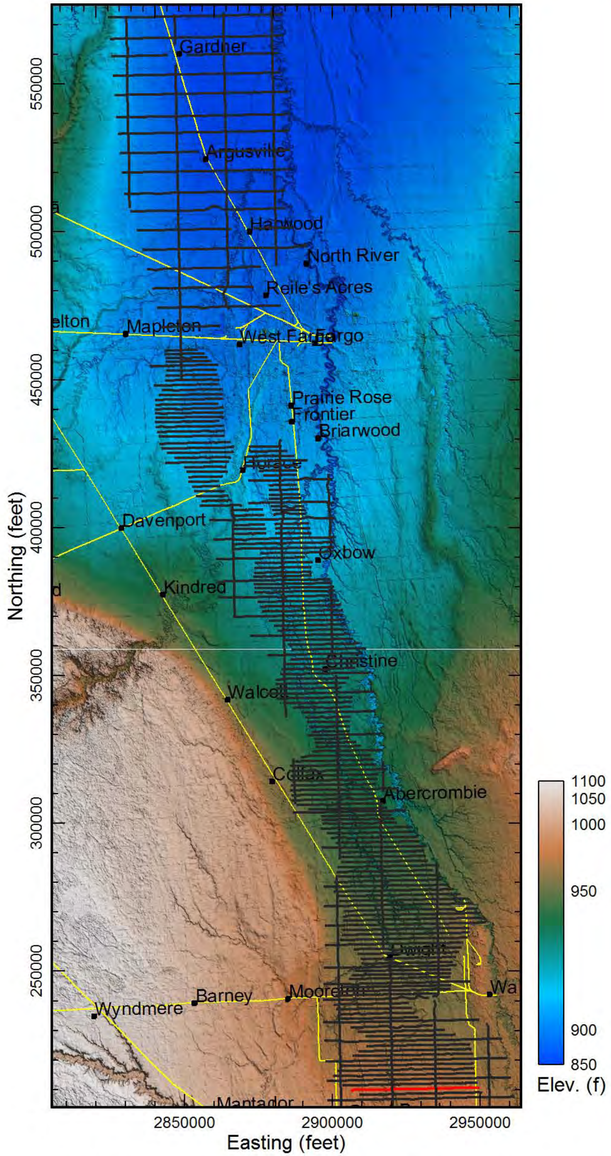

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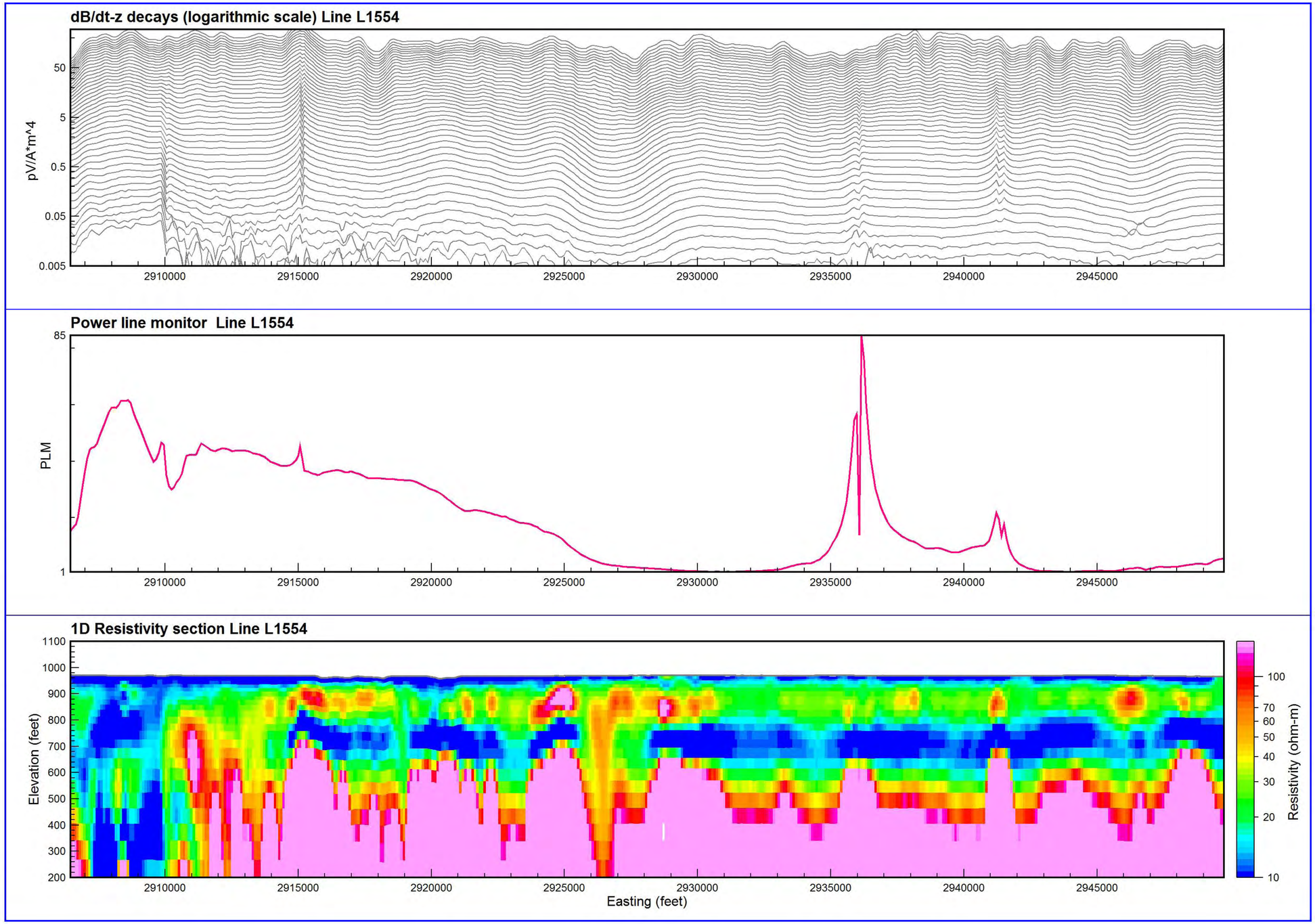

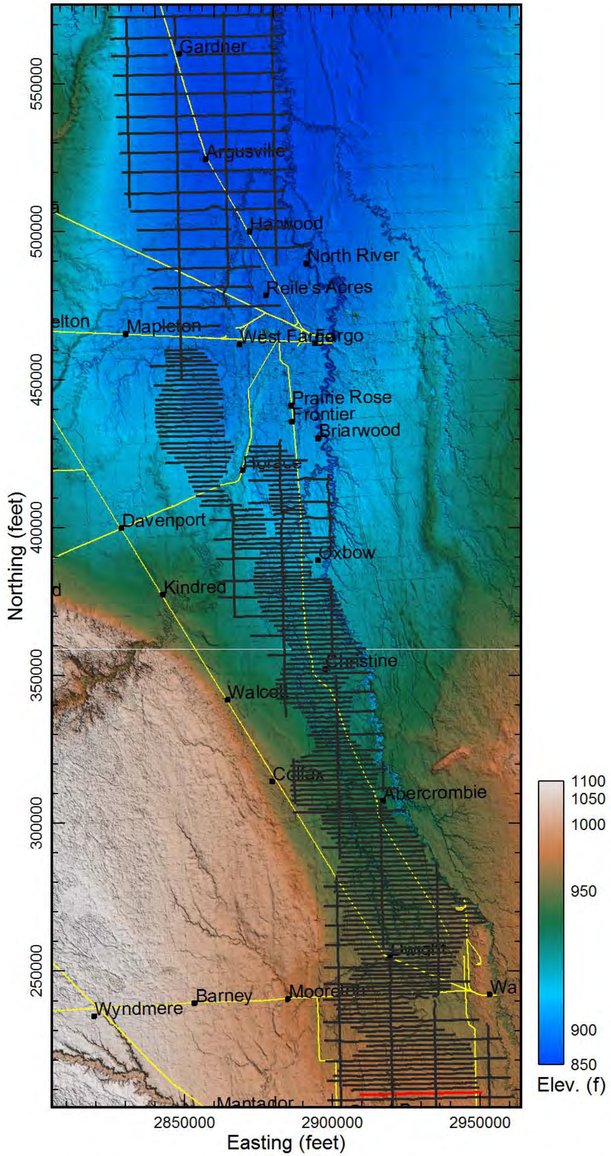

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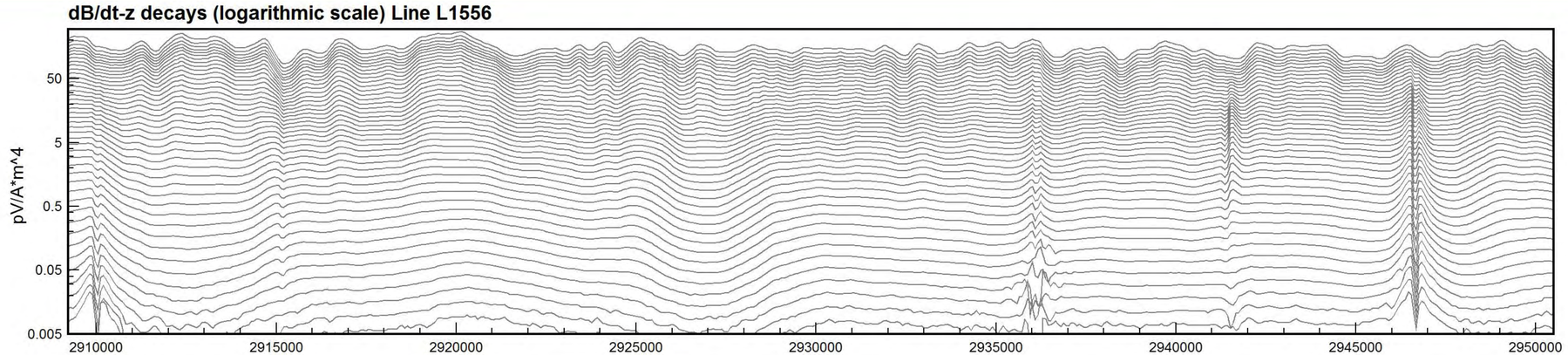

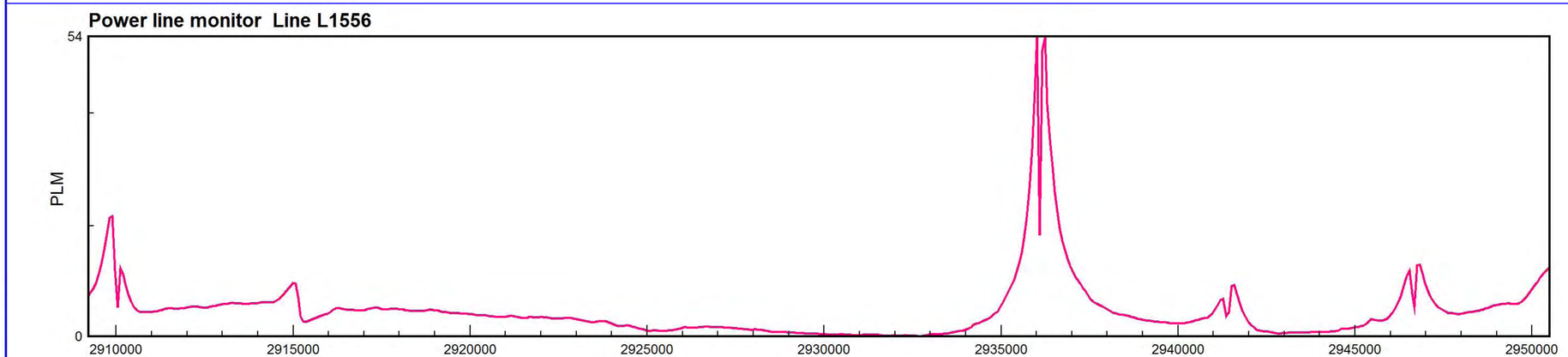

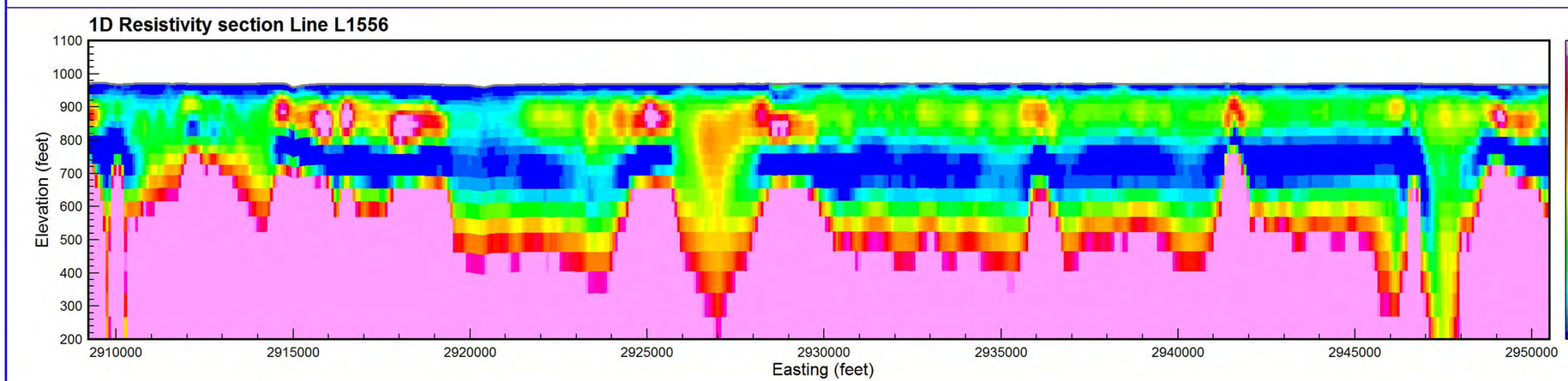

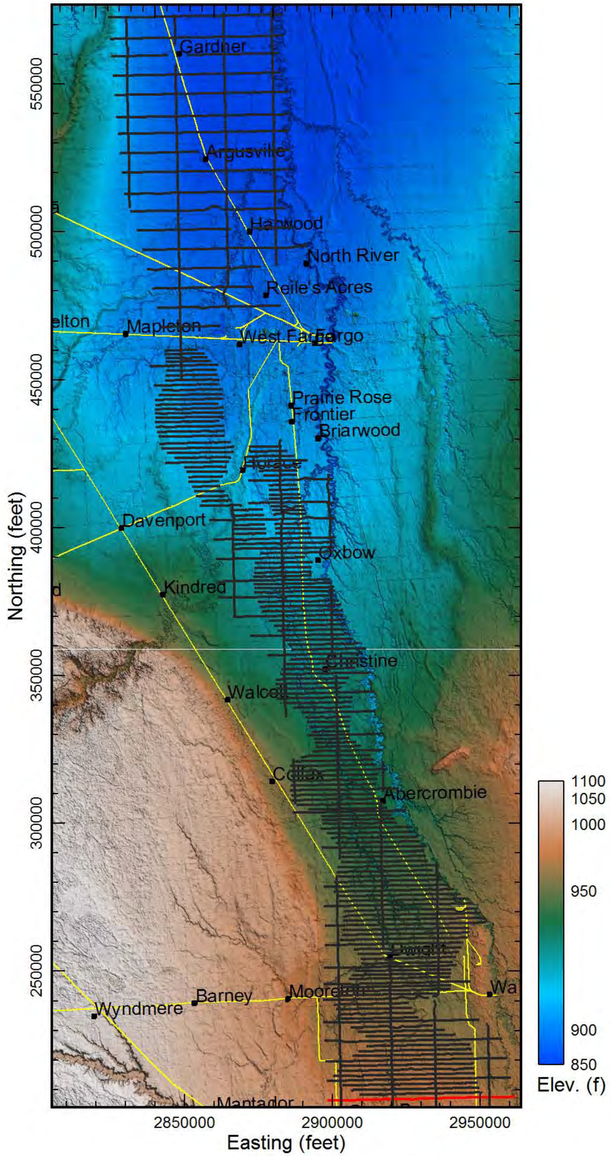

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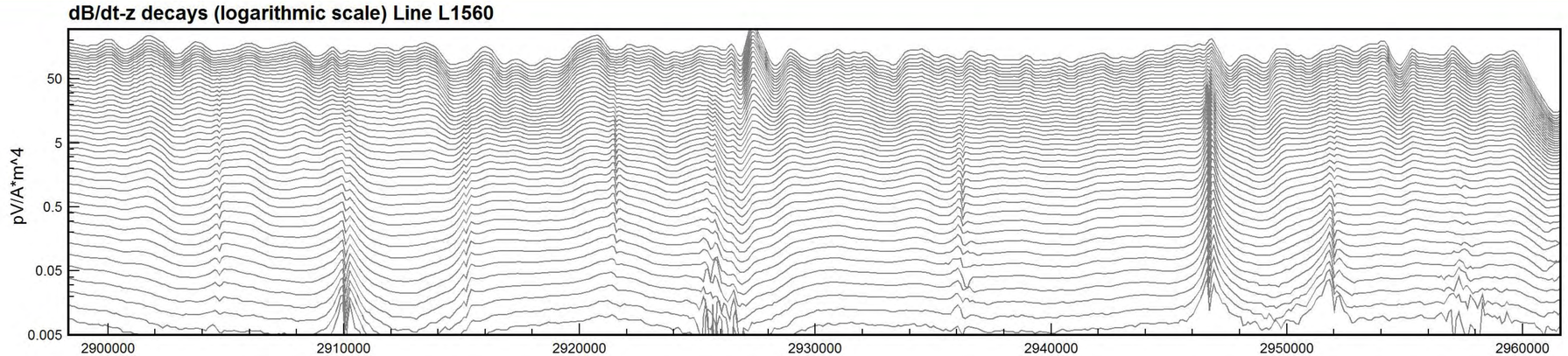

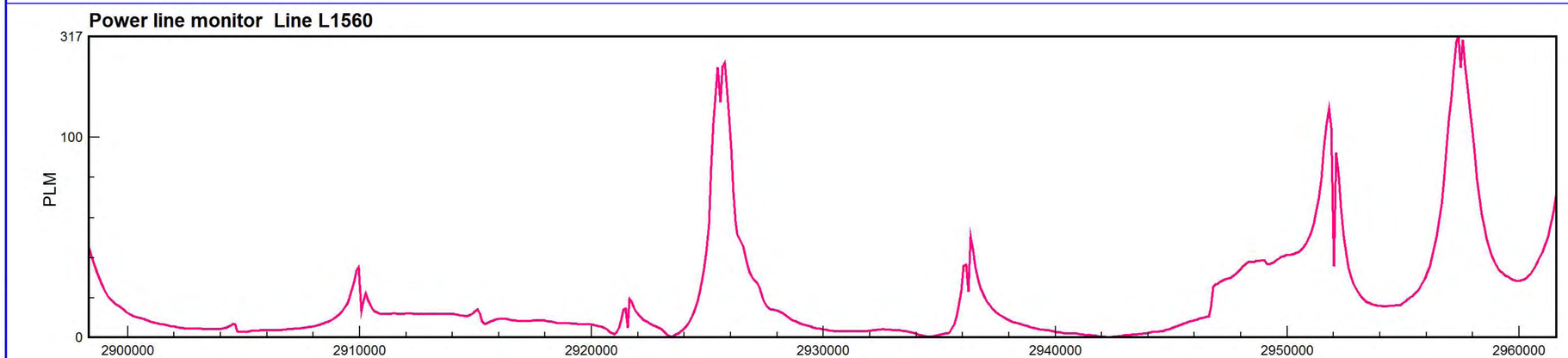

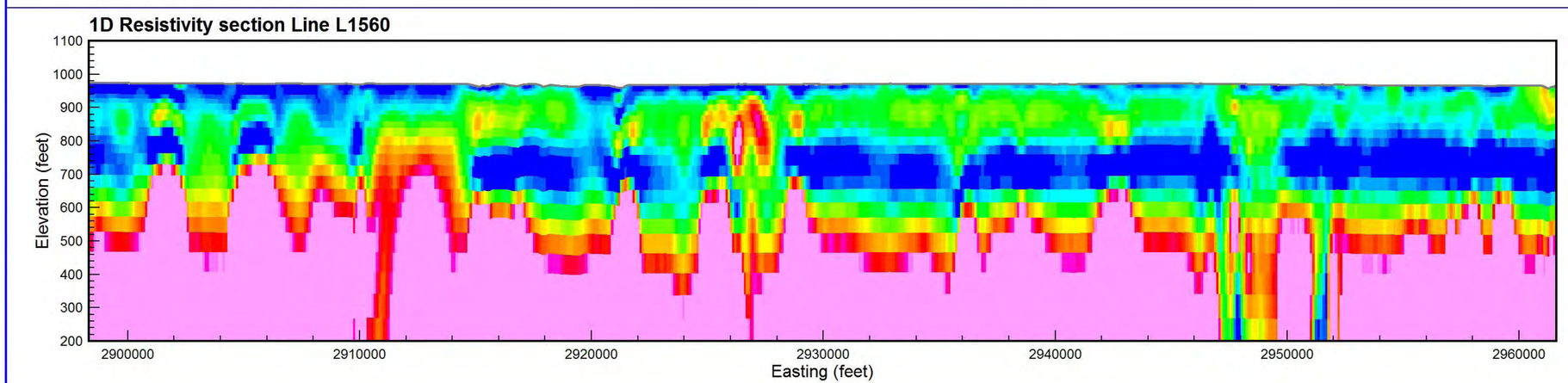

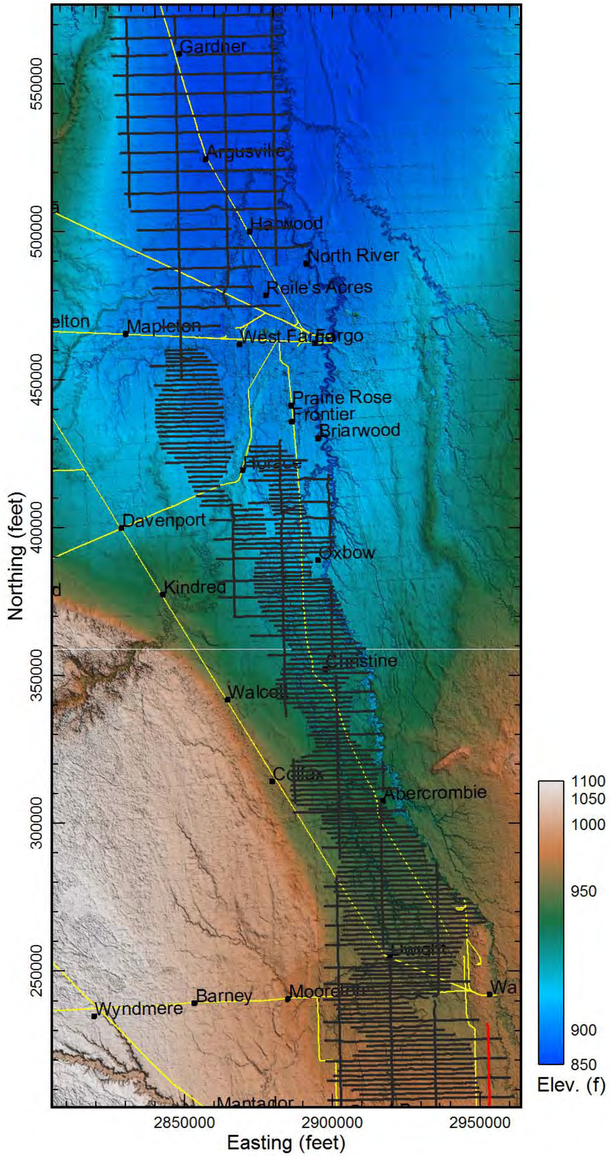

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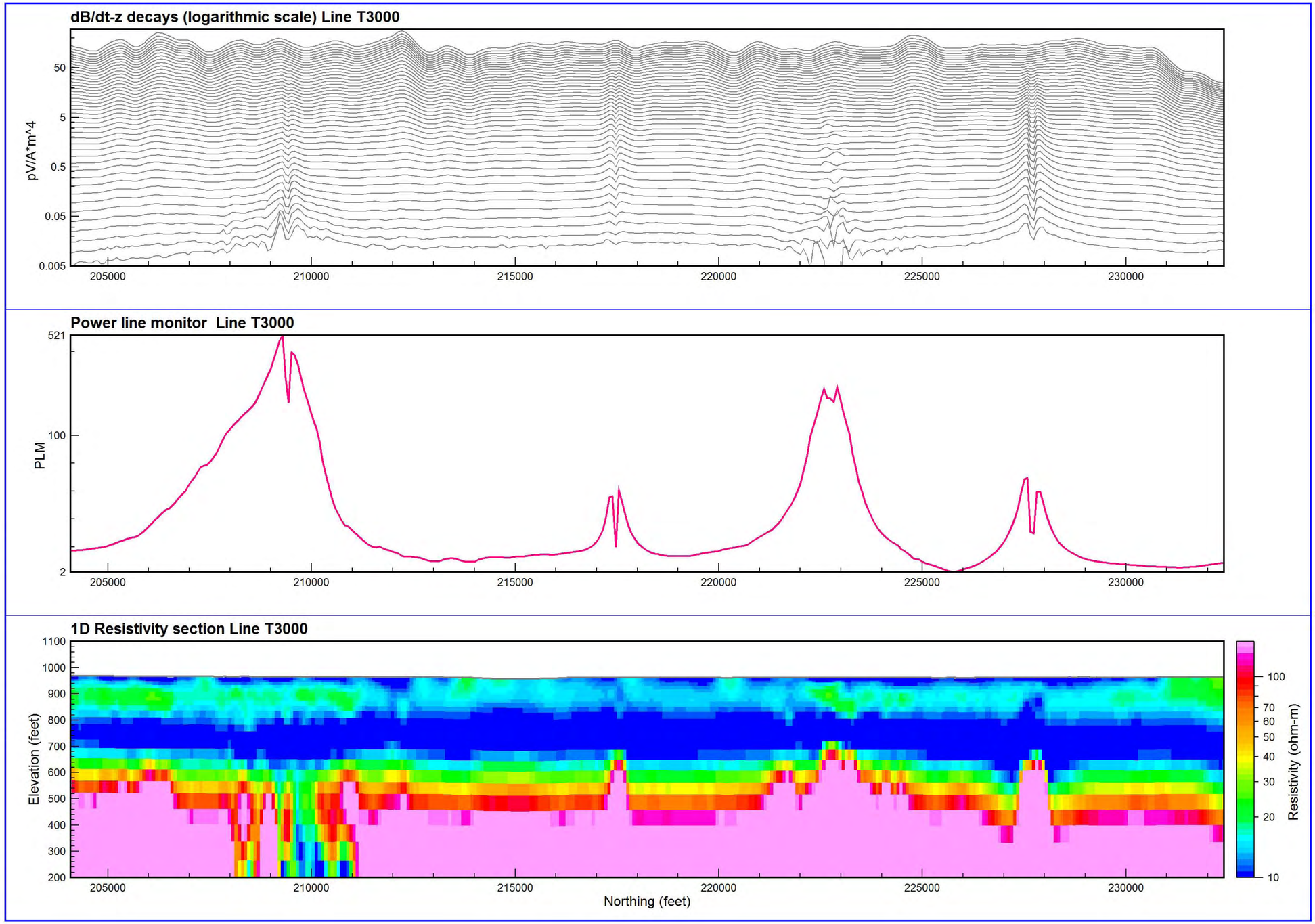

