Appendix 1:

2D Profiles – 2019 Griggs Block Inverted AEM Resistivities

Page

A1-3 – A1-104 This document contains 2D Profiles of the 2019 Griggs AEM survey area.

Each page has a flight line map at the top and one profile section below which is the inverted resistivity, and text on the side describing the genesis of the profile.

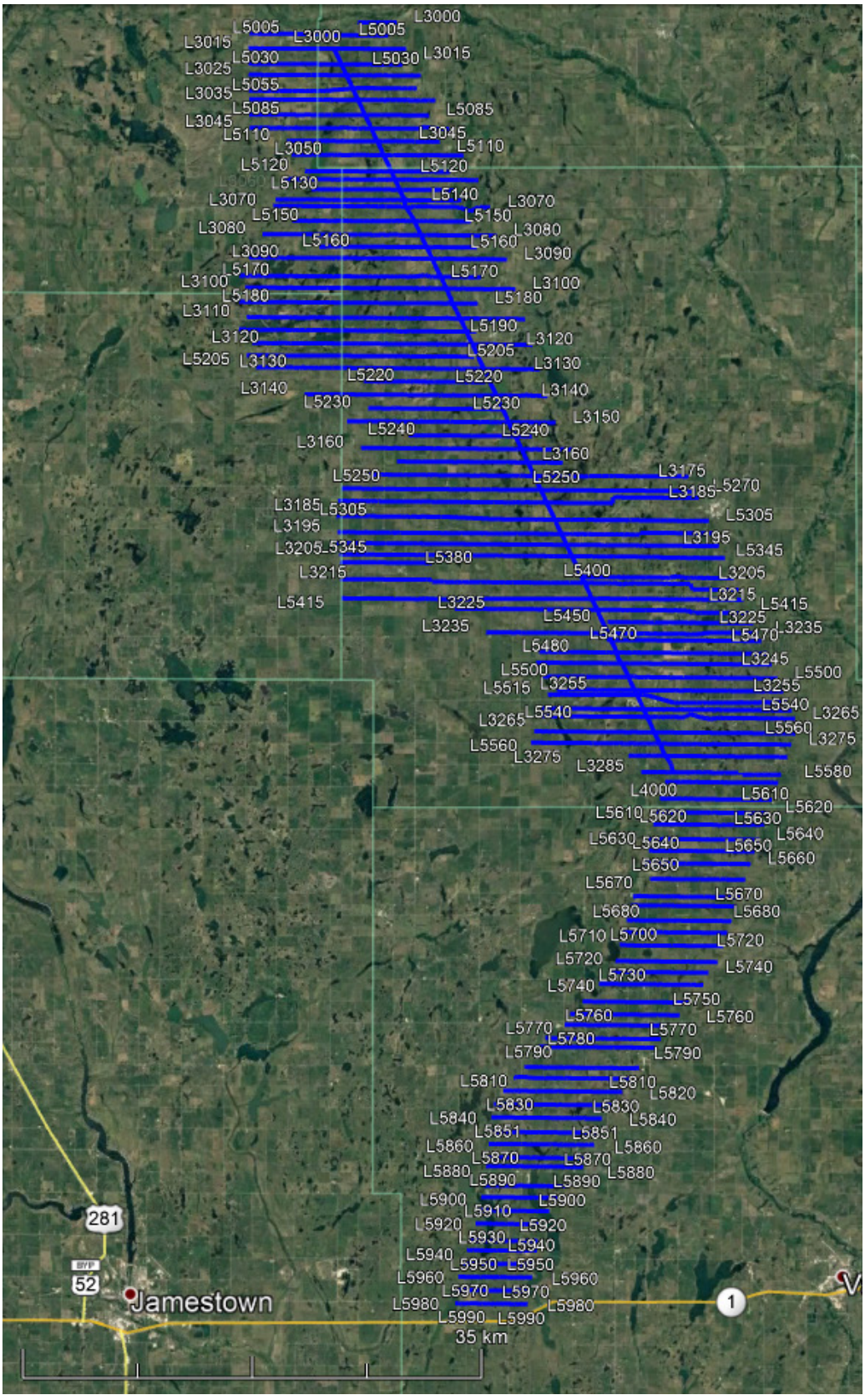
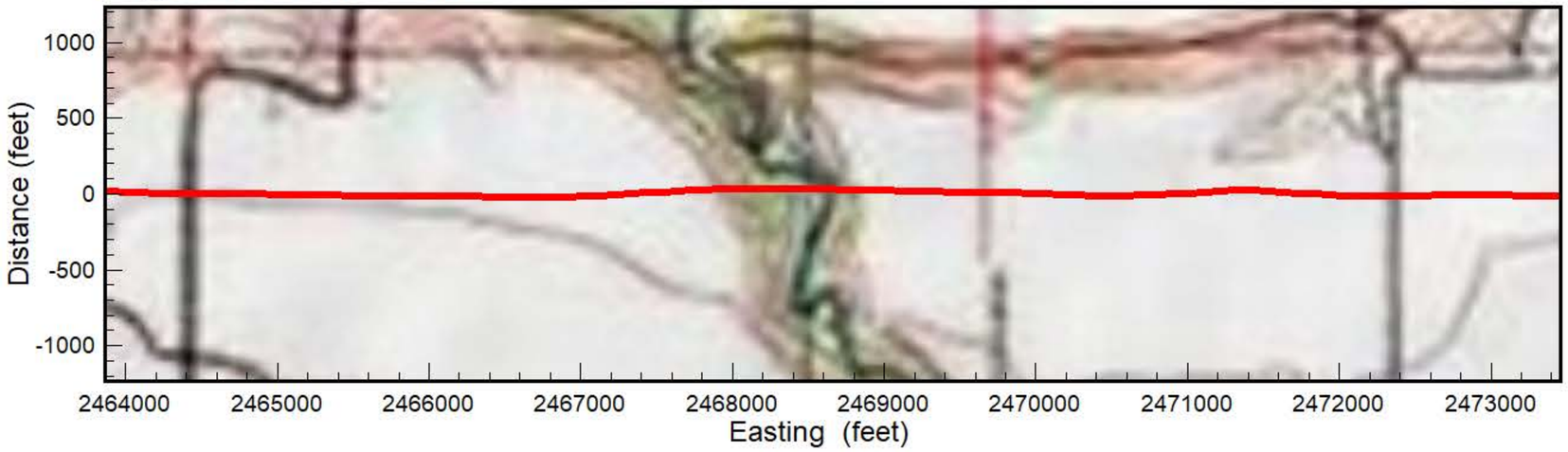
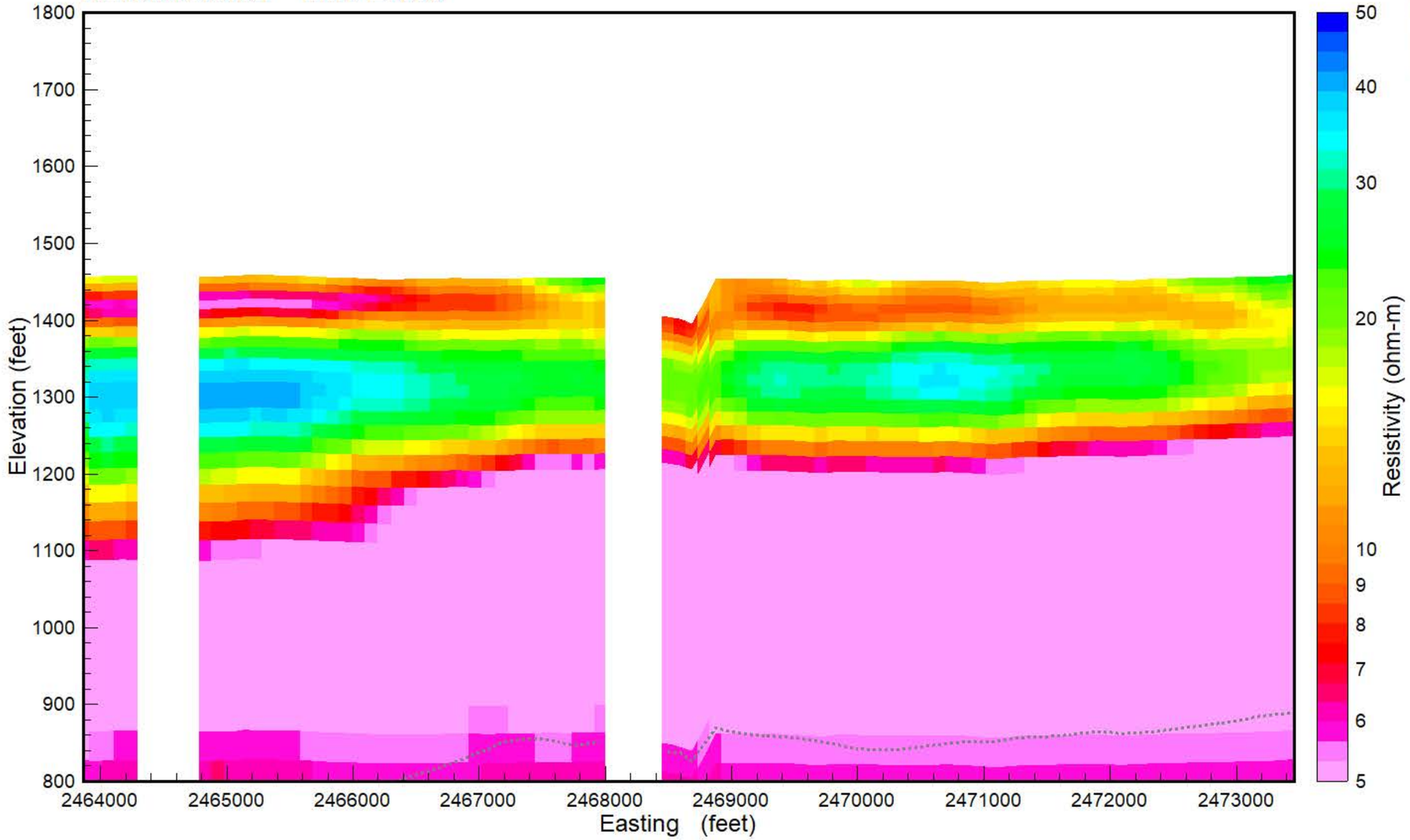


Figure A1-1. Map of the 2019 Griggs AEM survey with flight line labels in Google Earth.

Flight Path Line L3000

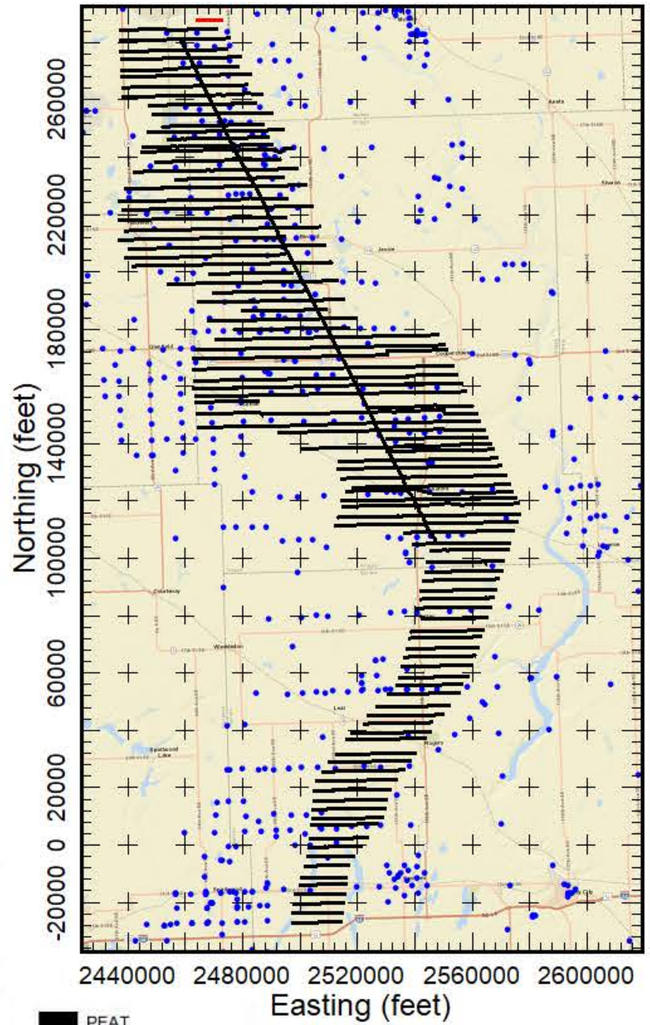


AEM Inversion Line L3000



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Be Legendary.

Flight Area Griggs



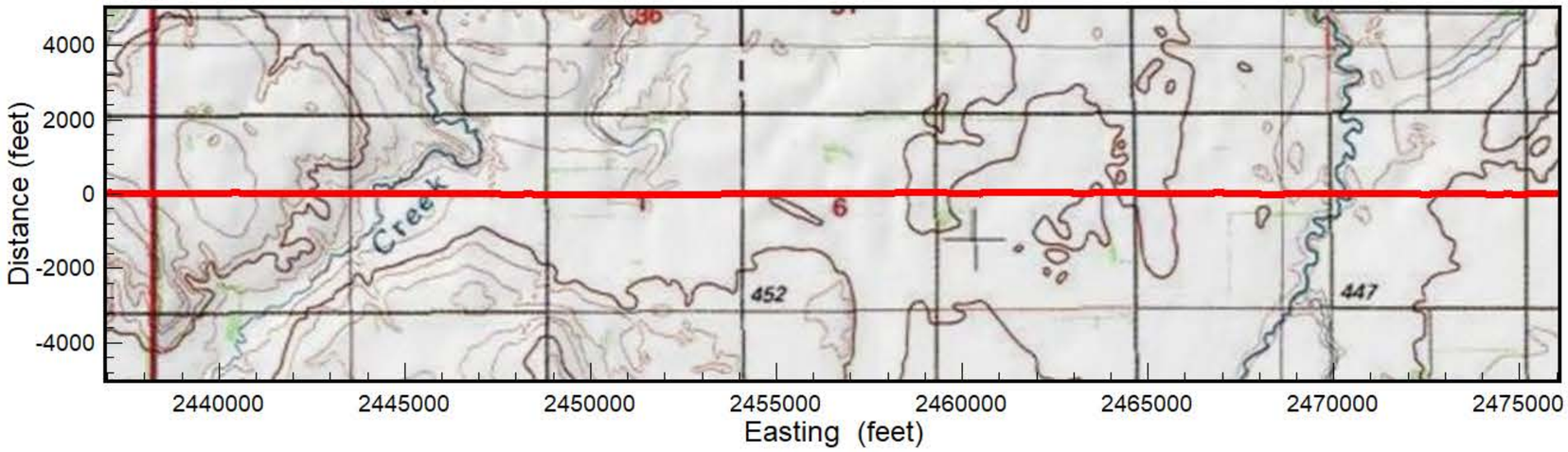
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

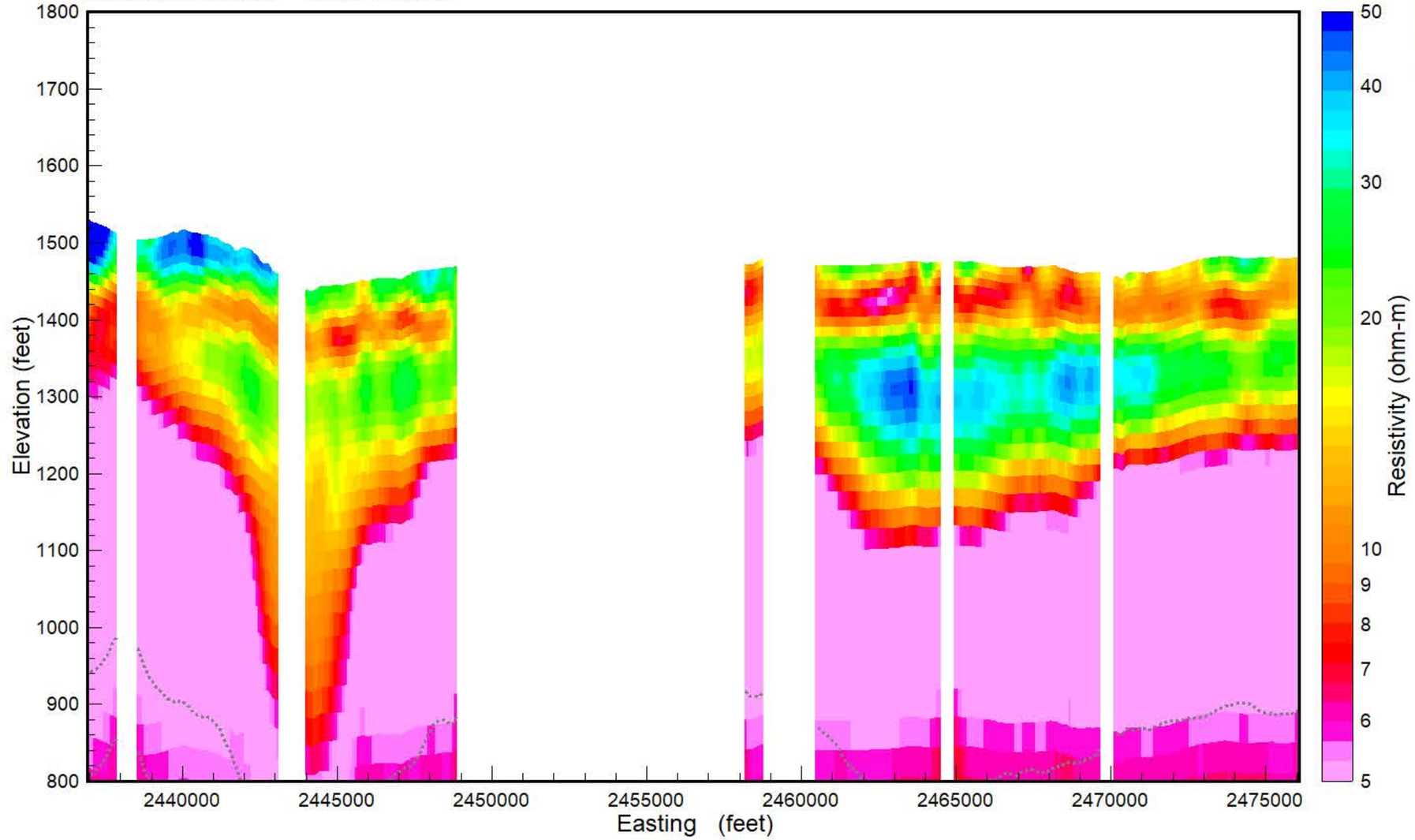
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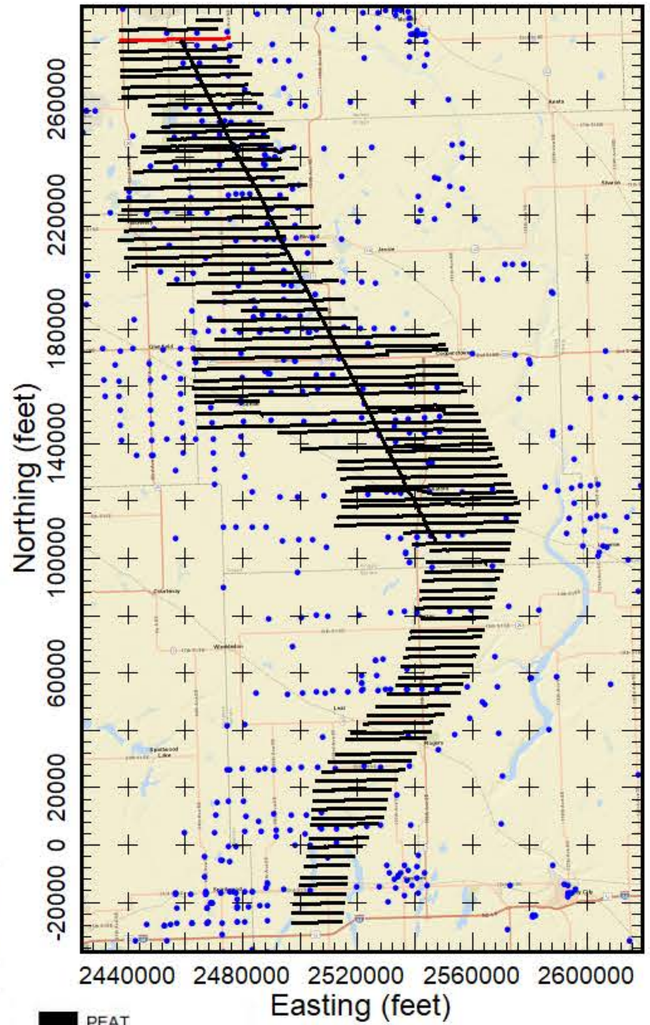


AEM Inversion Line L3015



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Flight Area Griggs

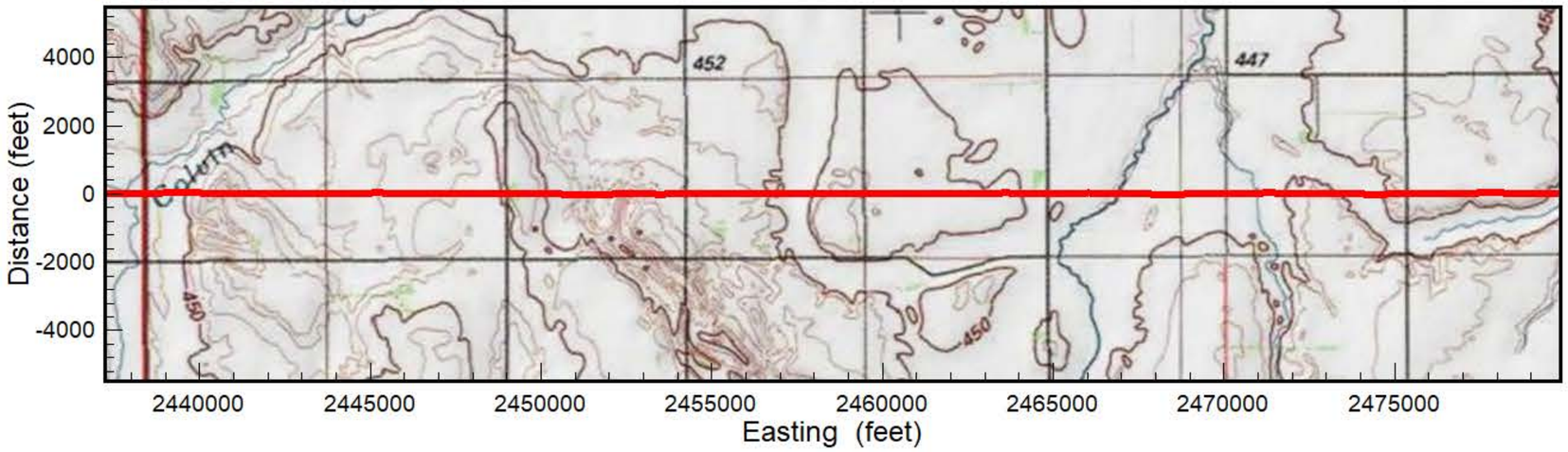


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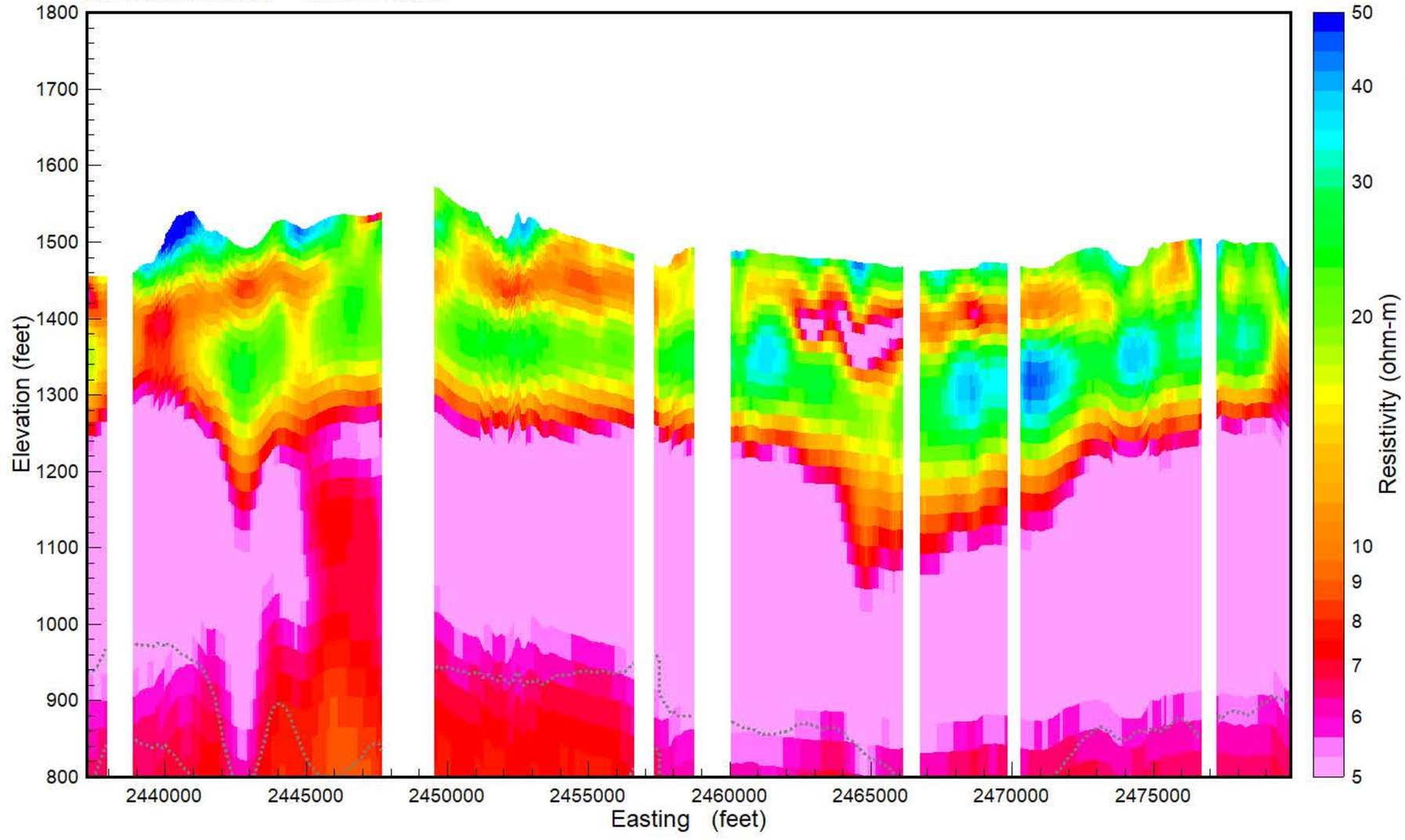
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Flight Path Line L3025