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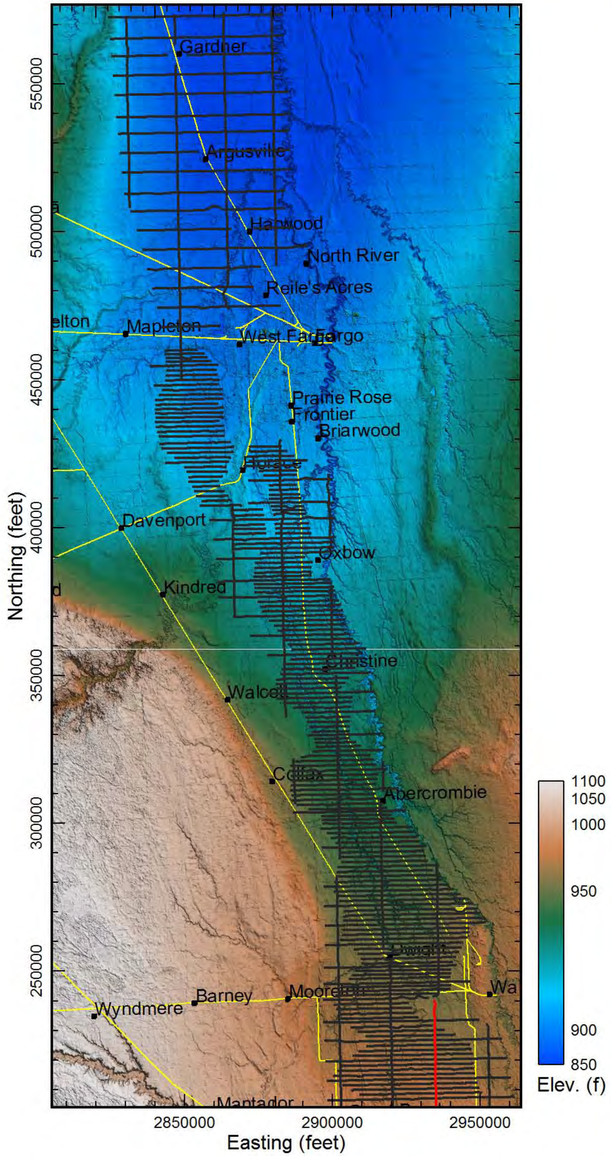

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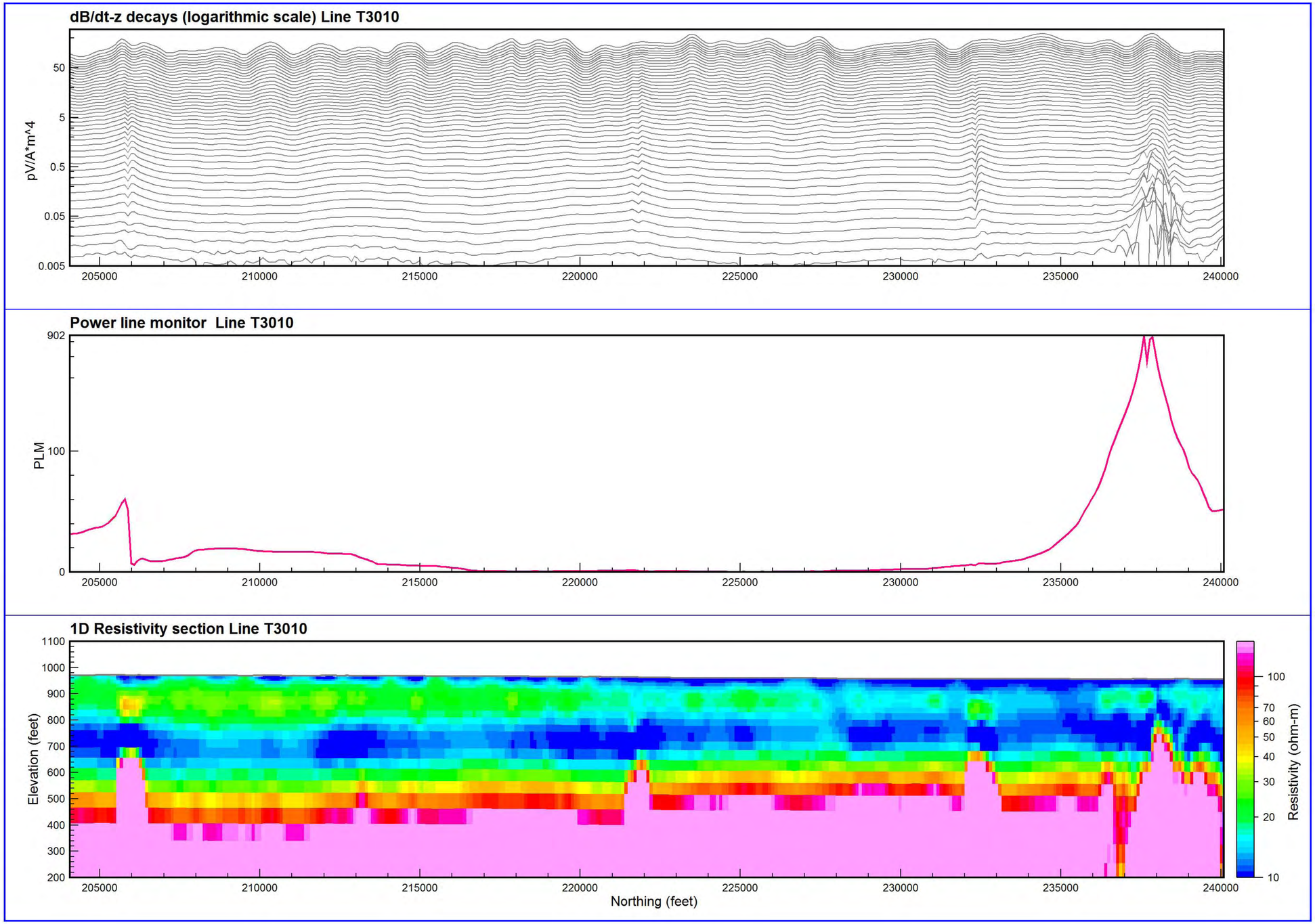

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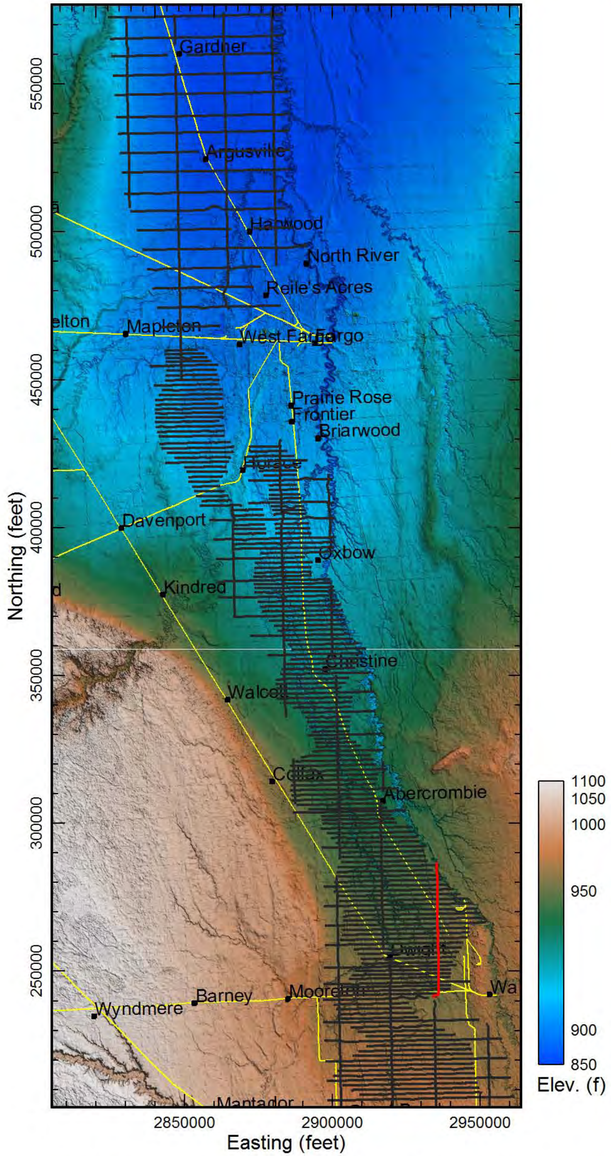

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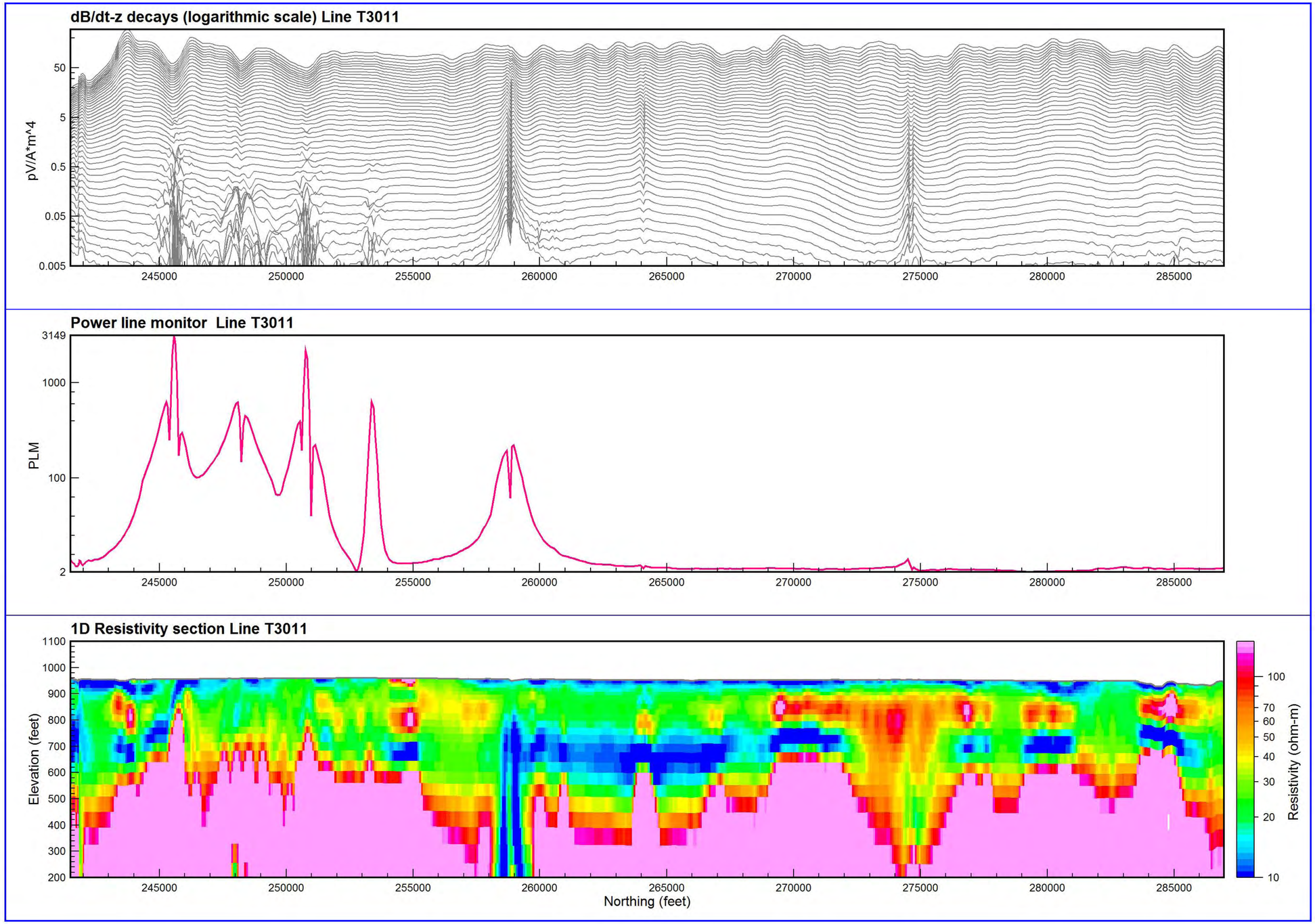

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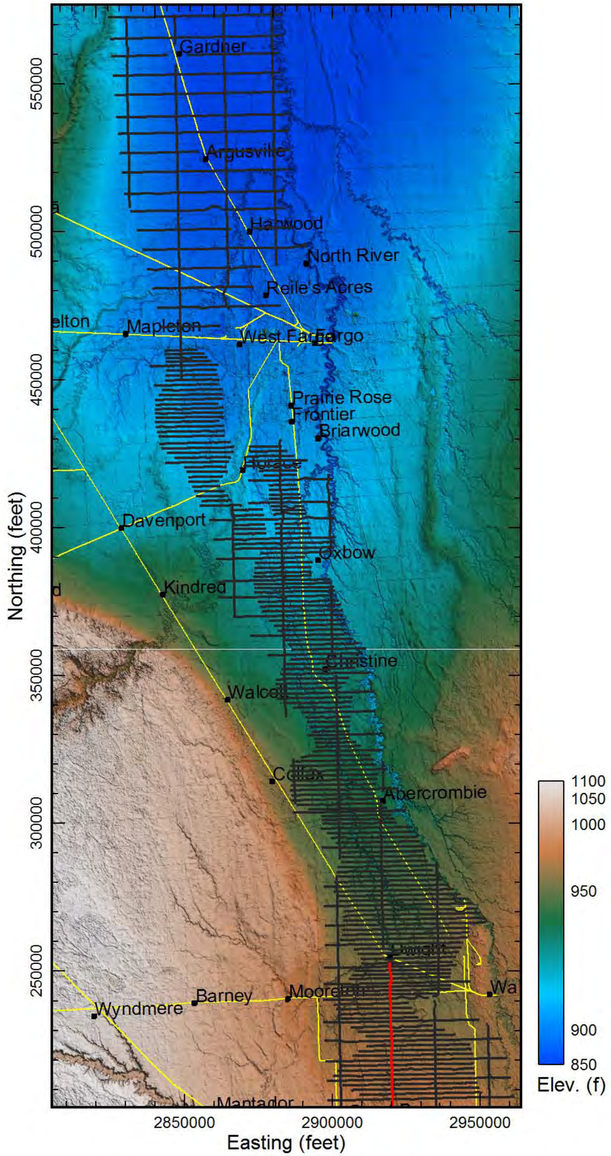

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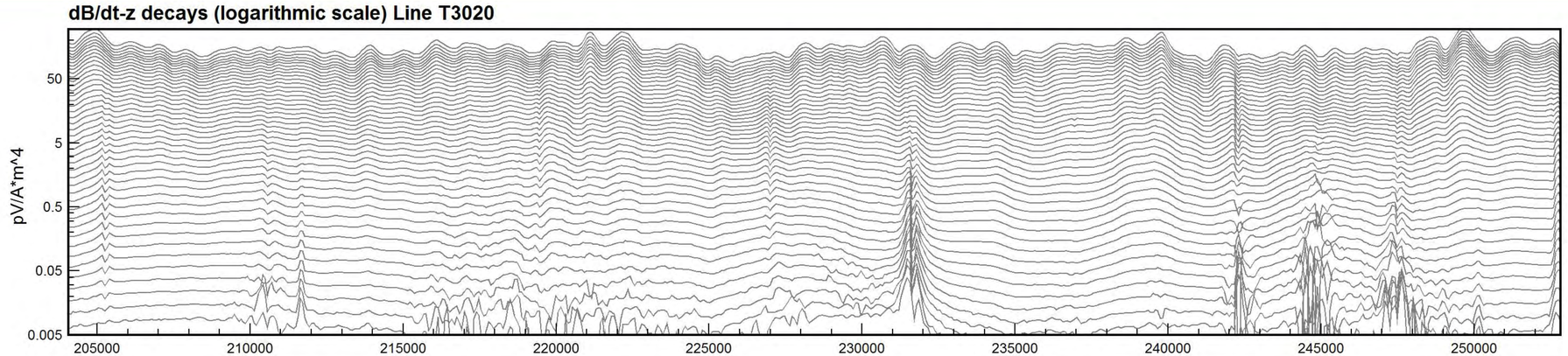

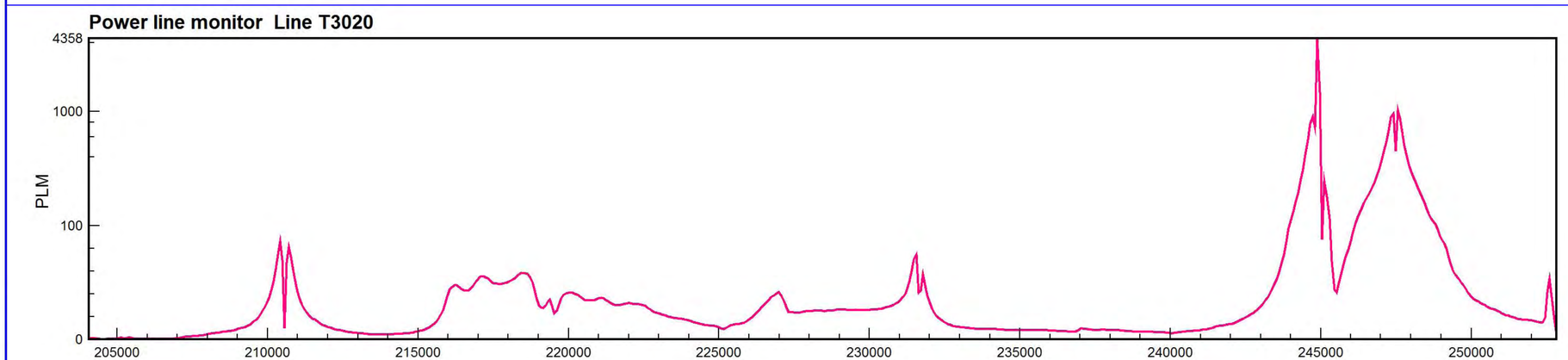

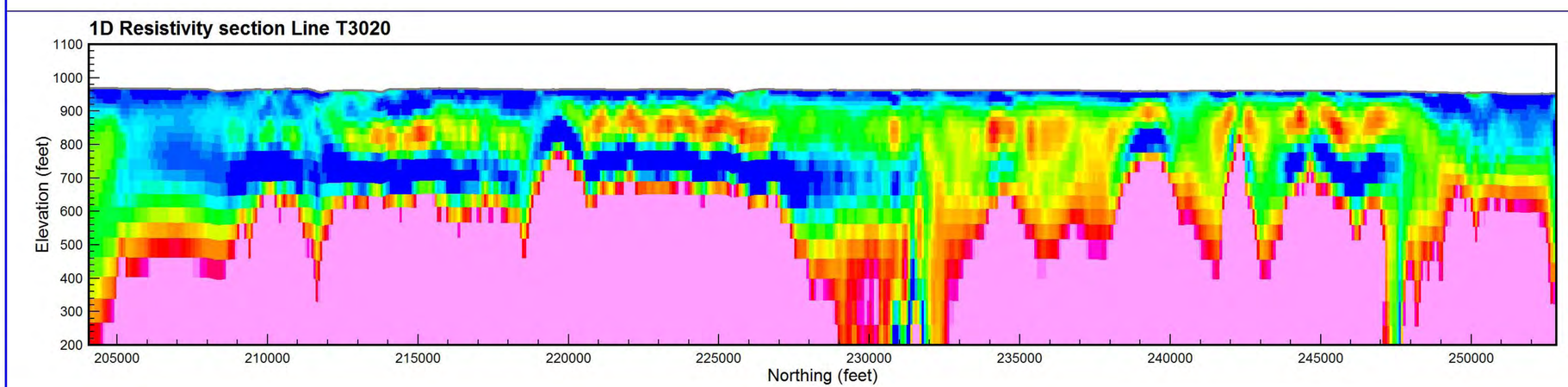

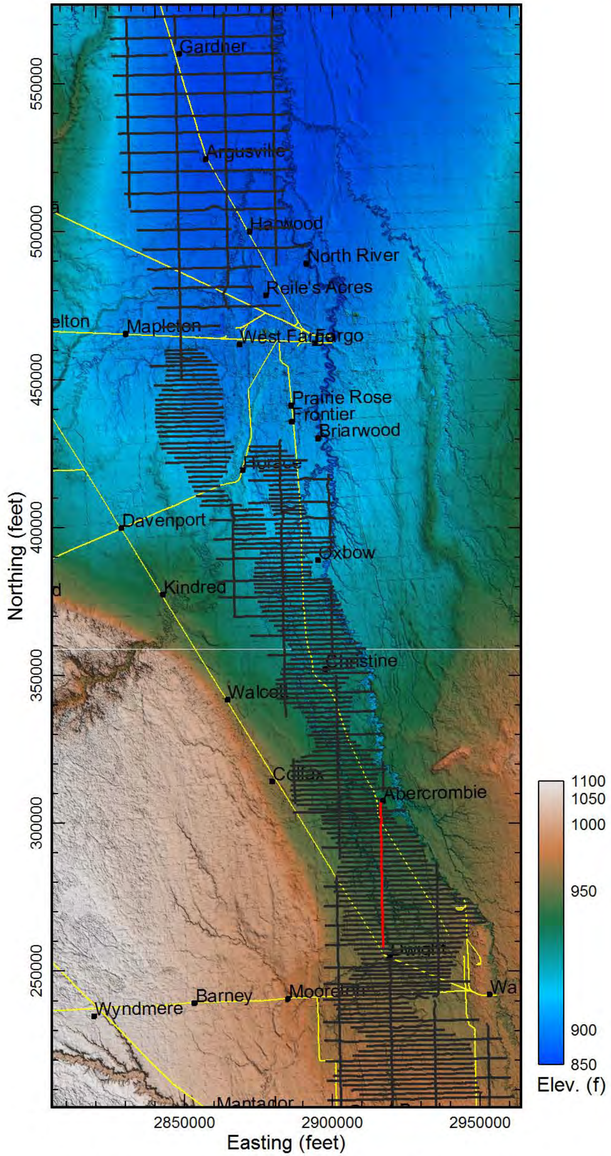

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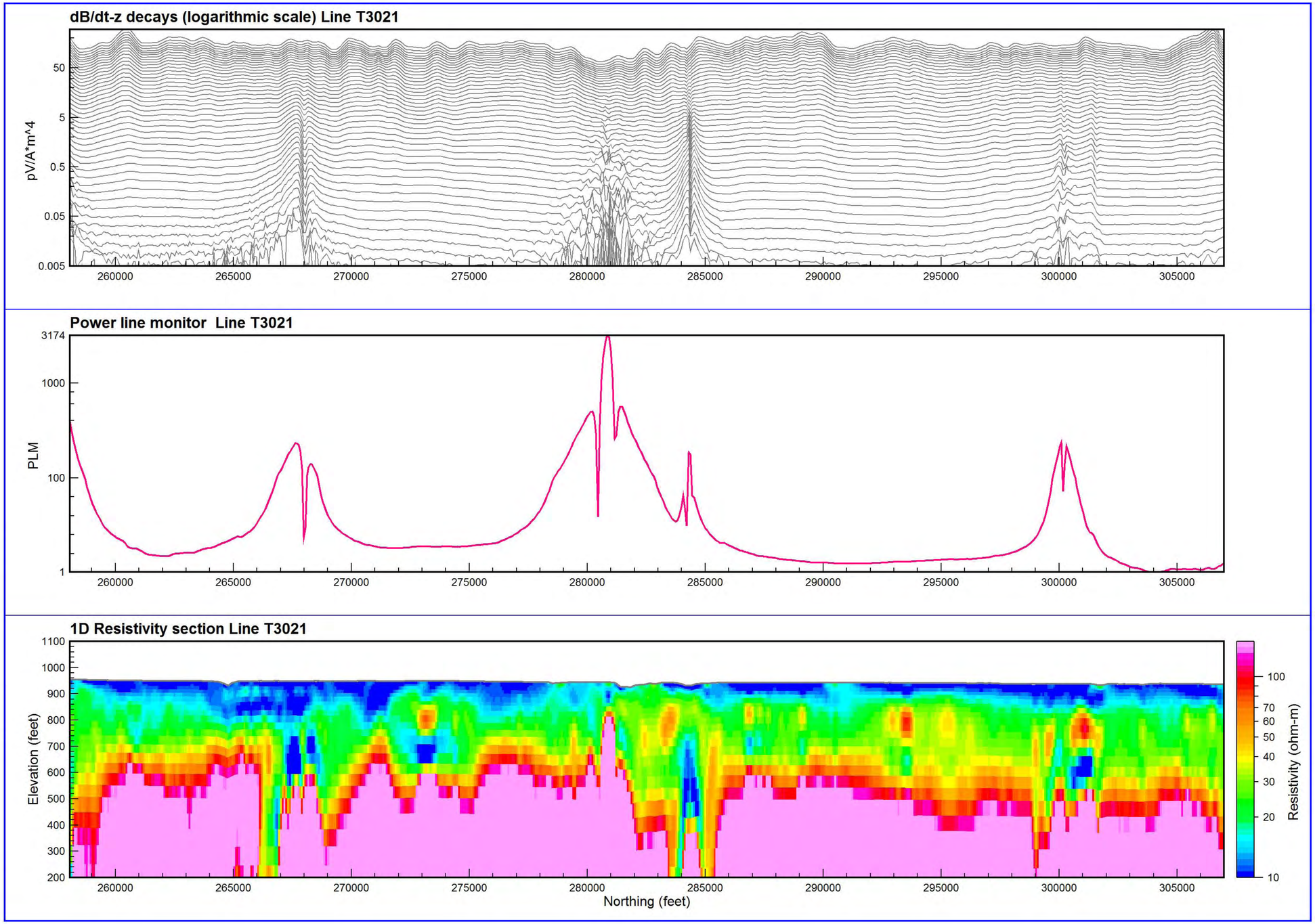

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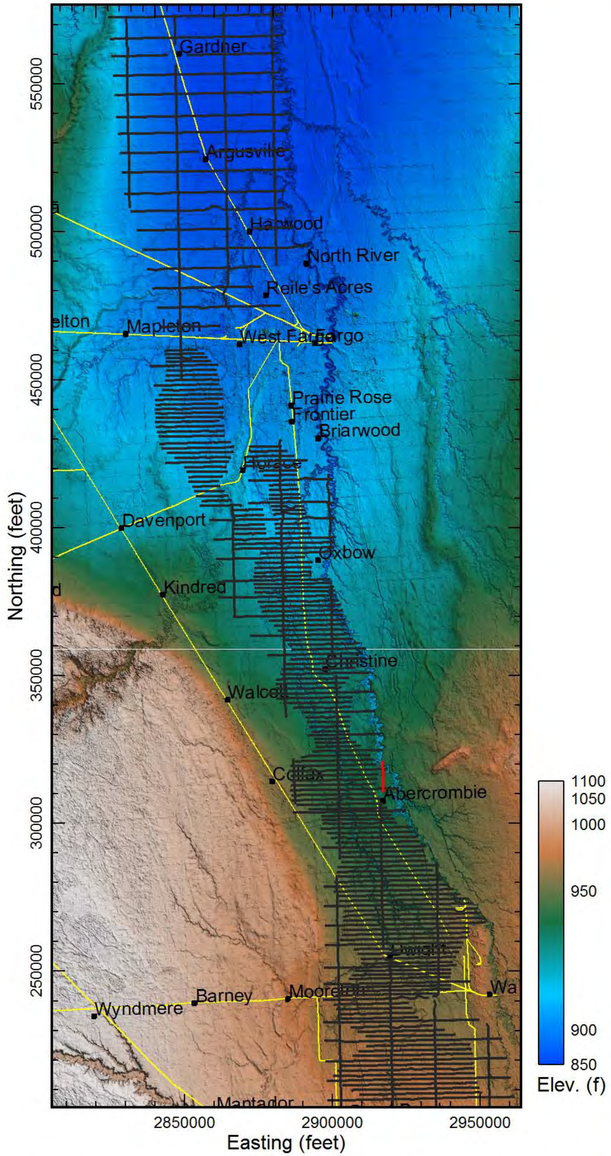

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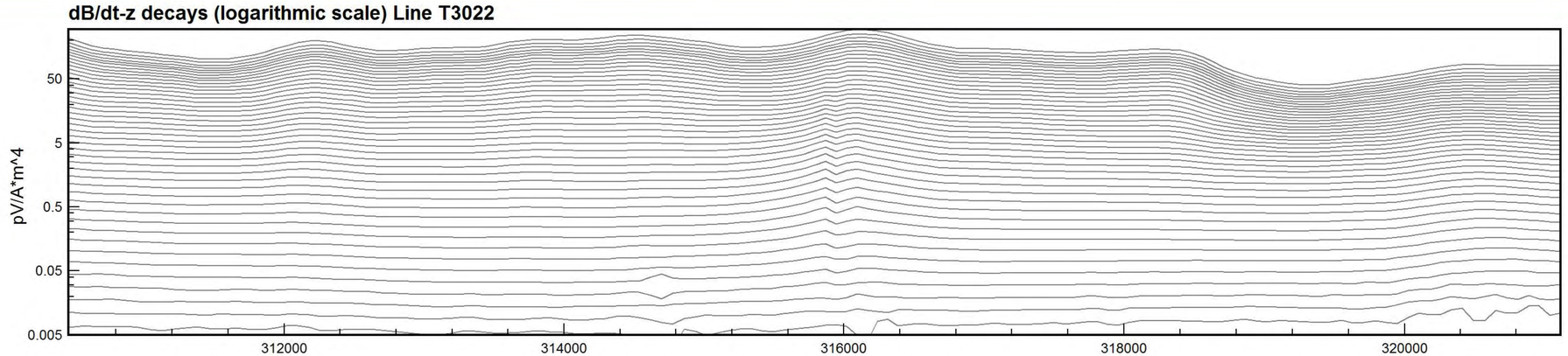