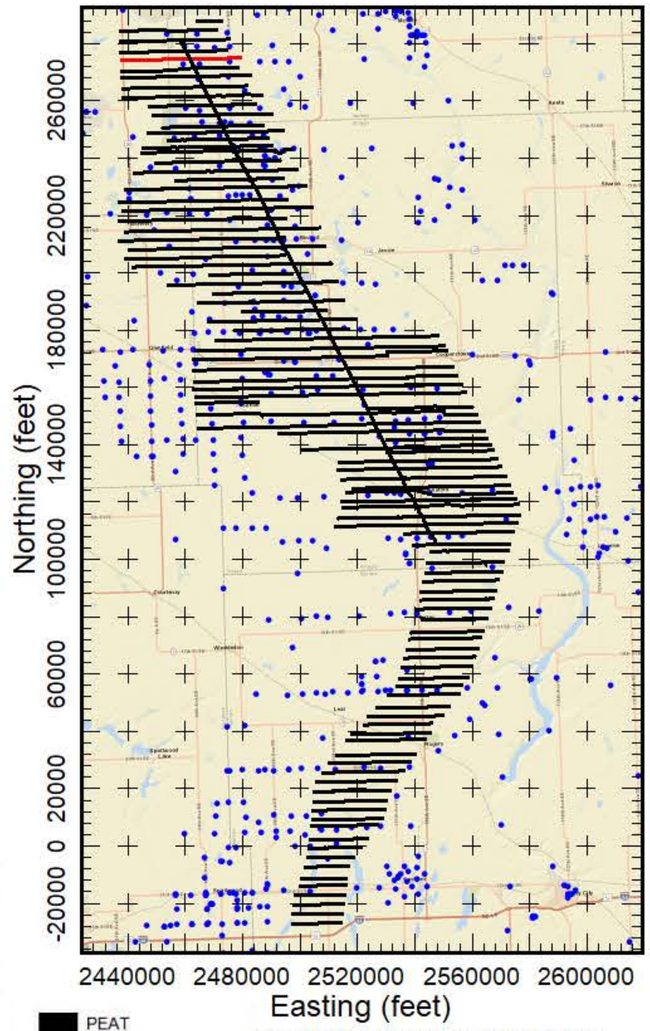


AEM Inversion Line L3025



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Flight Area Griggs



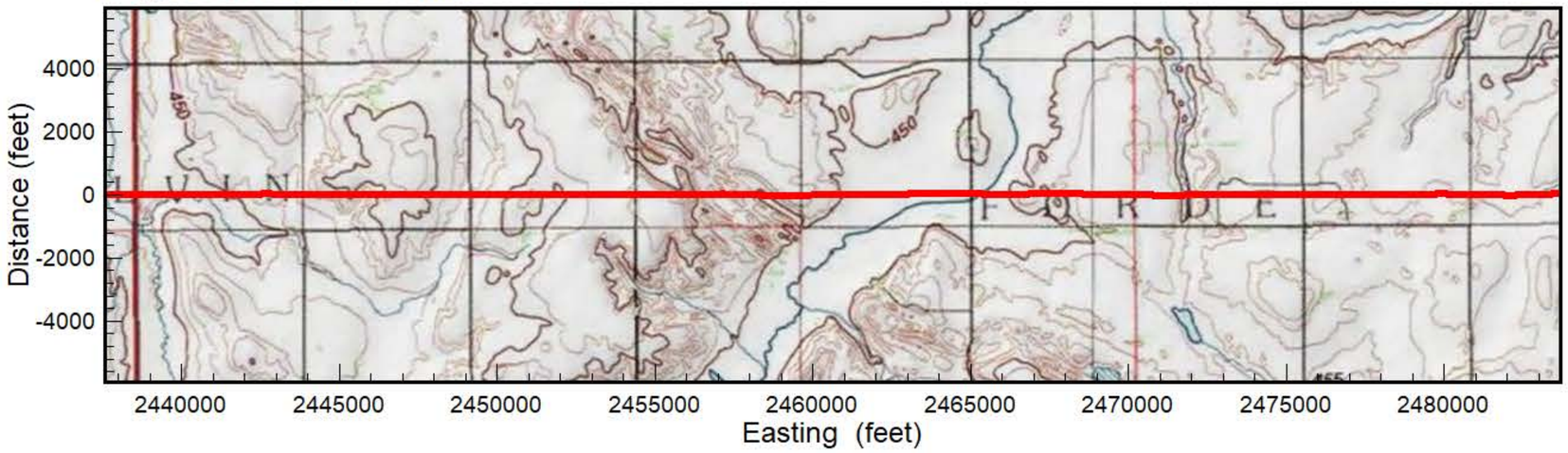
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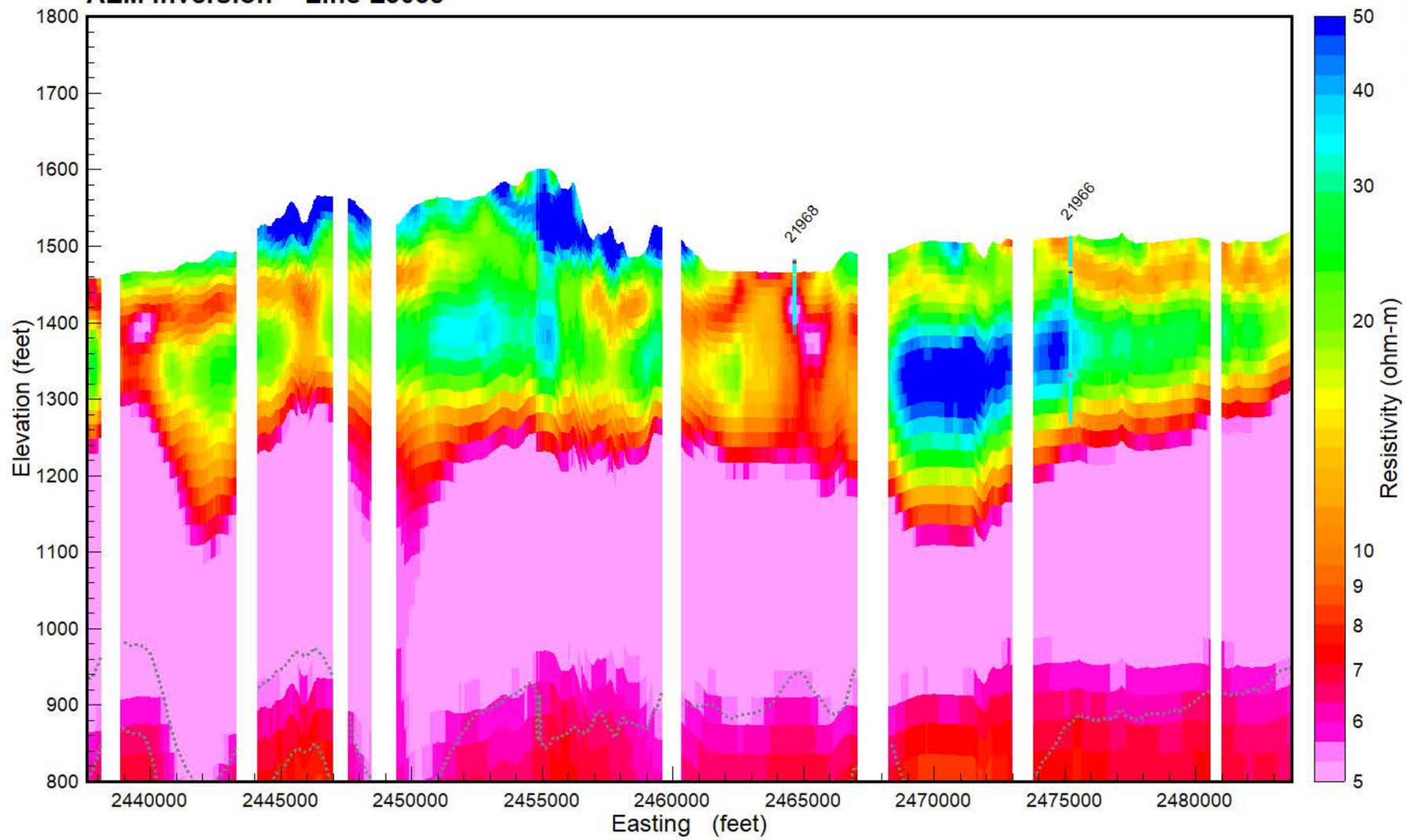
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Flight Path Line L3035

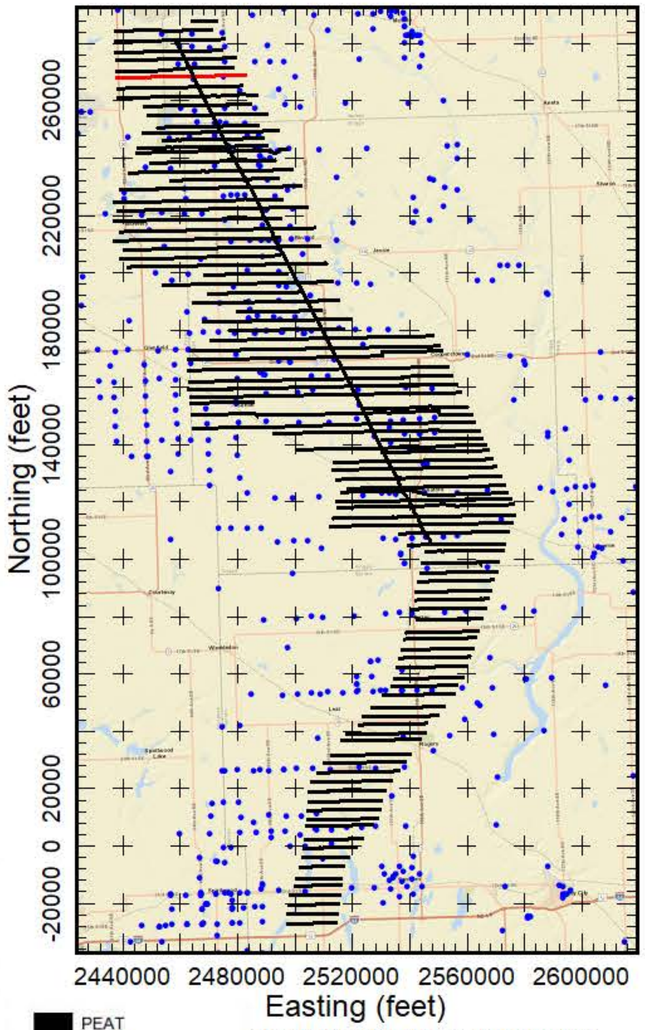


AEM Inversion Line L3035



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Flight Area Griggs

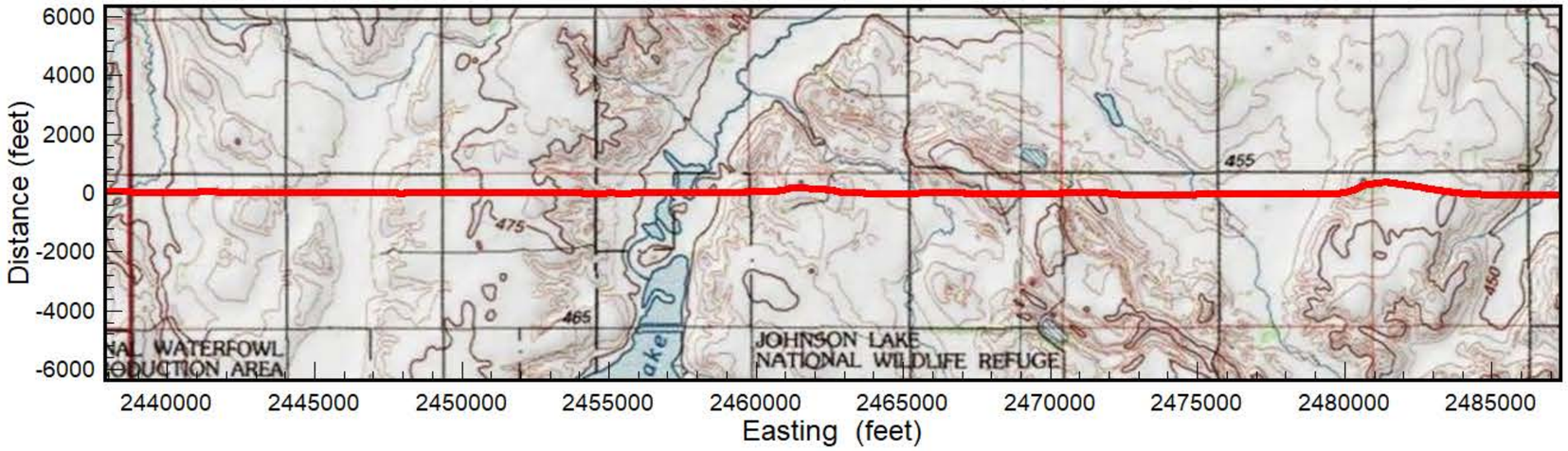


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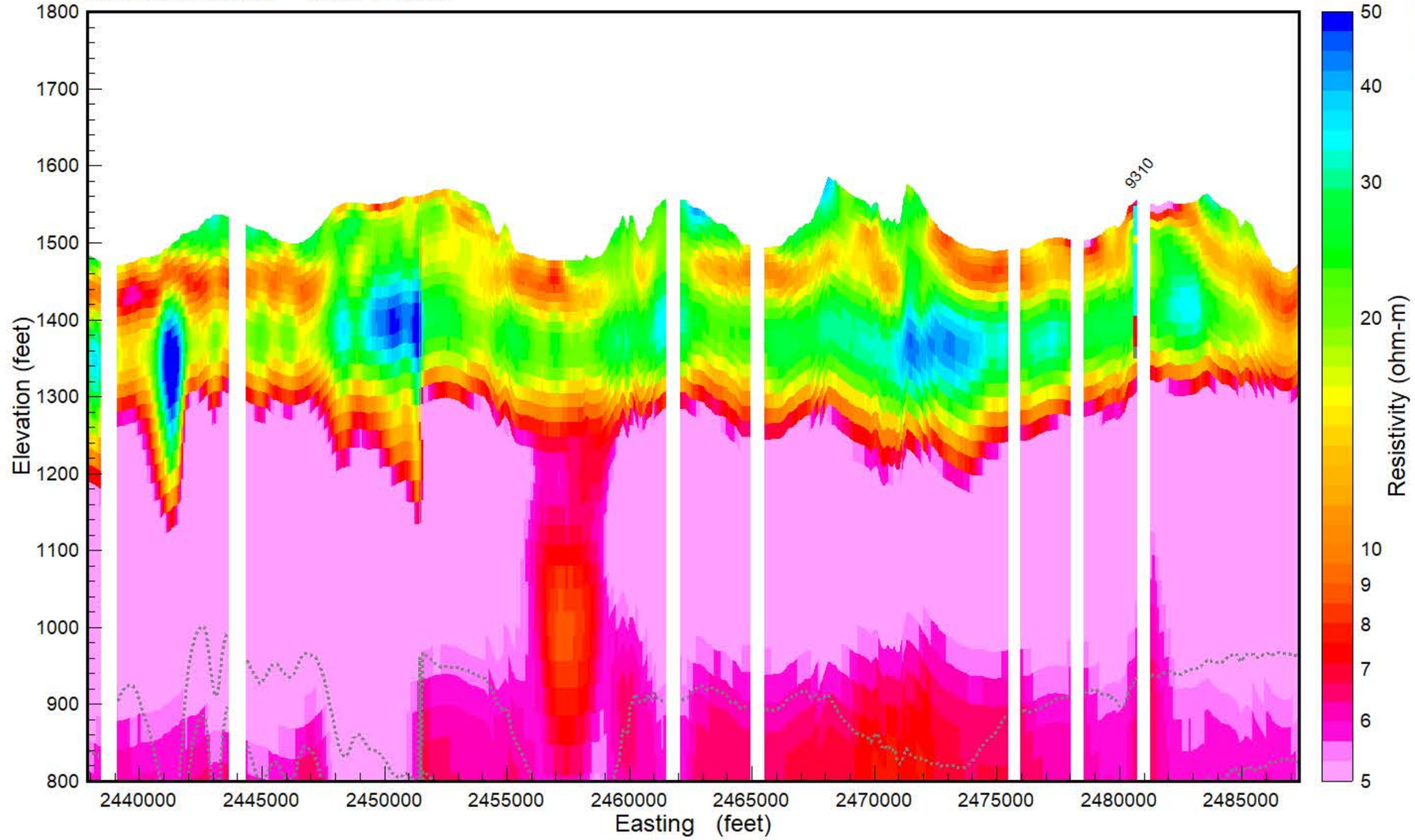
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Flight Path Line L3045

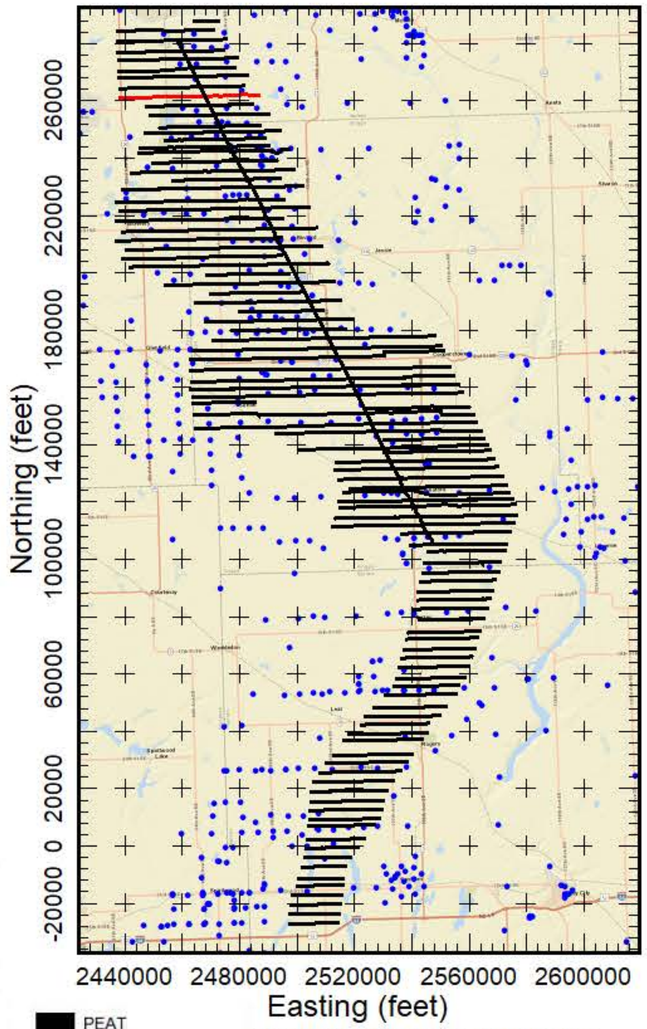


AEM Inversion Line L3045



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Flight Area Griggs

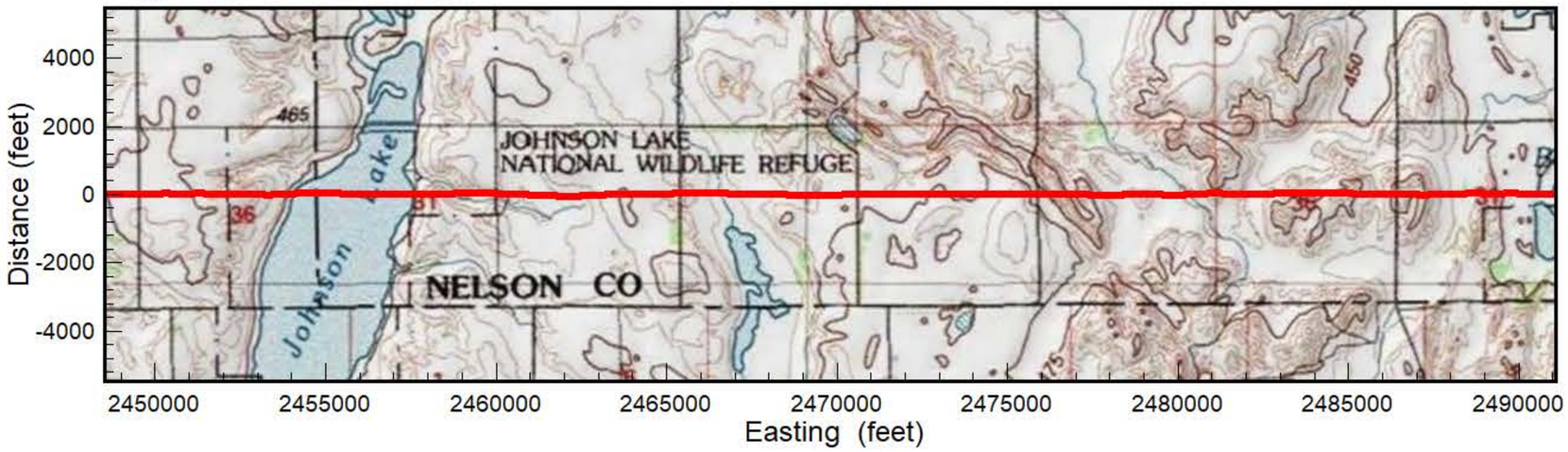


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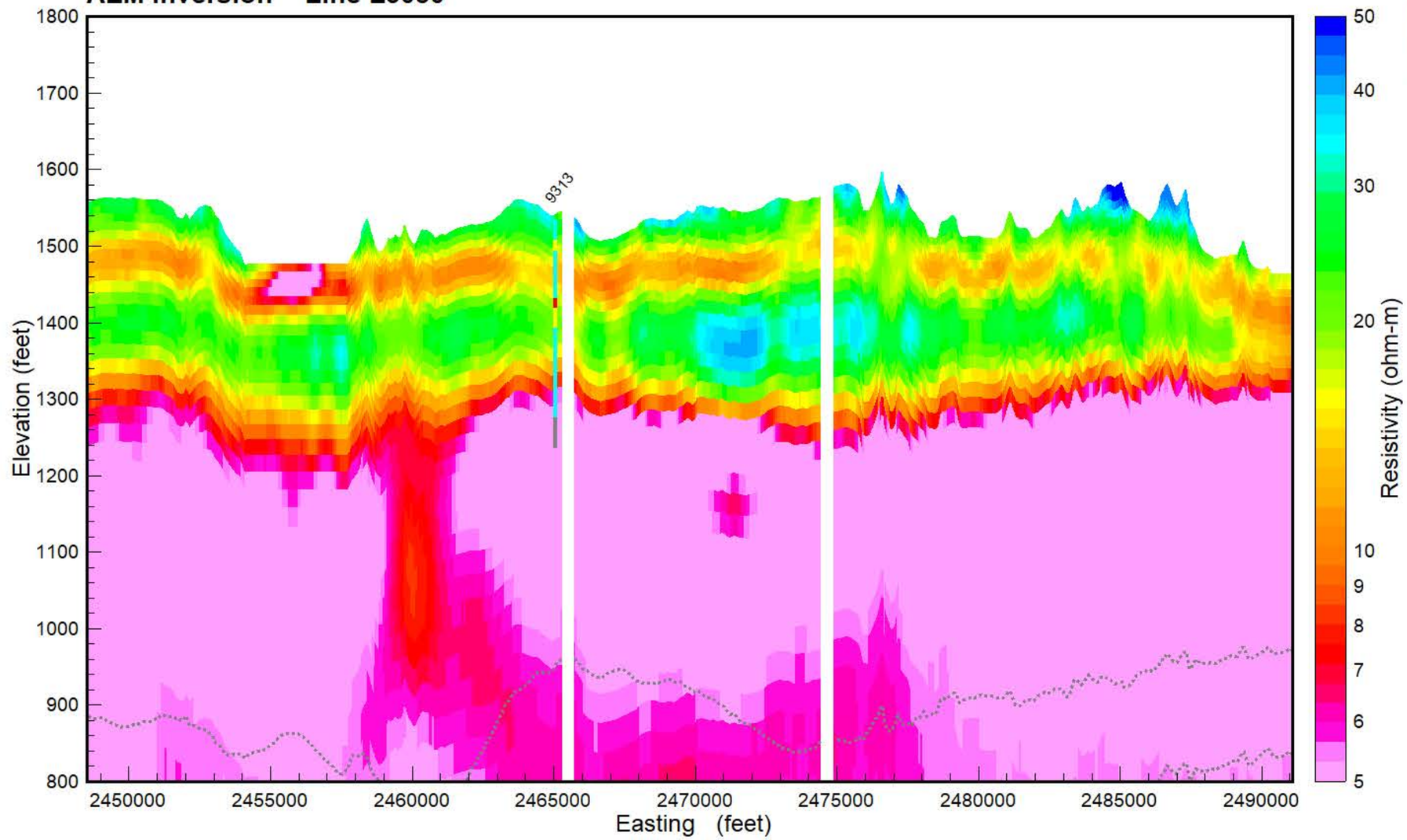
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Flight Path Line L3050

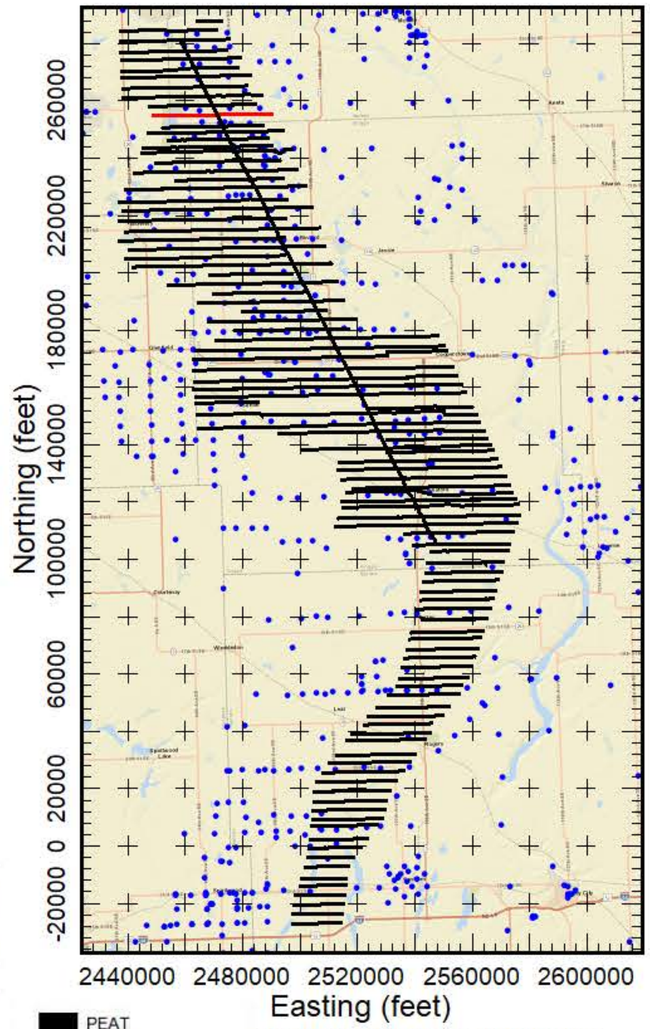


AEM Inversion Line L3050



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Be Legendary.

Flight Area Griggs

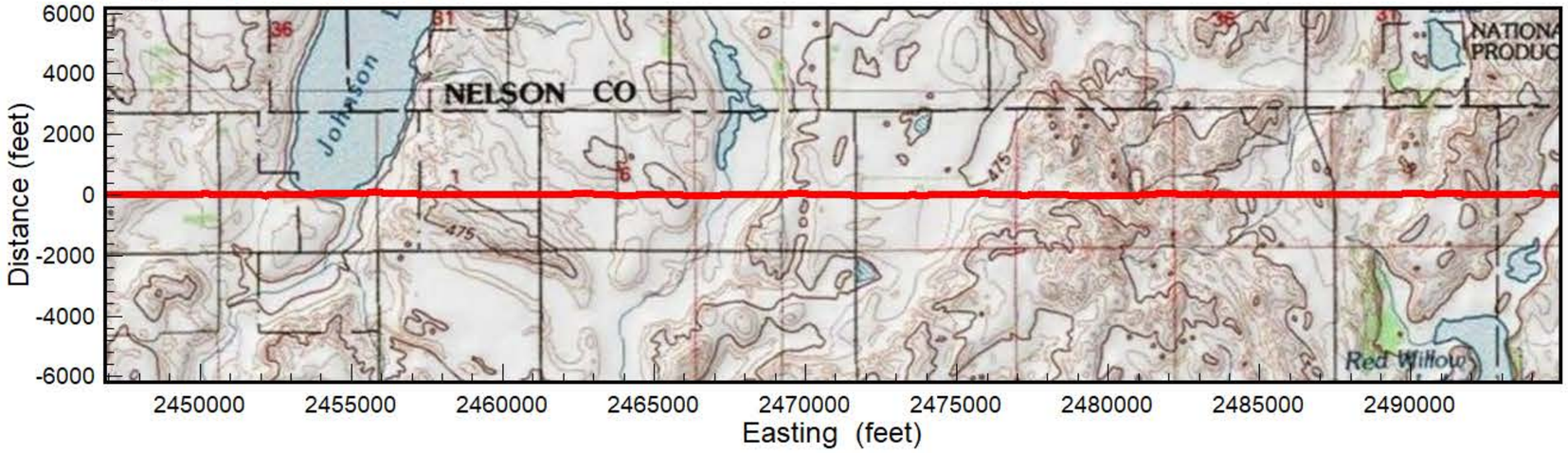


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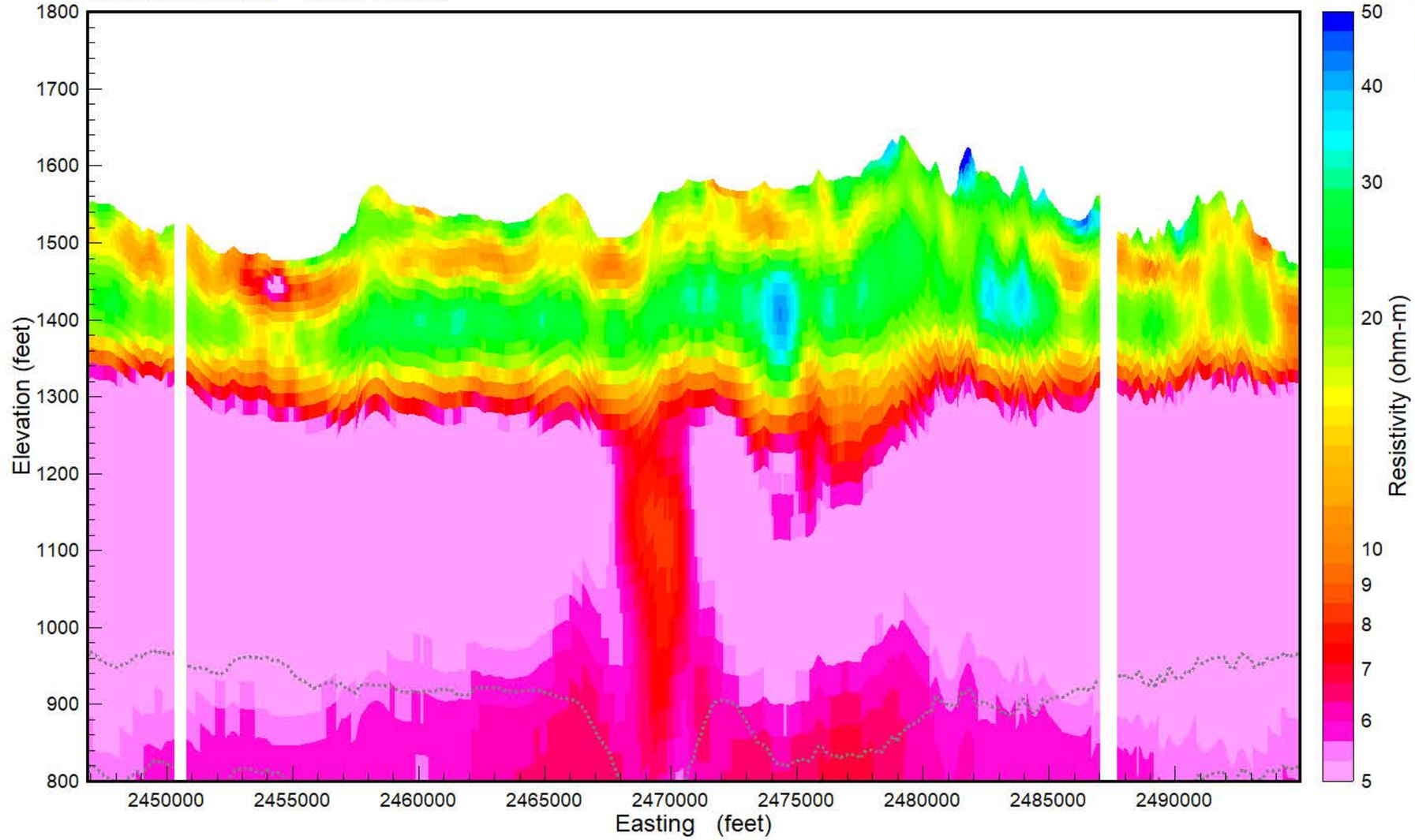
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Flight Path Line L3060

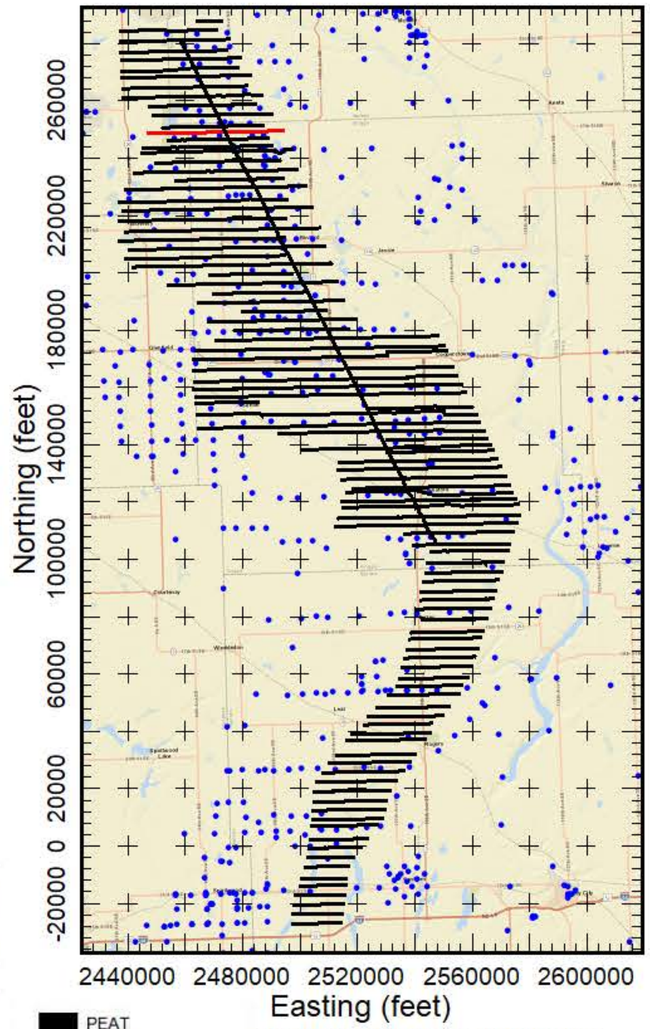


AEM Inversion Line L3060



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Be Legendary.

Flight Area Griggs

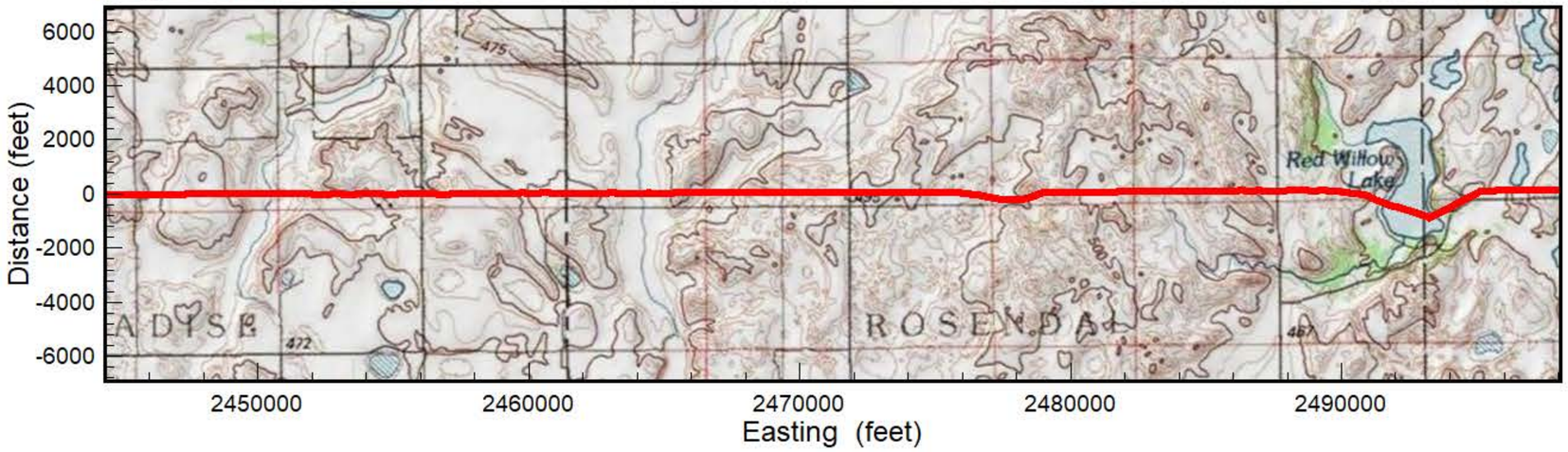


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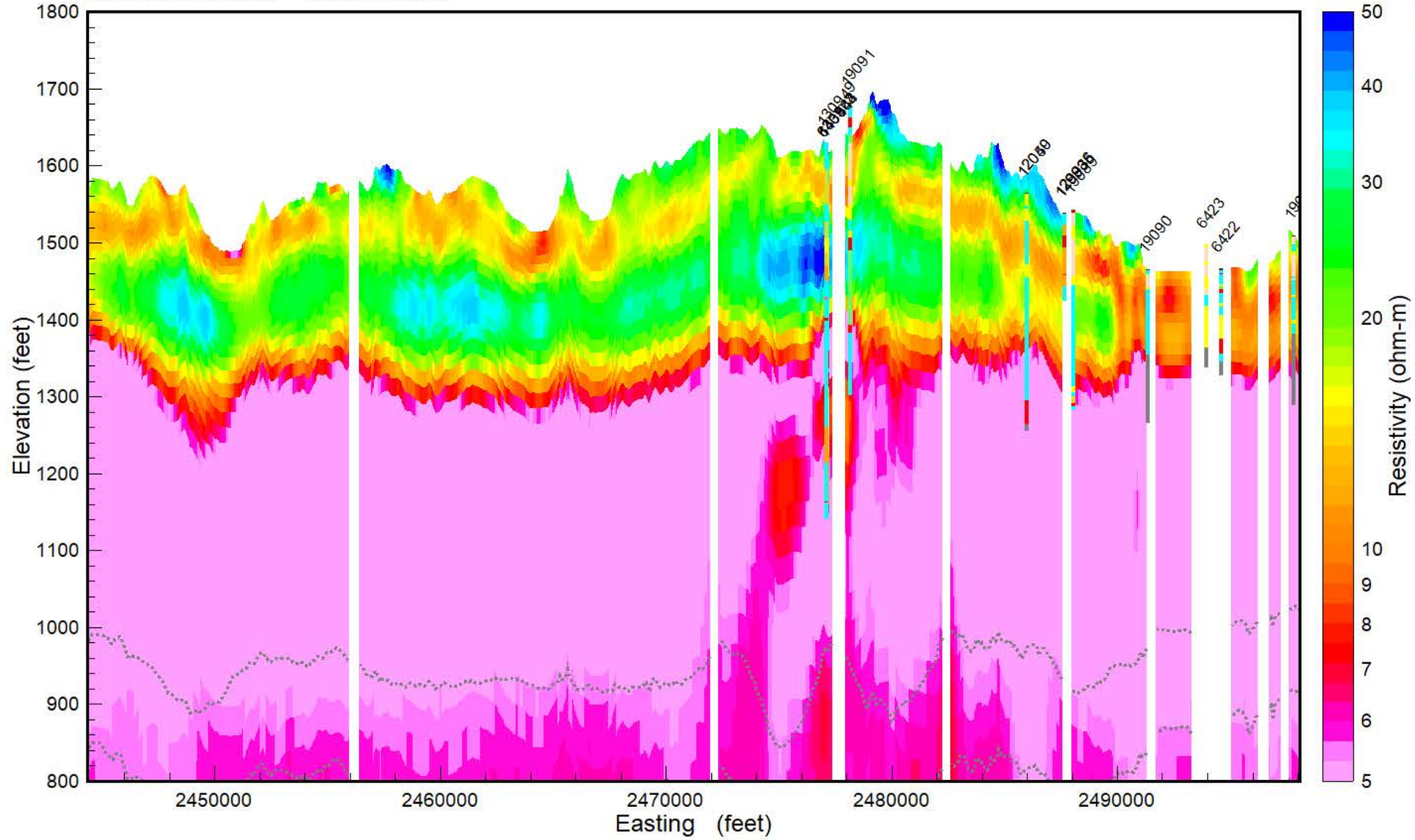
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Flight Path Line L3070

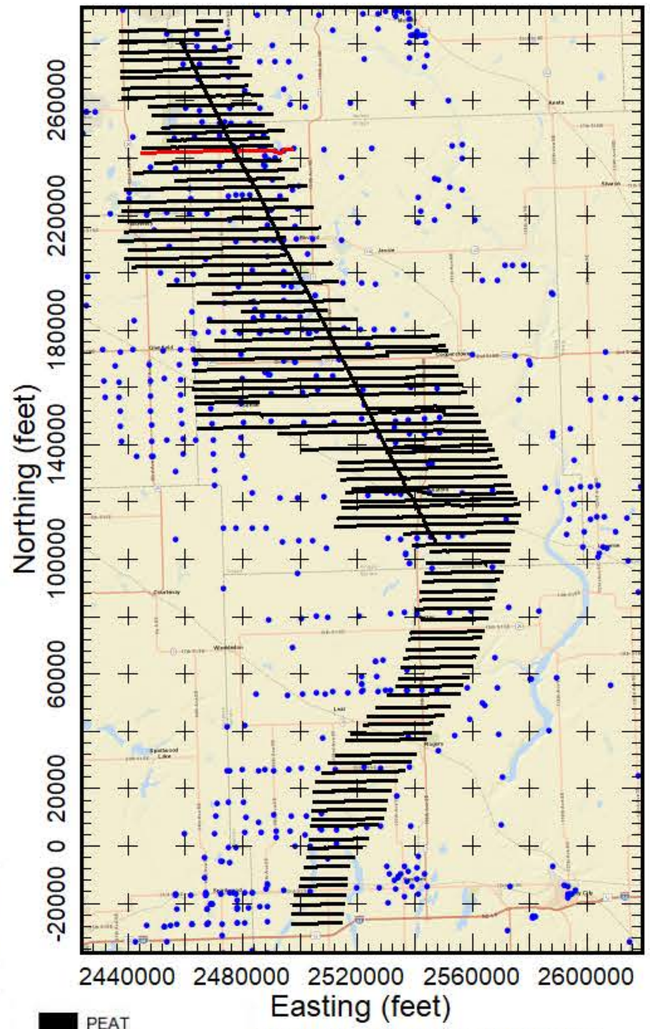


AEM Inversion Line L3070



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Flight Area Griggs

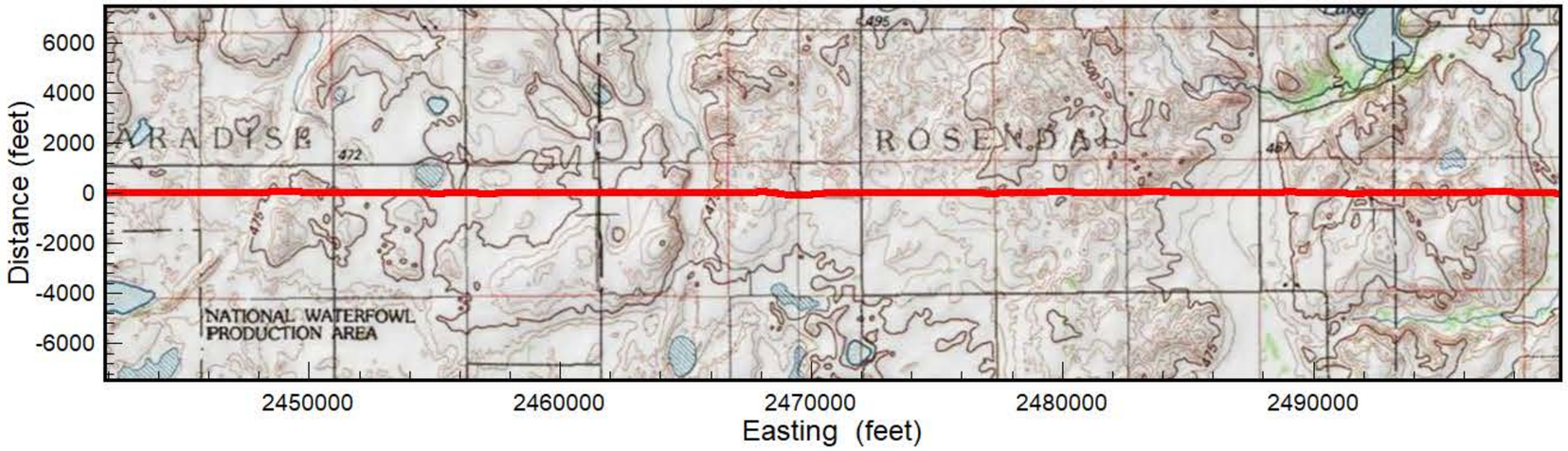


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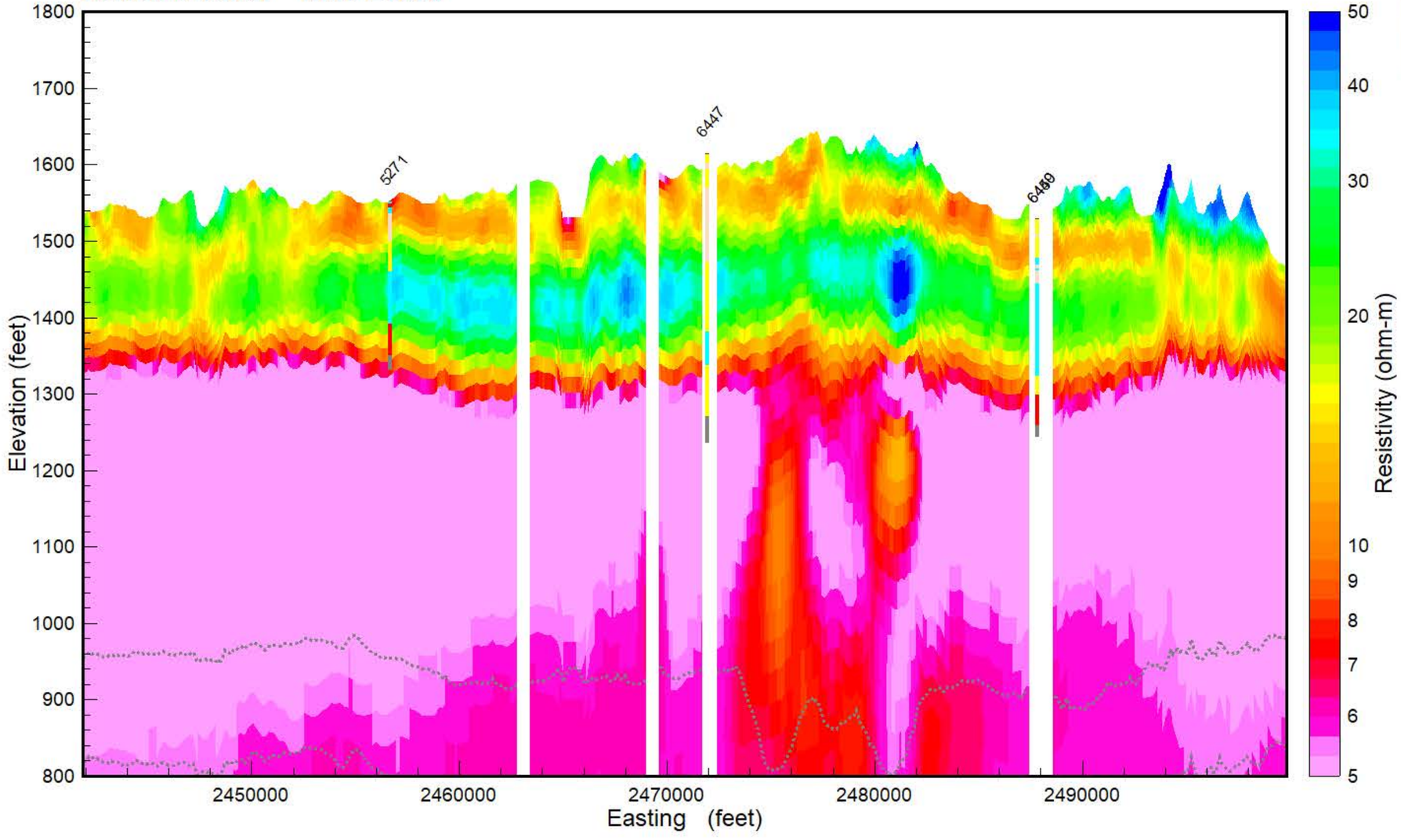
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Flight Path Line L3080

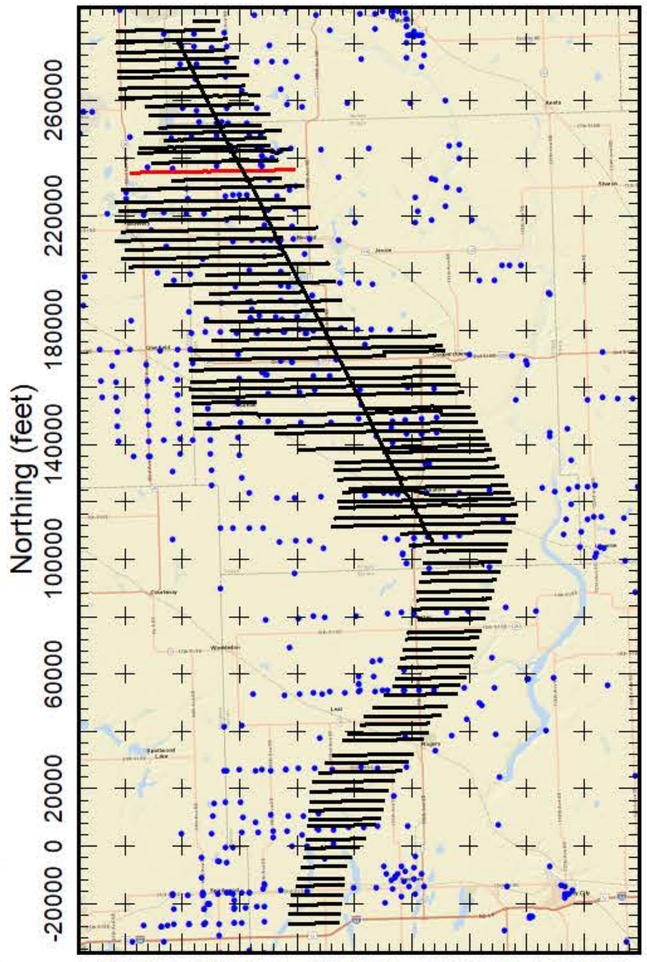


AEM Inversion Line L3080



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Flight Area Griggs

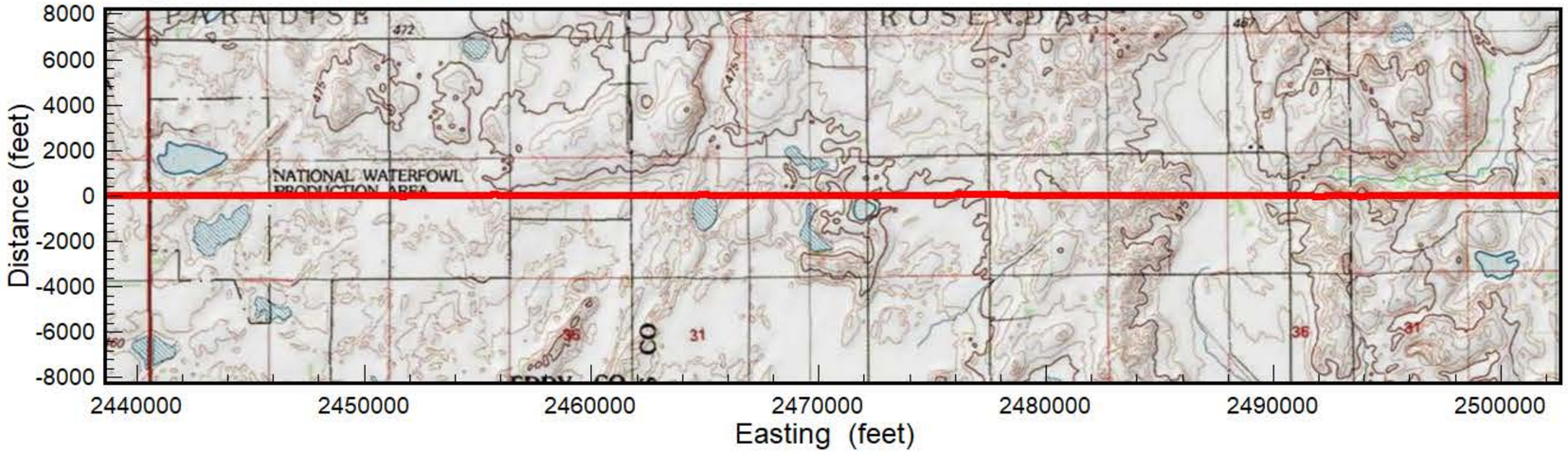


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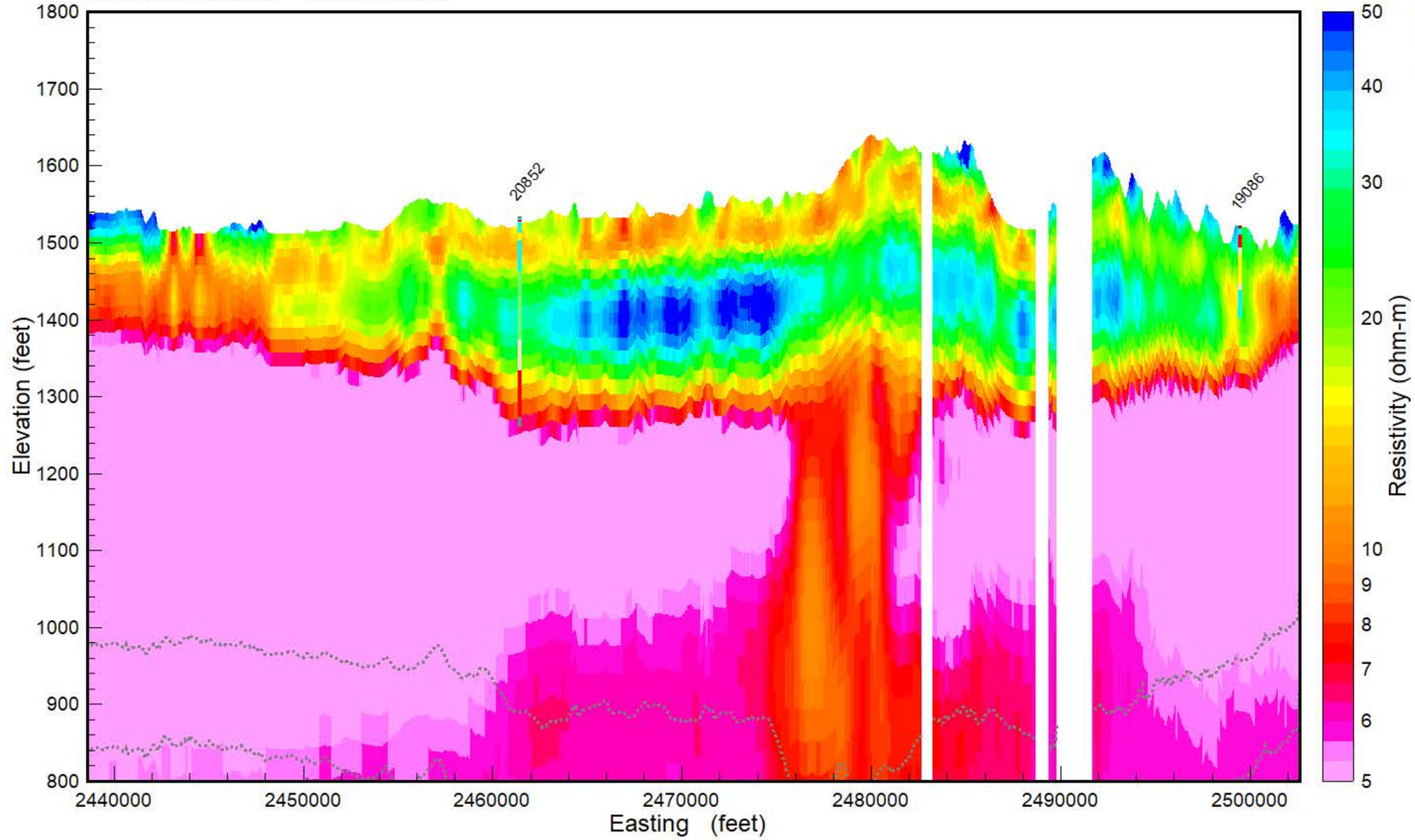
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Flight Path Line L3090