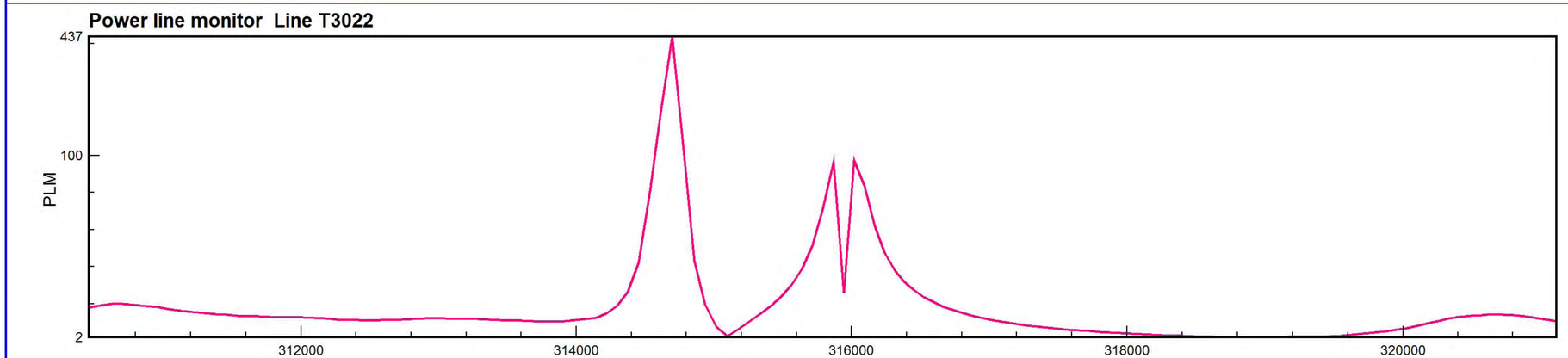

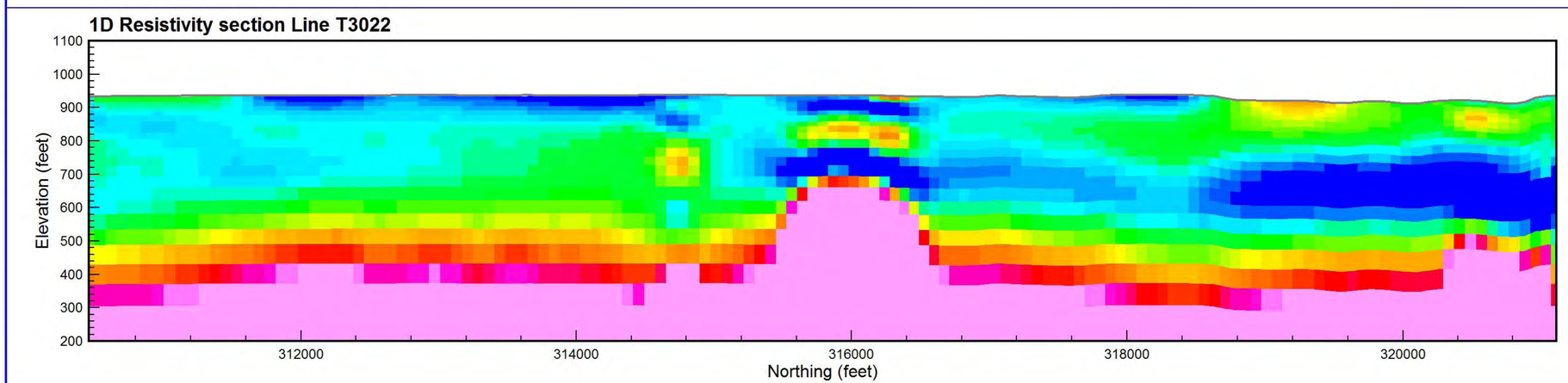

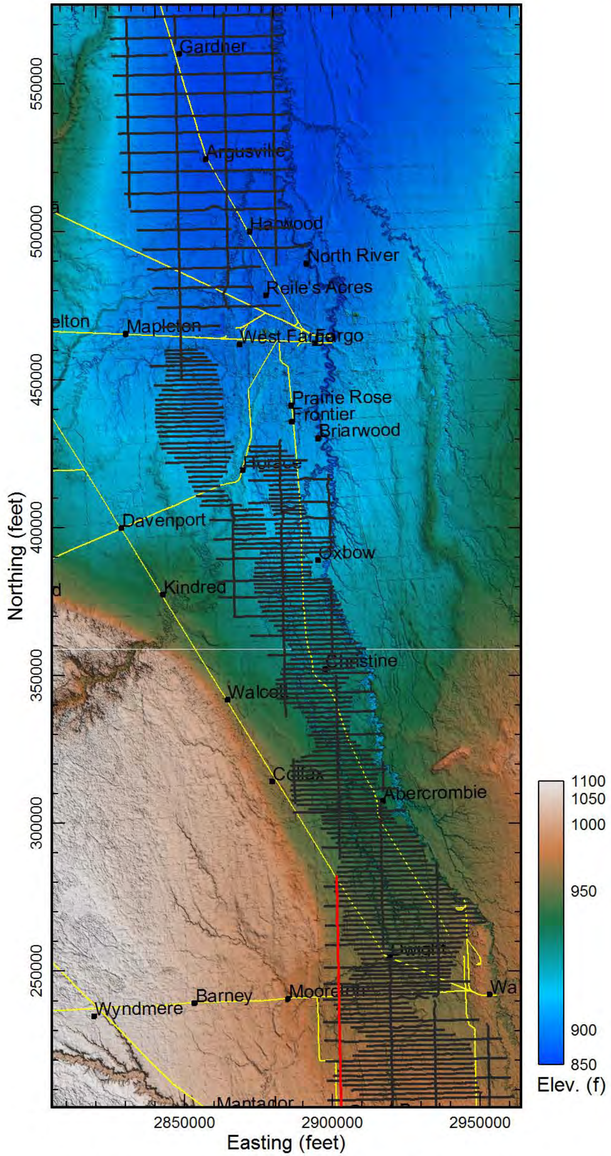

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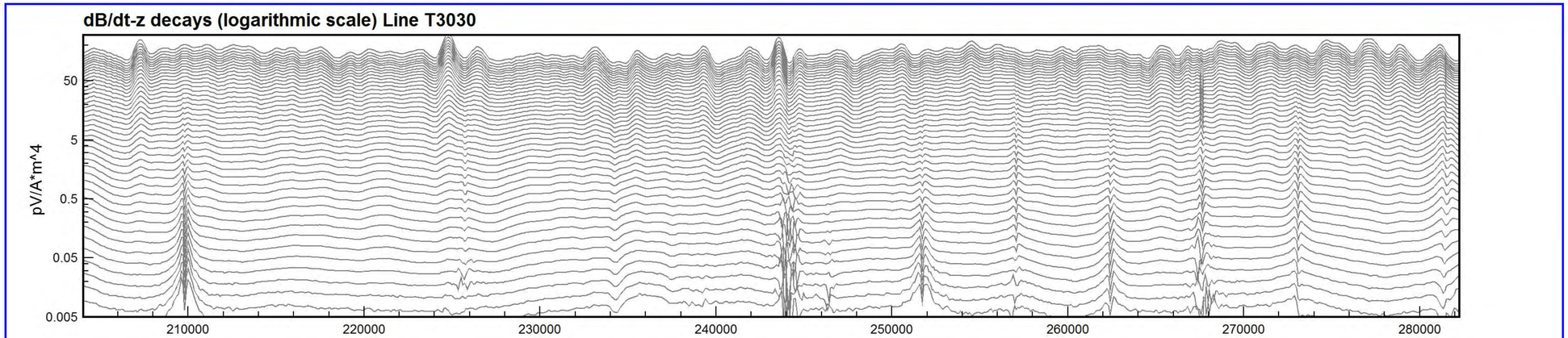

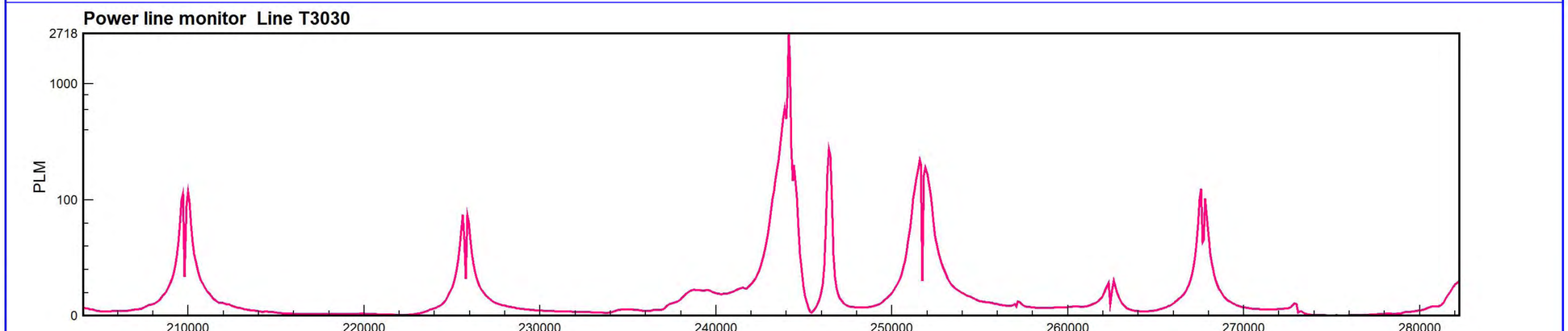

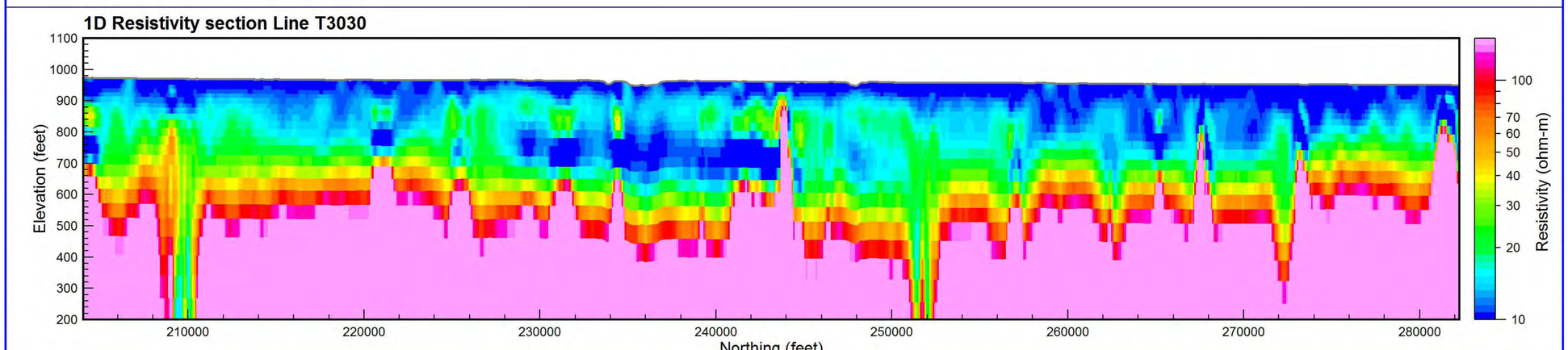

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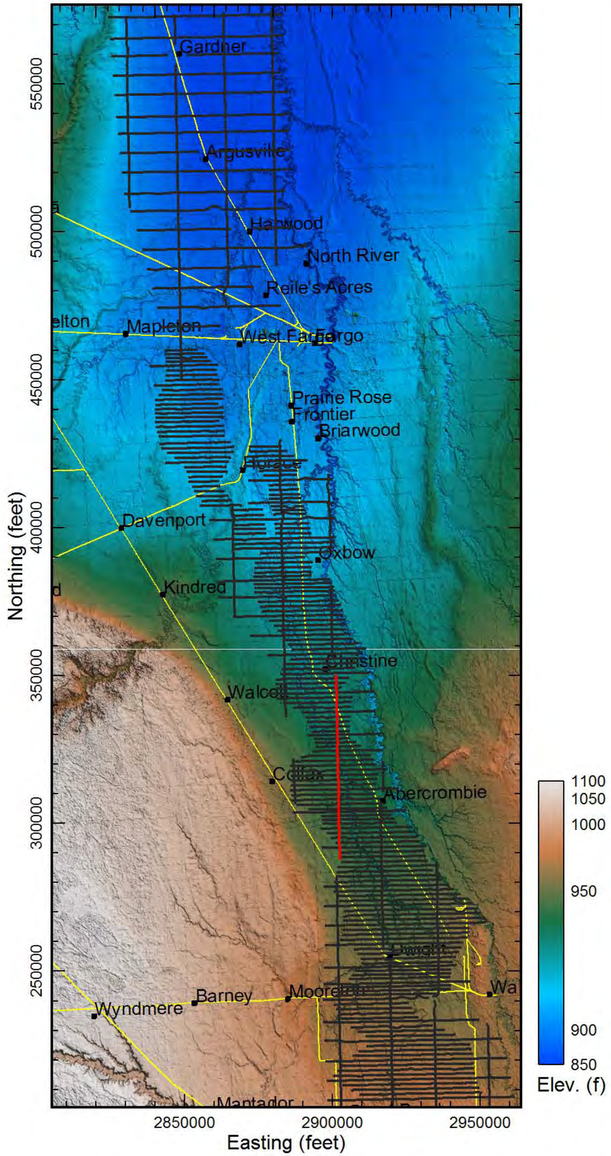

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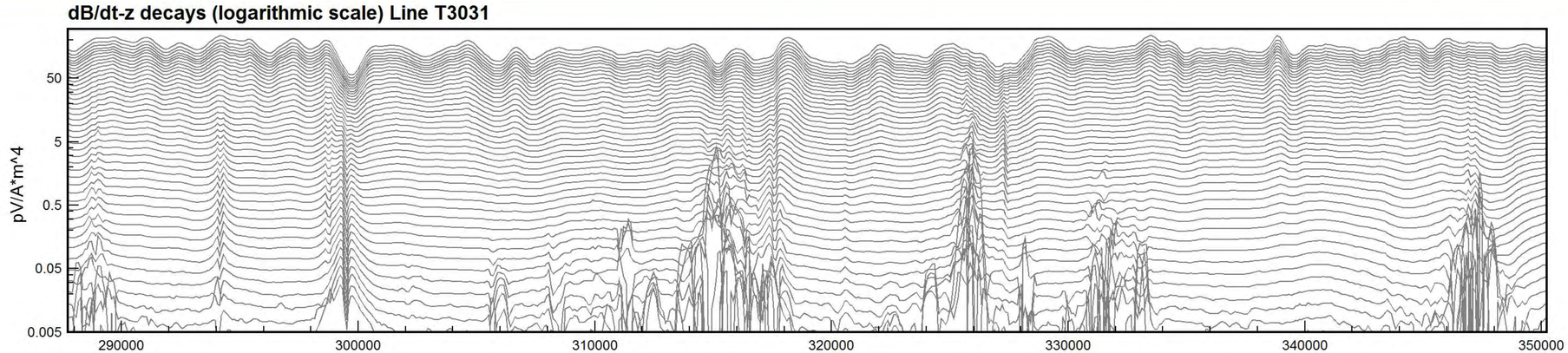

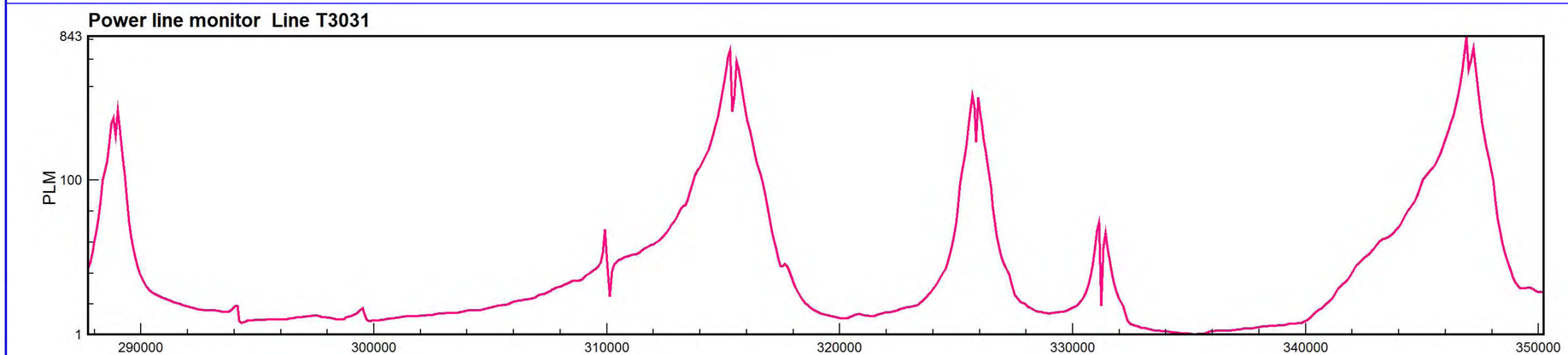

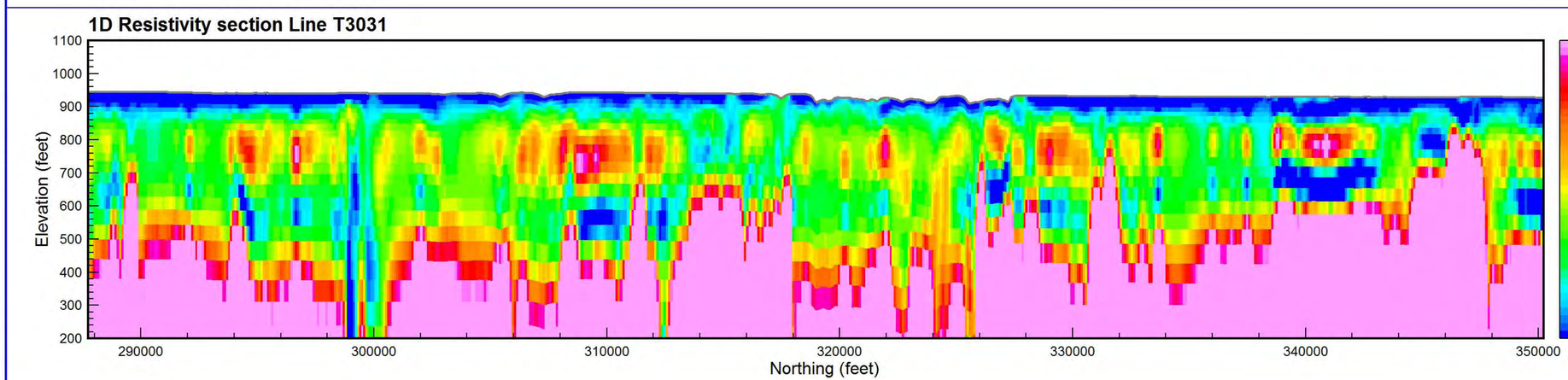

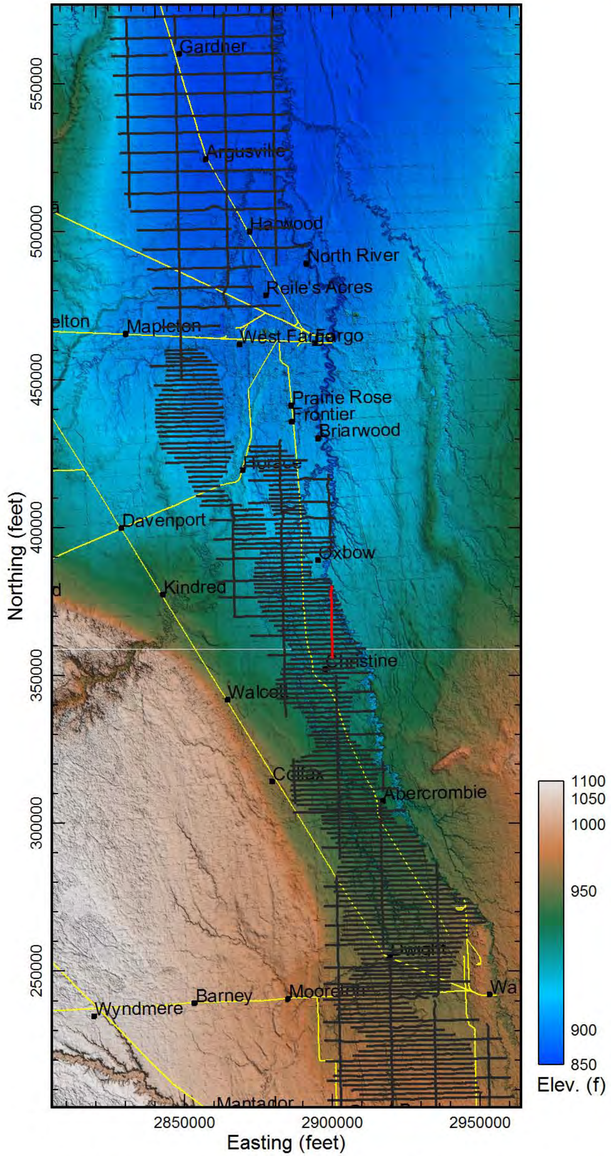

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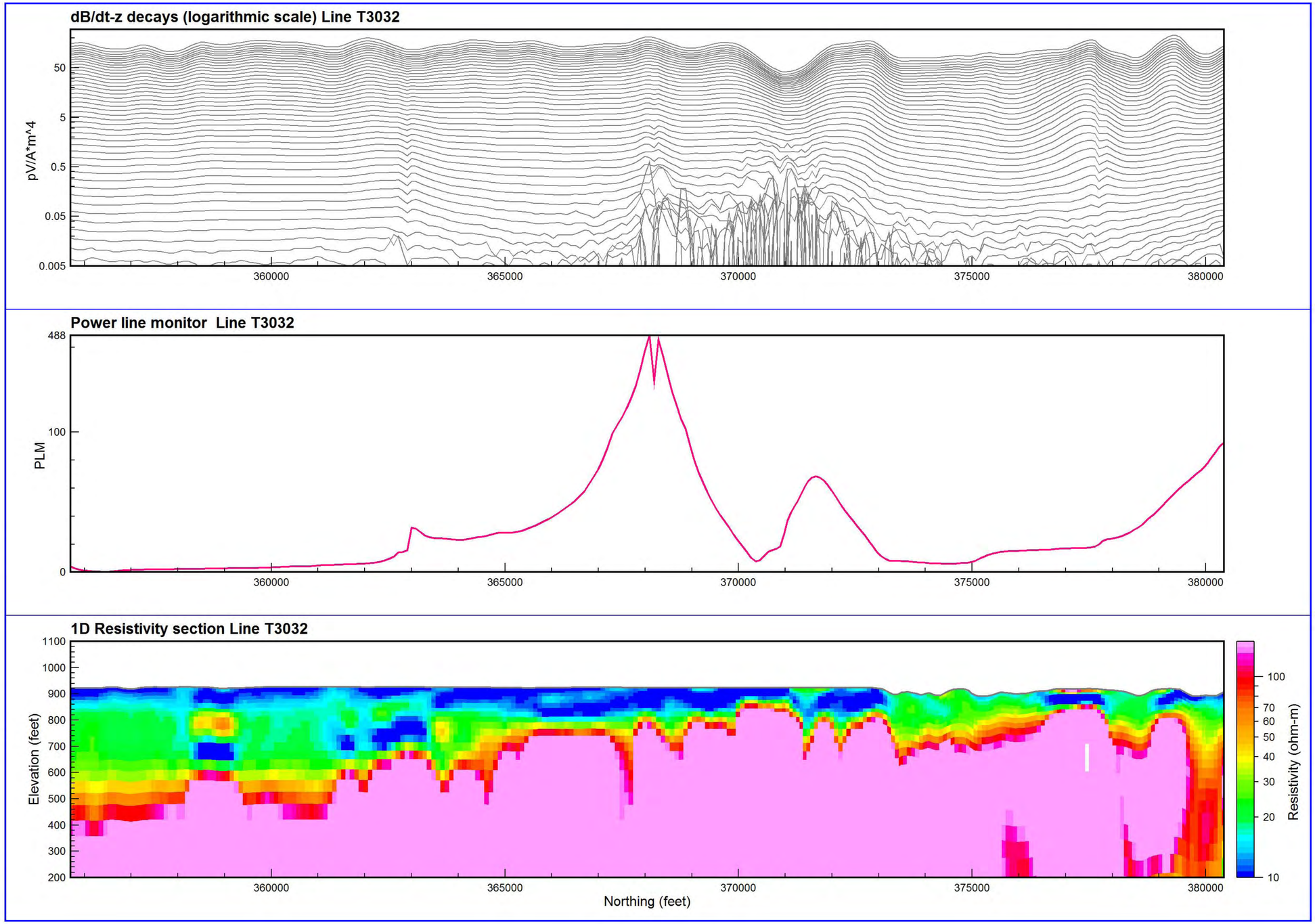

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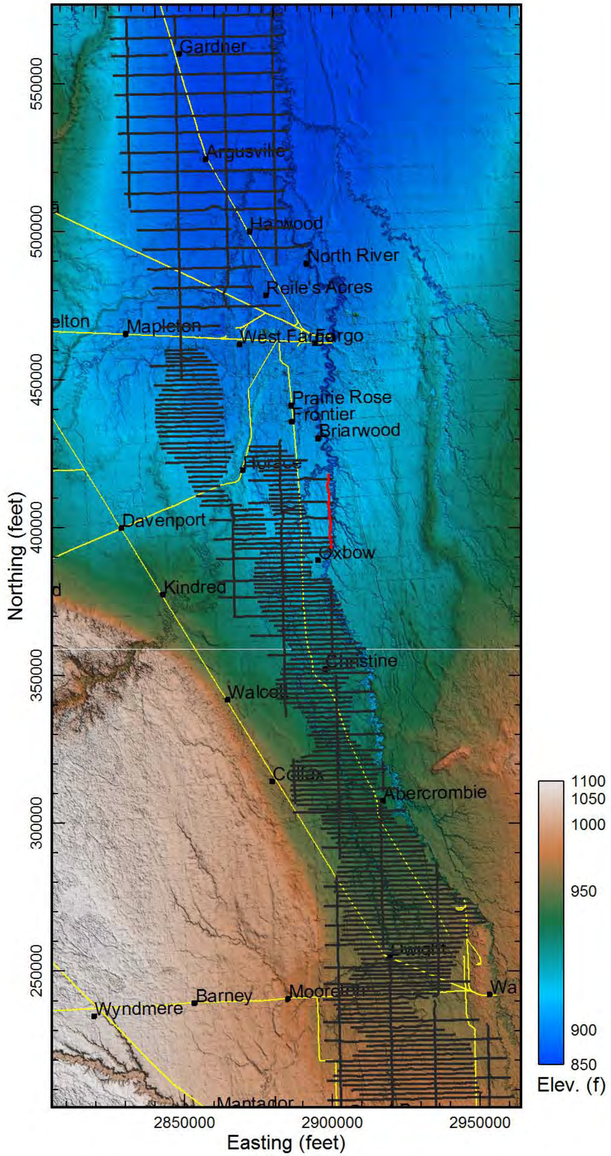

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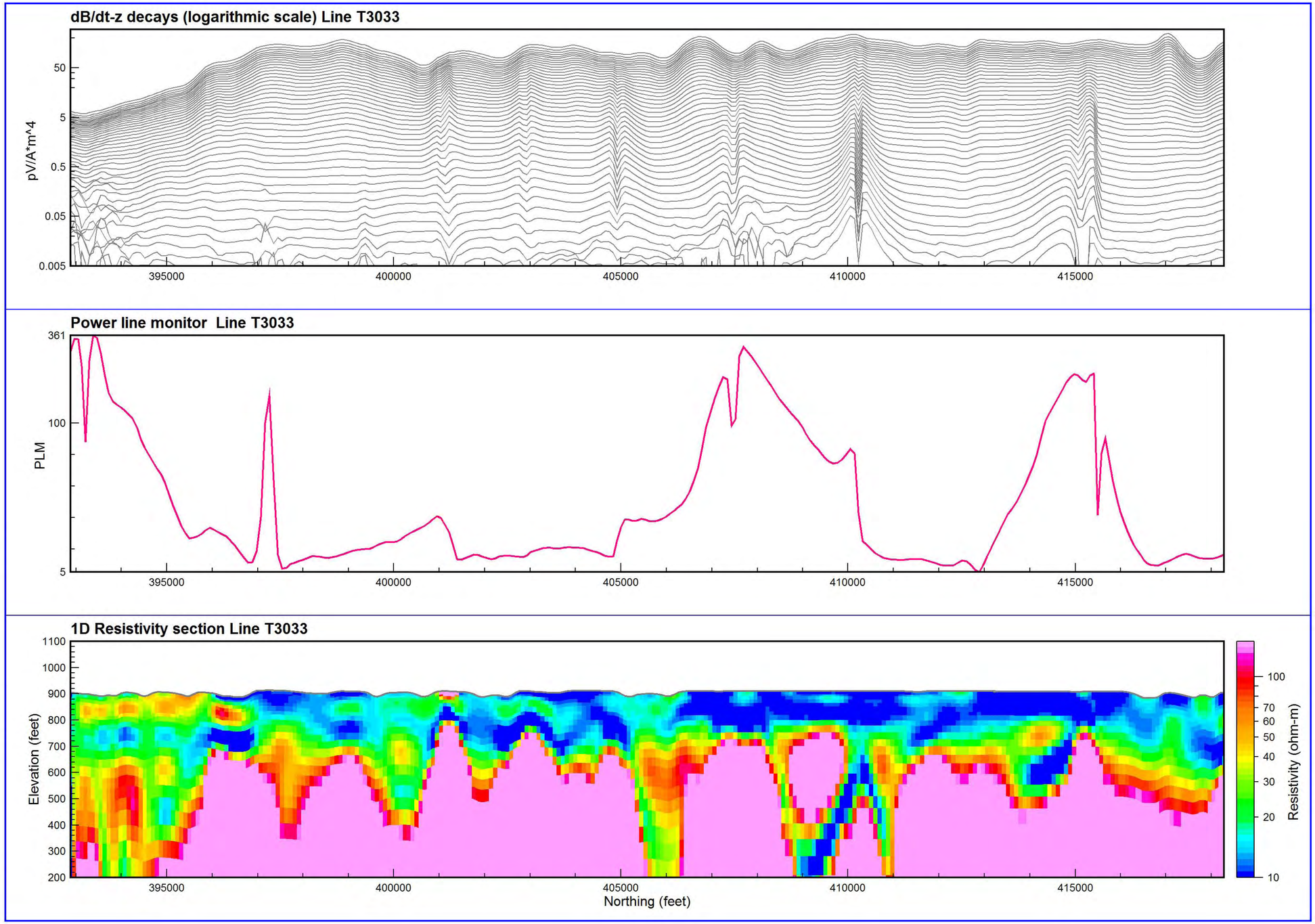

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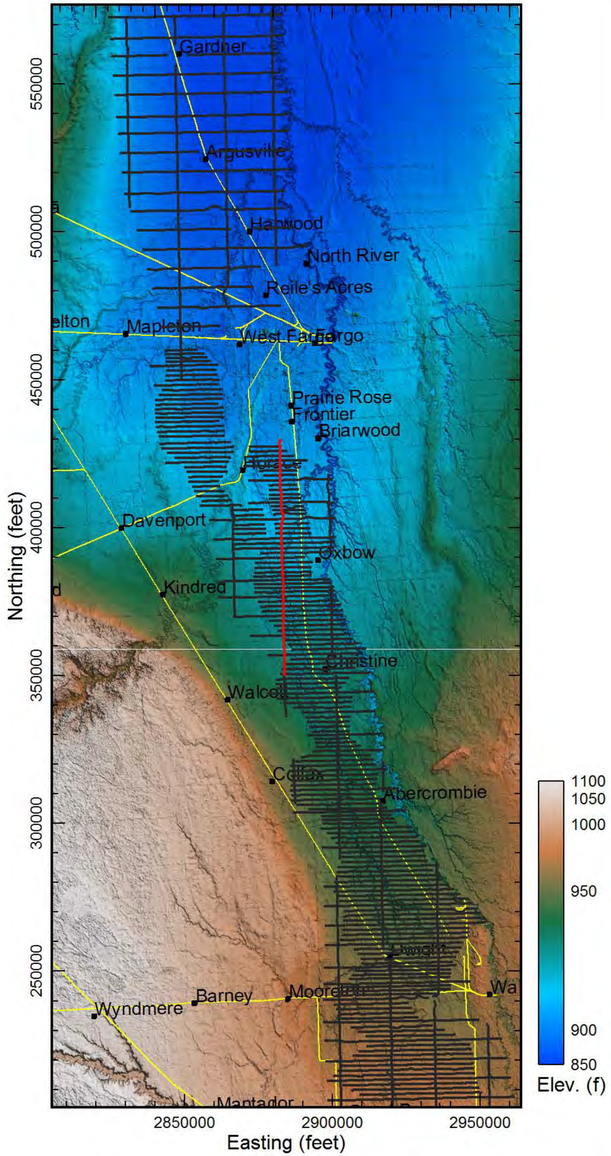
GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS

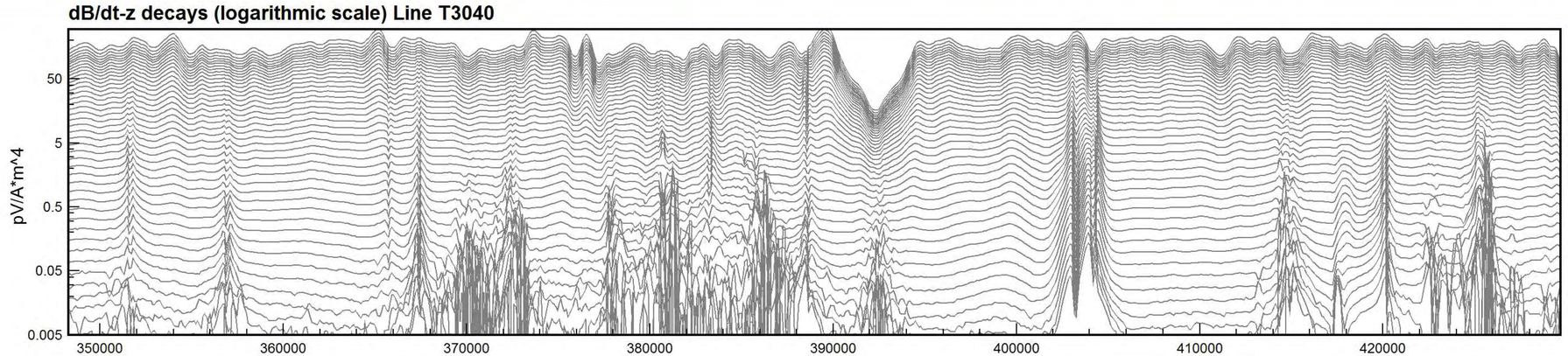


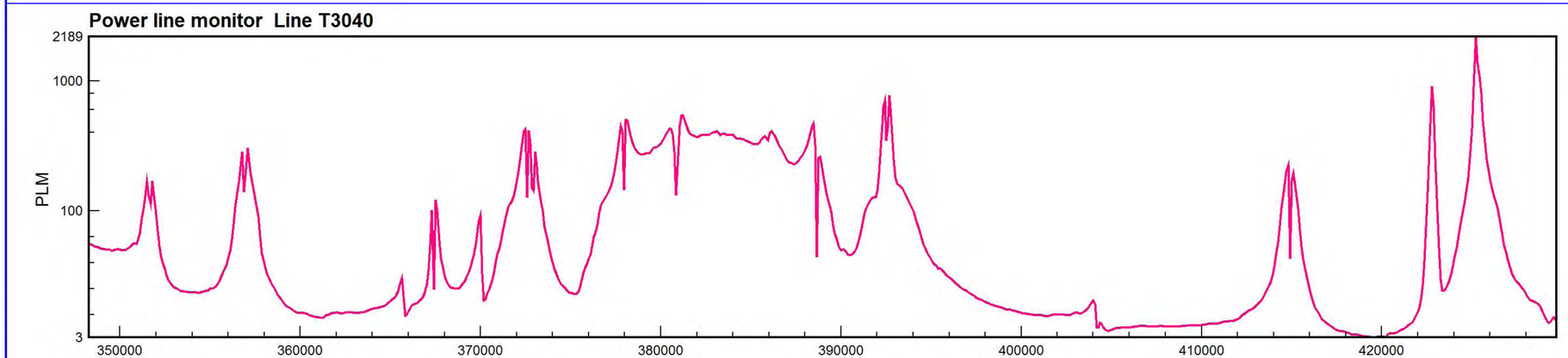
Map projection: NAD83 SPN Dakota South (int. feet)

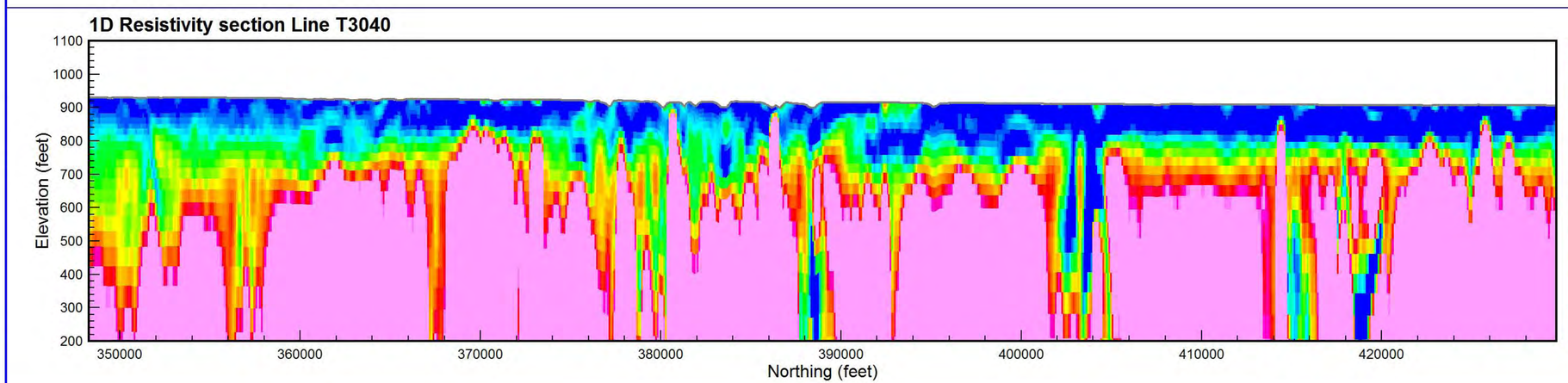
Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

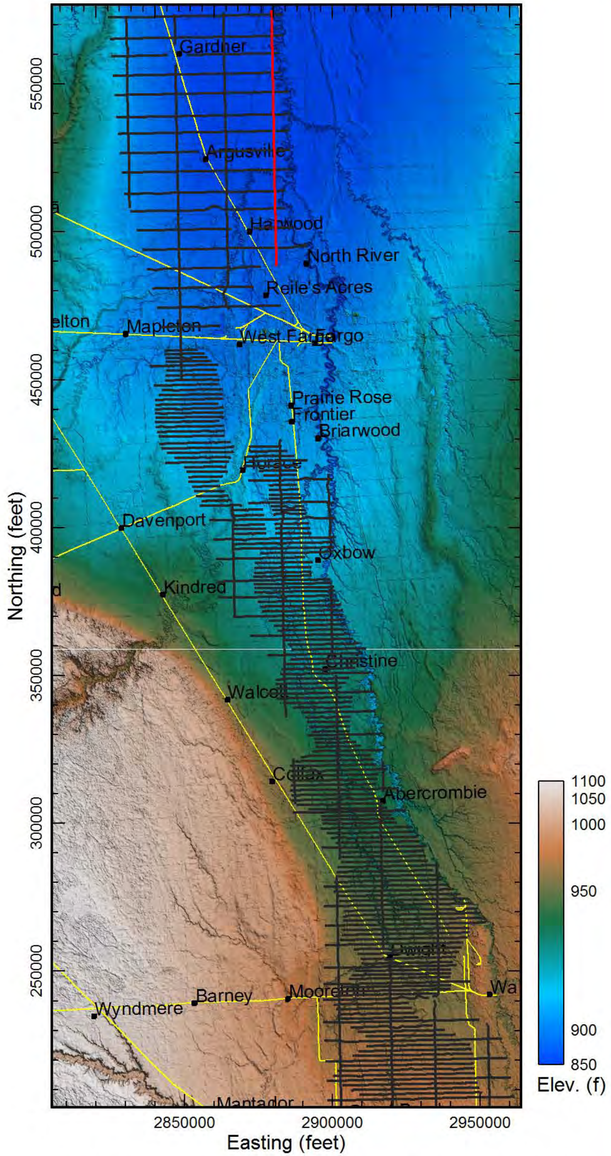
Date: Feb. 2, 2018

GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS

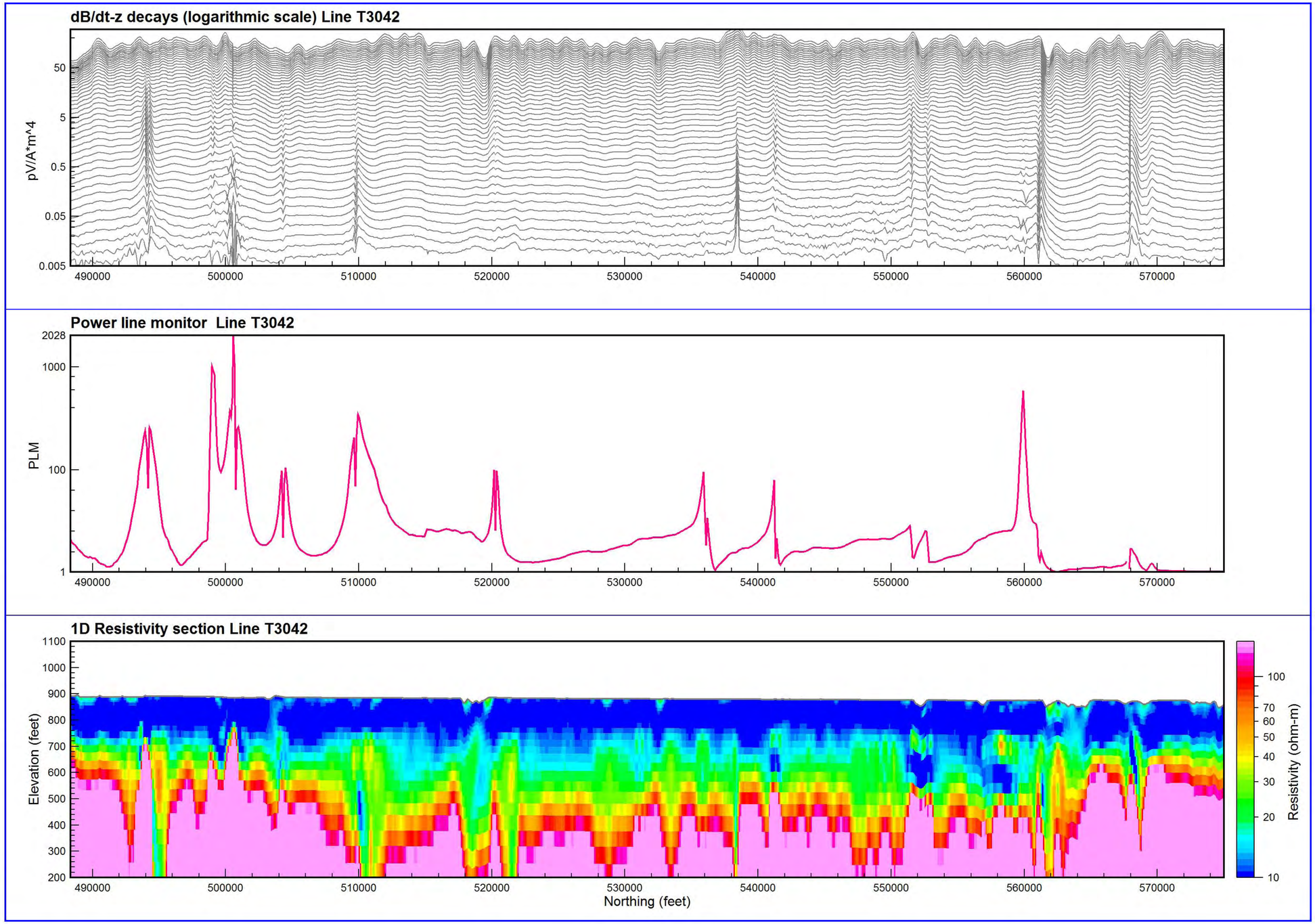








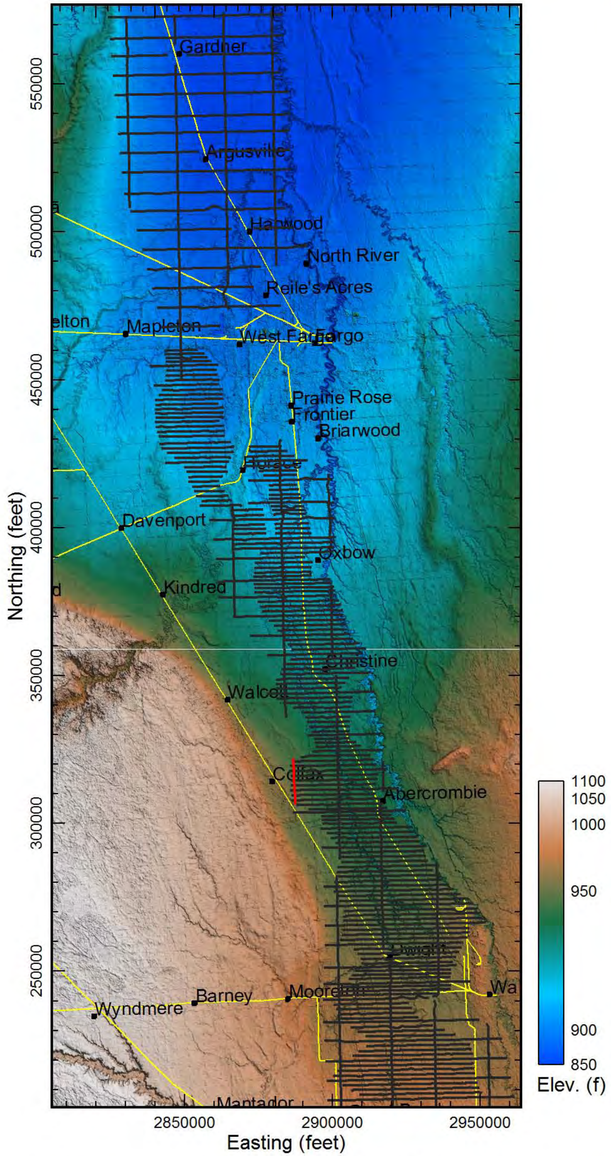
Map projection: NAD83 SPN Dakota South (int. feet)



Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

Date: Feb. 2, 2018

GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS

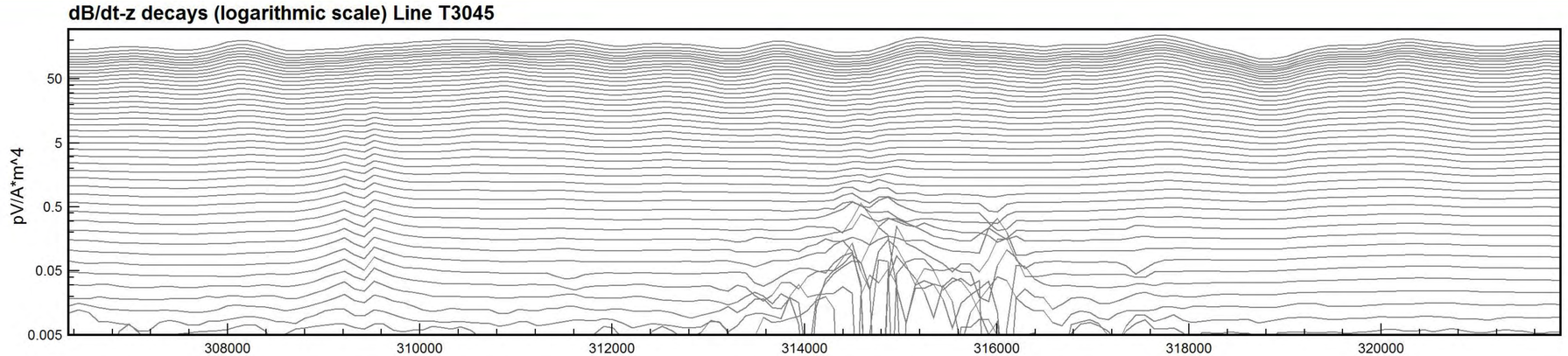


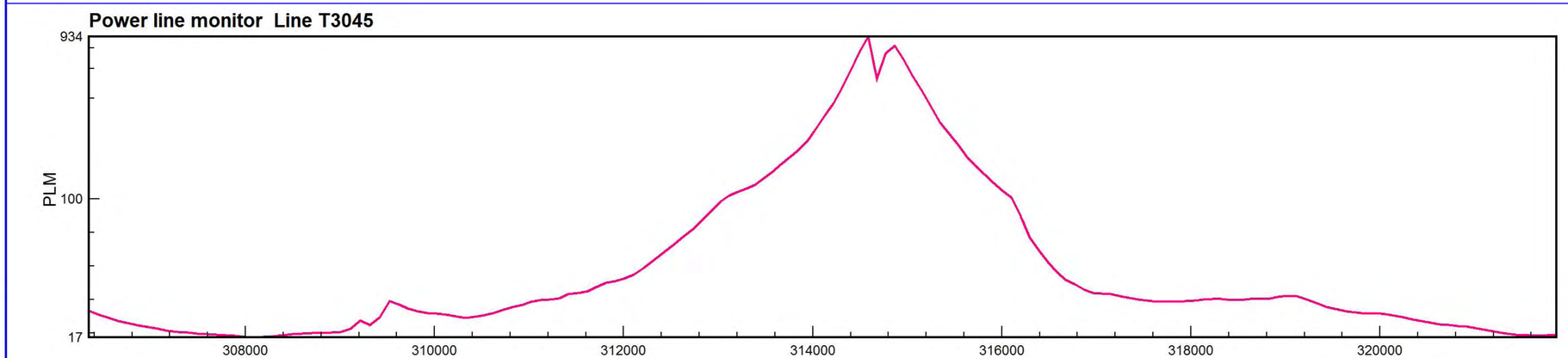
Map projection: NAD83 SPN Dakota South (int. feet)

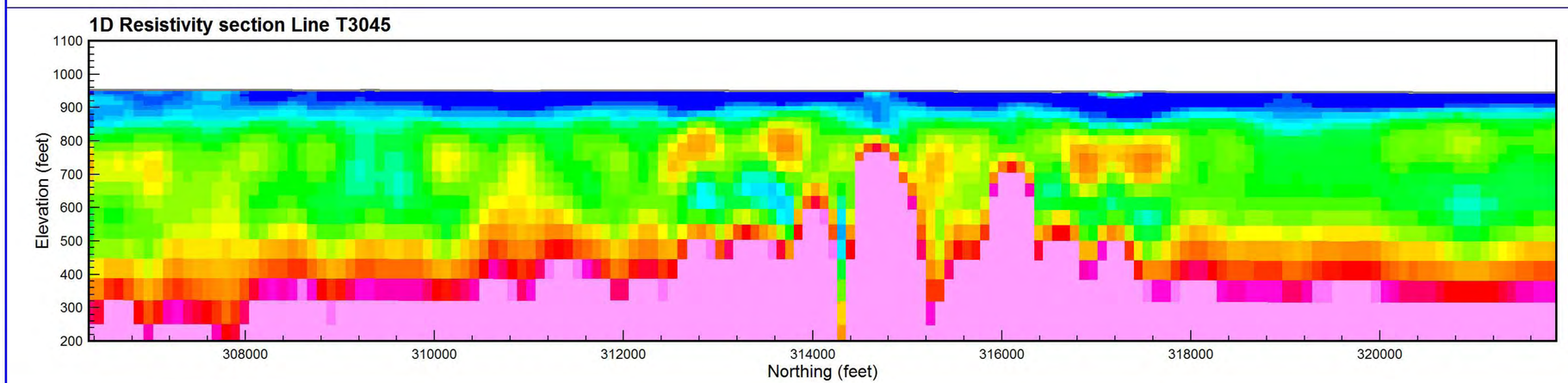
Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

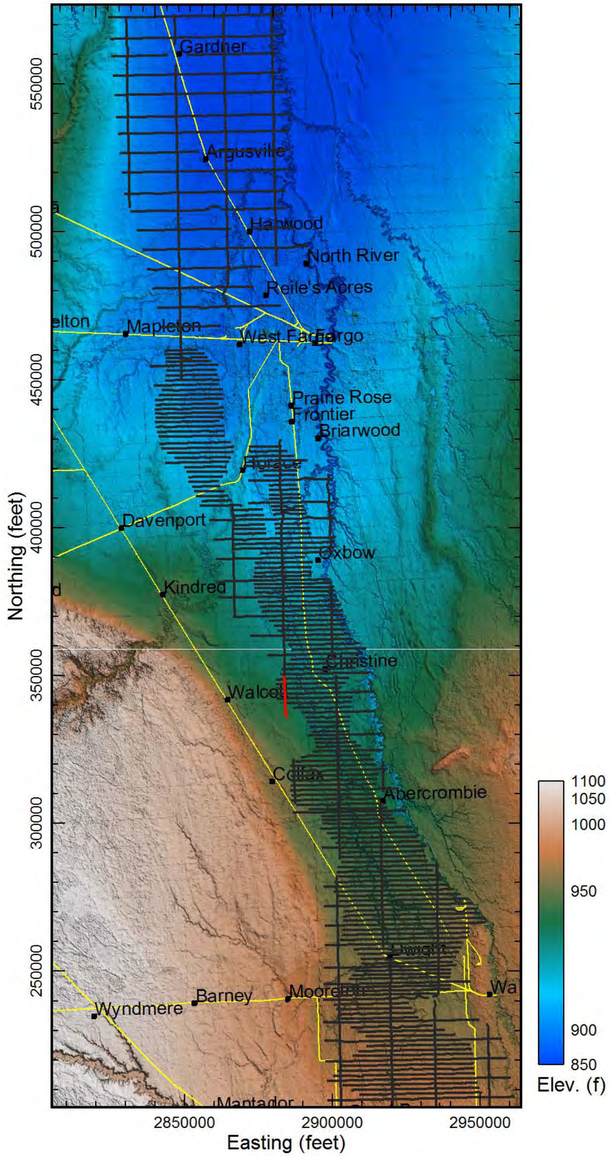
Date: Feb. 2, 2018

GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS







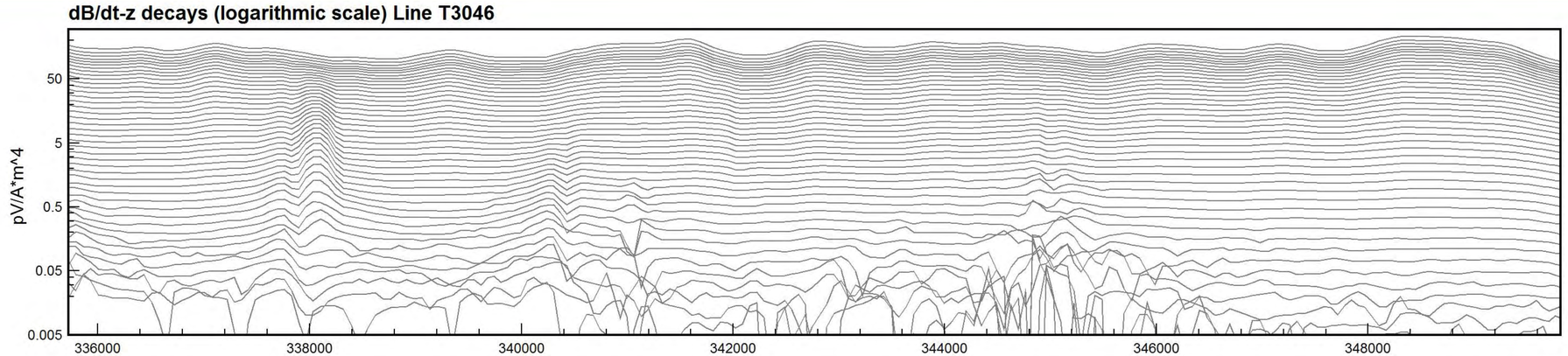


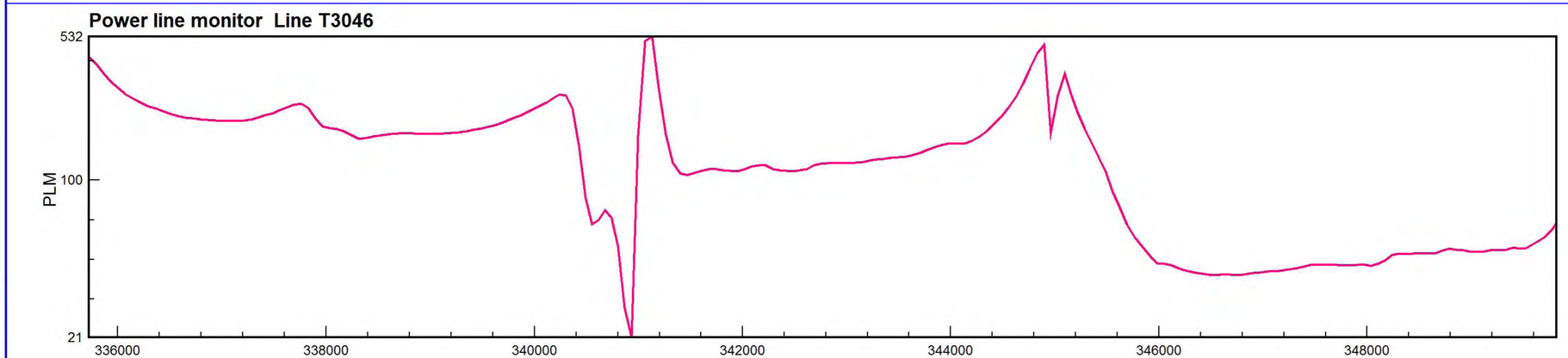
Map projection: NAD83 SPN Dakota South (int. feet)