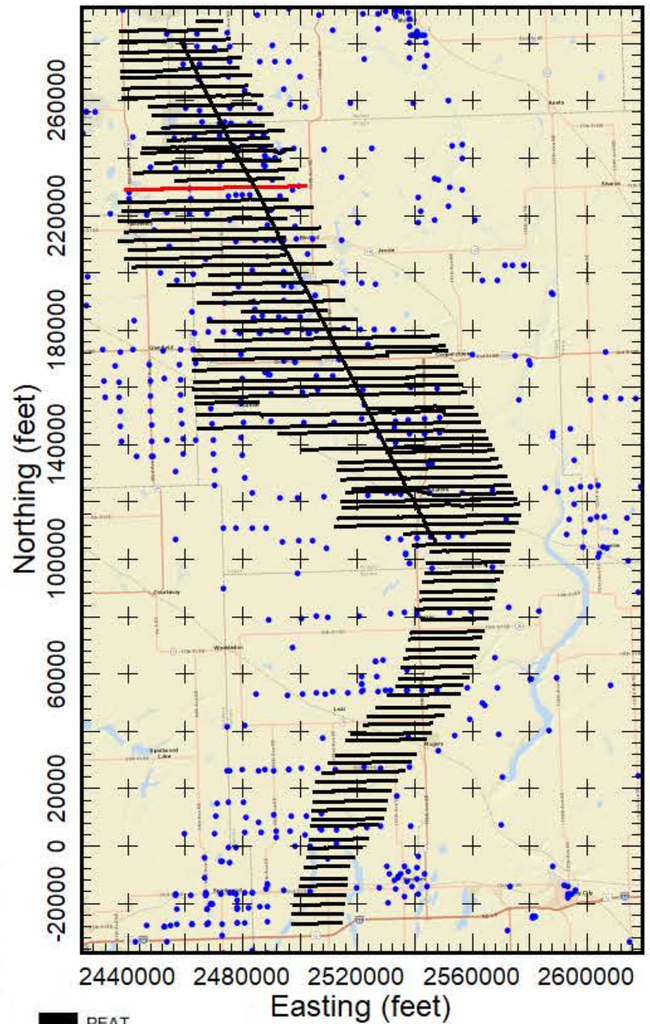


AEM Inversion Line L3090



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Flight Area Griggs

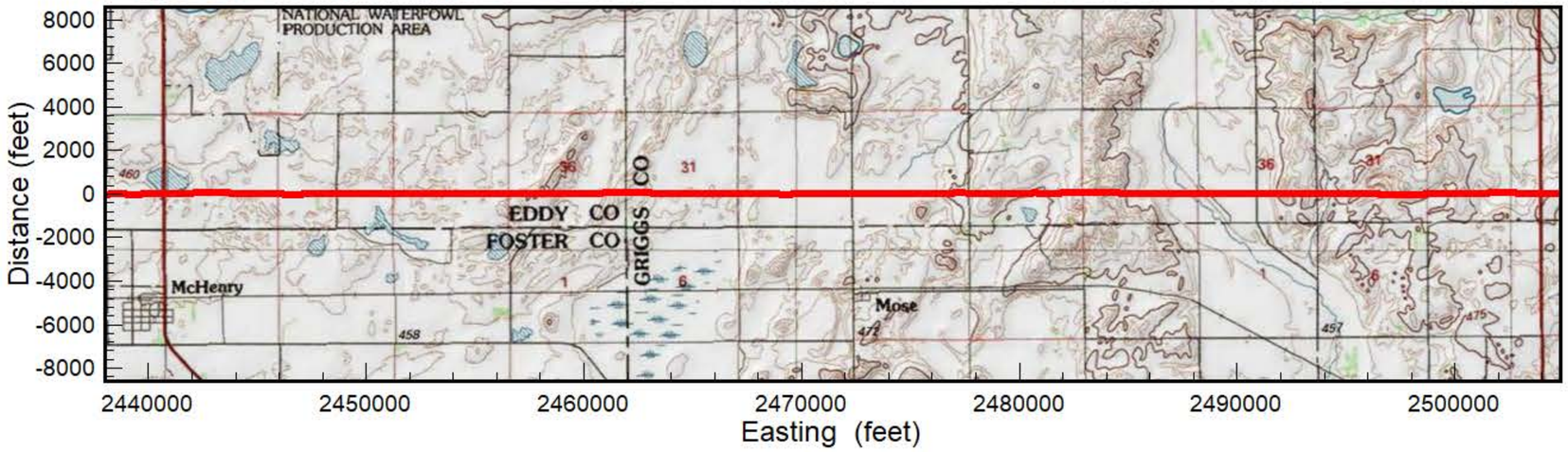


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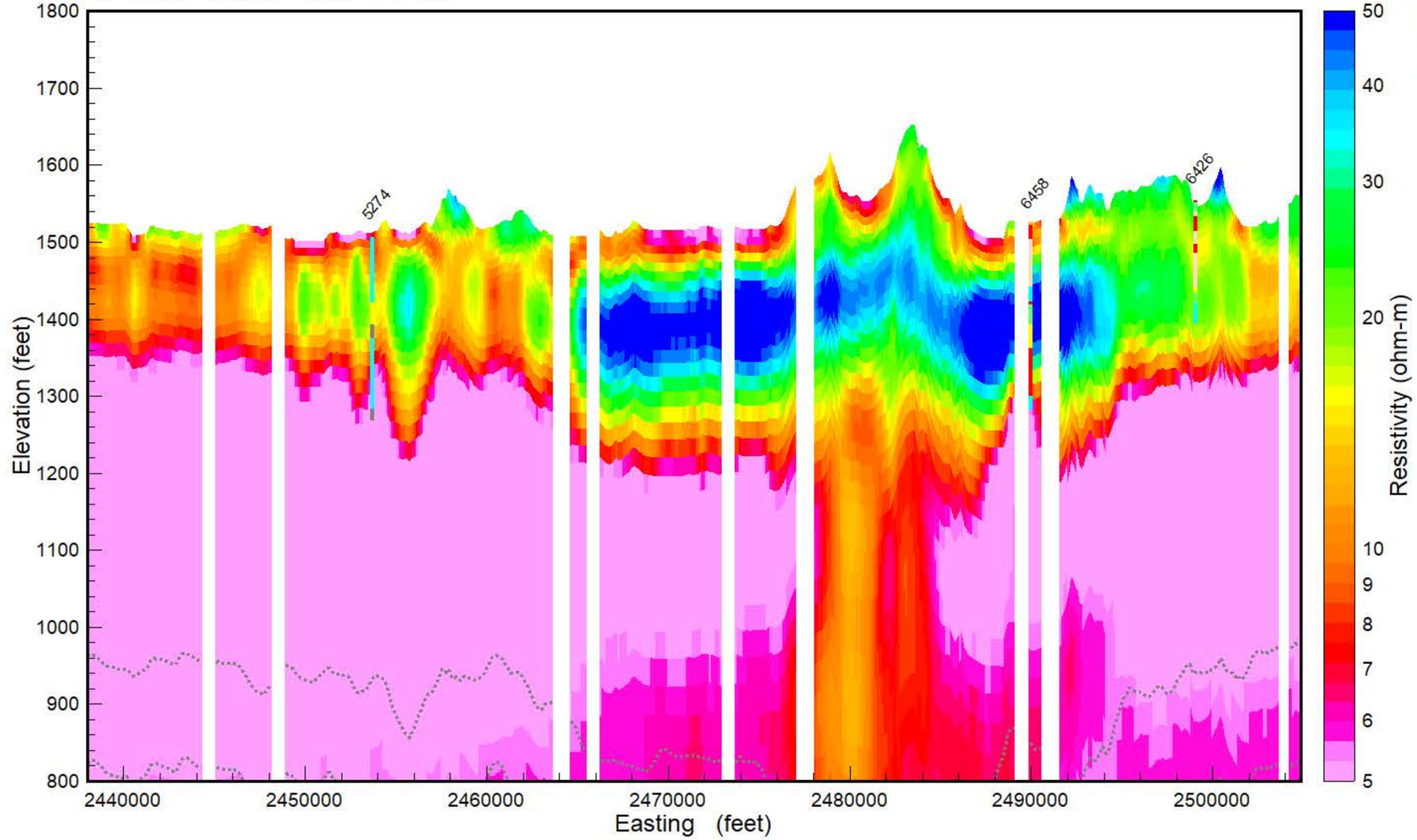
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

GEOTECH AGF Aqua Geo Frameworks

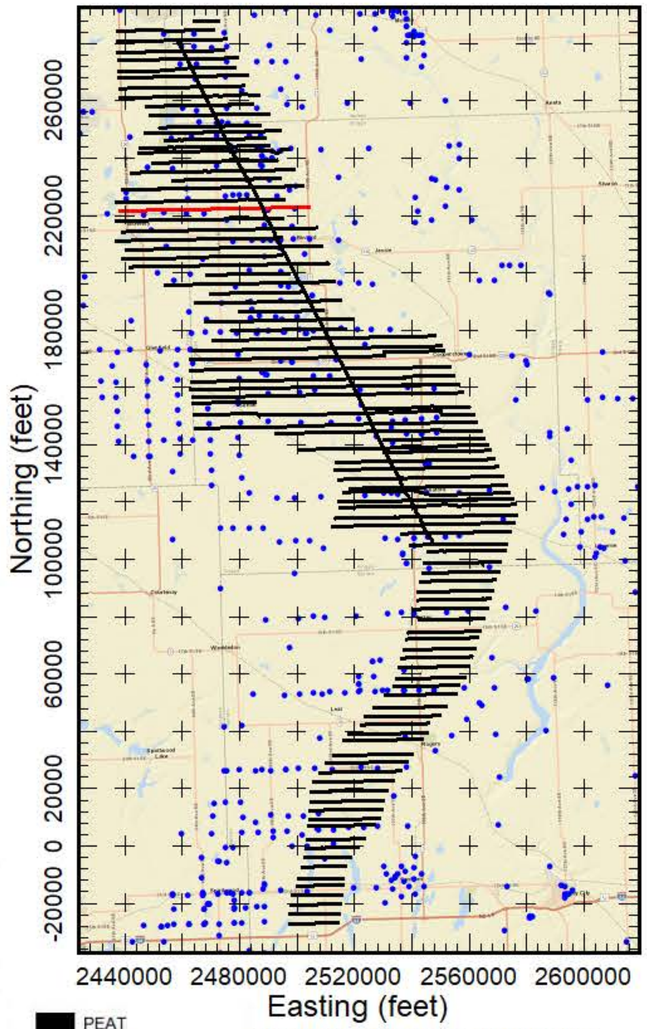
Flight Path Line L3100



AEM Inversion Line L3100



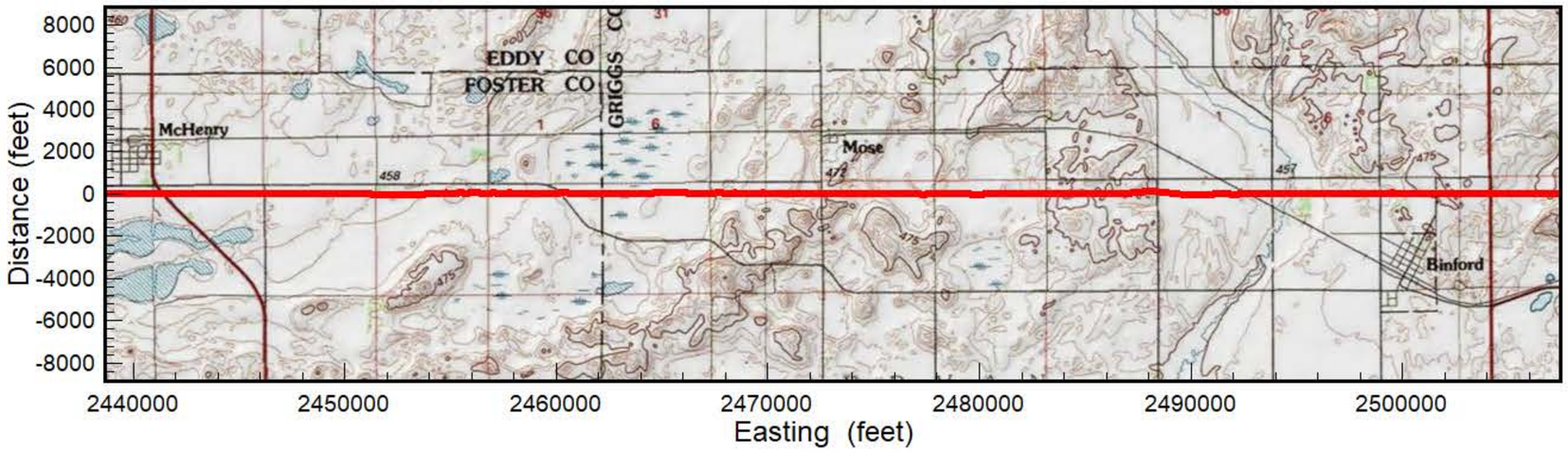
Flight Area Griggs



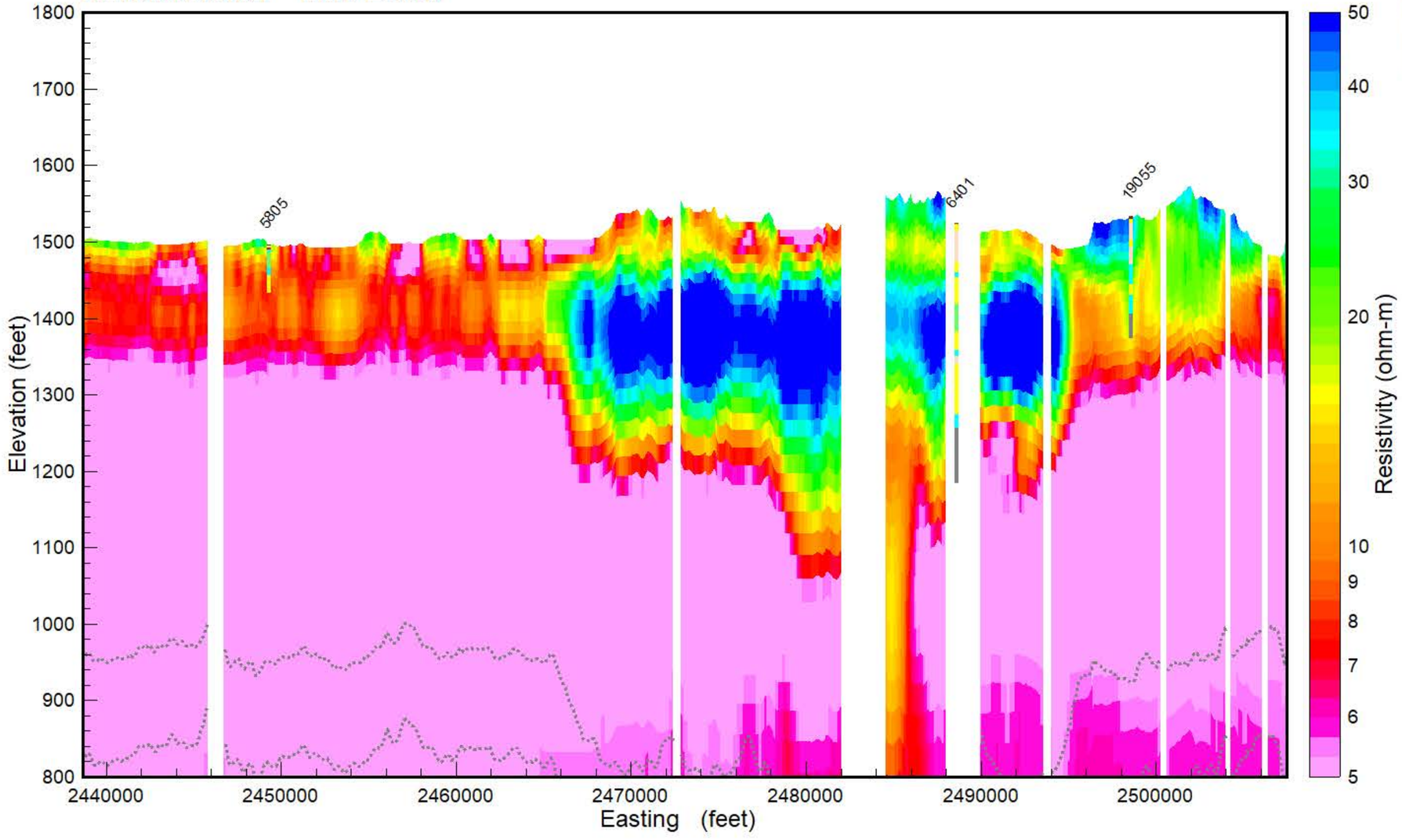
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

Flight Path Line L3110

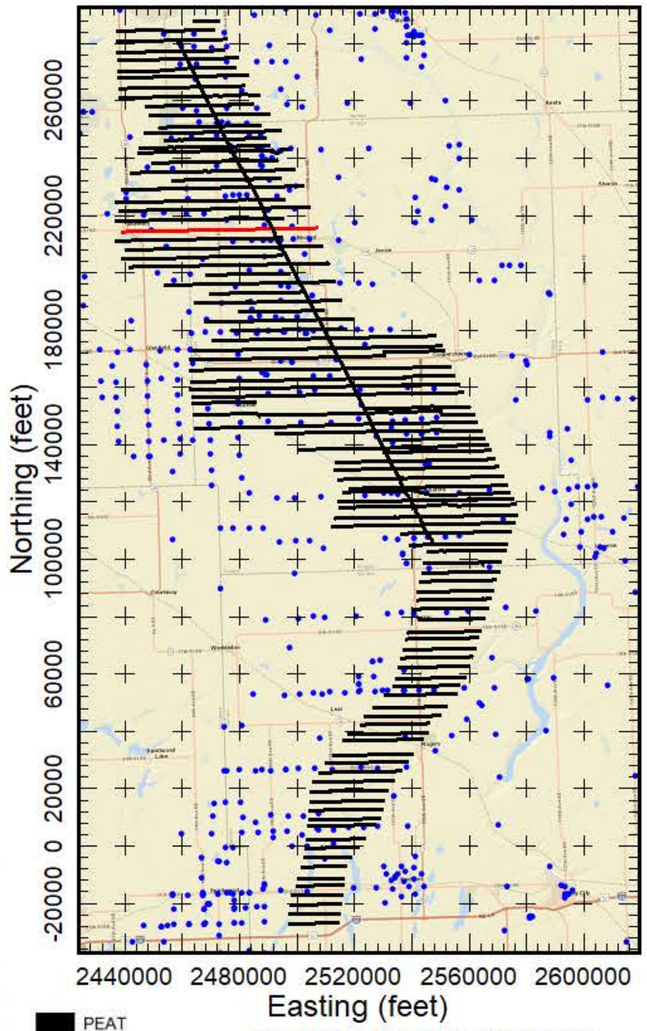


AEM Inversion Line L3110



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Be Legendary.

Flight Area Griggs

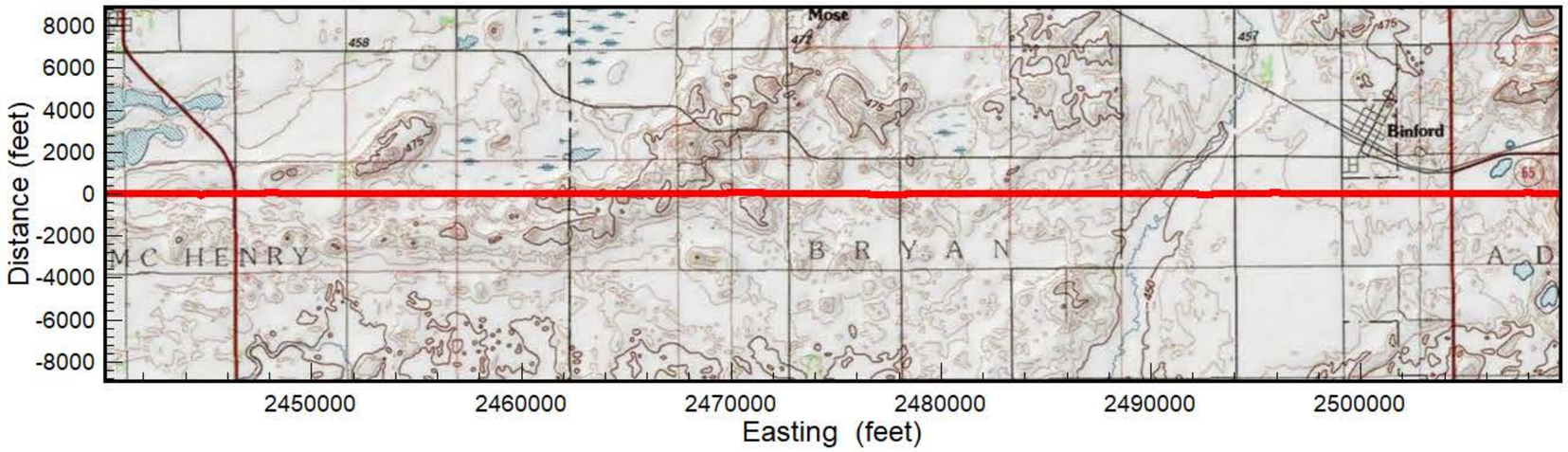


PEAT
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PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
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CLAYSTONE
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TOPSOIL
NOSAMPLE

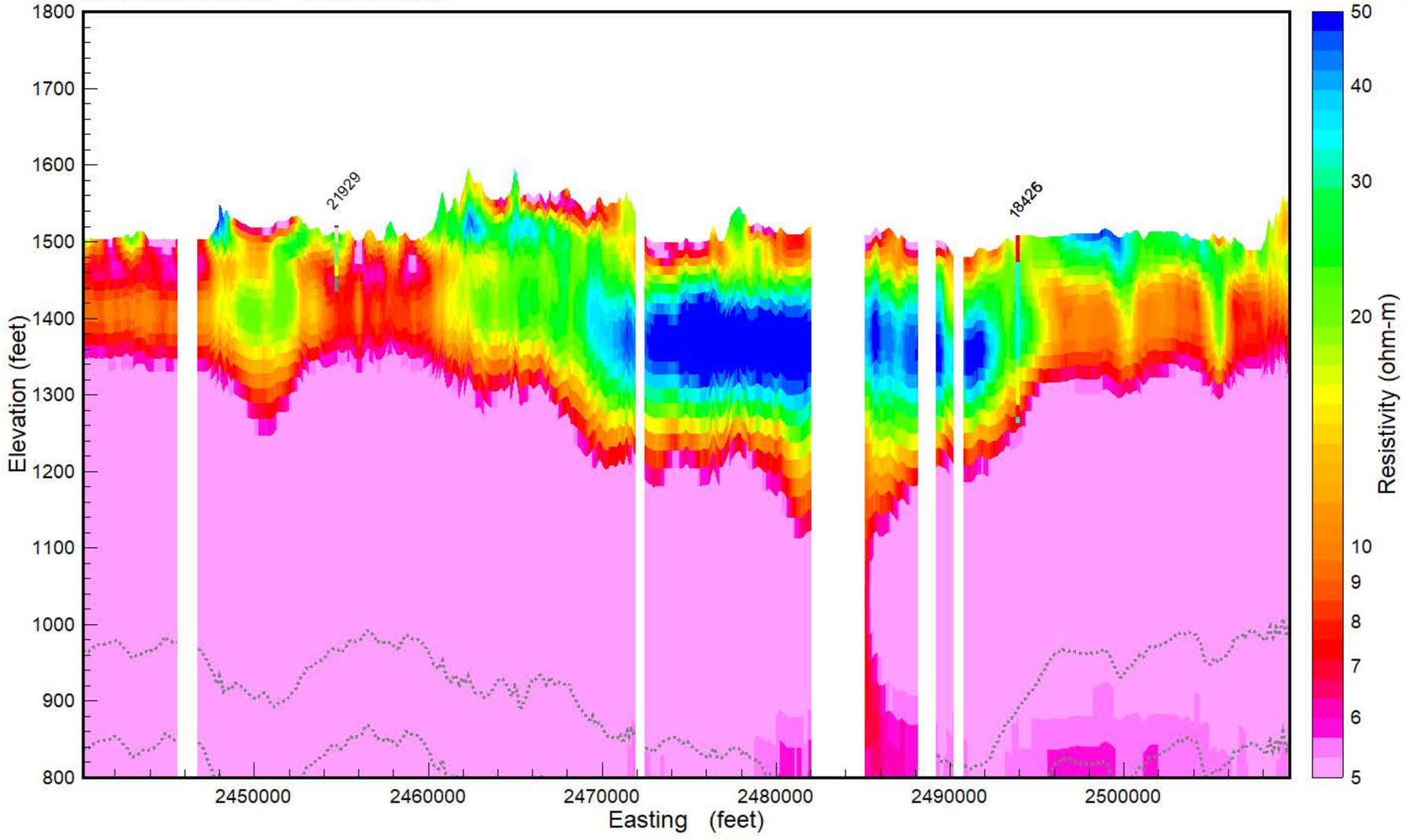
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

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Flight Path Line L3120

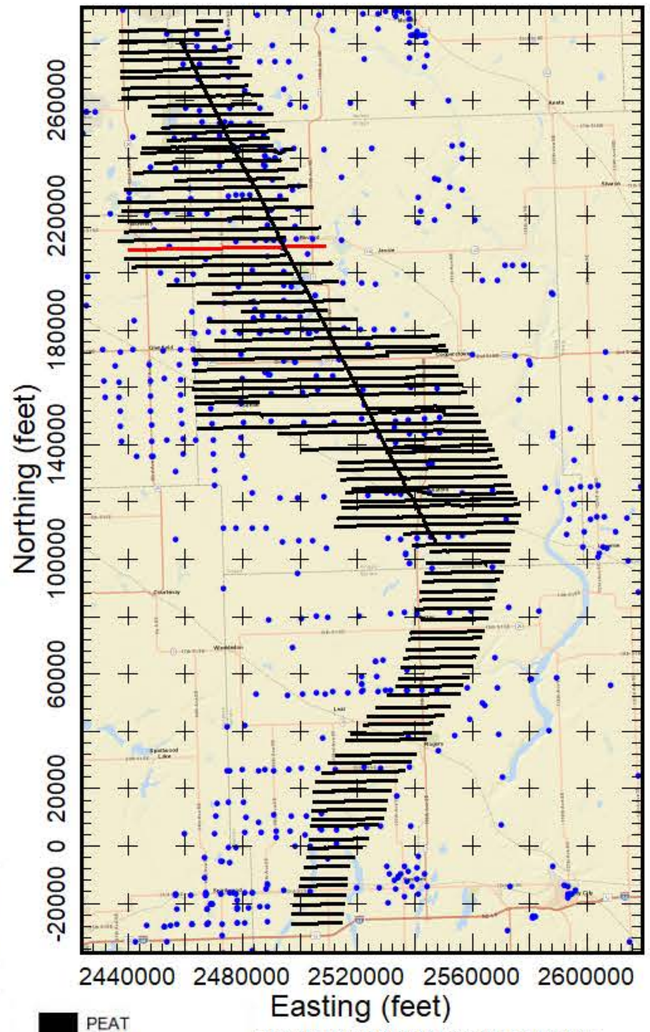


AEM Inversion Line L3120



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Be Legendary.