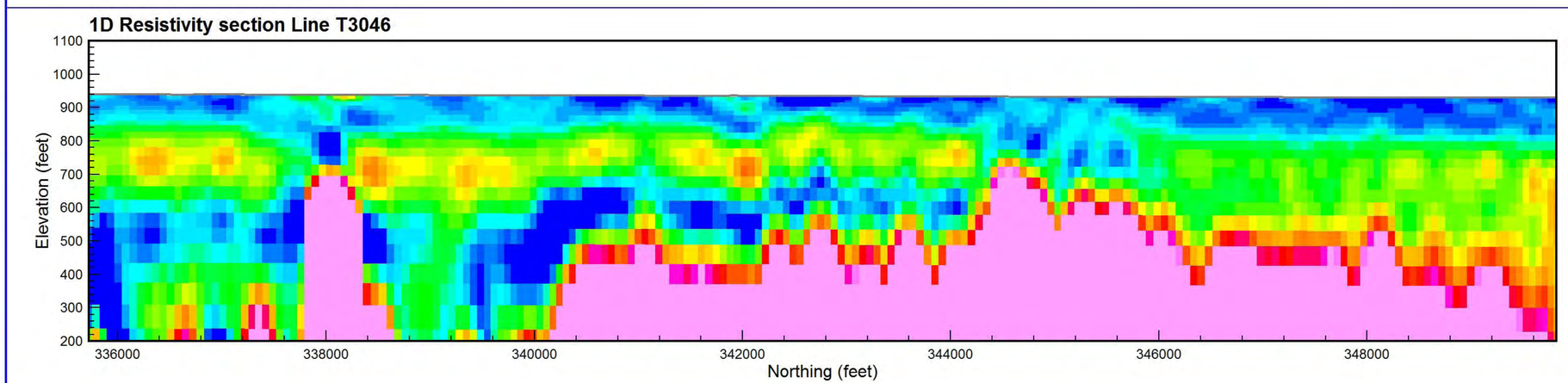
Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

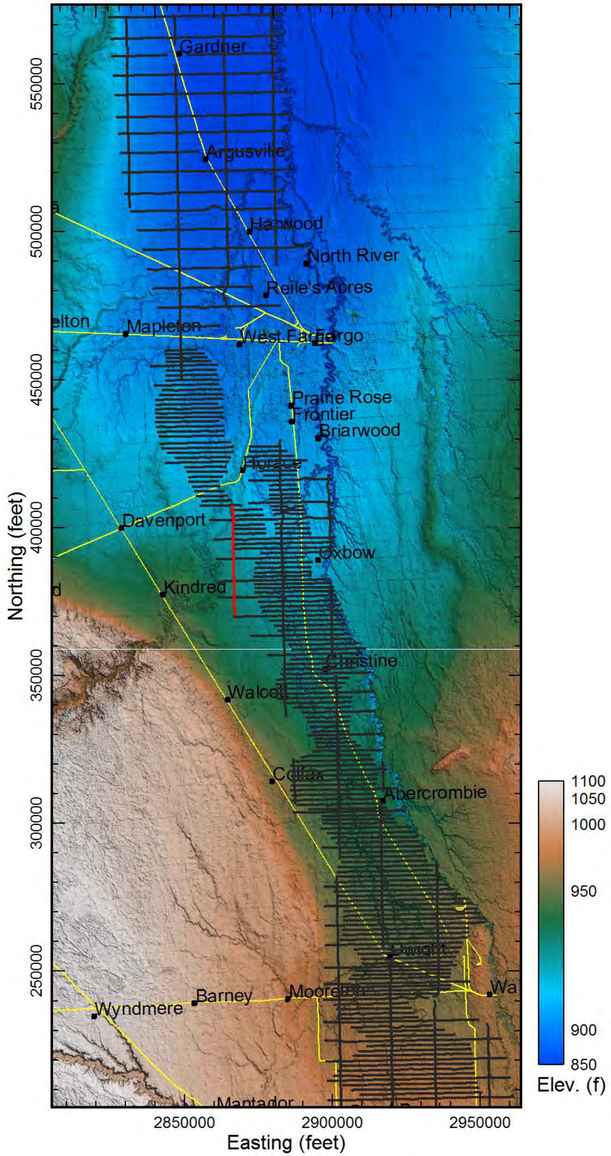
Date: Feb. 2, 2018

GEOTECH AIRBORNE GEOPHYSICAL SURVEYS

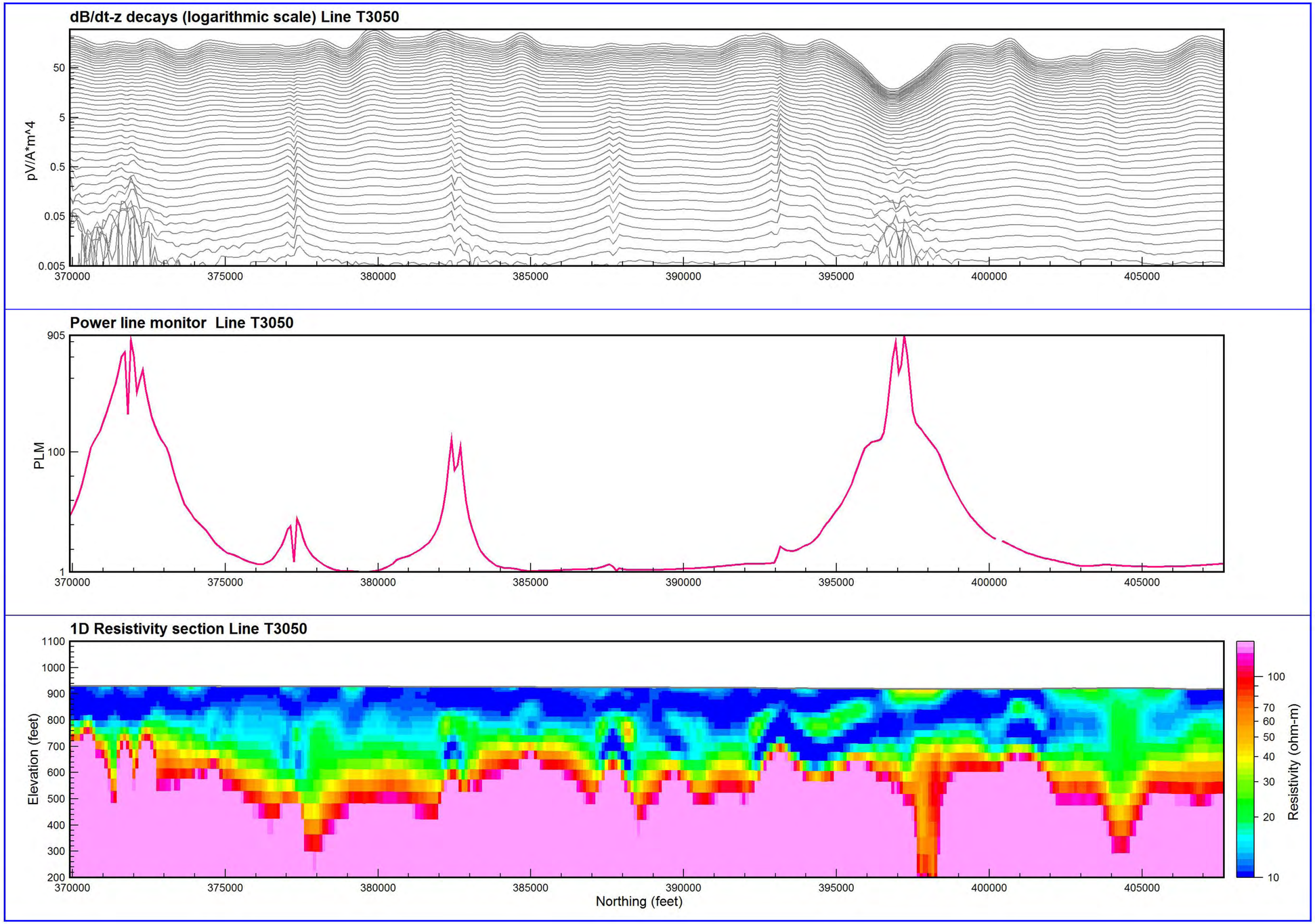








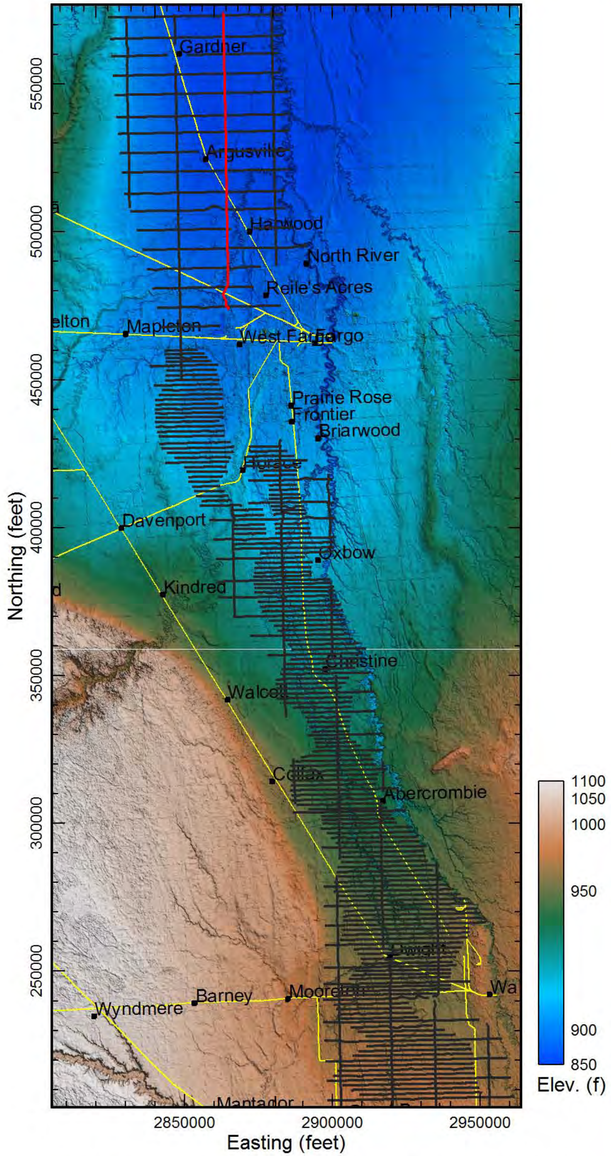
Map projection: NAD83 SPN Dakota South (int. feet)



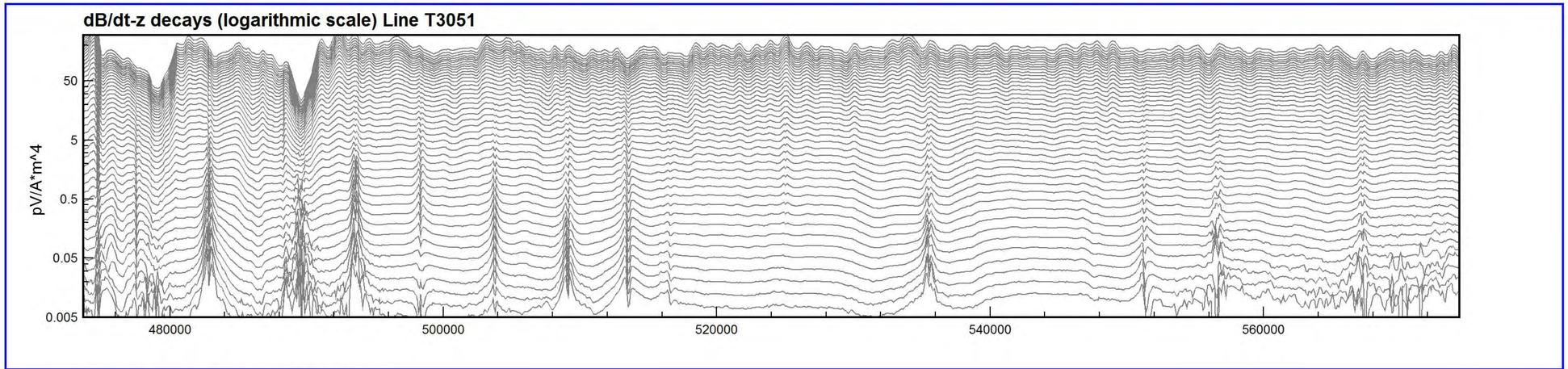
Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

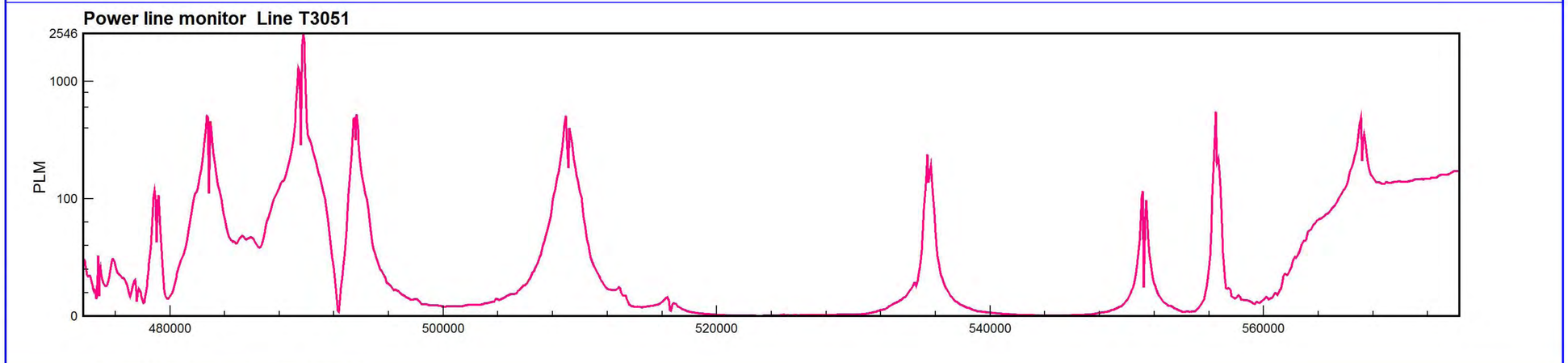
Date: Feb. 2, 2018

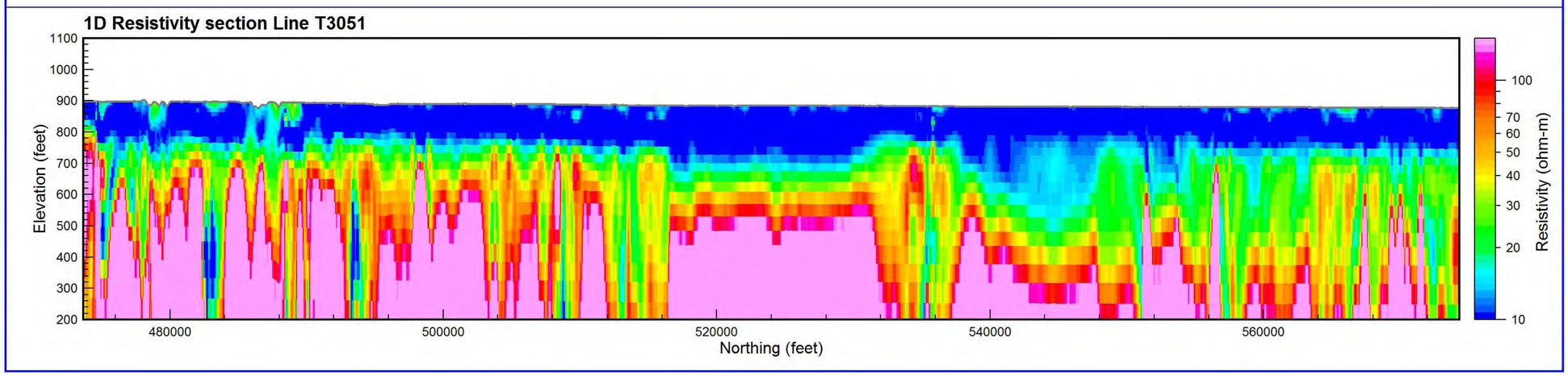
GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS



Map projection: NAD83 SPN Dakota South (int. feet)







Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

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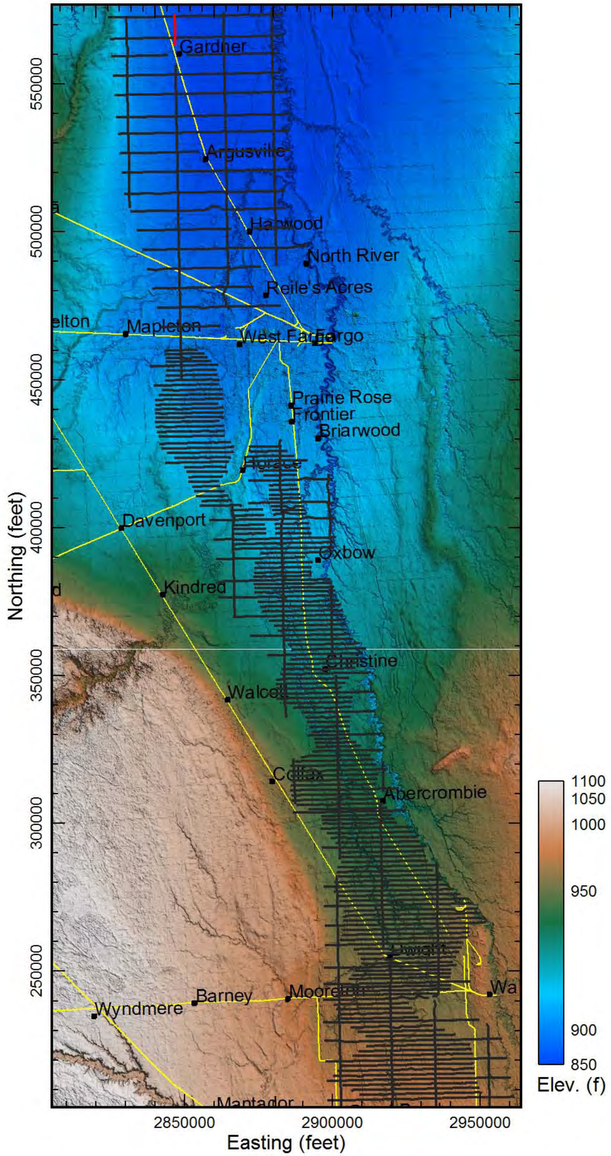
GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS

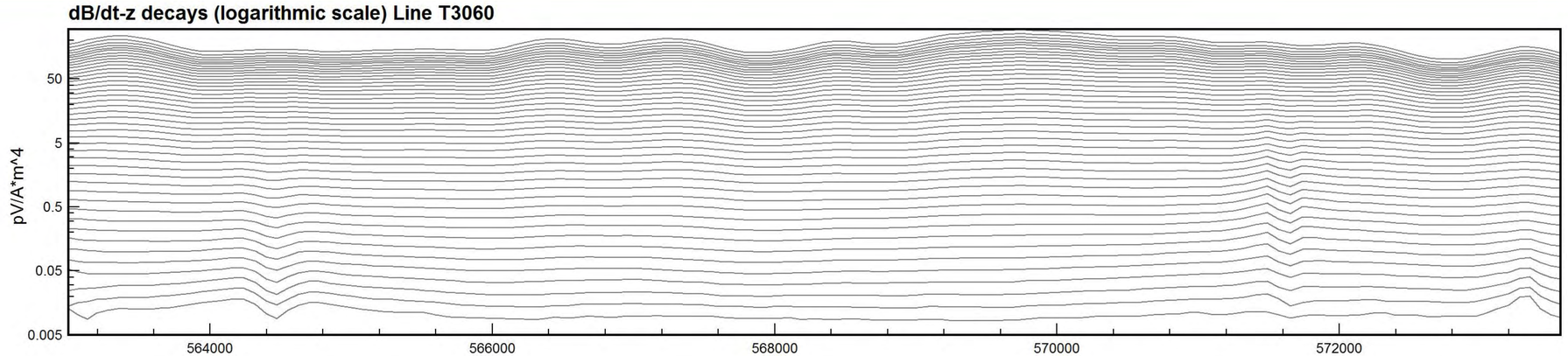


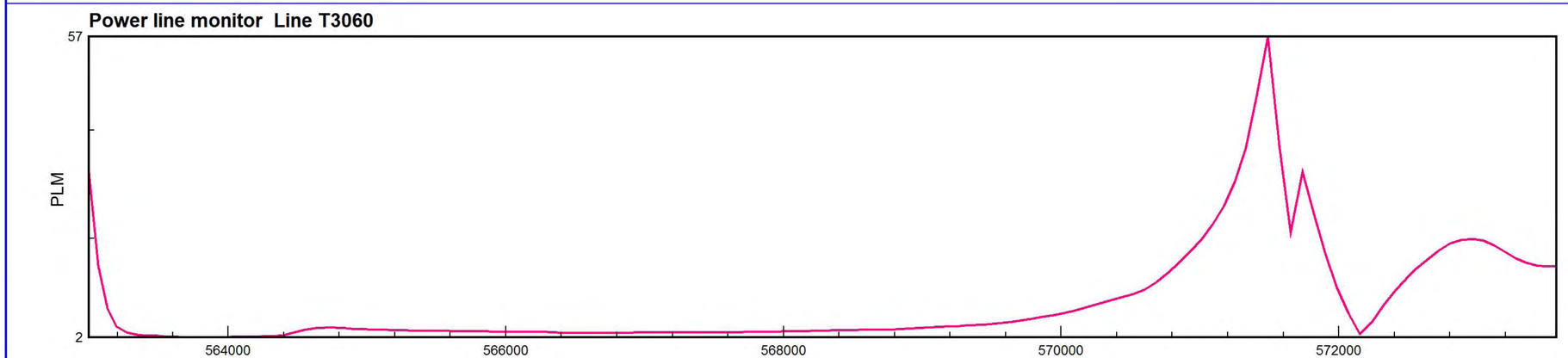
Map projection: NAD83 SPN Dakota South (int. feet)

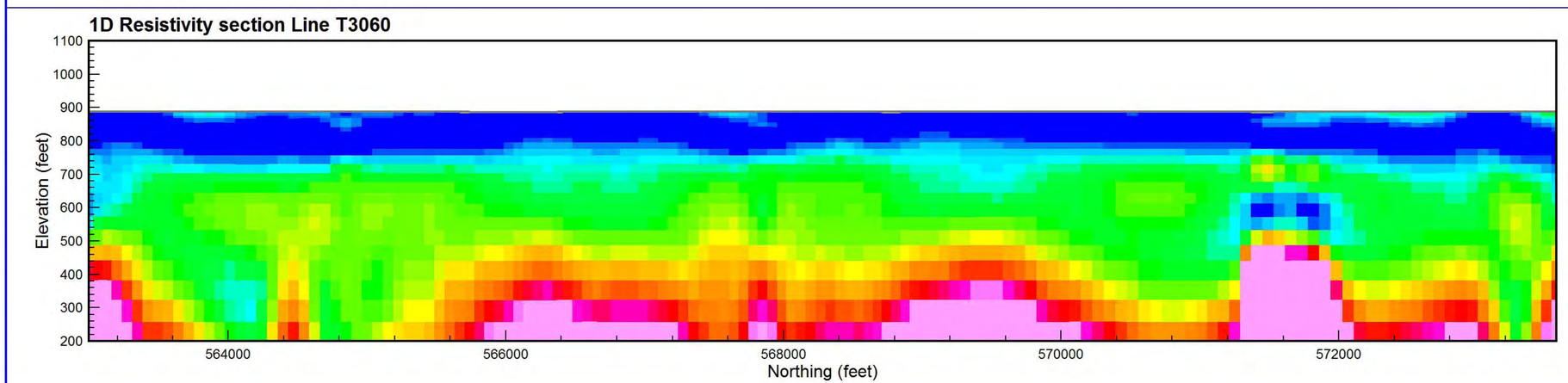
Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
NORTH DAKOTA STATE WATER COMMISSION