Flight Area Griggs

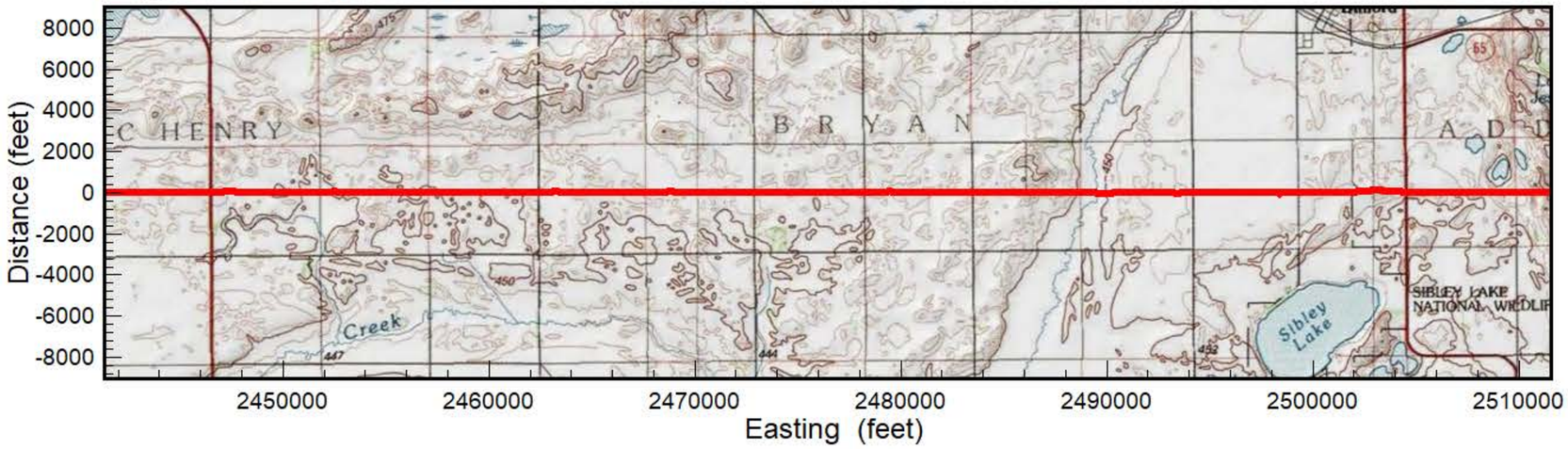


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
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- TILL
- FILL
- TOPSOIL
- NOSAMPLE

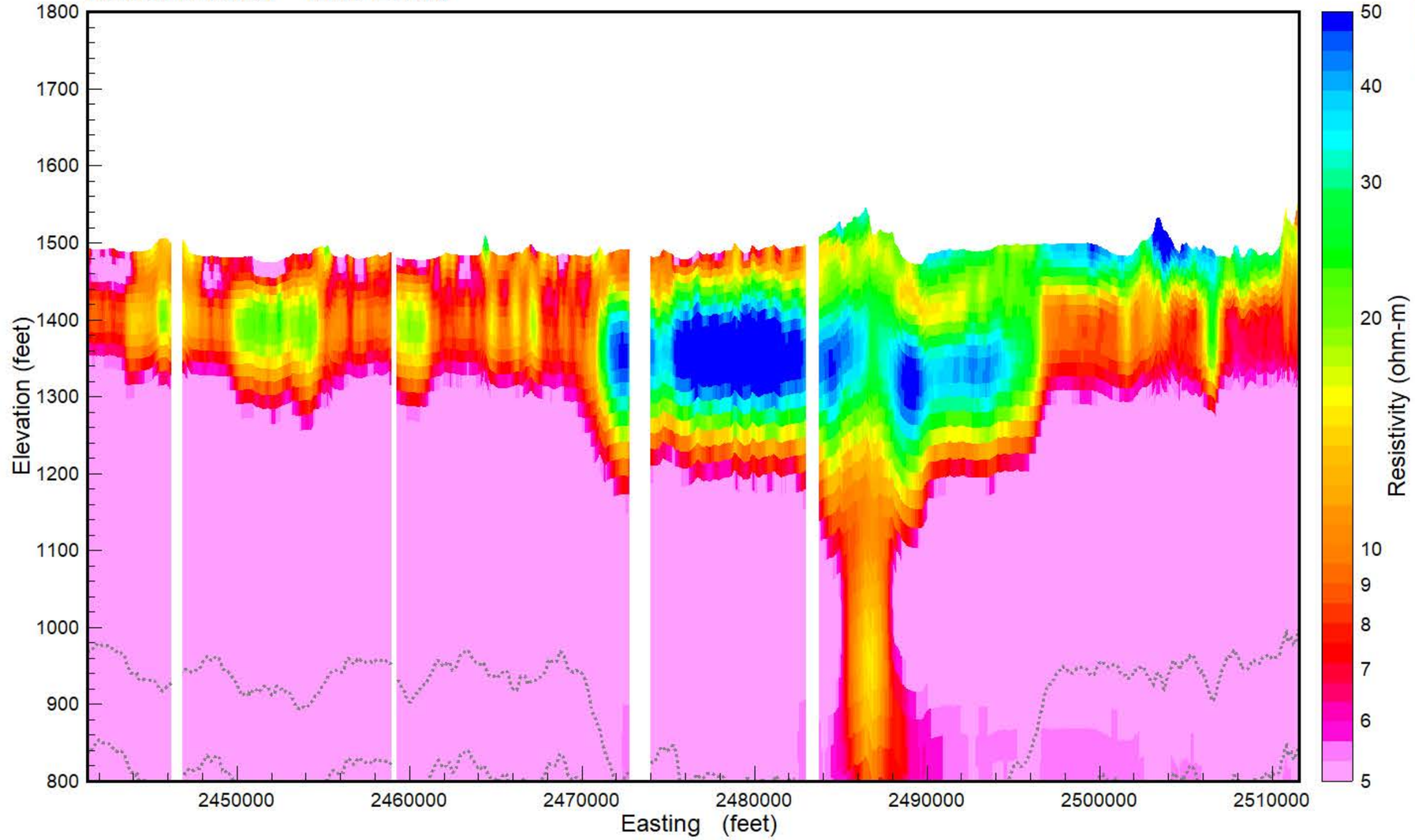
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

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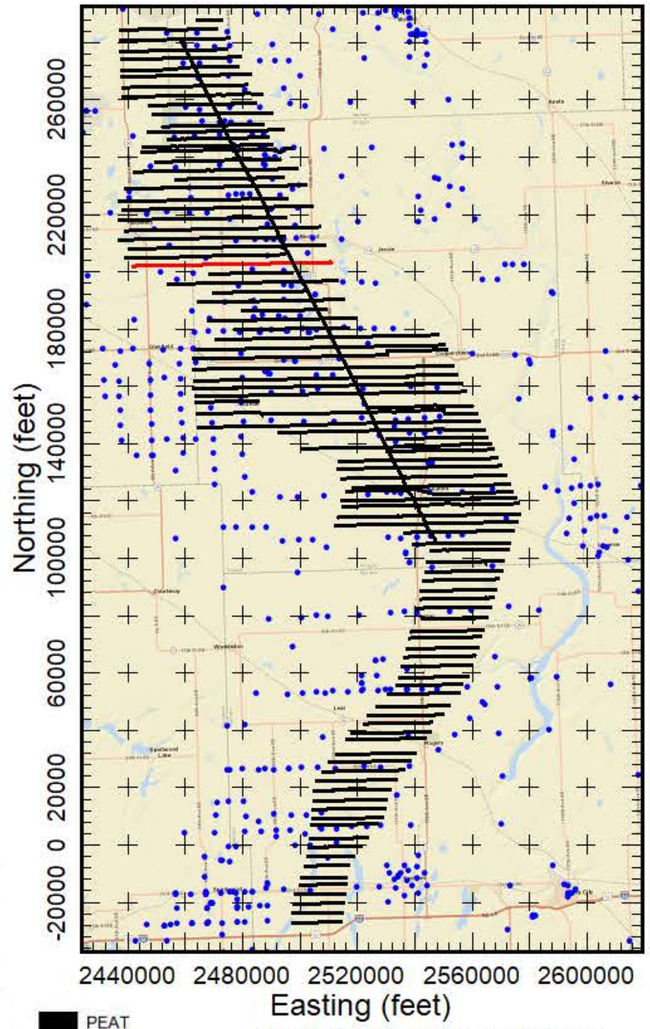
Flight Path Line L3130



AEM Inversion Line L3130



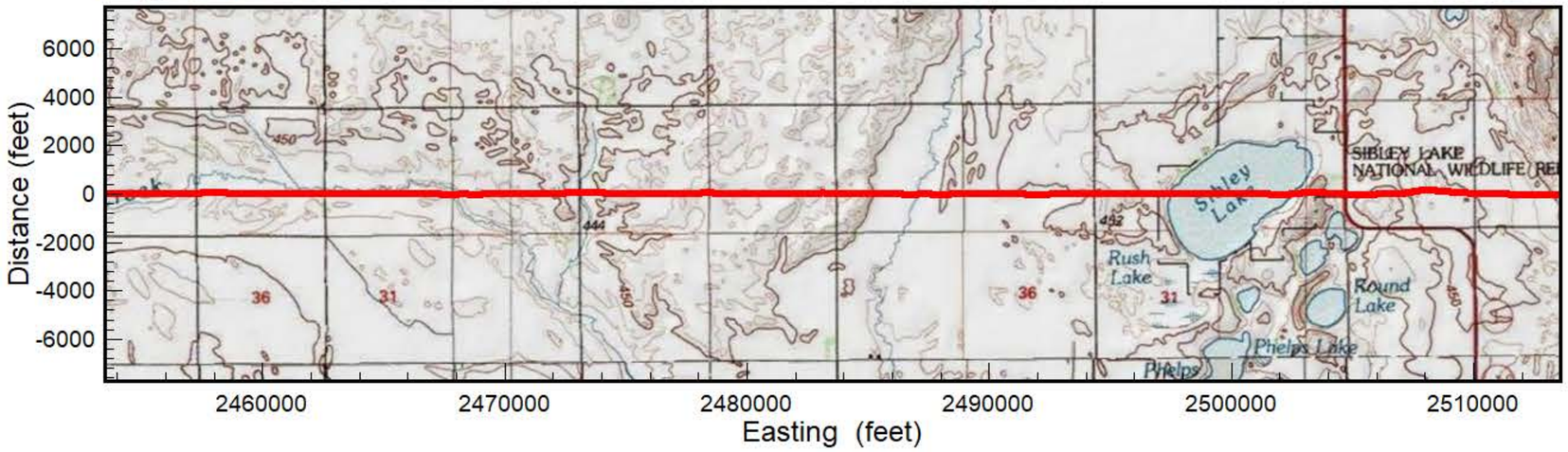
Flight Area Griggs



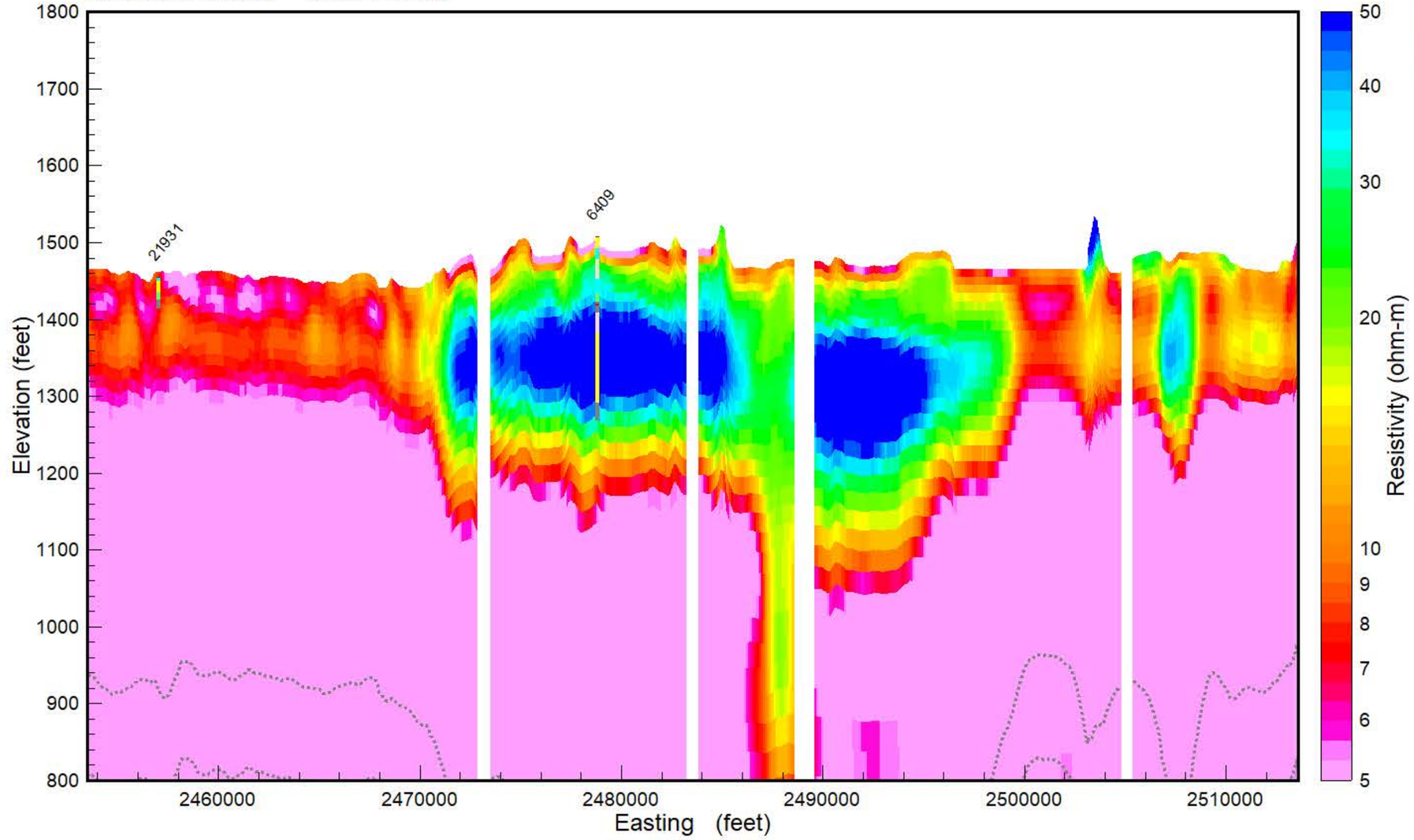
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
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BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

Flight Path Line L3140

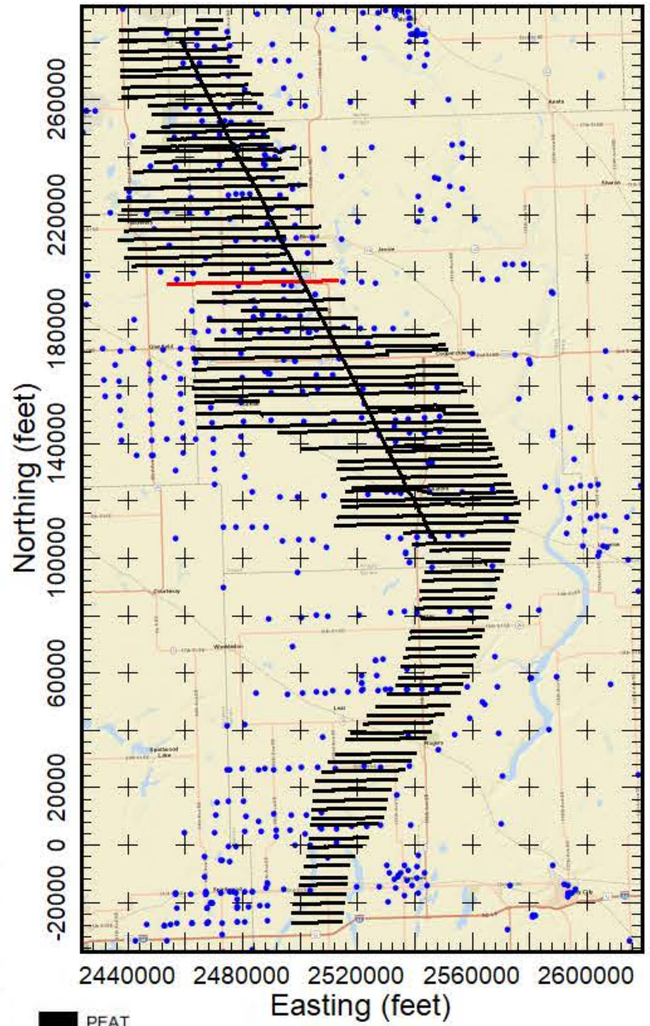


AEM Inversion Line L3140



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Be Legendary.

Flight Area Griggs

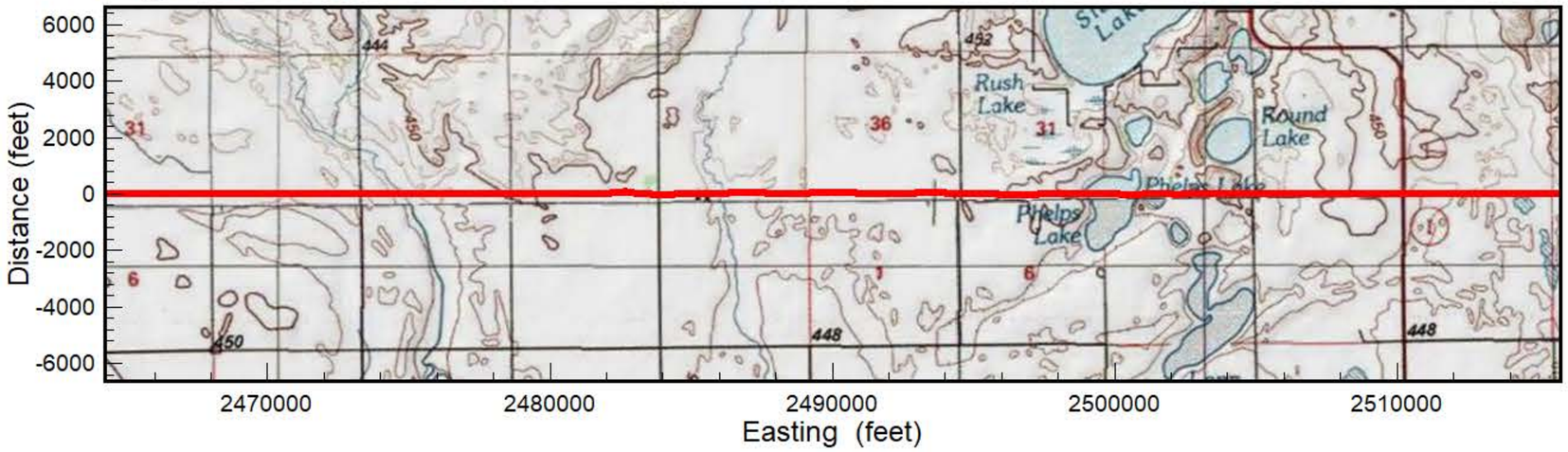


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
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- SILTSTONE
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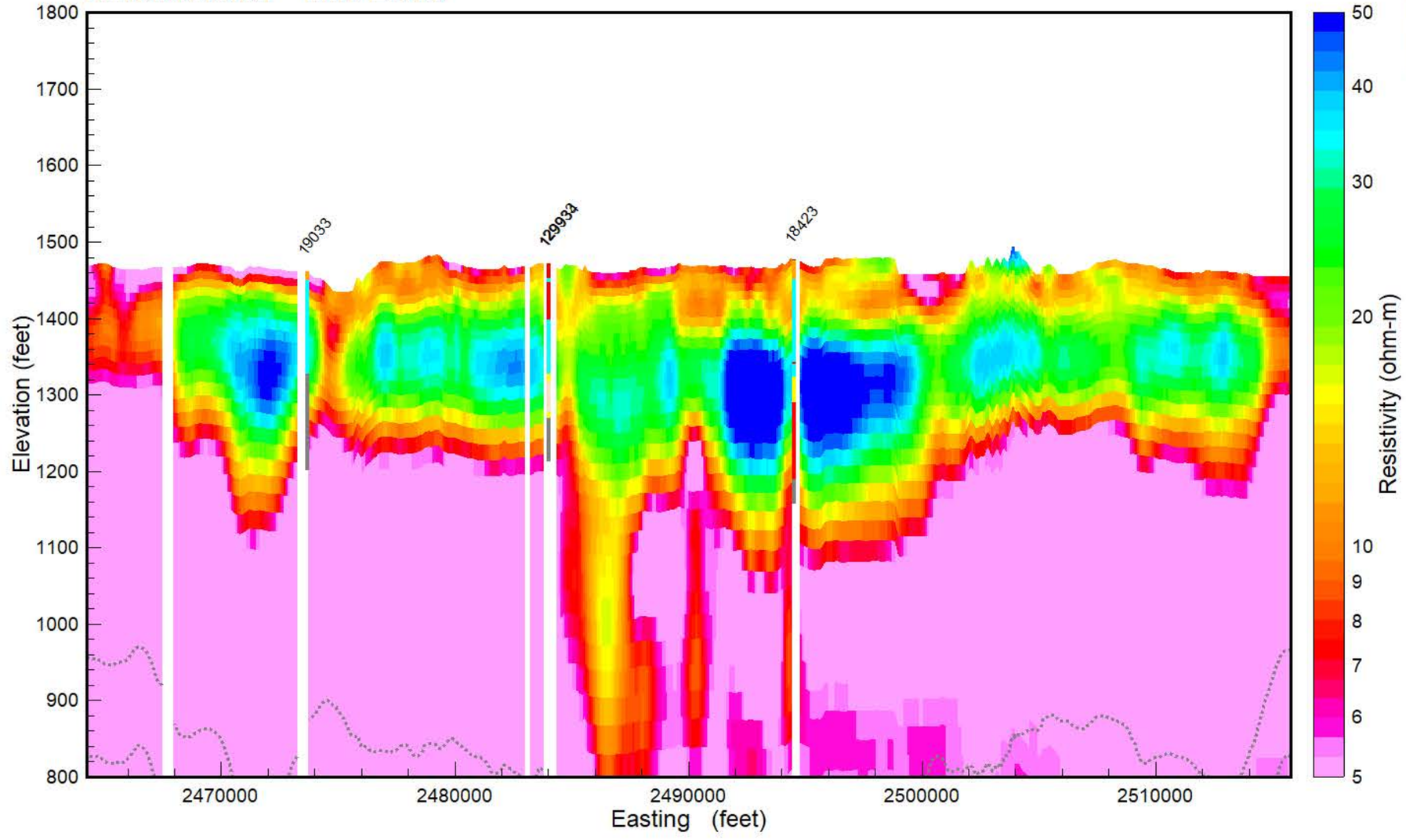
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Flight Path Line L3150