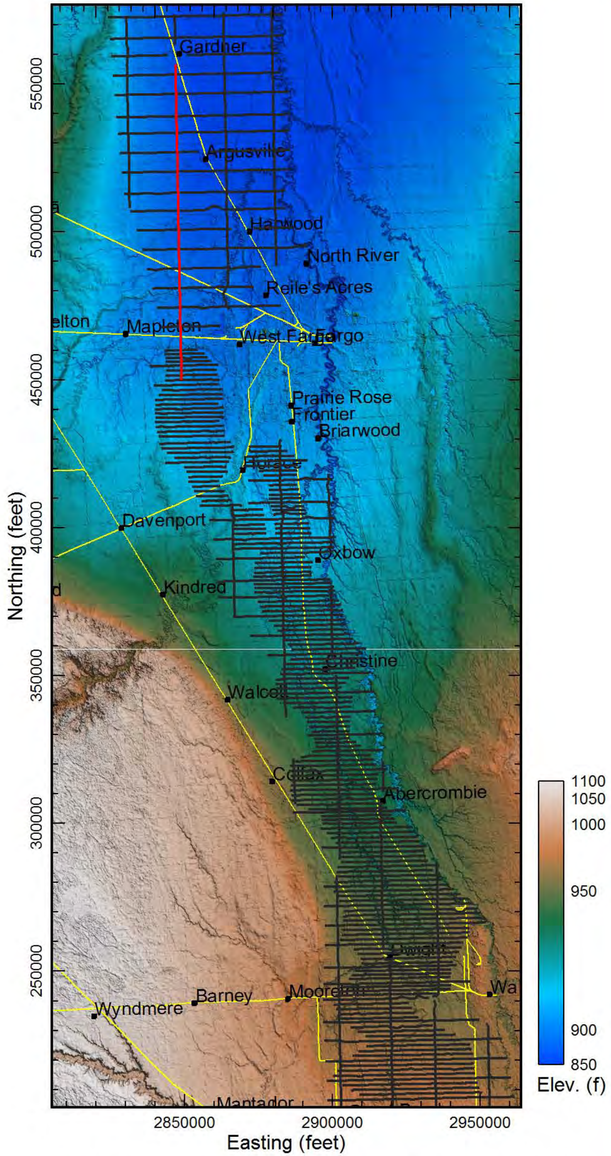
Date: Feb. 2, 2018

GEOTECH AIRBORNE GEOPHYSICAL SURVEYS

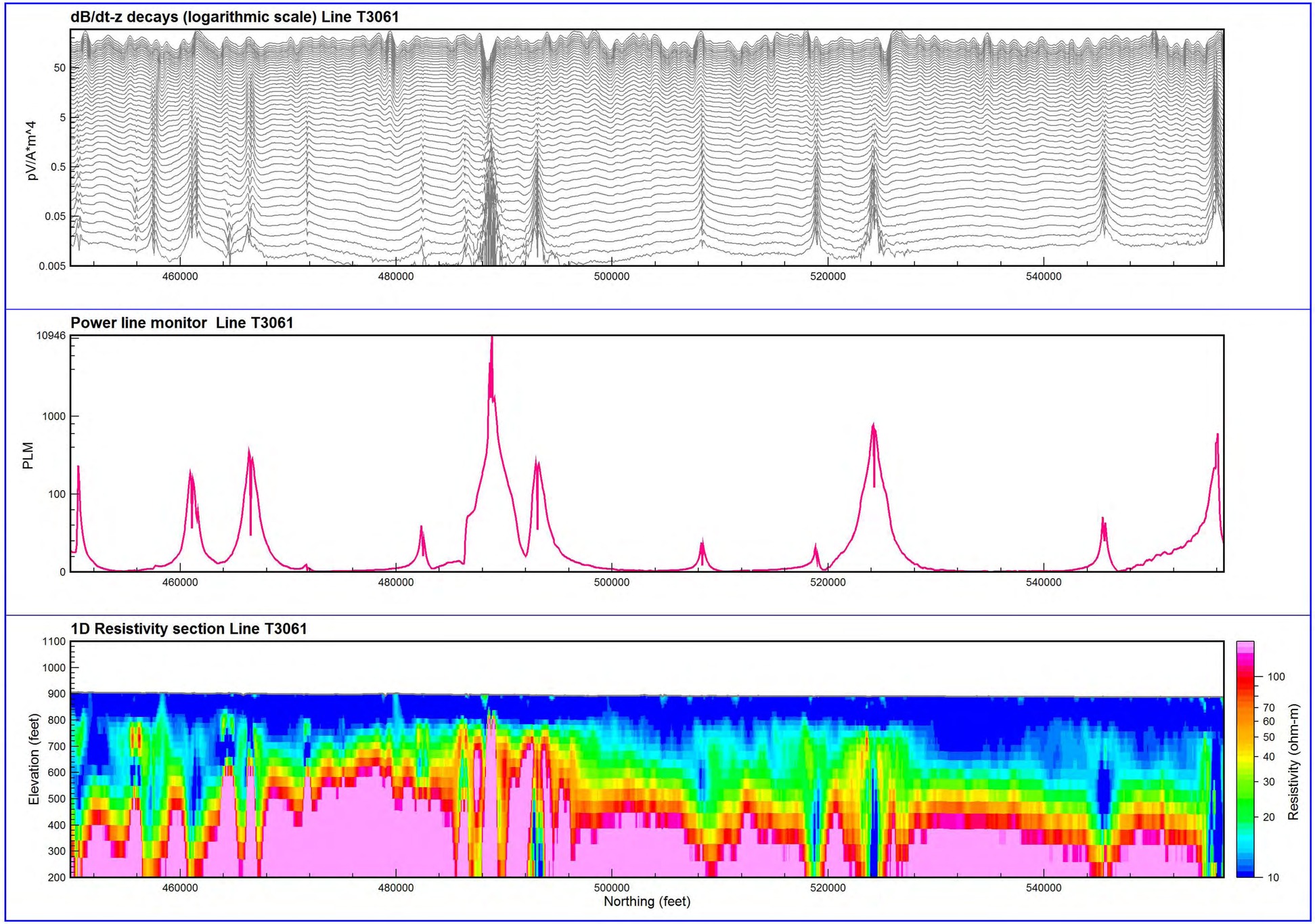








Map projection: NAD83 SPN Dakota South (int. feet)



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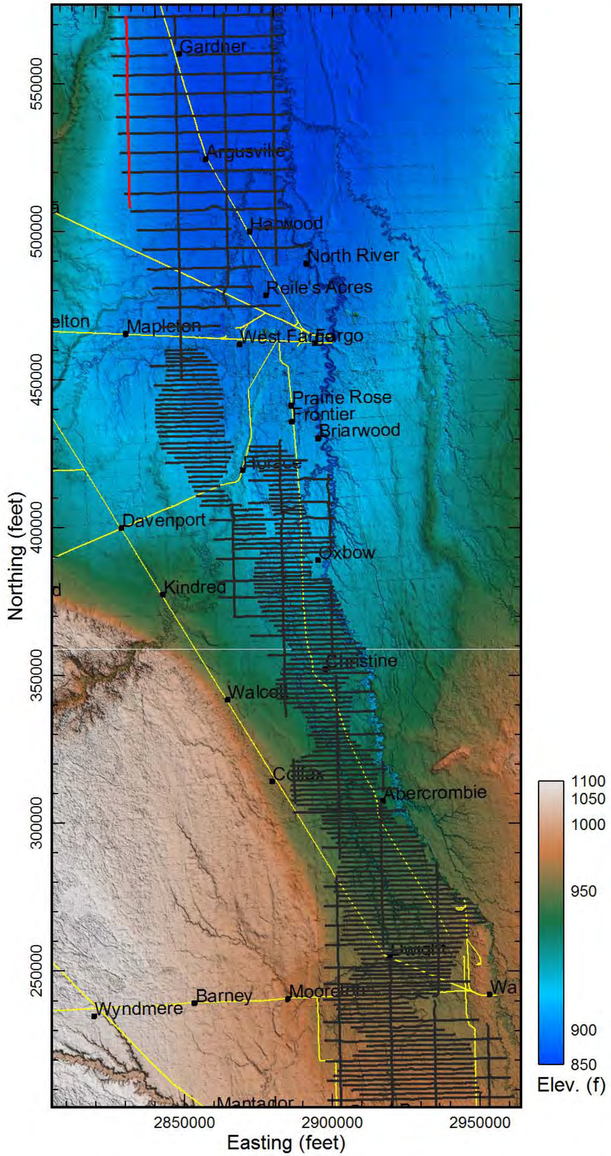

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Unconstrained 1D inversion results
VTEM survey, Wahpeton, North Dakota
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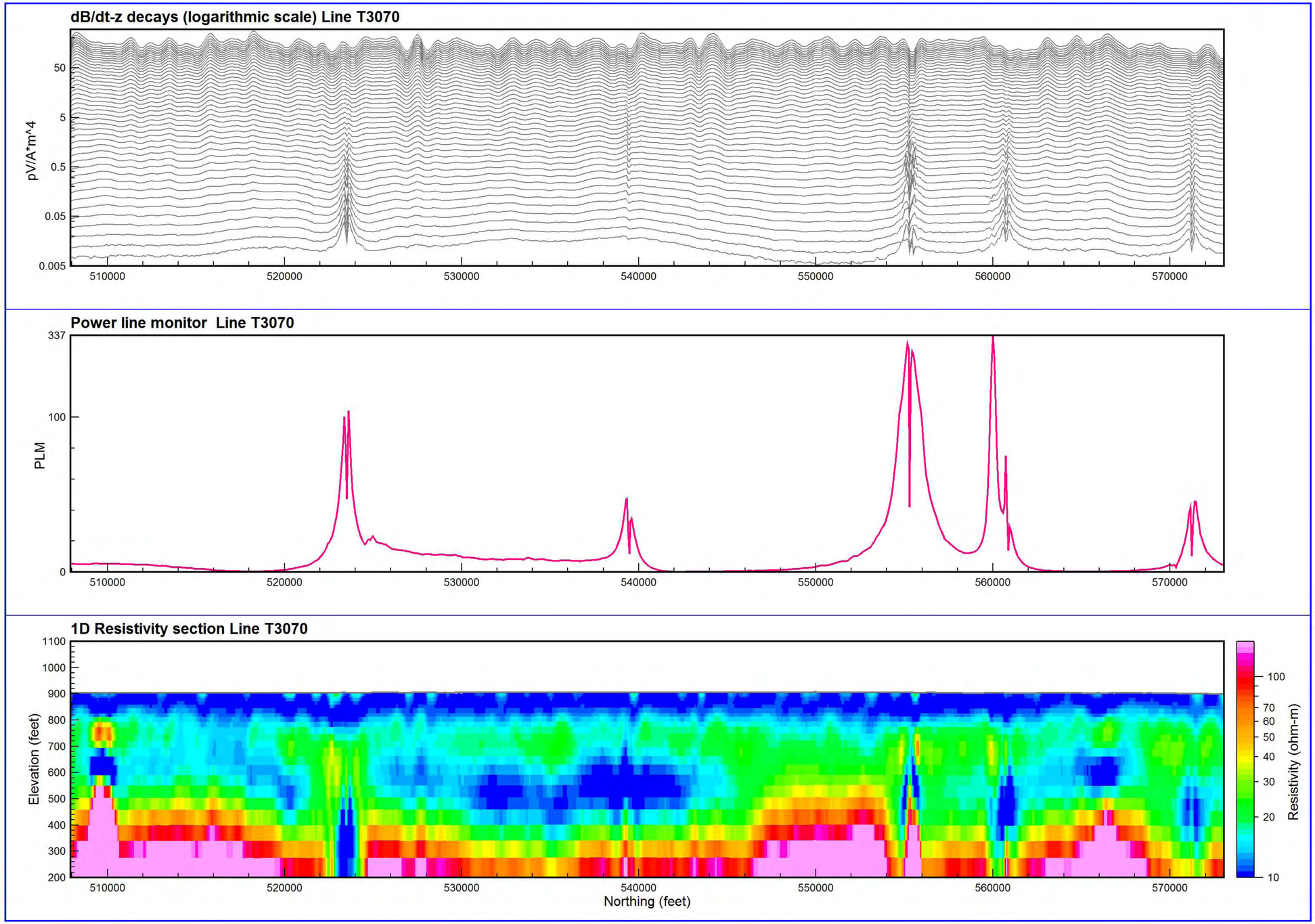
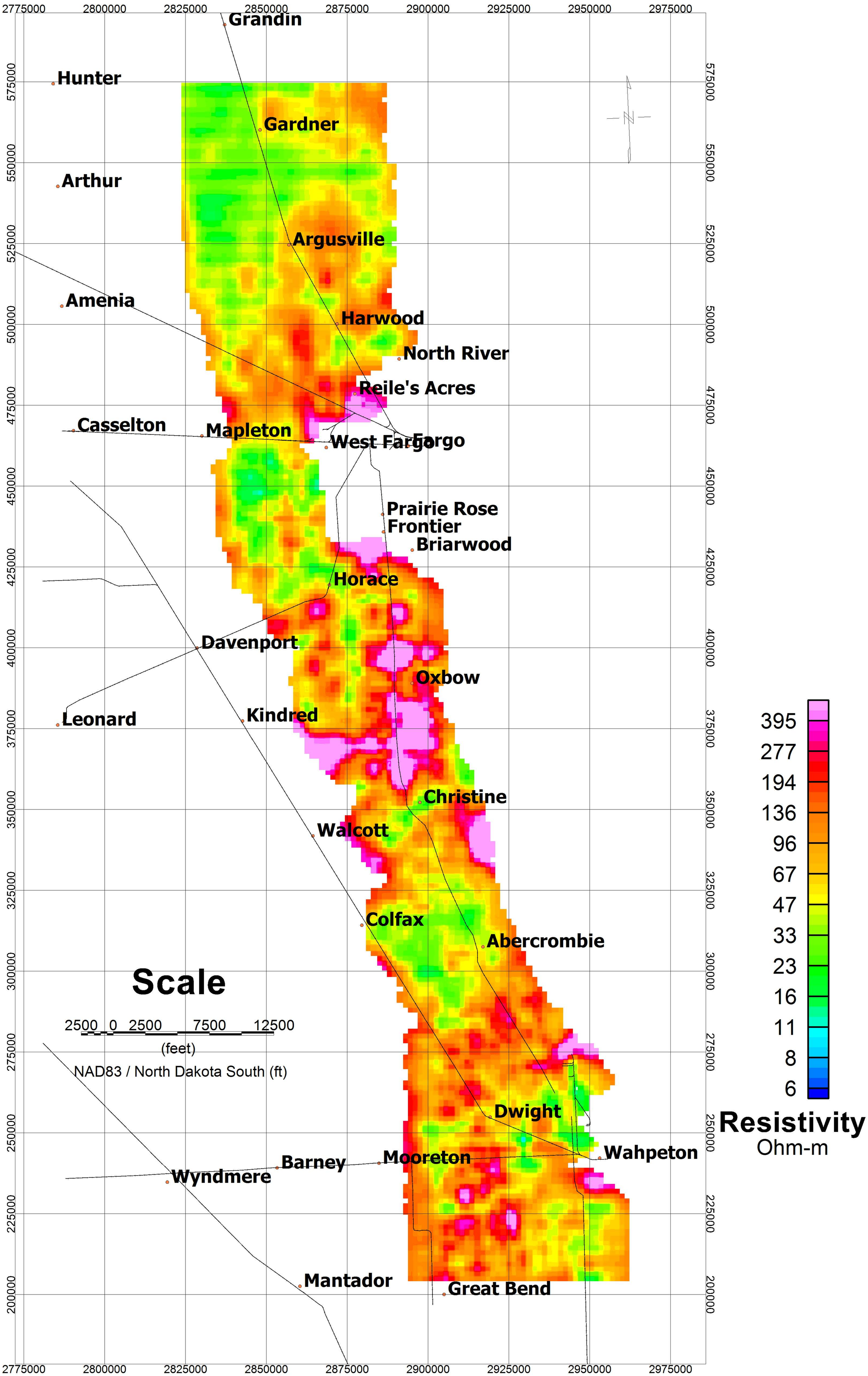
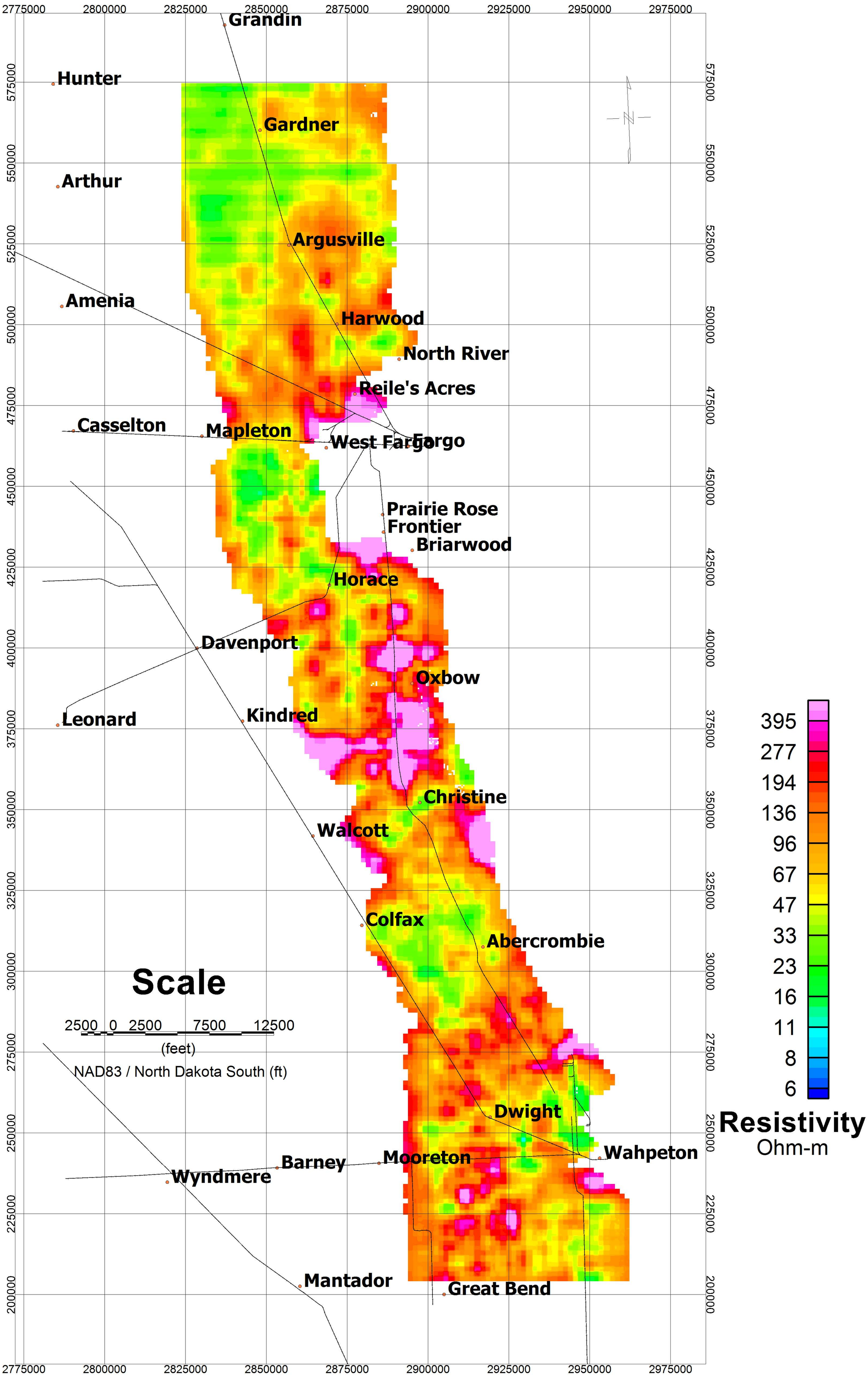


Resistivity Depth Slices

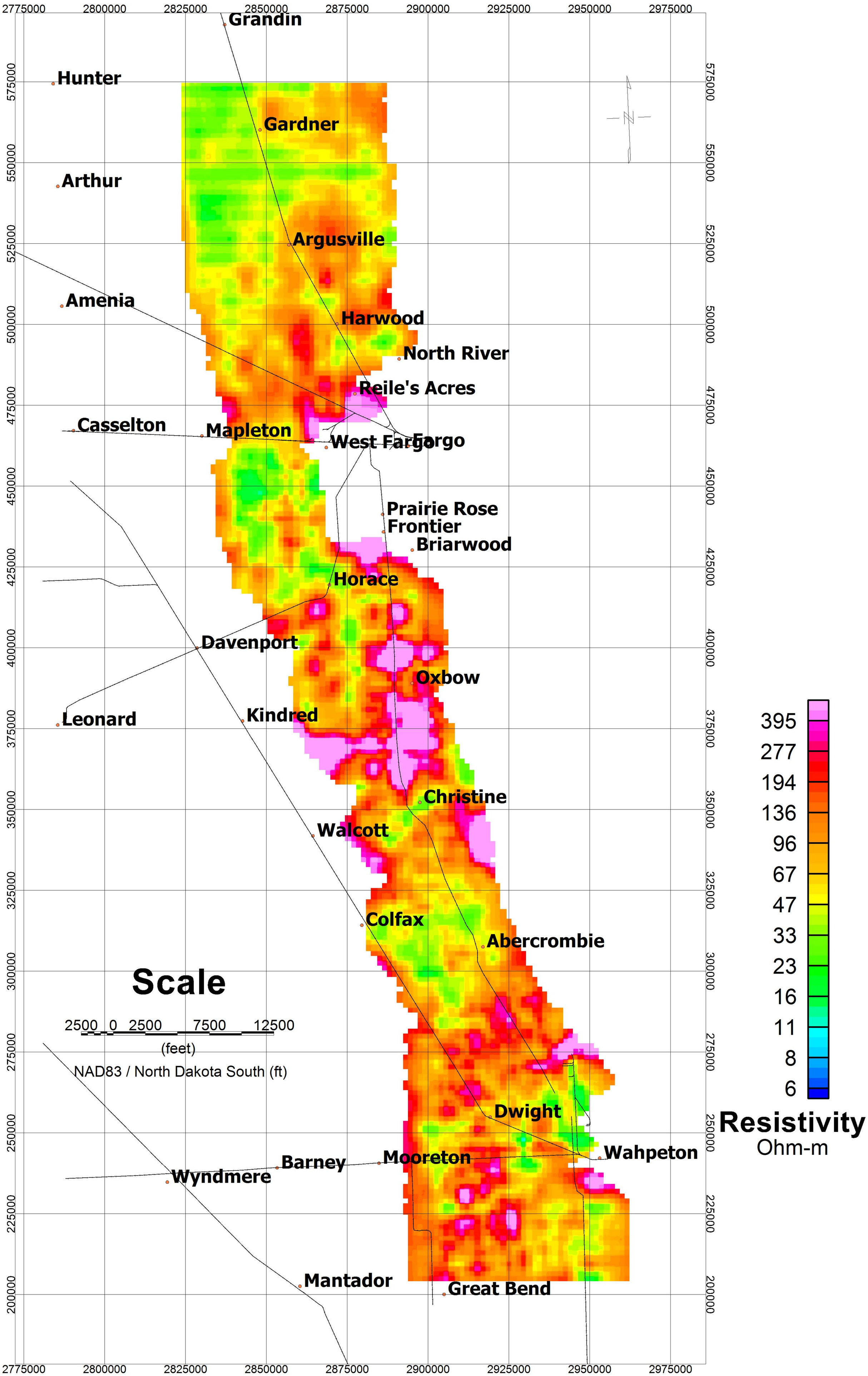
A series of planar resistivity depth slices maps corresponding to the depth range from 0 f to 680 f at 40f depth interval arepresented. Ground coordinates are in feet.



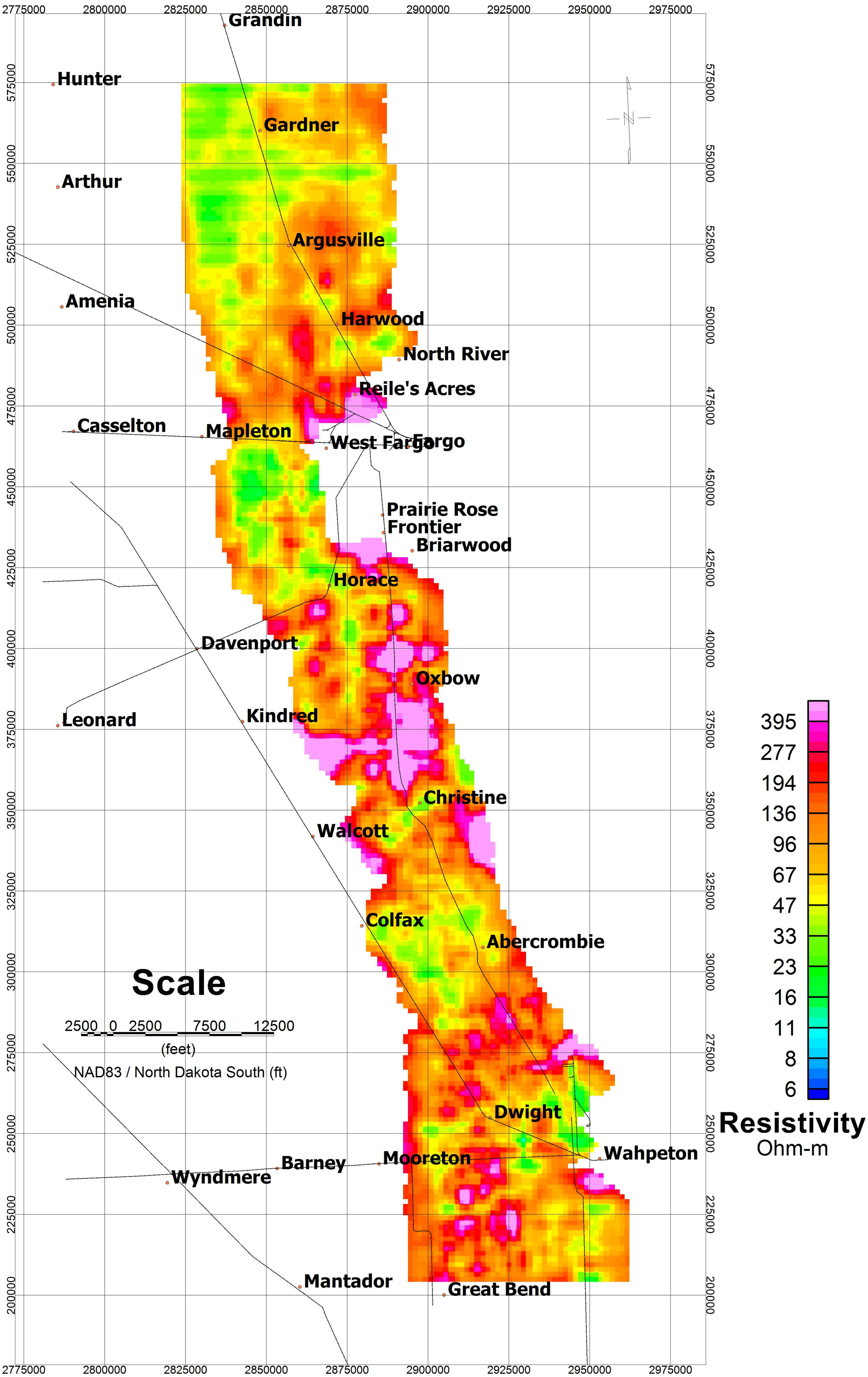
Resistivity Depth slice at 0 f



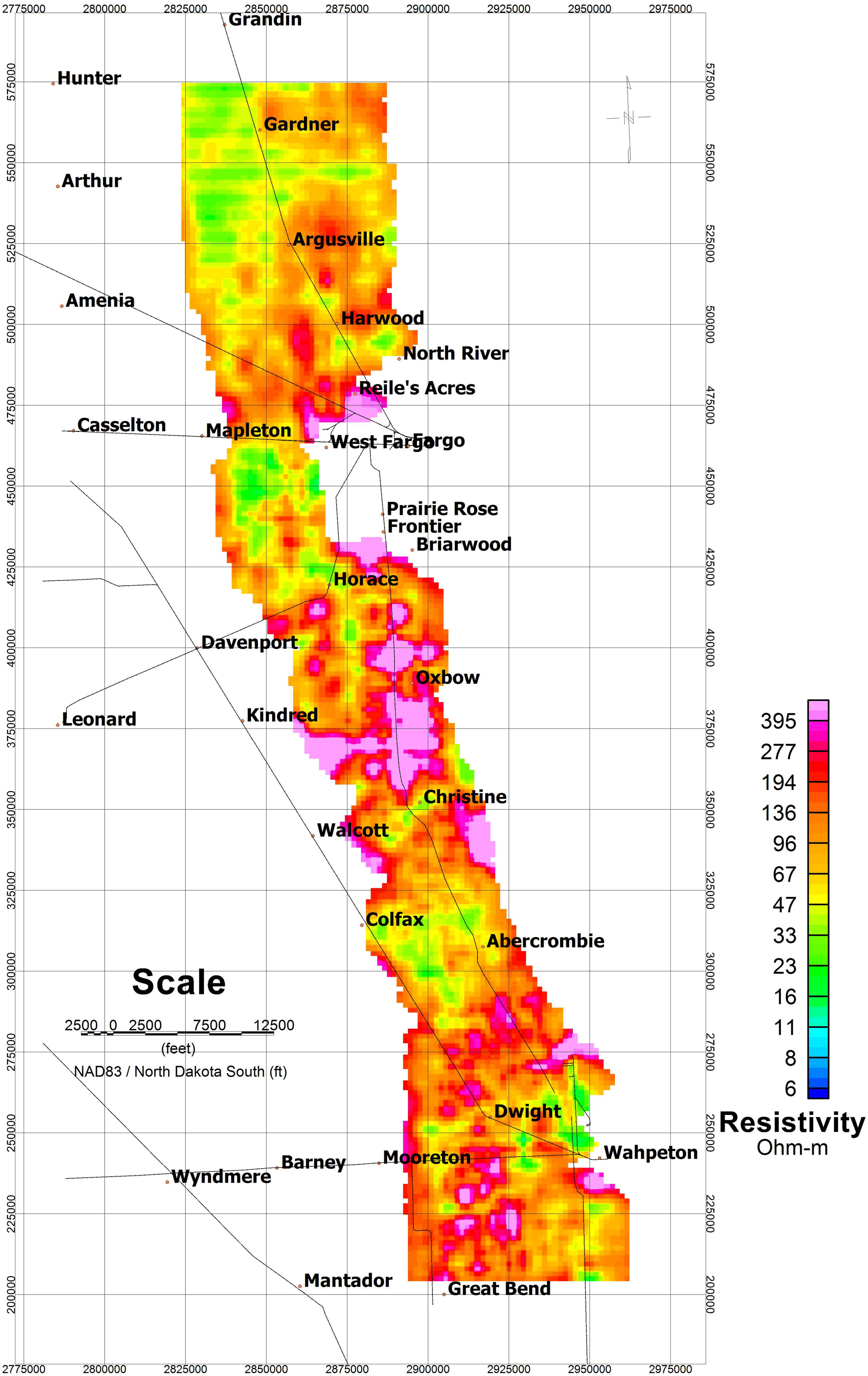
Resistivity Depth slice at 40 f



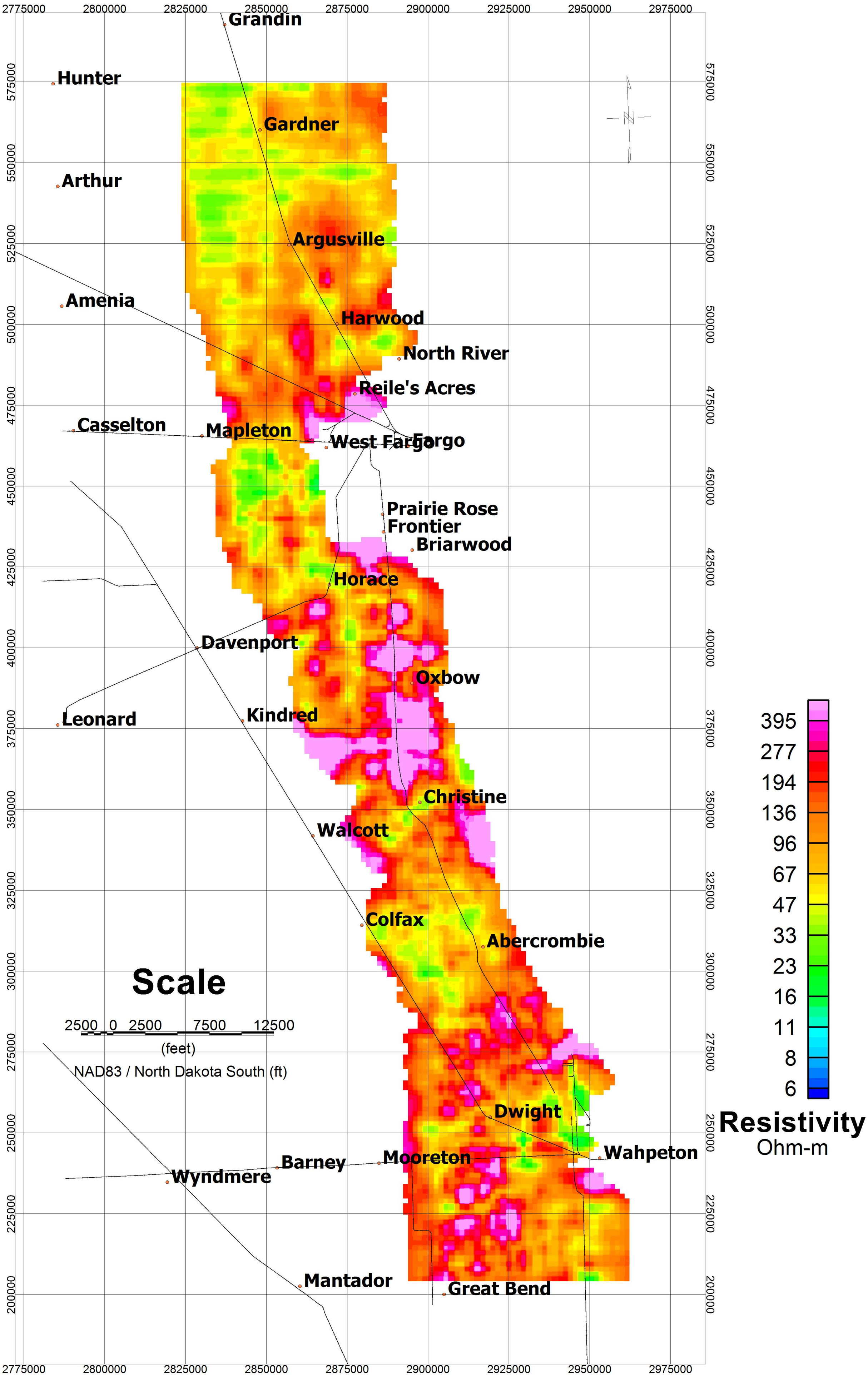
Resistivity Depth slice at 80 f



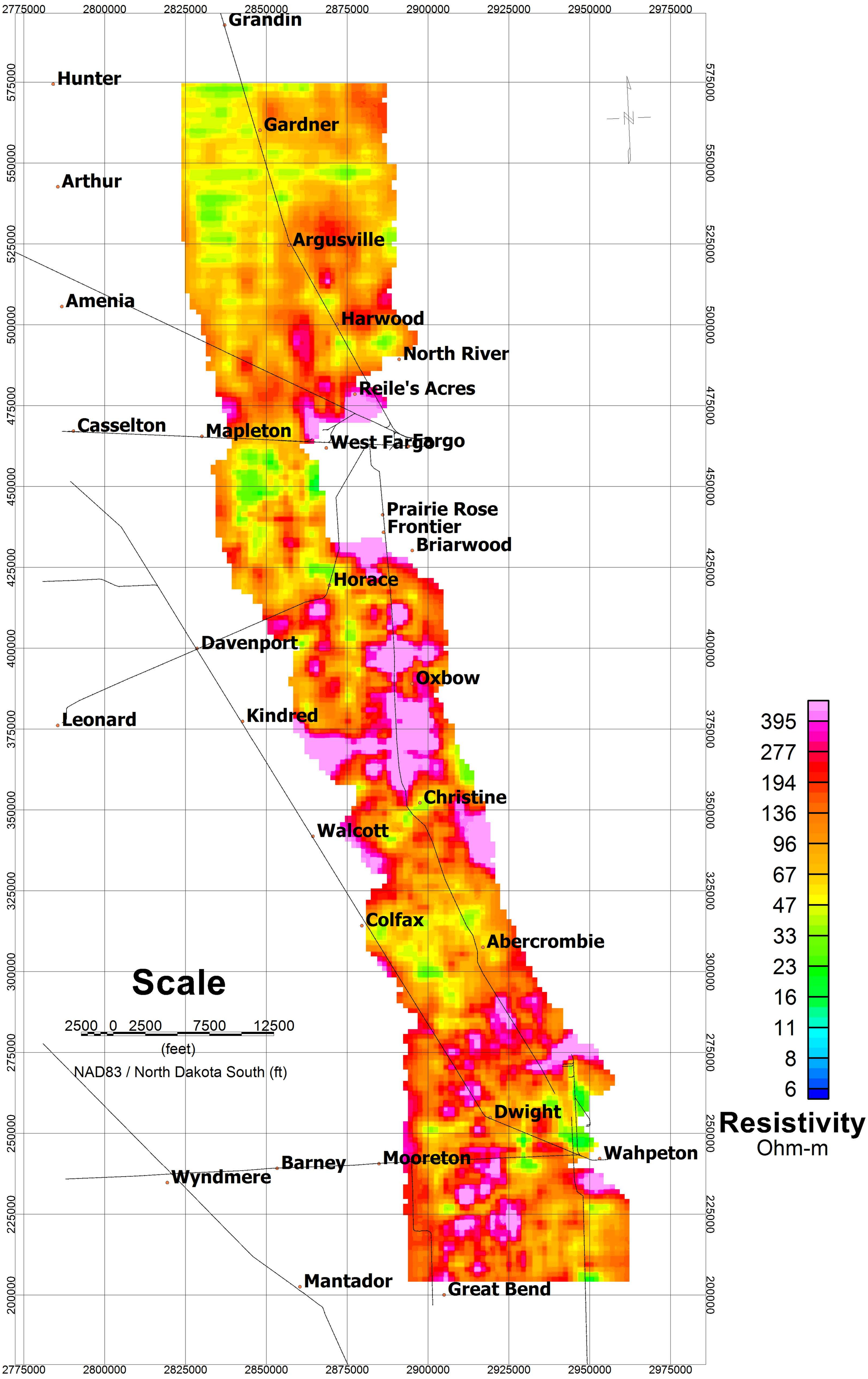
Resistivity Depth slice at 120 f



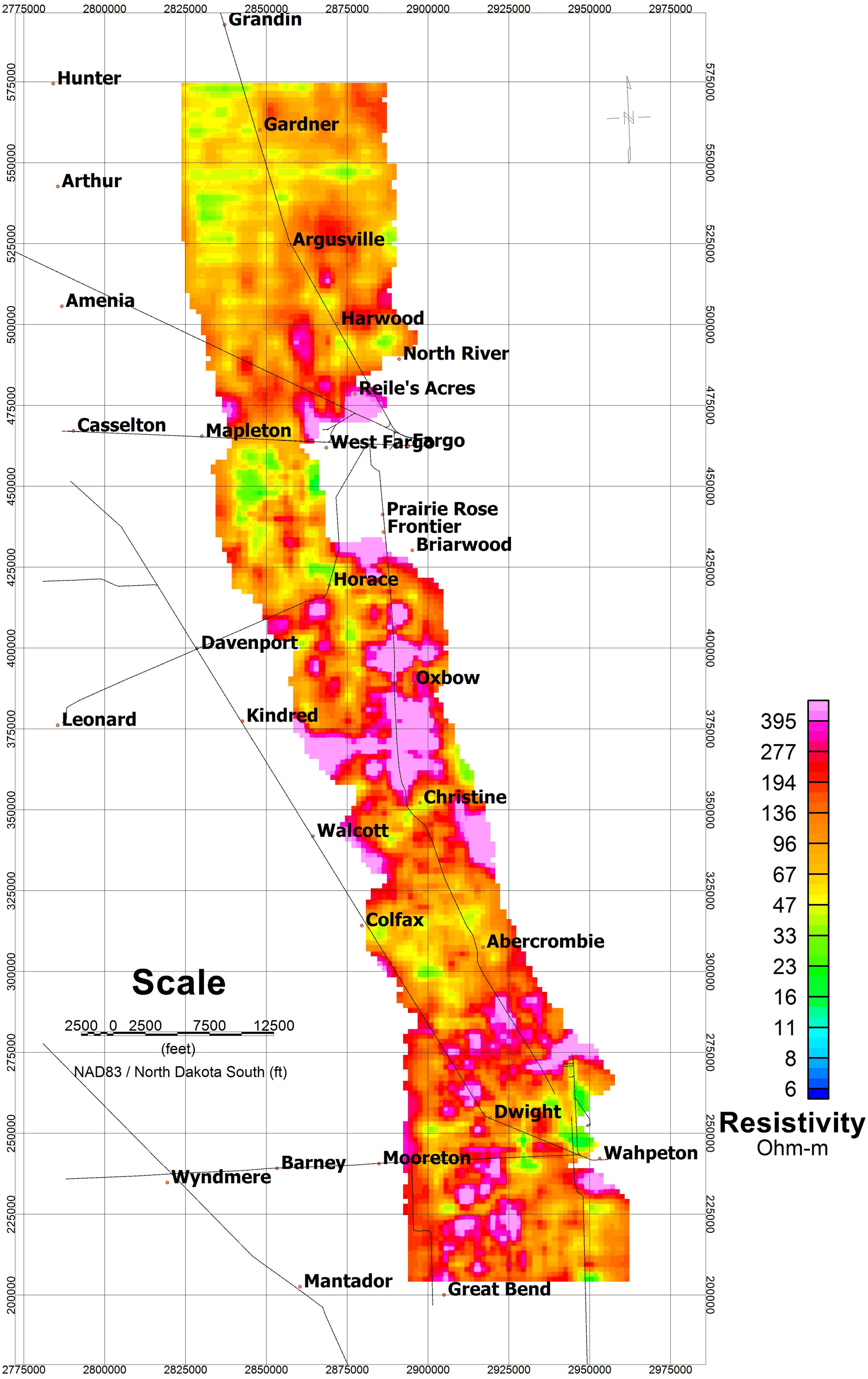
Resistivity Depth slice at 160 f



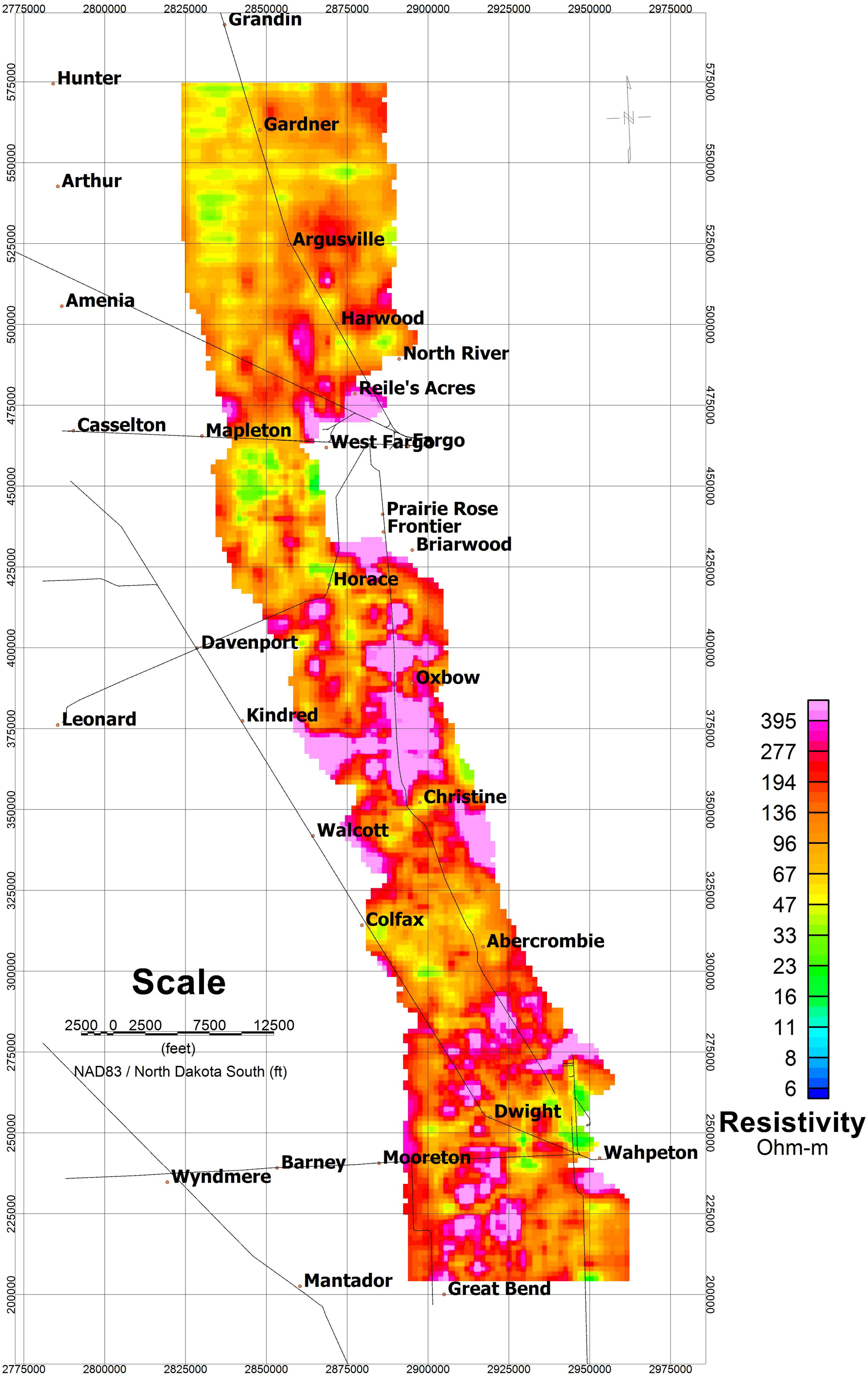
Resistivity Depth slice at 200 f



Resistivity Depth slice at 240 f



Resistivity Depth slice at 280 f


Grandin
Hunter
Gardner
Arthur
Argusville
Amenia
Harwood
North River
Reile's Acres
Casselton
Mapleton
West Fargo
Fargo
Prairie Rose
Frontier
Briarwood
Horace
Davenport
Oxbow
Leonard
Kindred
Christine
Walcott
Colfax
Abercrombie
Scale
2500 0 2500 7500 12500
(feet)
NAD83 / North Dakota South (ft)
Dwight
Wahpeton
Barney
Mooreton
Wyndmere
Mantador
Great Bend
395
277
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136
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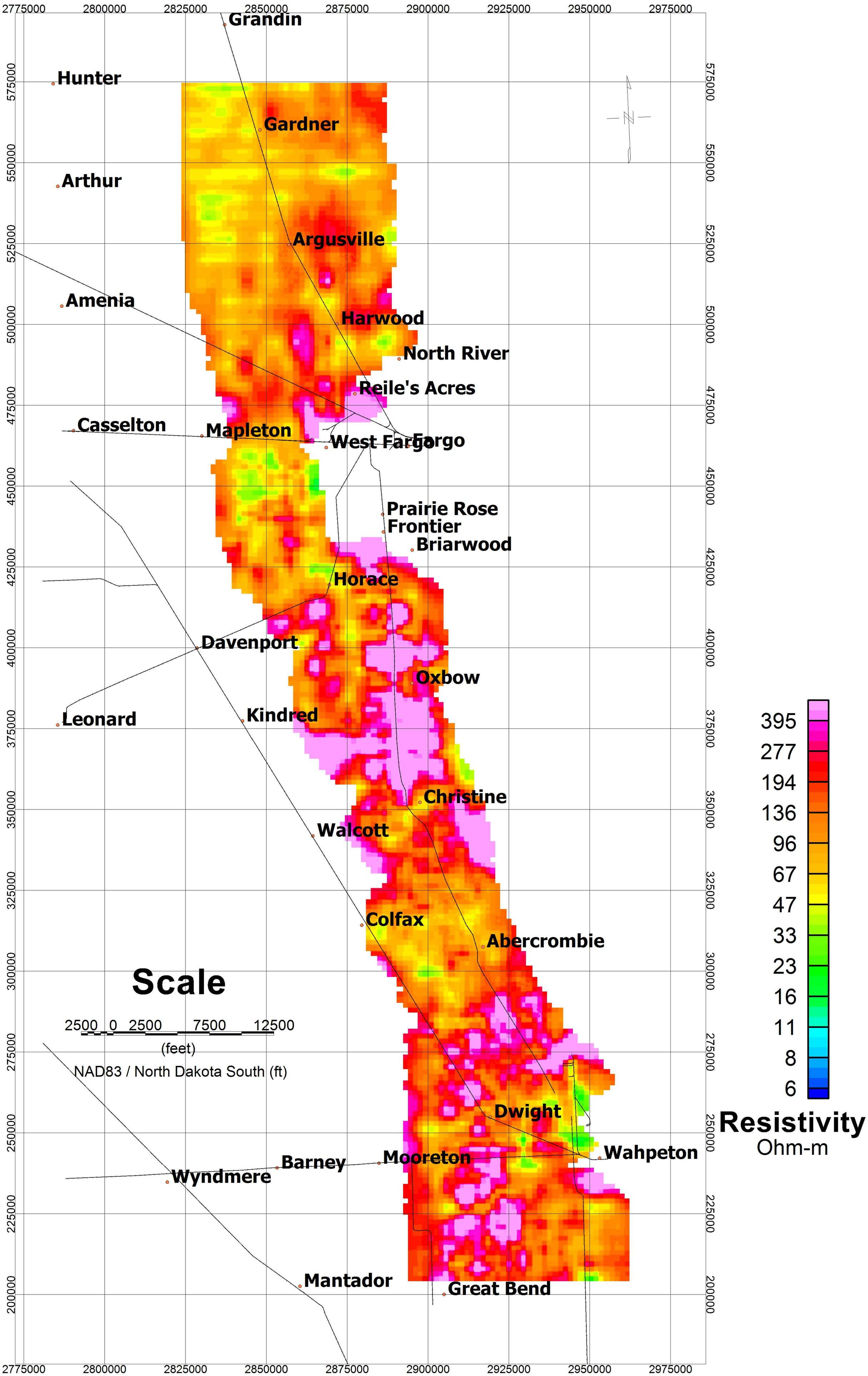
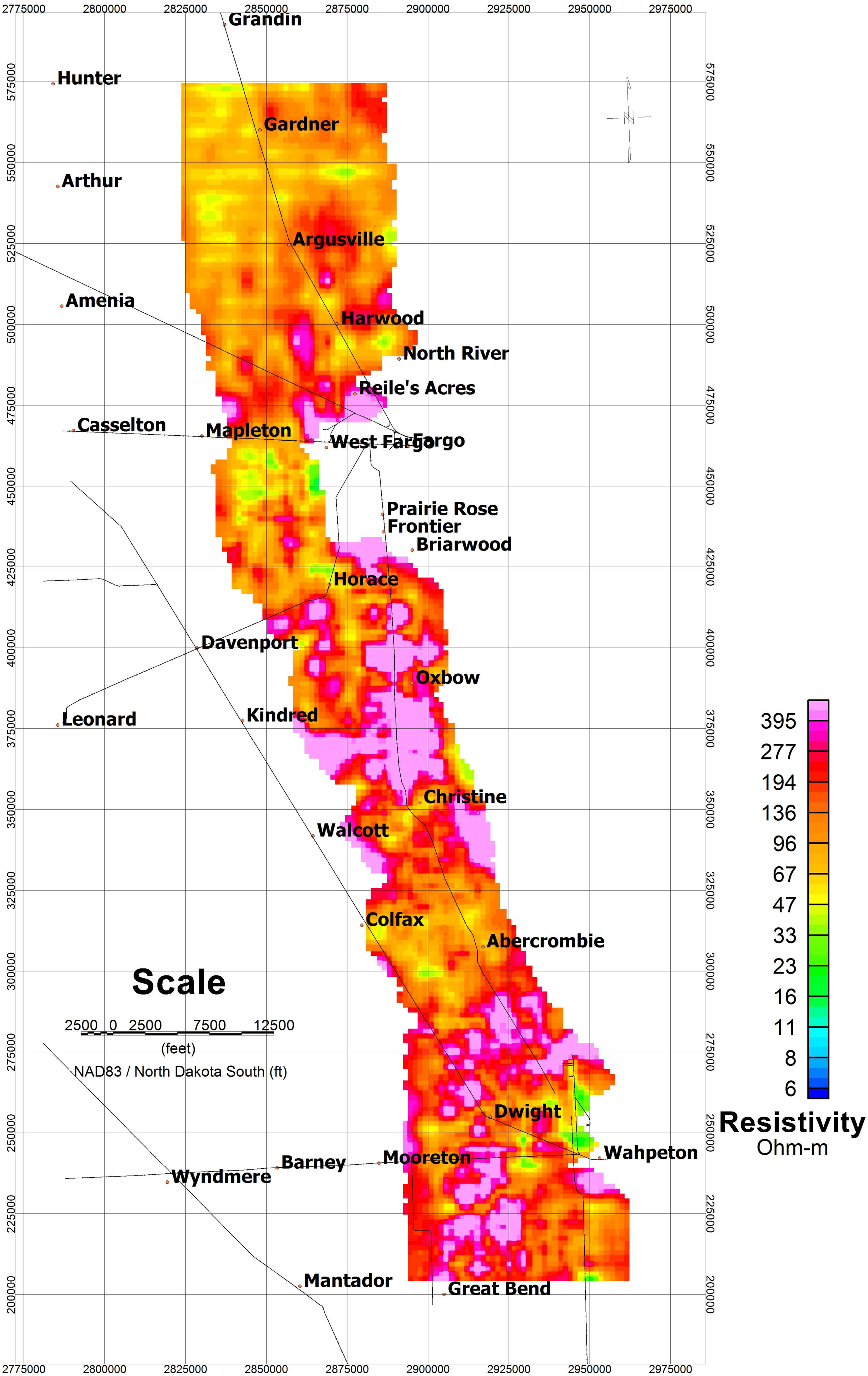
Resistivity
Ohm-m
Resistivity Depth slice at 320 f