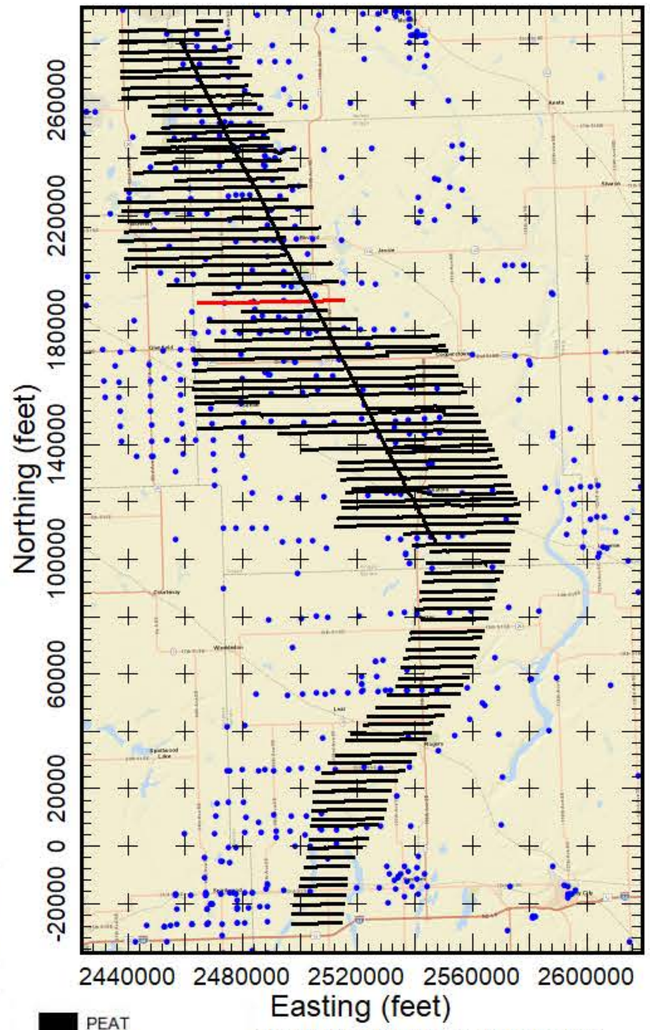


AEM Inversion Line L3150



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

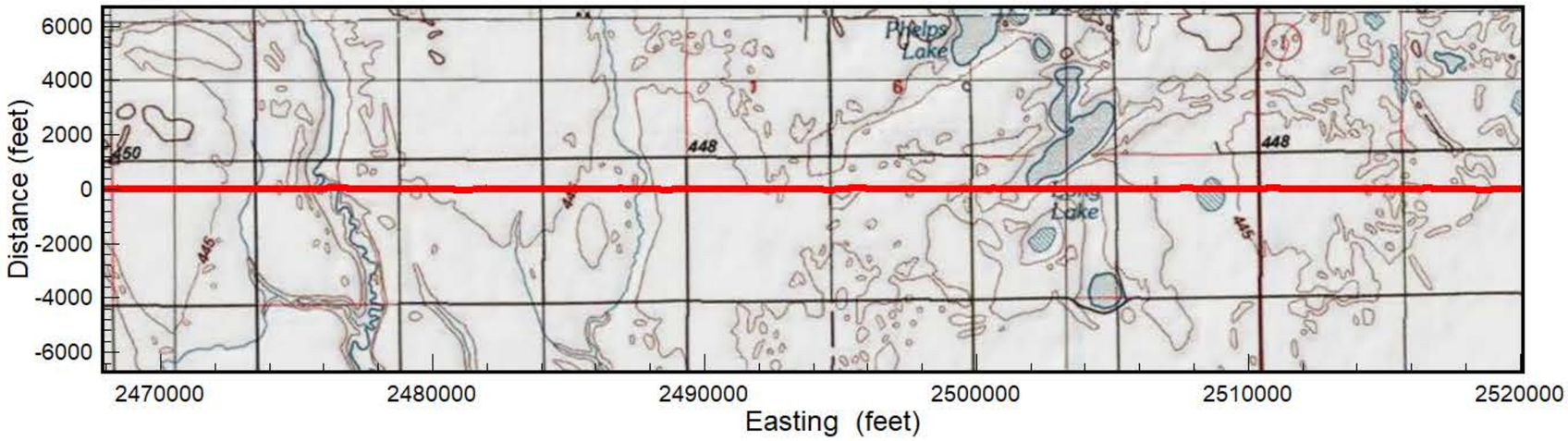


PEAT
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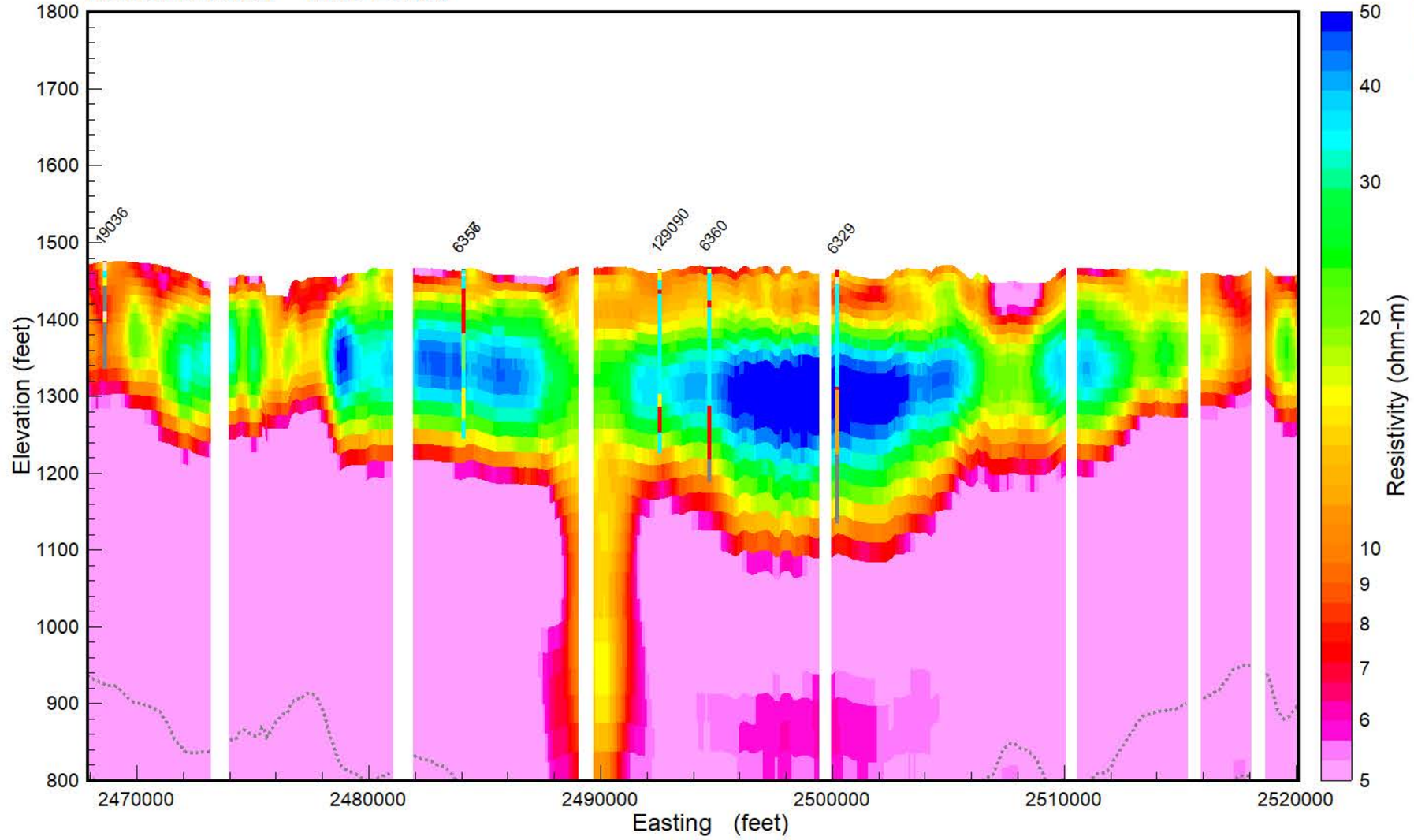
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Flight Path Line L3160

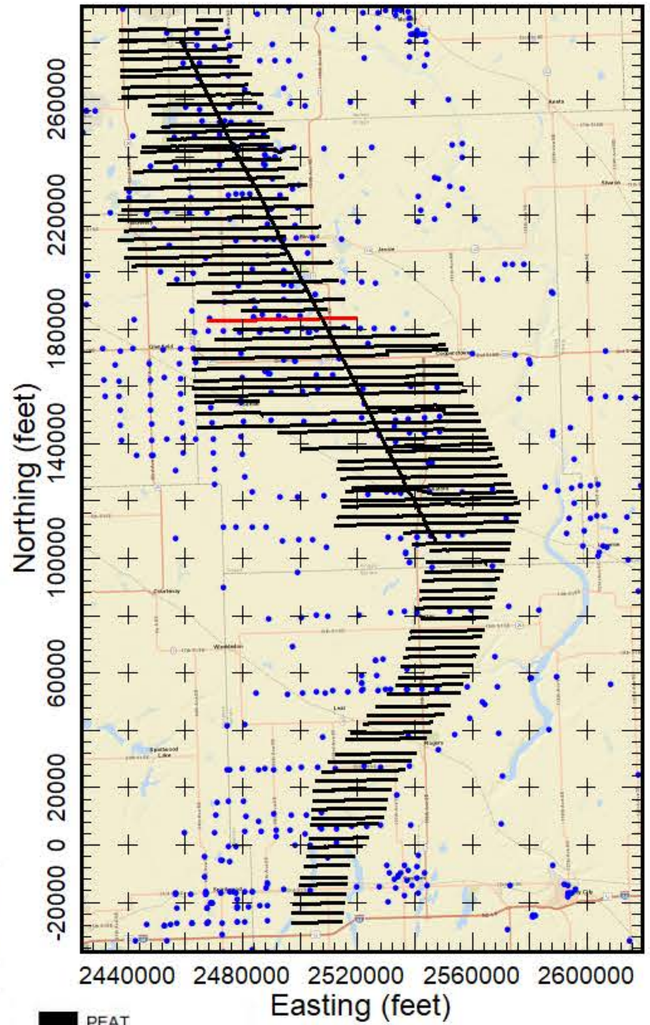


AEM Inversion Line L3160



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Be Legendary.

Flight Area Griggs

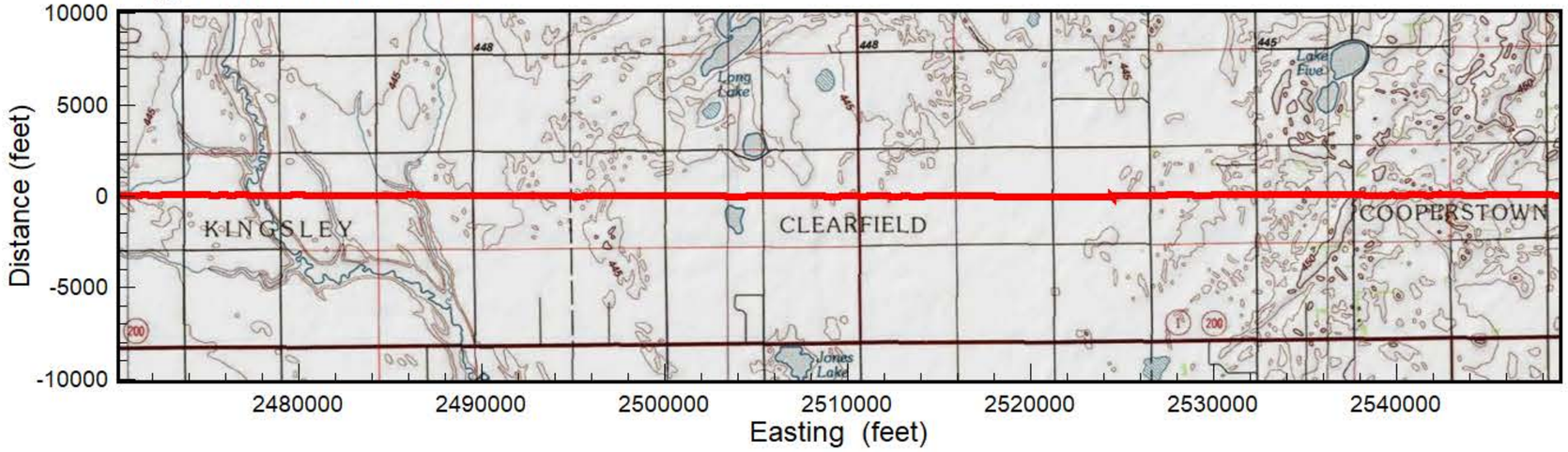


PEAT
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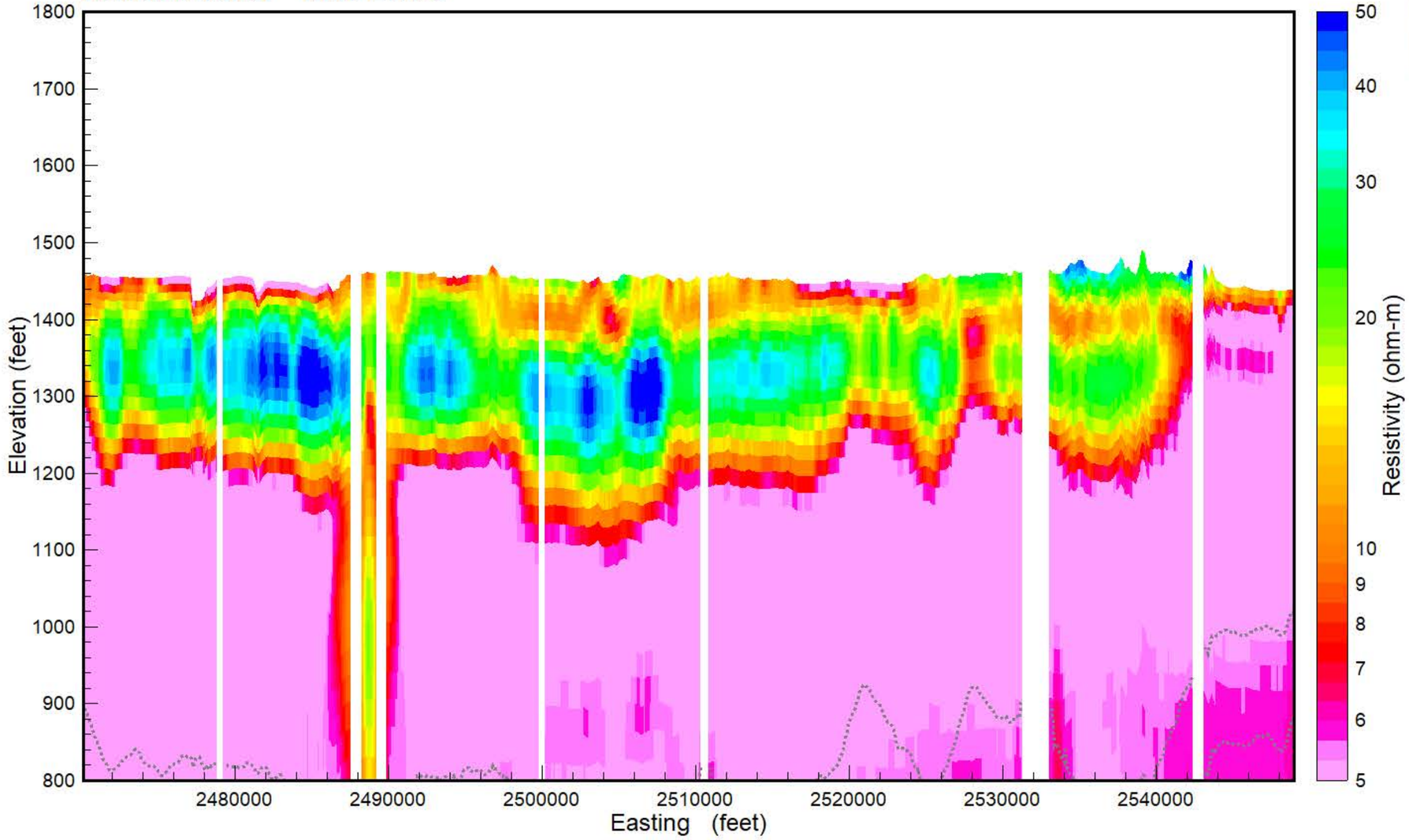
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Flight Path Line L3175

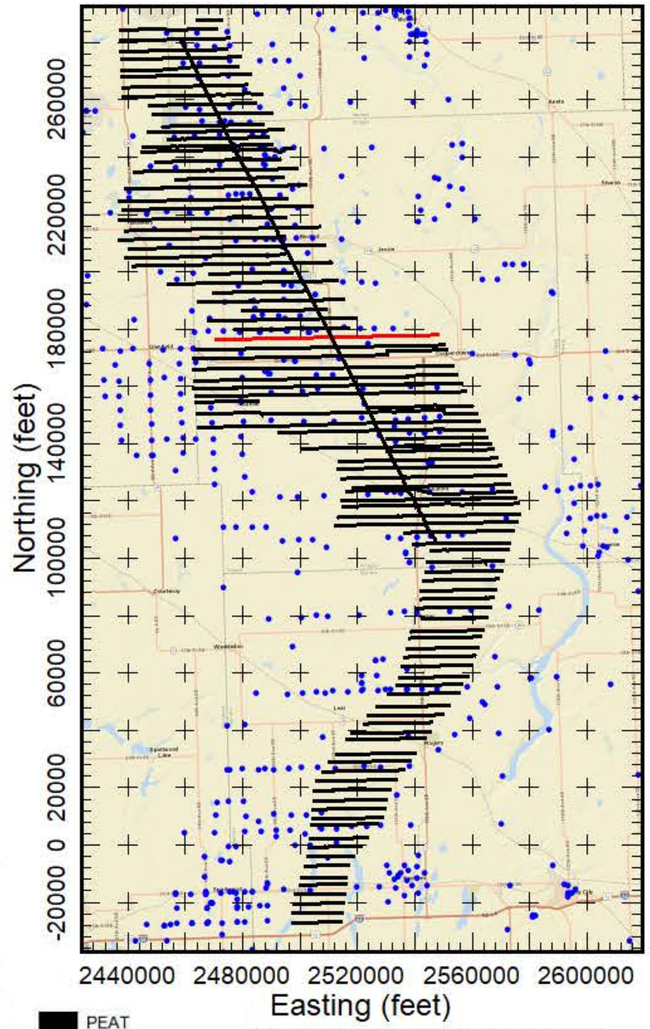


AEM Inversion Line L3175



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

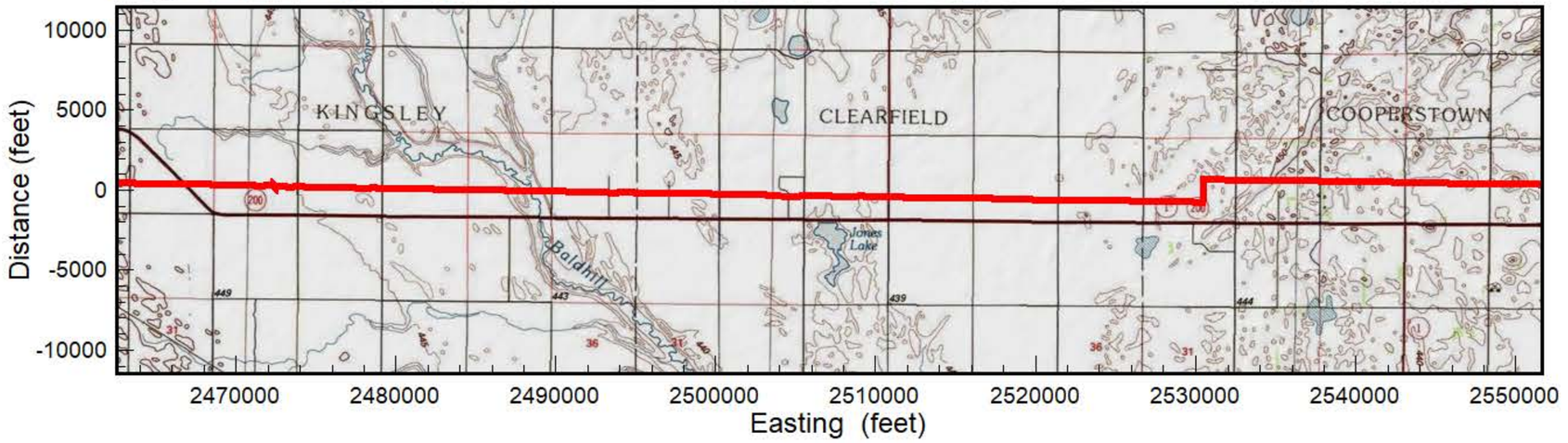


- PEAT
- LIGNITE
- COBBLES
- BOULDER
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- TOPSOIL
- NOSAMPLE

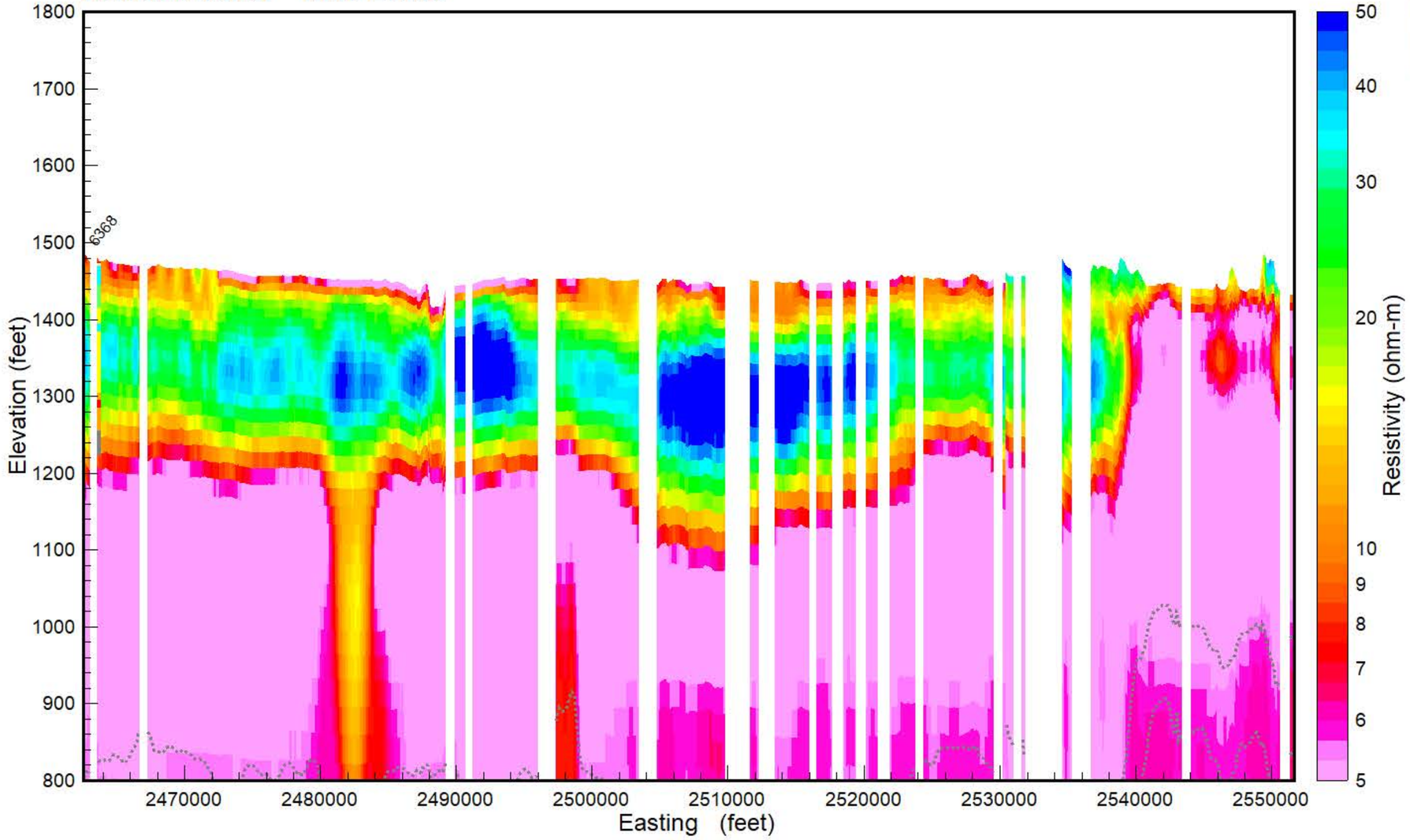
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

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Flight Path Line L3185

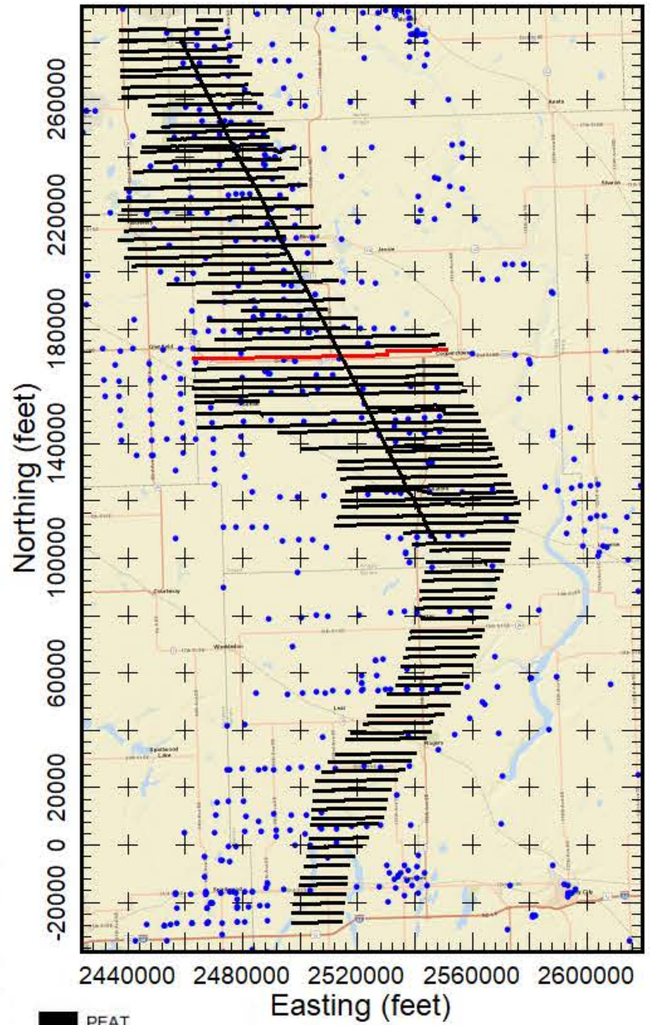


AEM Inversion Line L3185



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Flight Area Griggs

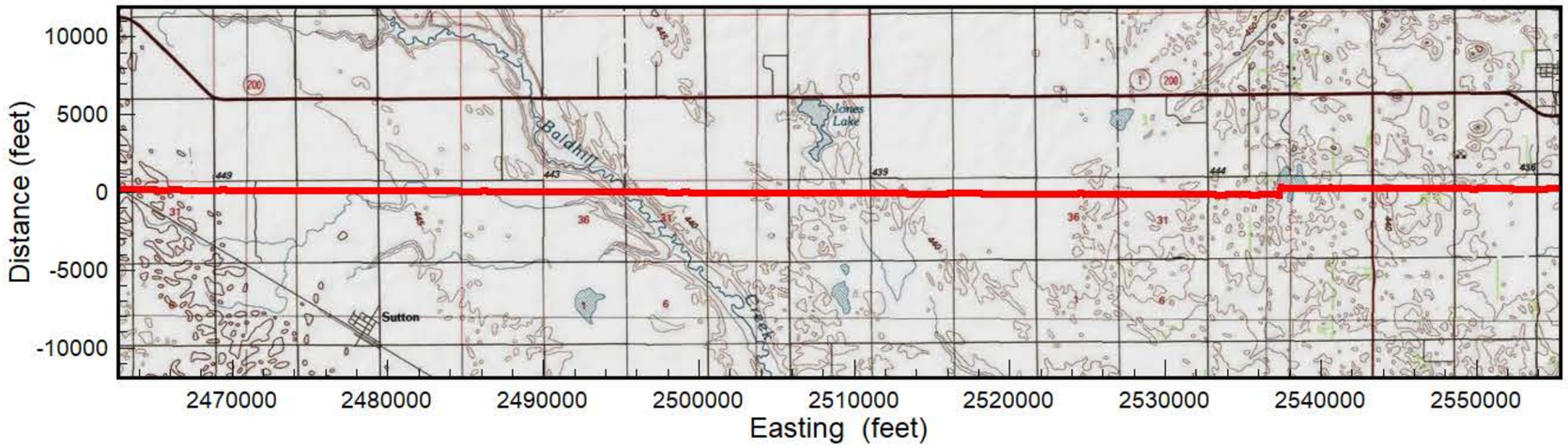


PEAT
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PRECAMBRIAN
WEATHERED GRANI
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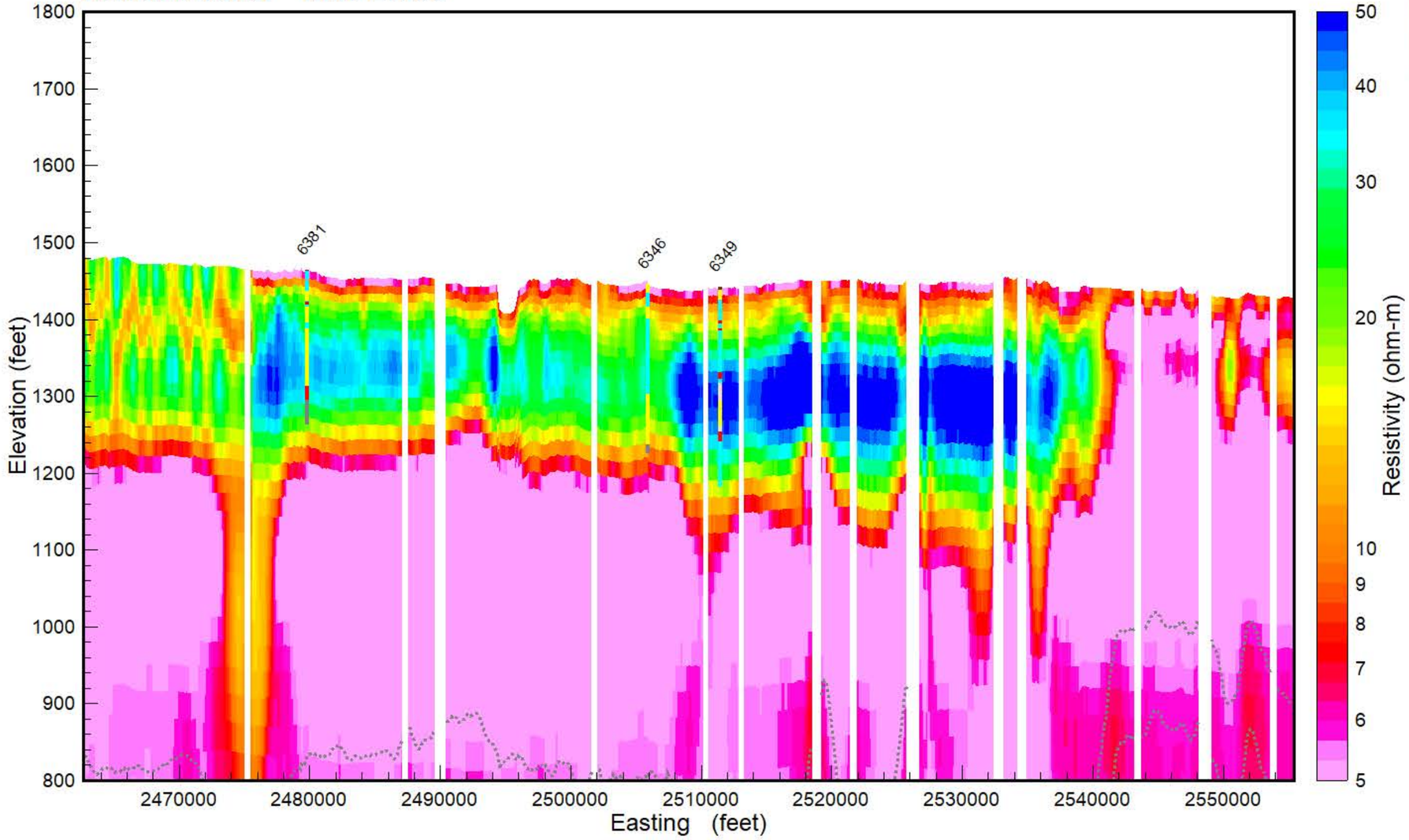
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Flight Path Line L3195

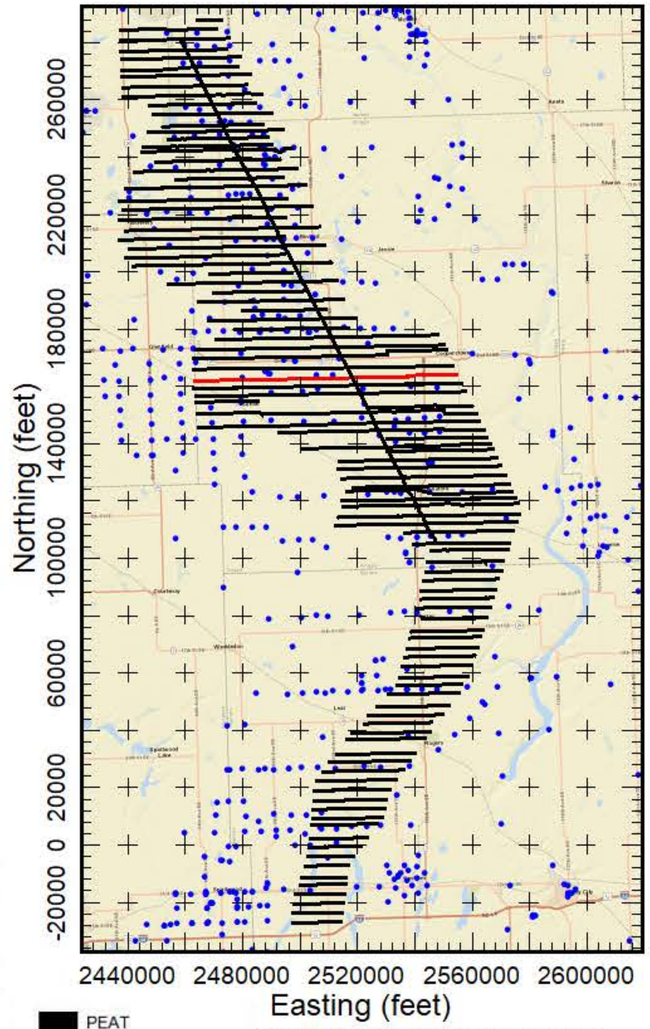


AEM Inversion Line L3195



NORTH Dakota | Water Commission & State Engineer

Flight Area Griggs

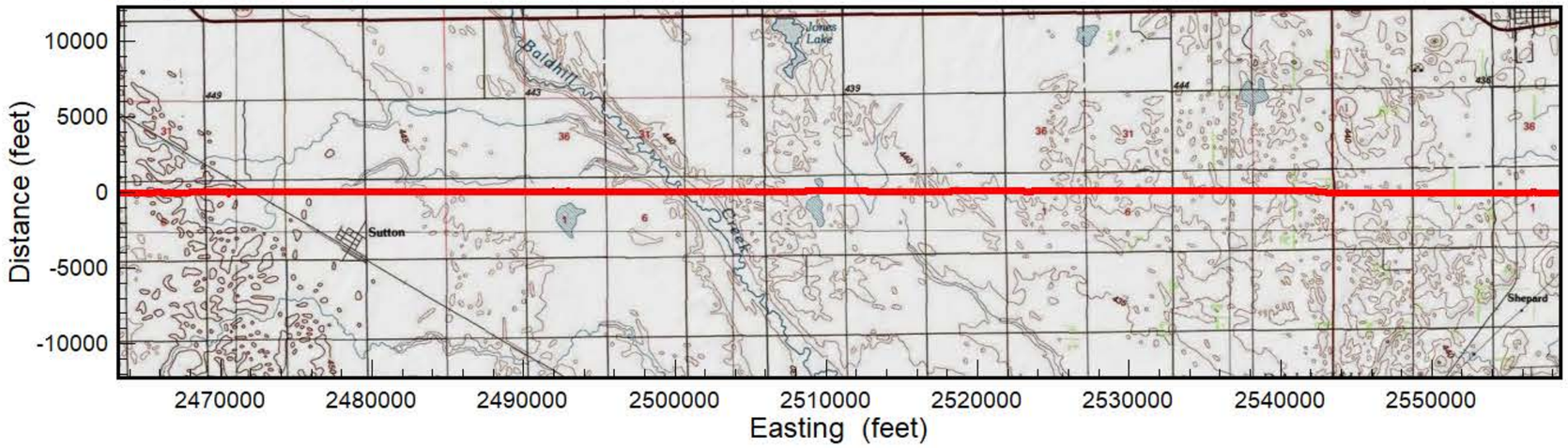


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
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- FILL
- TOPSOIL
- NOSAMPLE

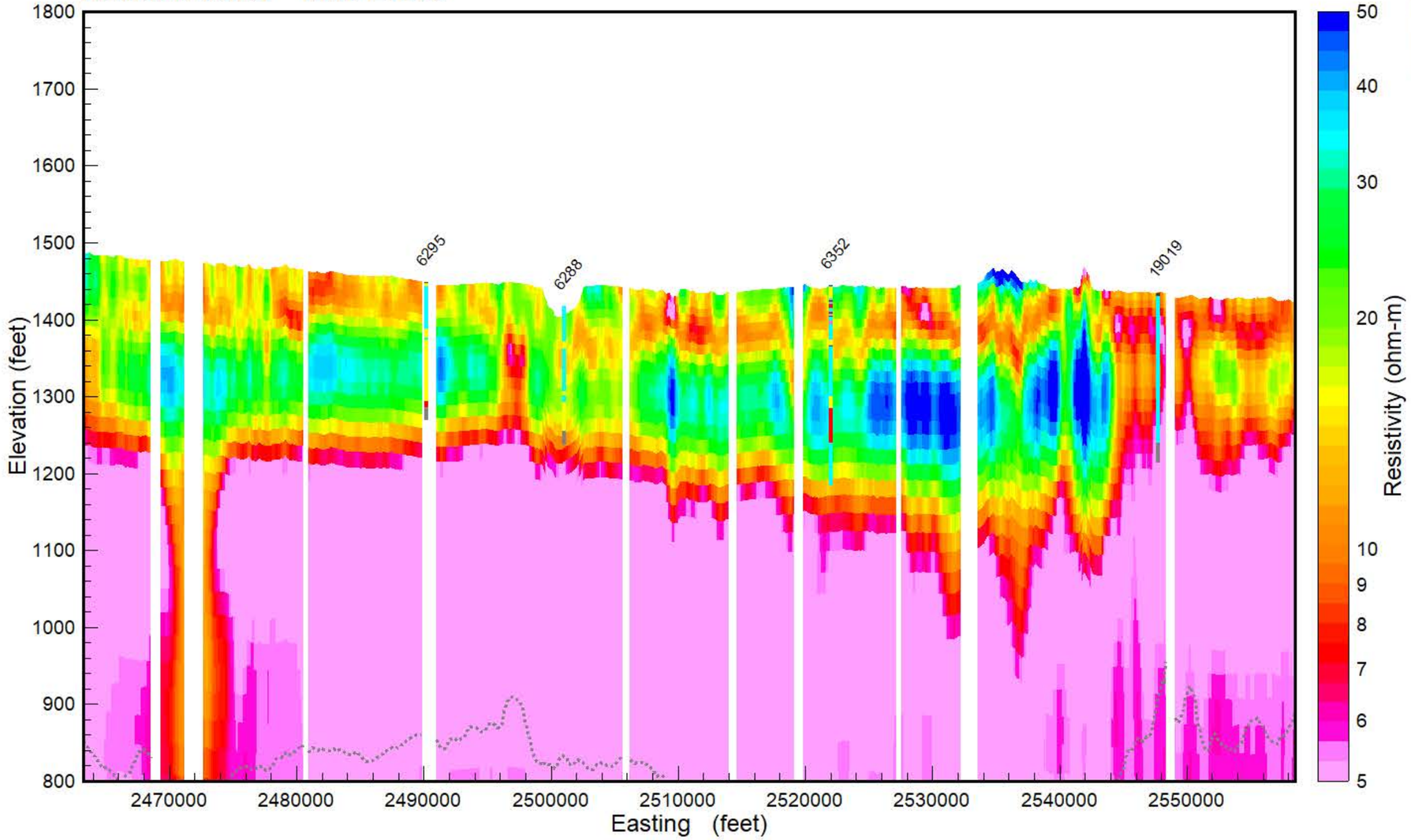
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L3205

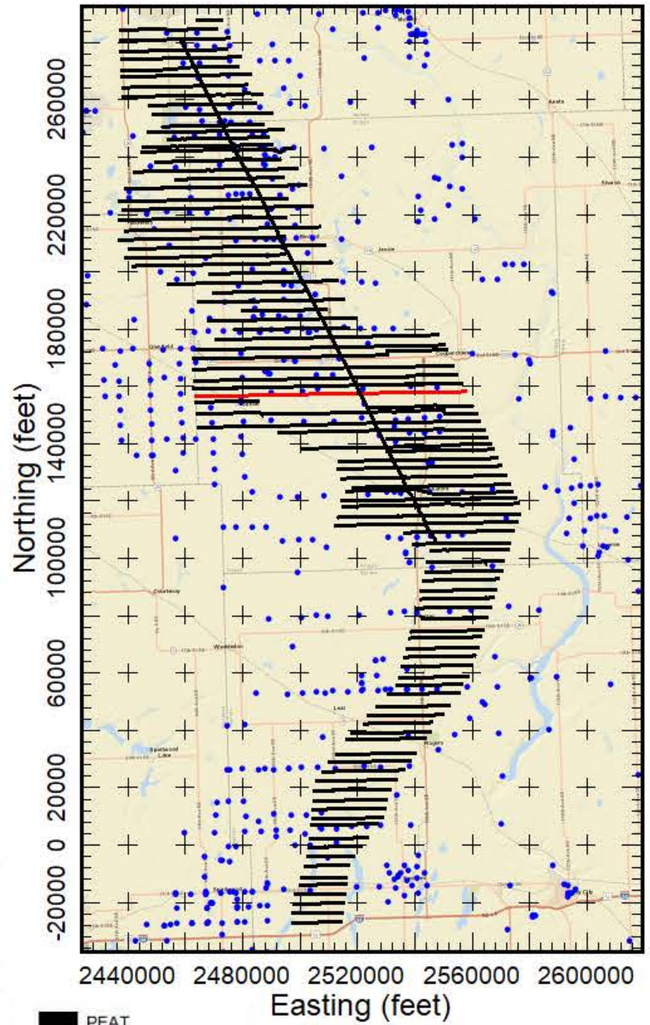


AEM Inversion Line L3205



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

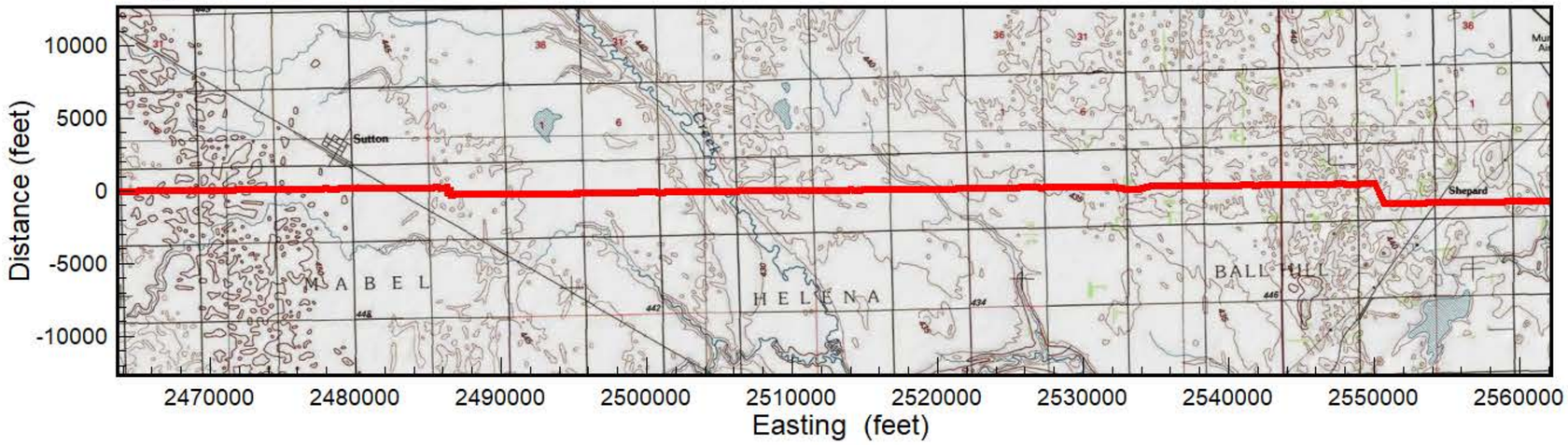


- PEAT
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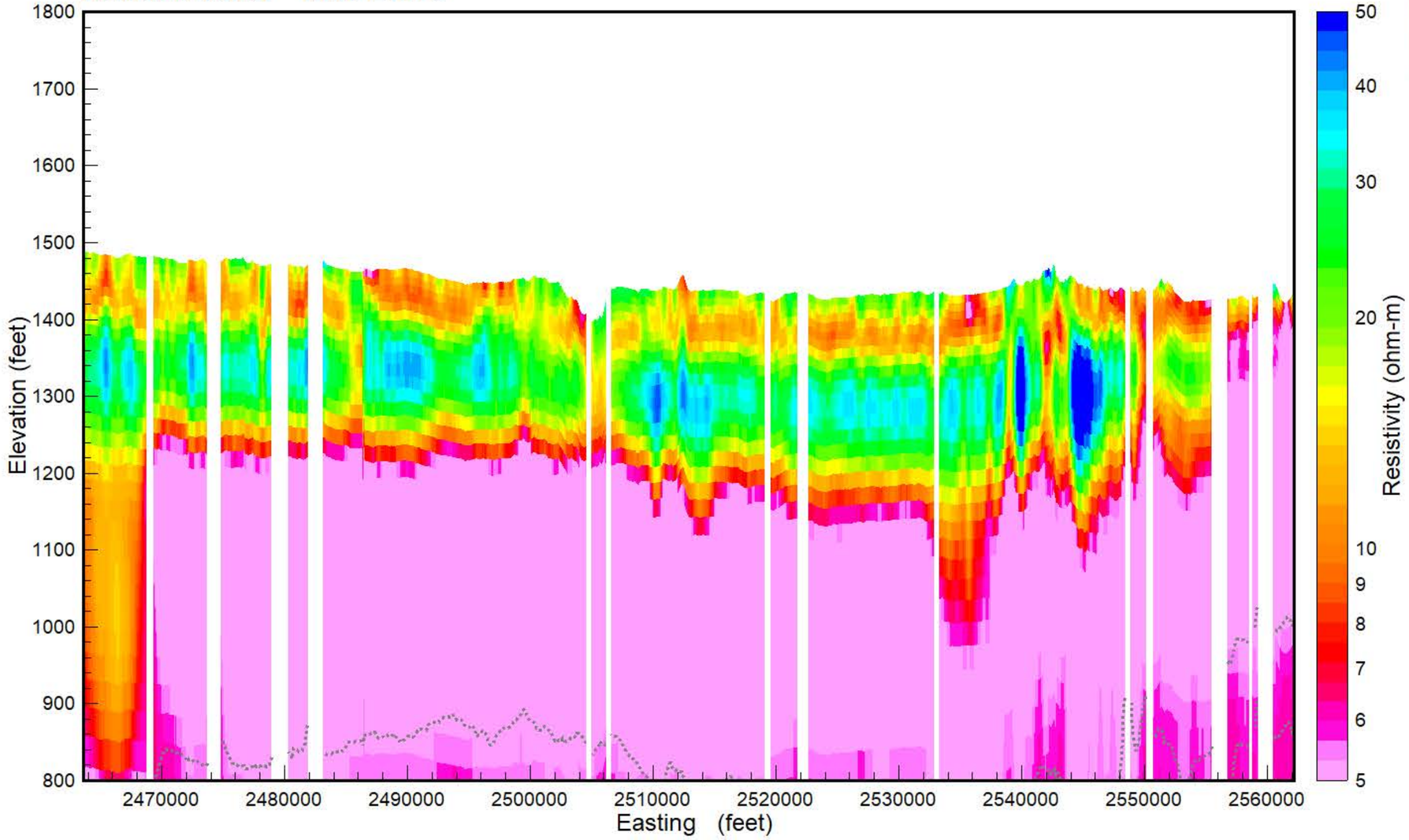
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L3215

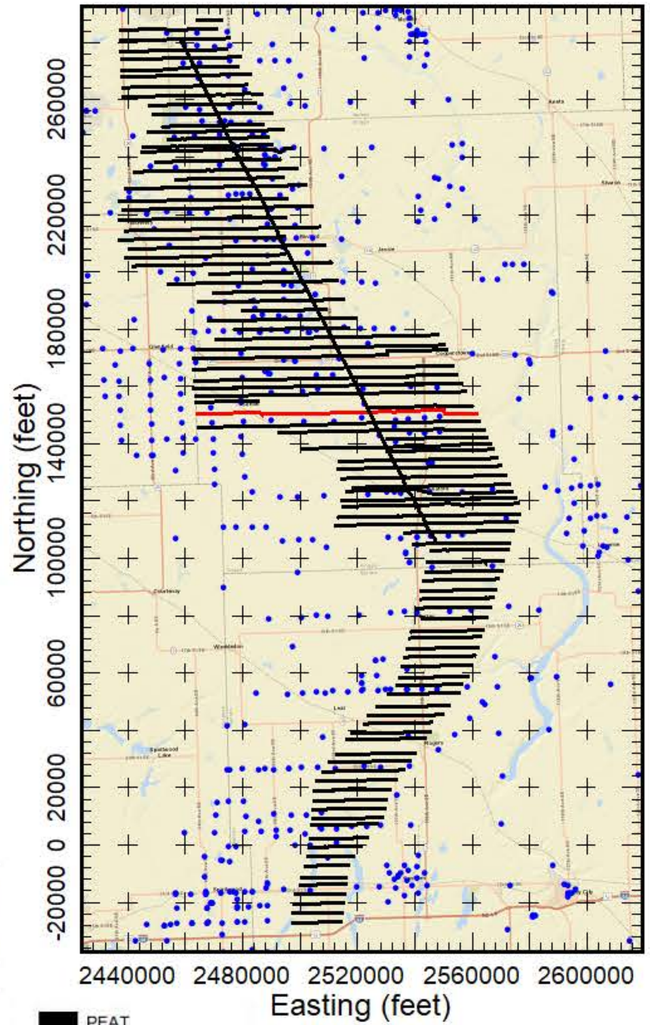


AEM Inversion Line L3215



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Be Legendary.

Flight Area Griggs

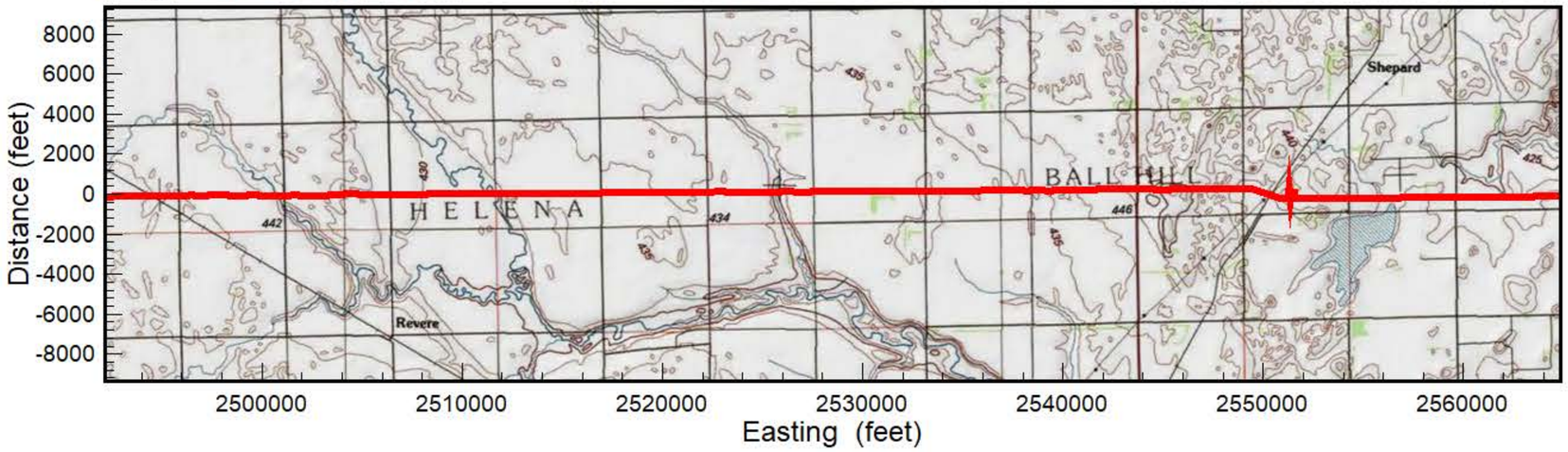


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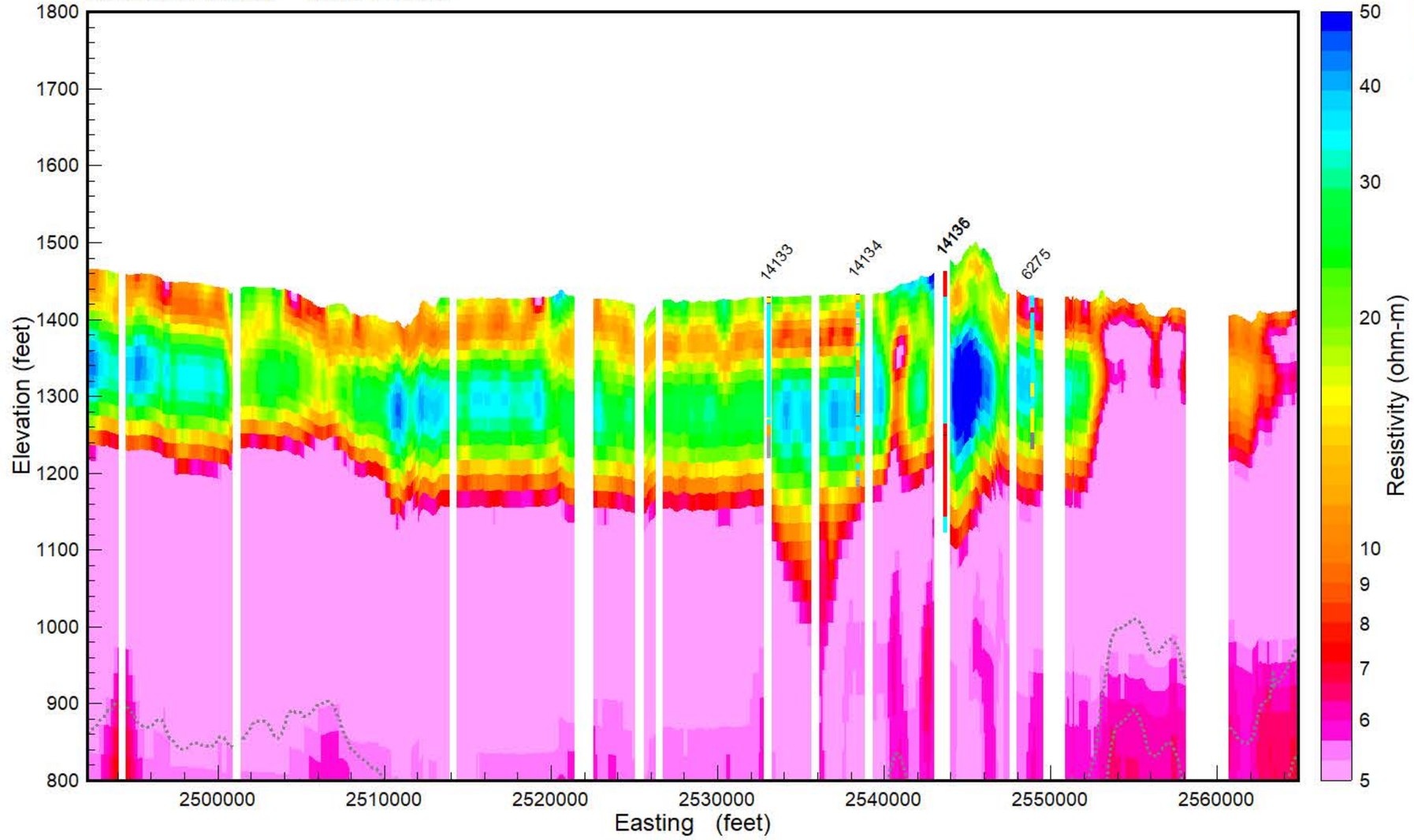
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Flight Path Line L3225