Resistivity Depth slice at 360 f


Grandin
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Scale
2500 0 2500 7500 12500
(feet)
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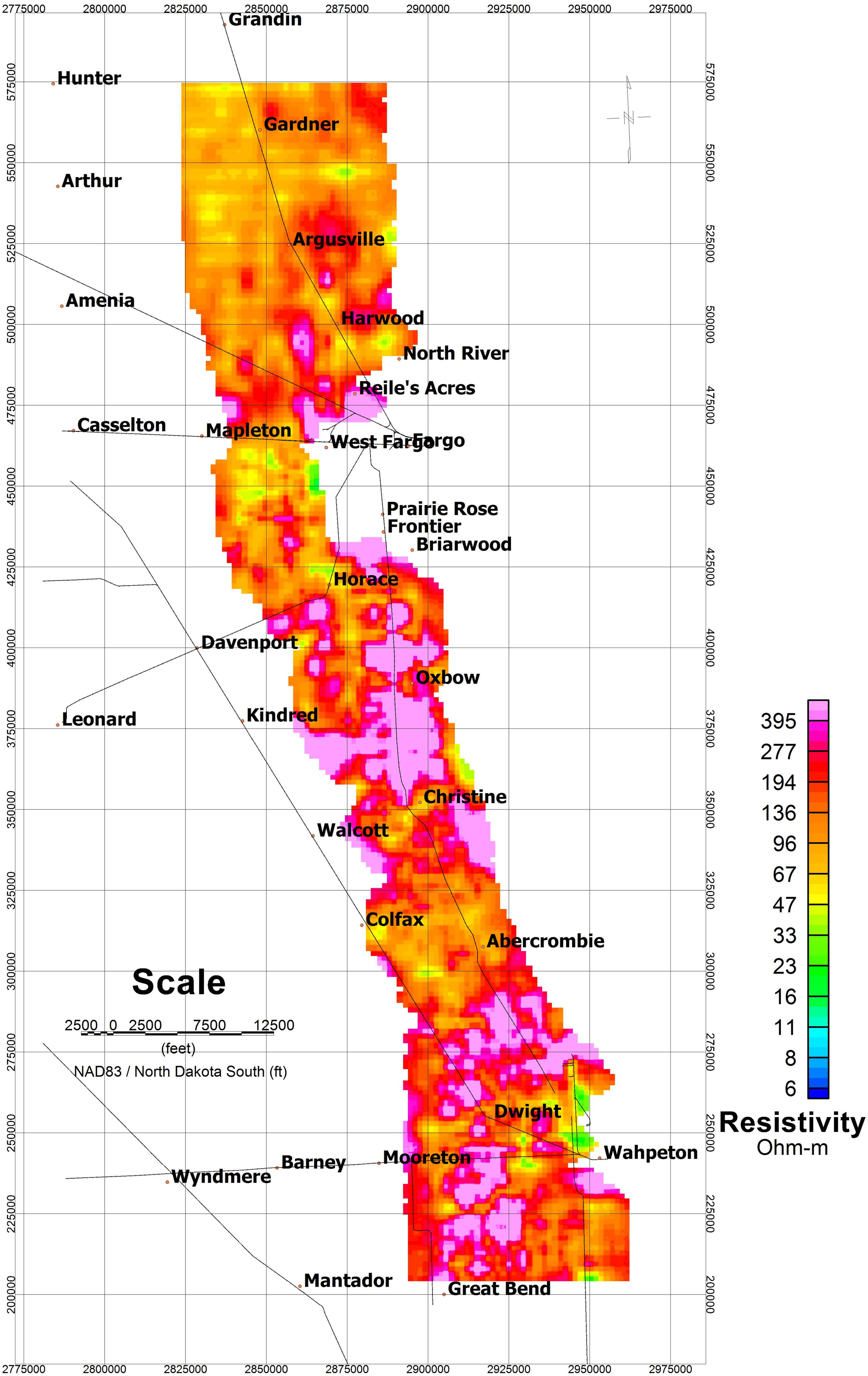
Resistivity
Ohm-m
Resistivity Depth slice at 400 f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Scale
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(feet)
NAD83 / North Dakota South (ft)
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Mooreton
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Mantador
Great Bend
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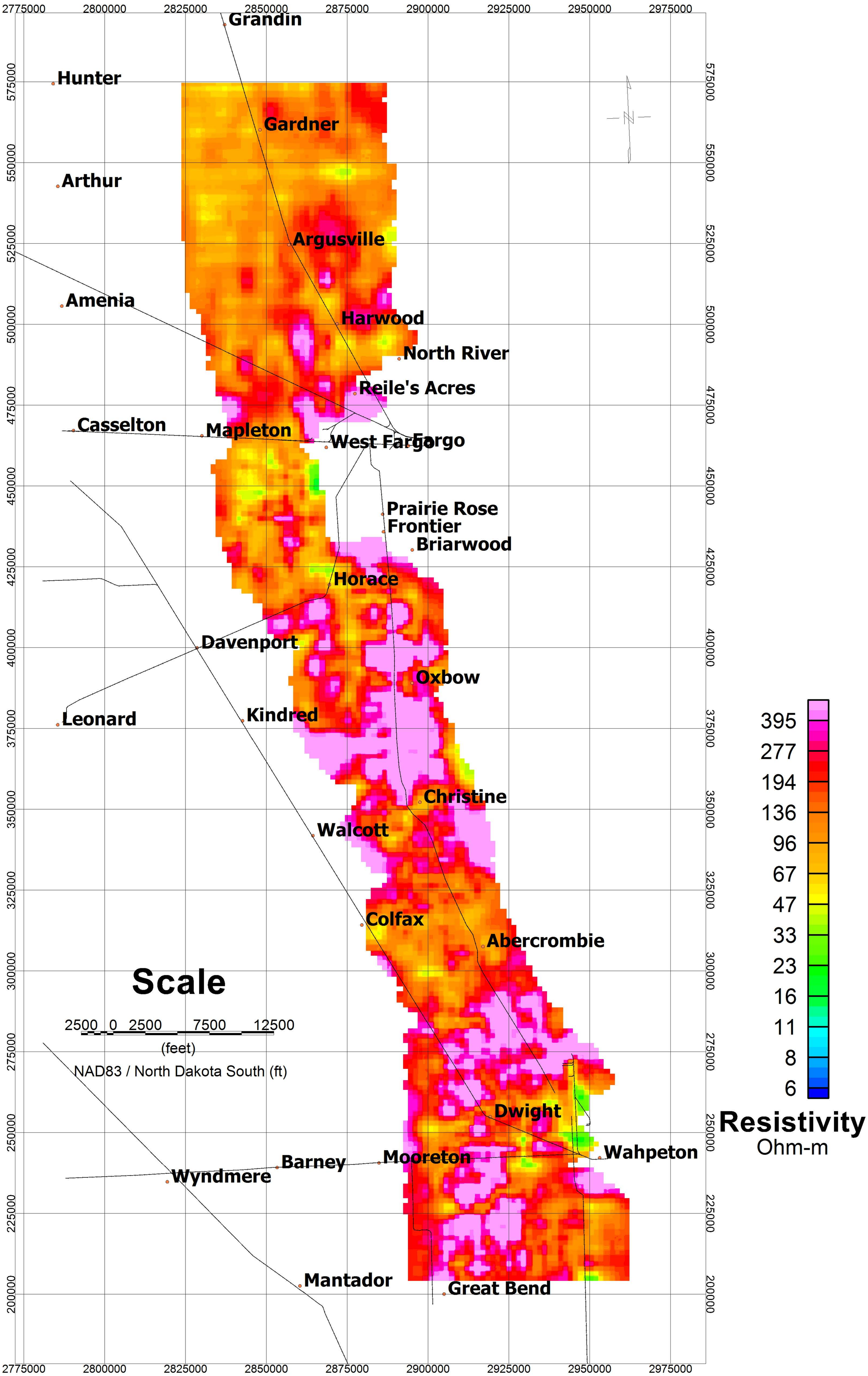
Resistivity
Ohm-m
Resistivity Depth slice at 440 f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Walcott
Colfax
Abercrombie
Scale
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(feet)
NAD83 / North Dakota South (ft)
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Mooreton
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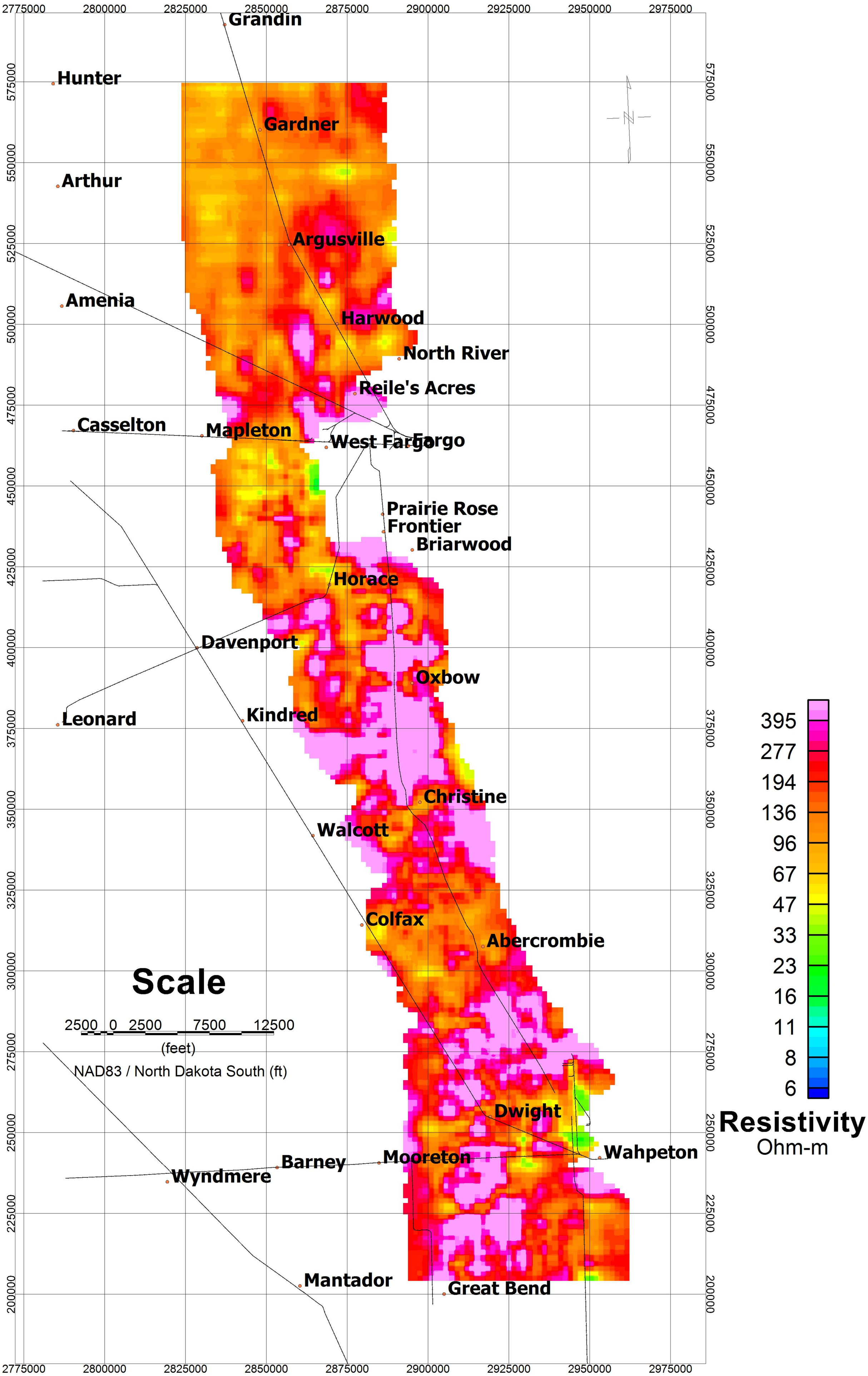
Resistivity
Ohm-m
Resistivity Depth slice at 480 f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Scale
2500 0 2500 7500 12500
(feet)
NAD83 / North Dakota South (ft)
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Mantador
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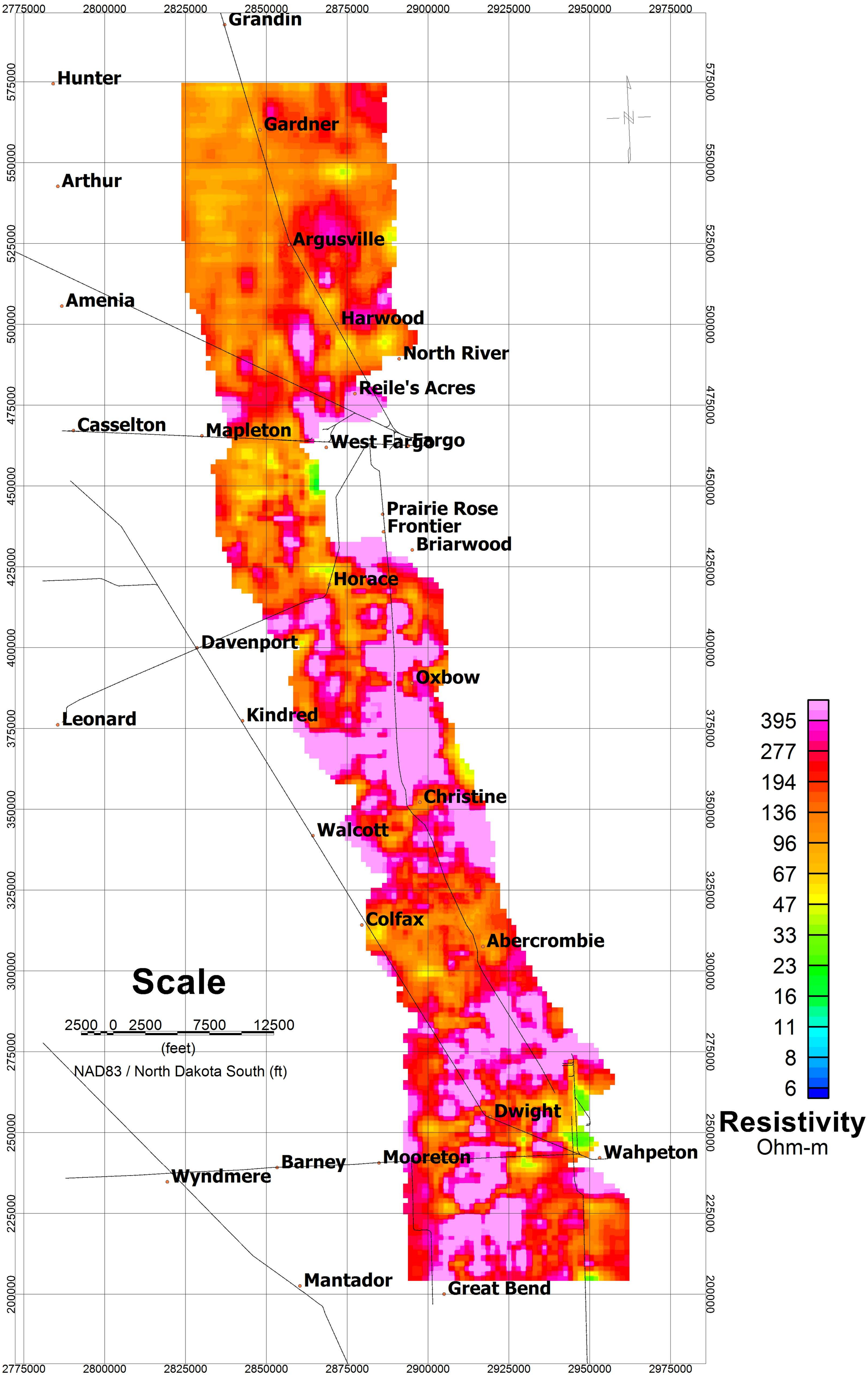
Resistivity
Ohm-m
Resistivity Depth slice at 520 f


Grandin
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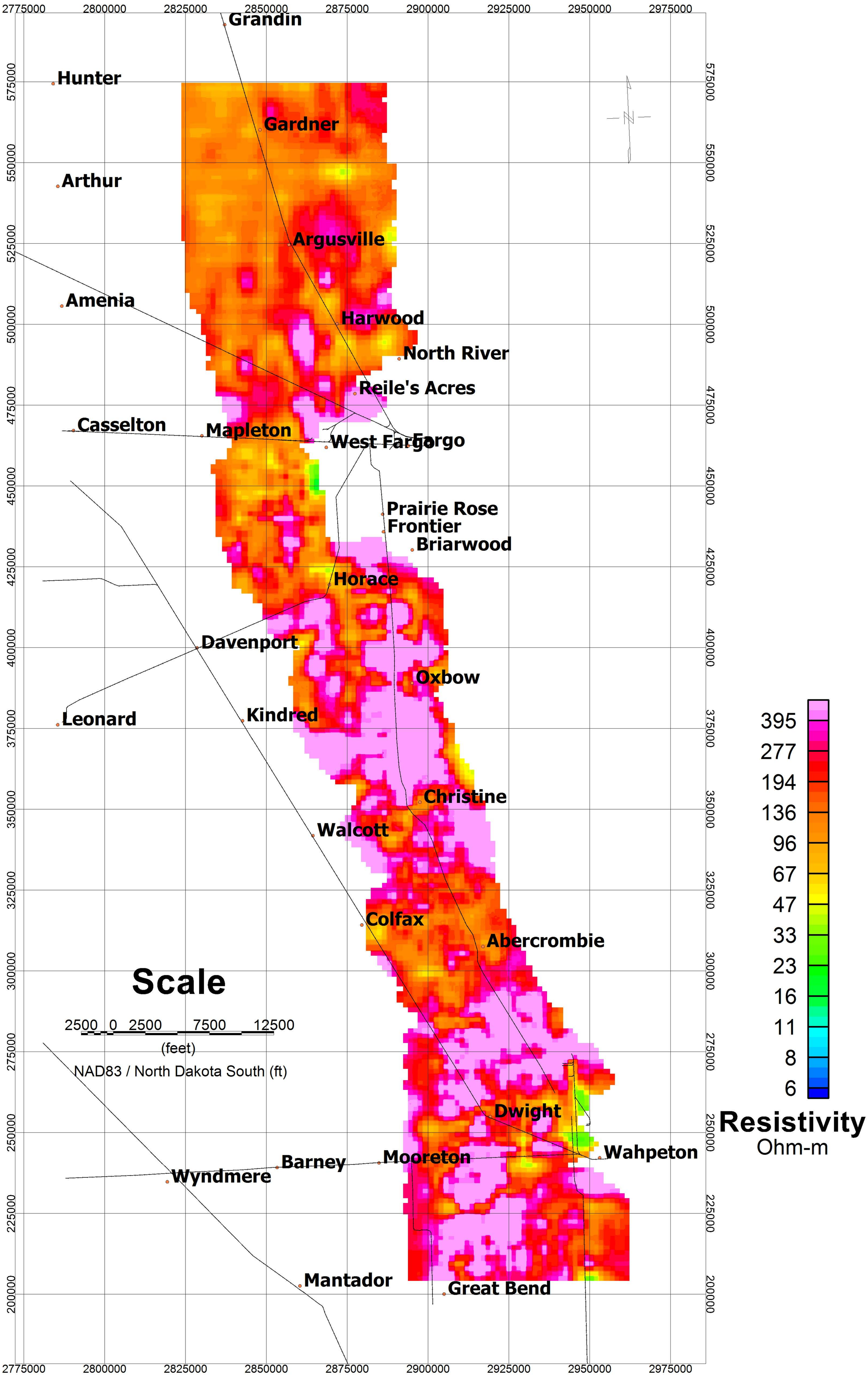
Colfax
Abercrombie
Scale
2500 0 2500 7500 12500
(feet)
NAD83 / North Dakota South (ft)
Dwight
Wahpeton
Barney
Mooreton
Wyndmere
Mantador
Great Bend
395
277
194
136
96
67
47
33
23
16
11
8
6
Resistivity
Ohm-m
Resistivity Depth slice at 560 f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Gardner
Arthur
Argusville
Amenia
Harwood
North River
Reile's Acres
Casselton
Mapleton
West Fargo
Fargo
Prairie Rose
Frontier
Briarwood
Horace
Davenport
Oxbow
Leonard
Kindred
Christine
Walcott
Colfax
Abercrombie
Scale
2500 0 2500 7500 12500
(feet)
NAD83 / North Dakota South (ft)
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Wahpeton
Barney
Mooreton
Wyndmere
Mantador
Great Bend
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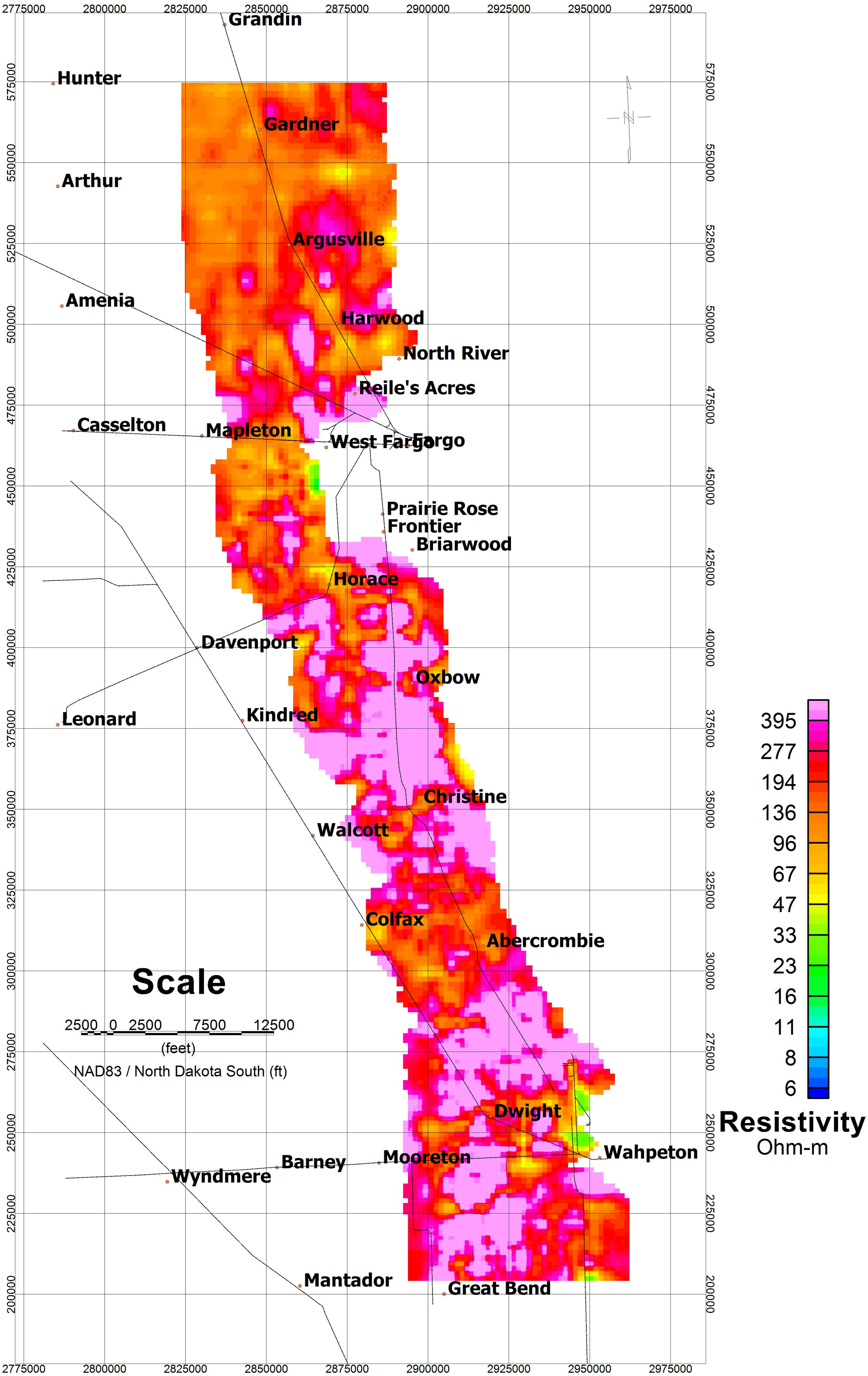
Resistivity
Ohm-m
Resistivity Depth slice at 600 f


Grandin
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Argusville
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Harwood
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Reile's Acres
Casselton
Mapleton
West Fargo
Fargo
Prairie Rose
Frontier
Briarwood
Horace
Davenport
Oxbow
Leonard
Kindred
Christine
Walcott
Colfax
Abercrombie
Scale
2500 0 2500 7500 12500
(feet)
NAD83 / North Dakota South (ft)
Dwight
Wahpeton
Barney
Mooreton
Wyndmere
Mantador
Great Bend
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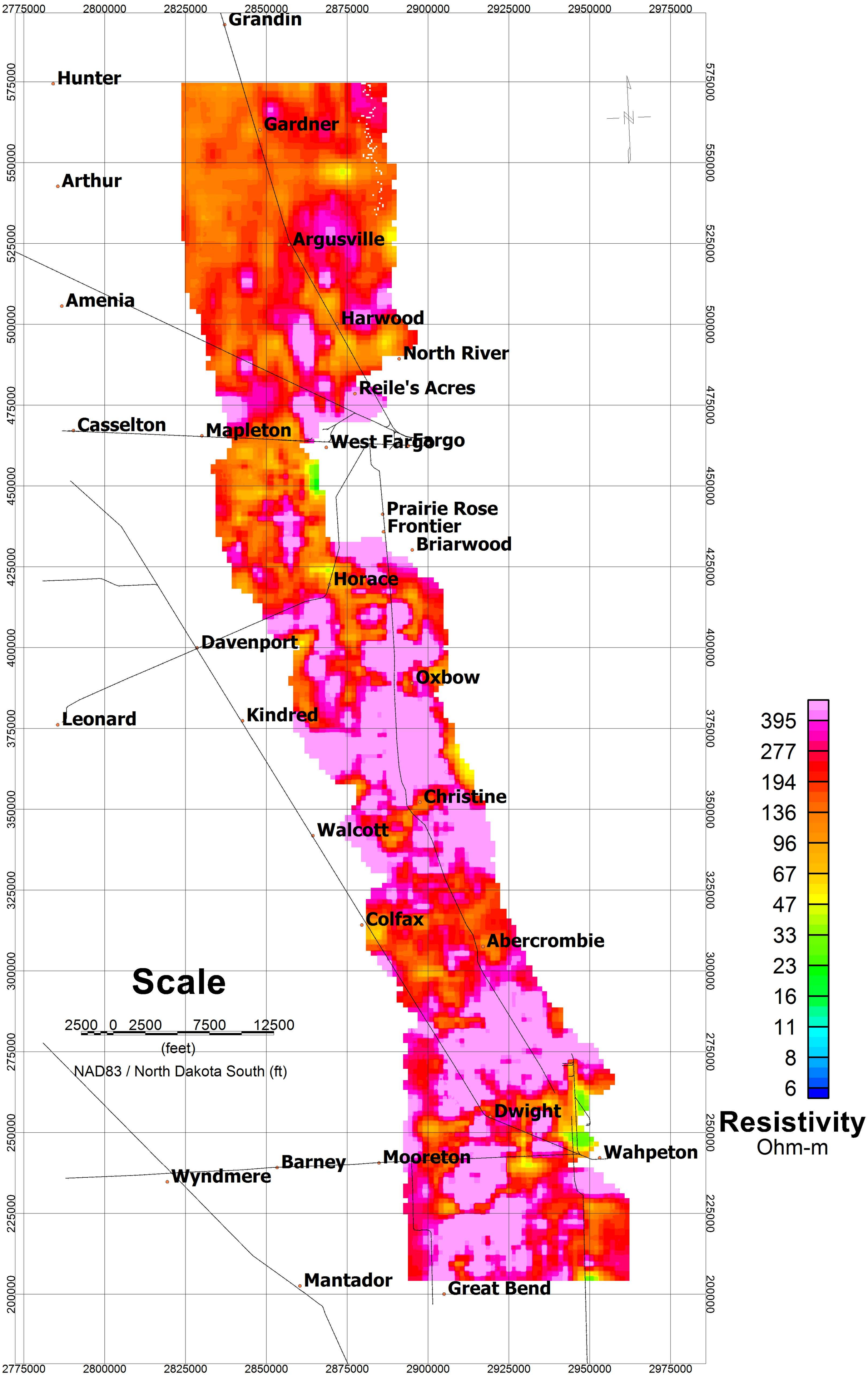
6
Resistivity
Ohm-m
Resistivity Depth slice at 640 f


Grandin
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Scale
2500 0 2500 7500 12500
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NAD83 / North Dakota South (ft)
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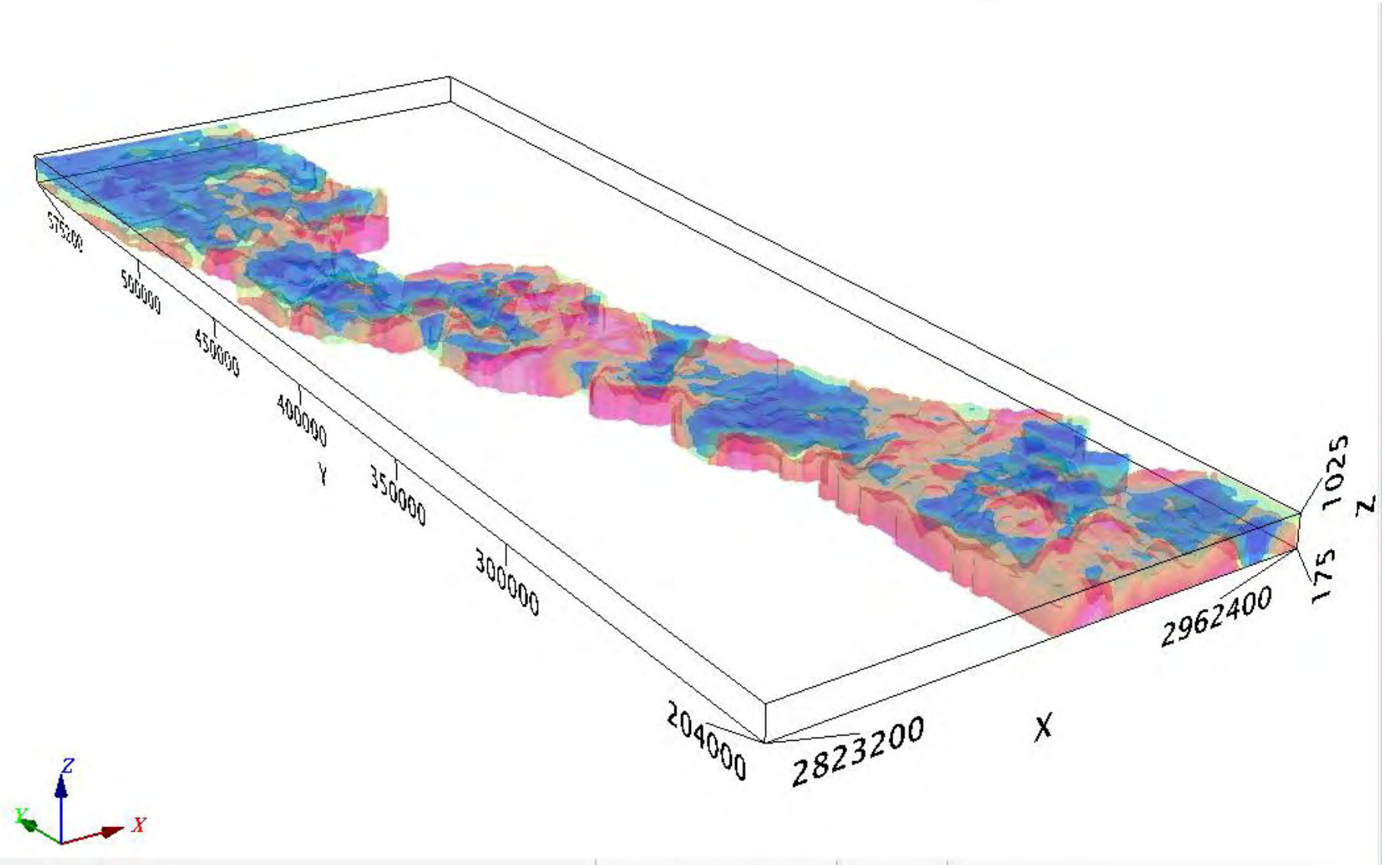
Resistivity
Ohm-m
Resistivity Depth slice at 680 f

Resistivity Voxel

A 3D view of the Resistivity voxel generated from the 1D inversion results with isosurfaces of <75 ohm-m (blue) and >150 ohm-m (red).


575000
500000
450000
400000
Y
350000
300000
204000
2823200
X
2962400
175
1025
Z
Z
Y
X