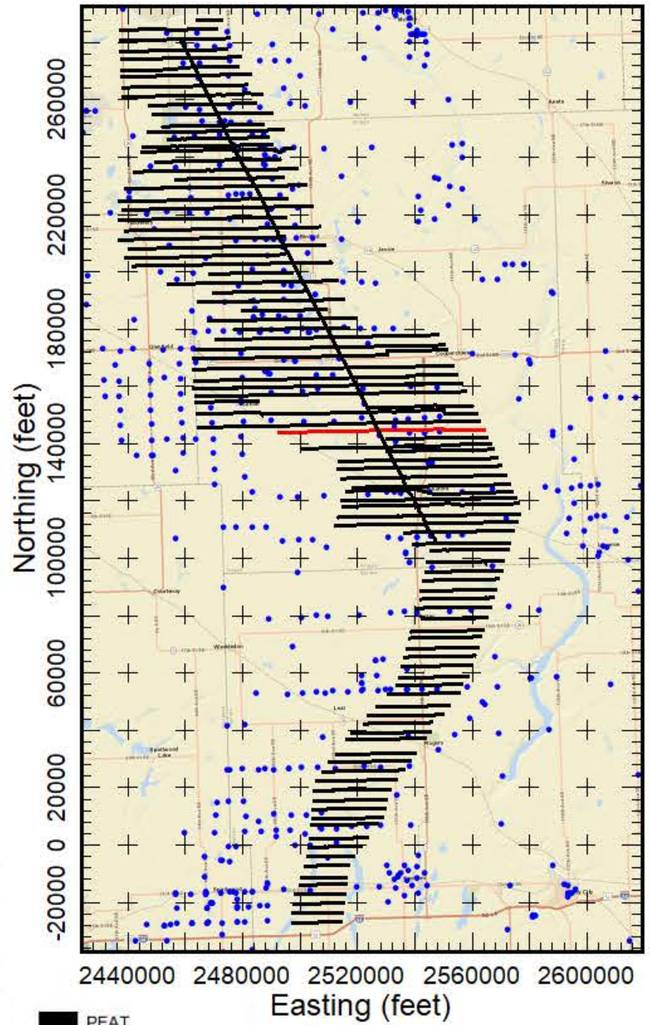


AEM Inversion Line L3225



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Flight Area Griggs

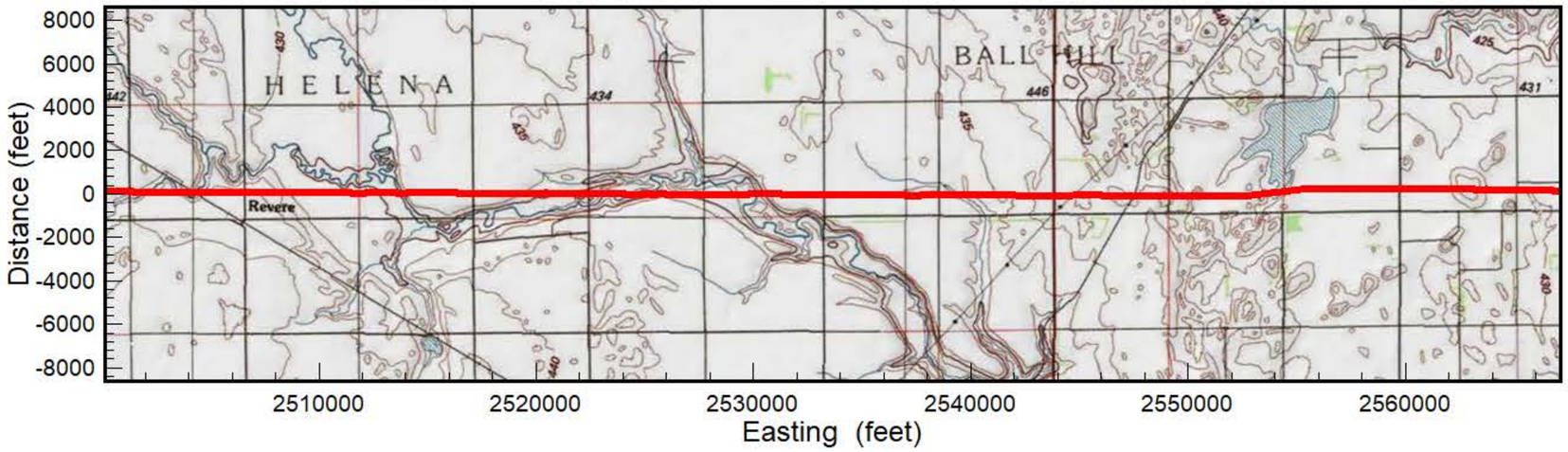


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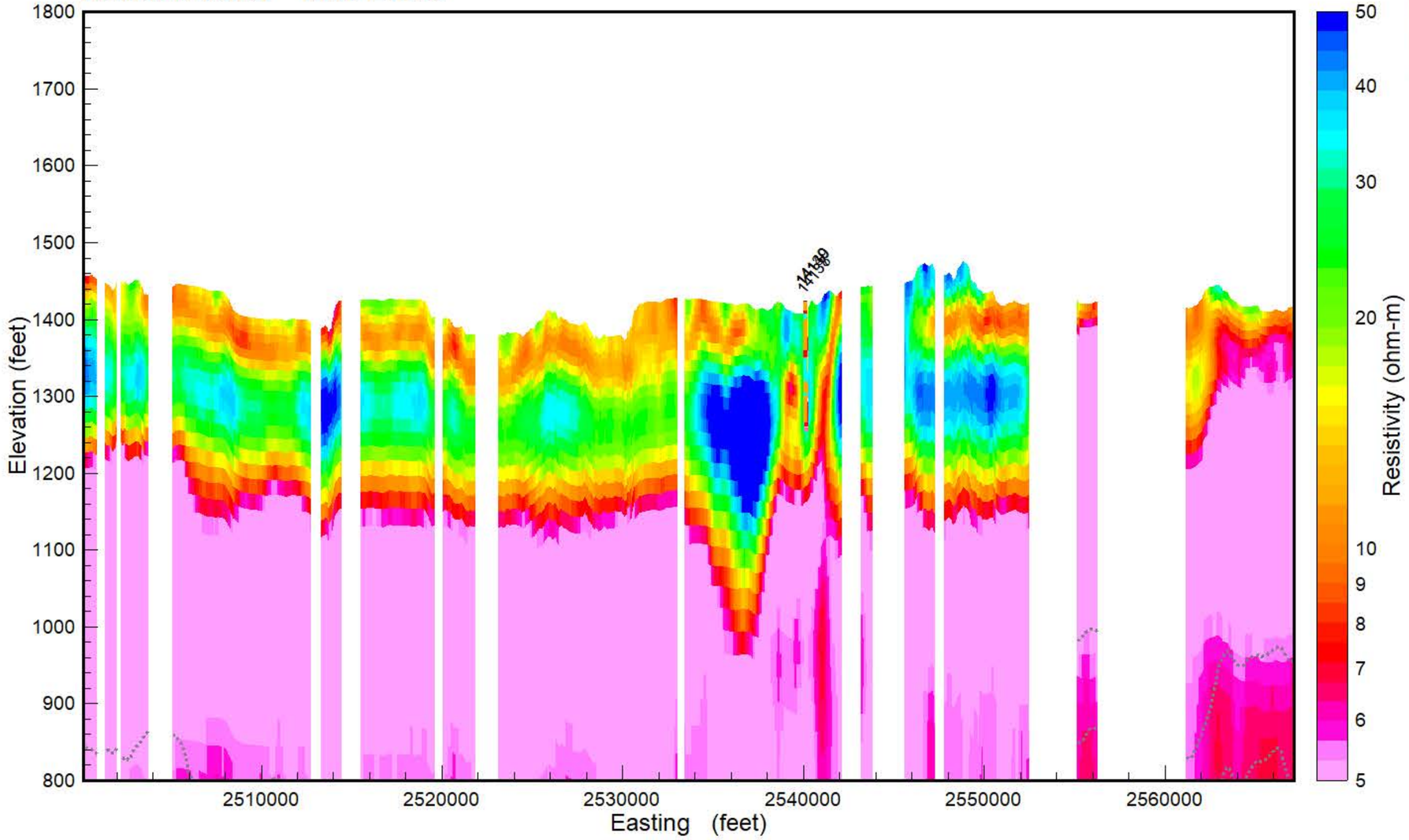
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Flight Path Line L3235

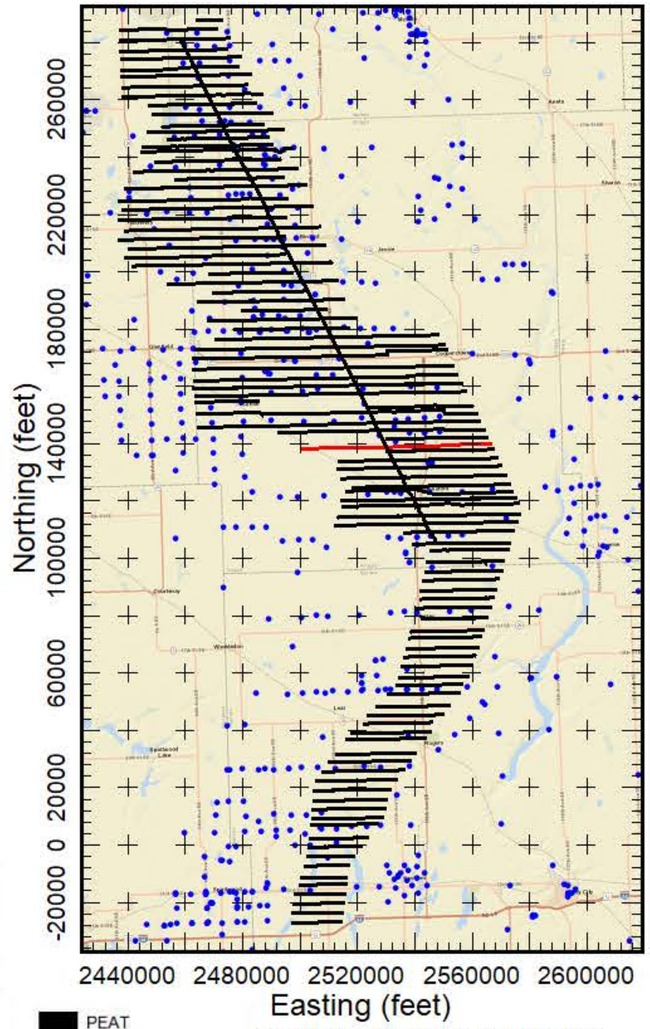


AEM Inversion Line L3235



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Be Legendary.

Flight Area Griggs

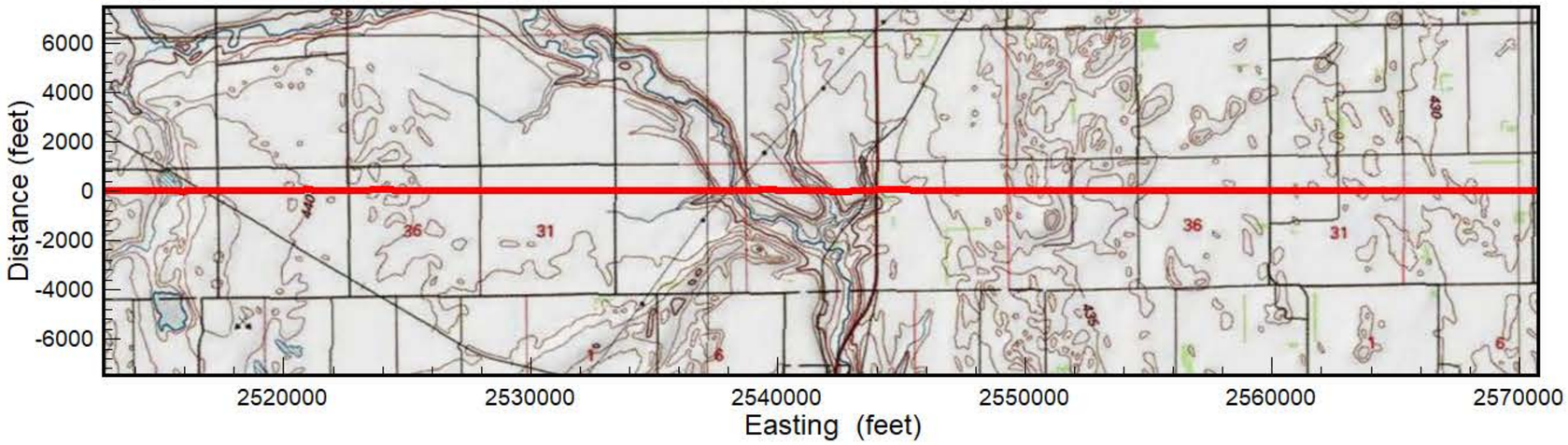


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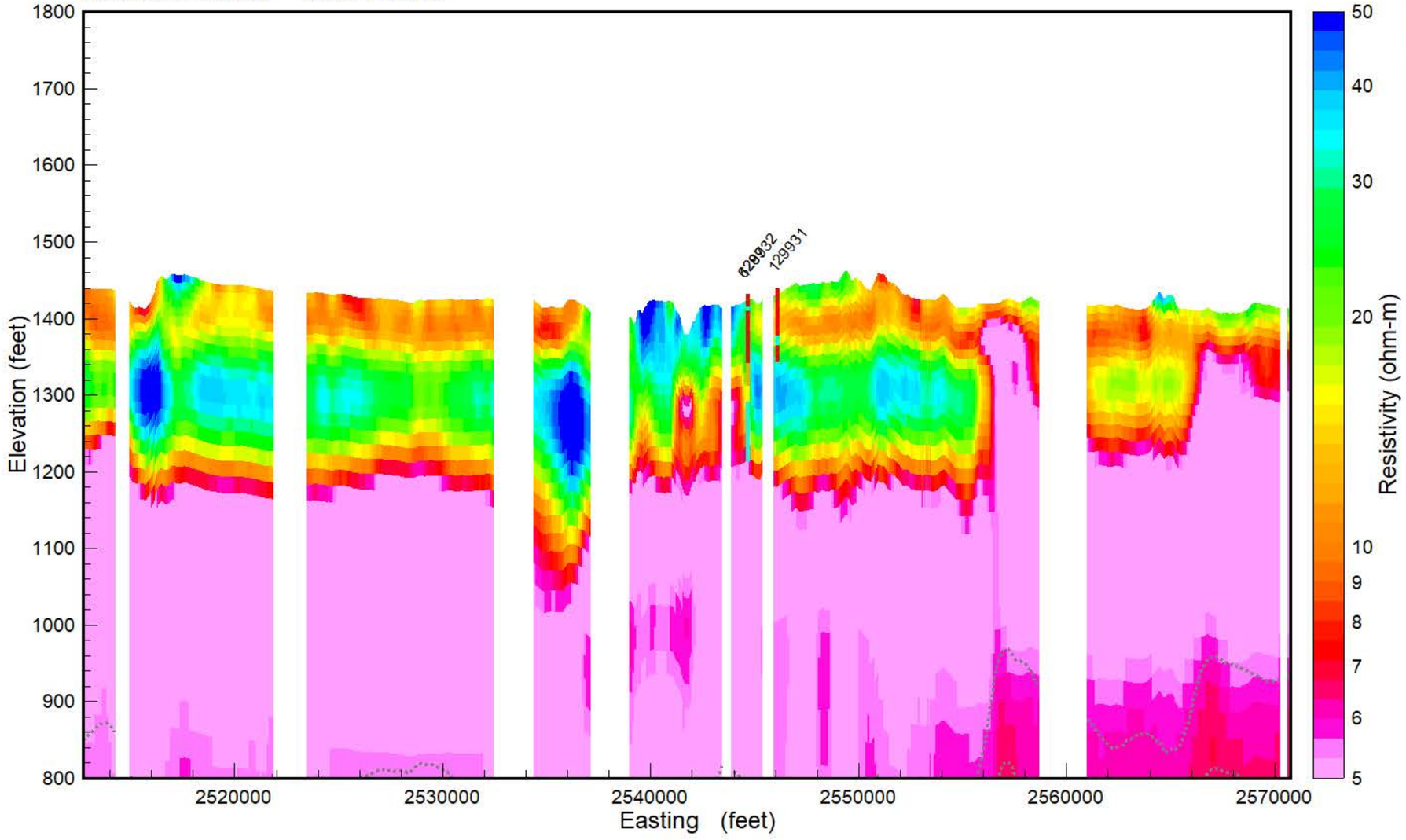
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L3245

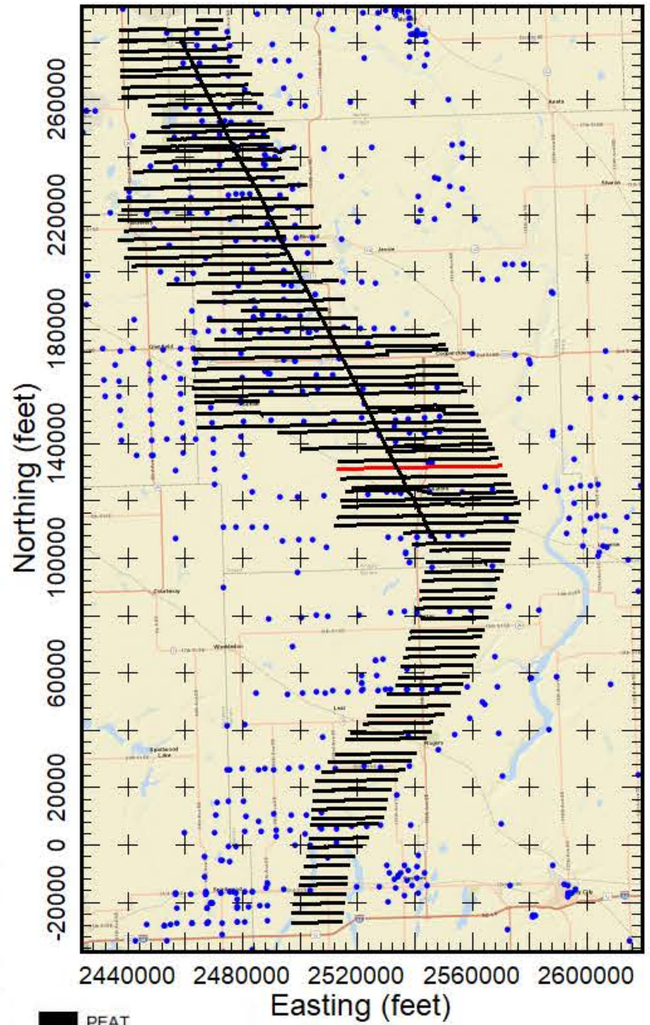


AEM Inversion Line L3245



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Flight Area Griggs

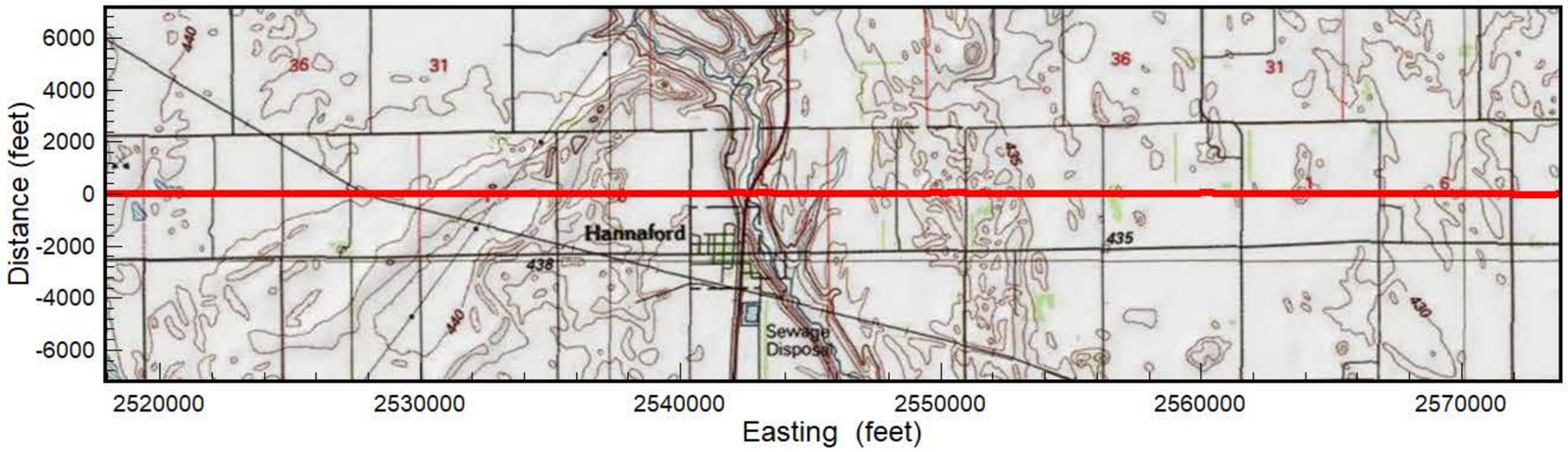


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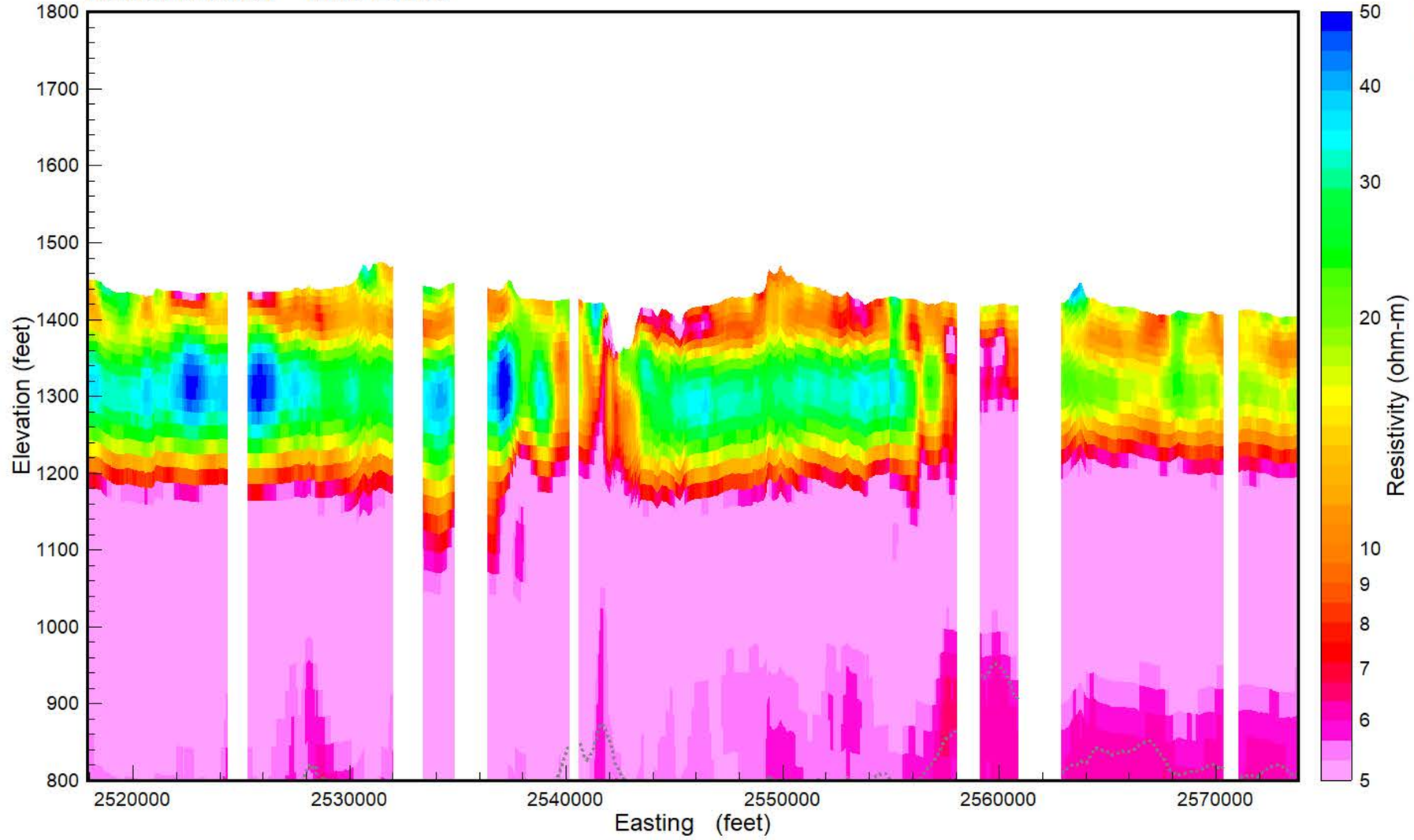
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Flight Path Line L3255

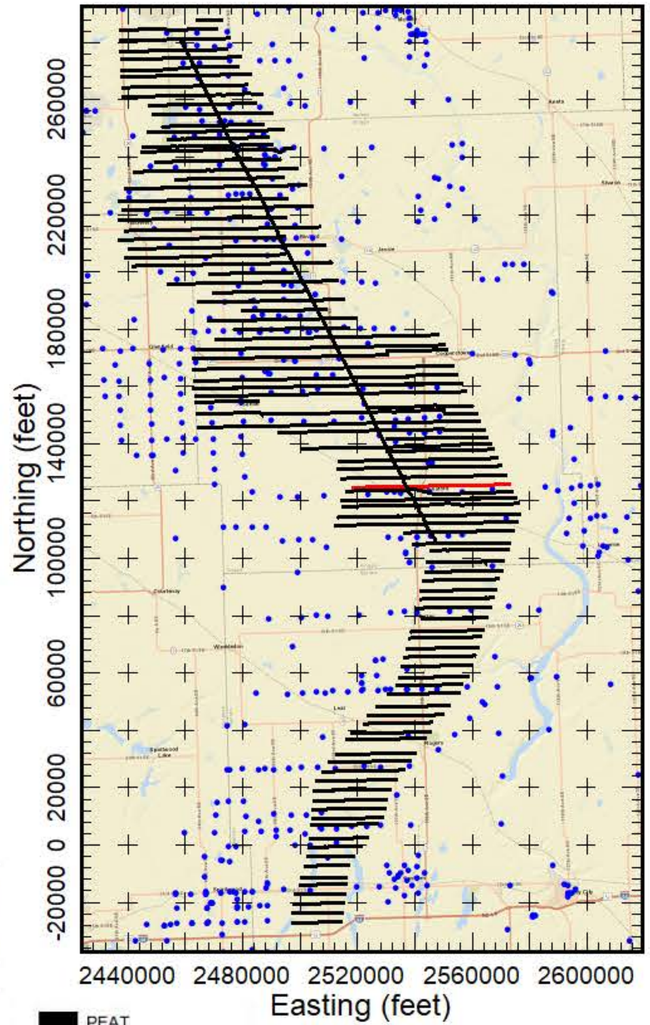


AEM Inversion Line L3255



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Be Legendary.

Flight Area Griggs

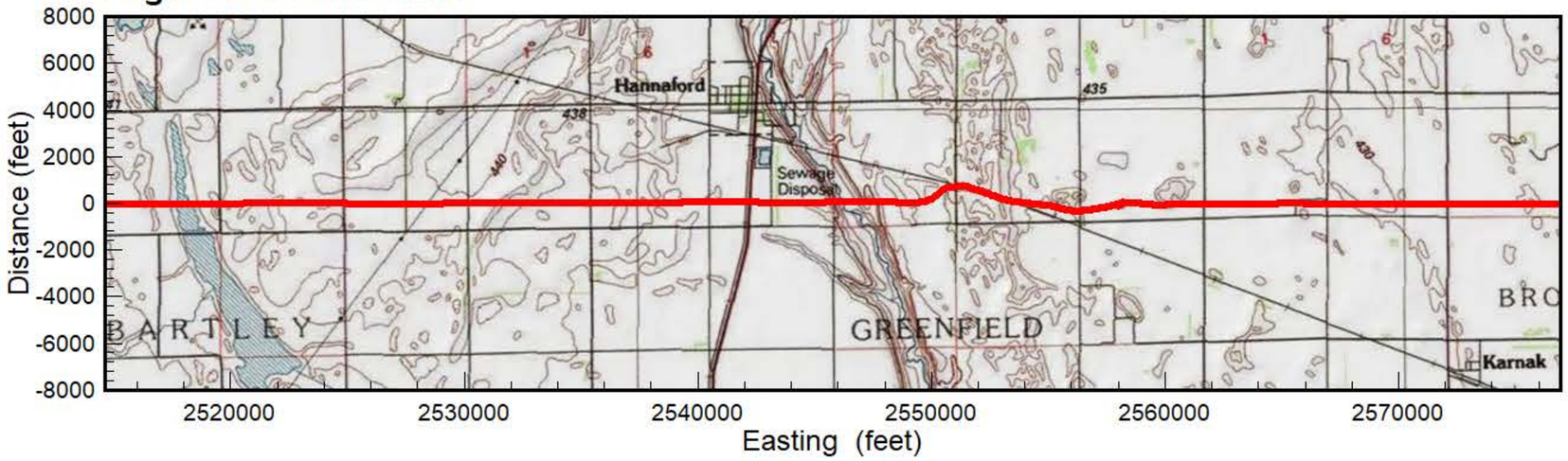


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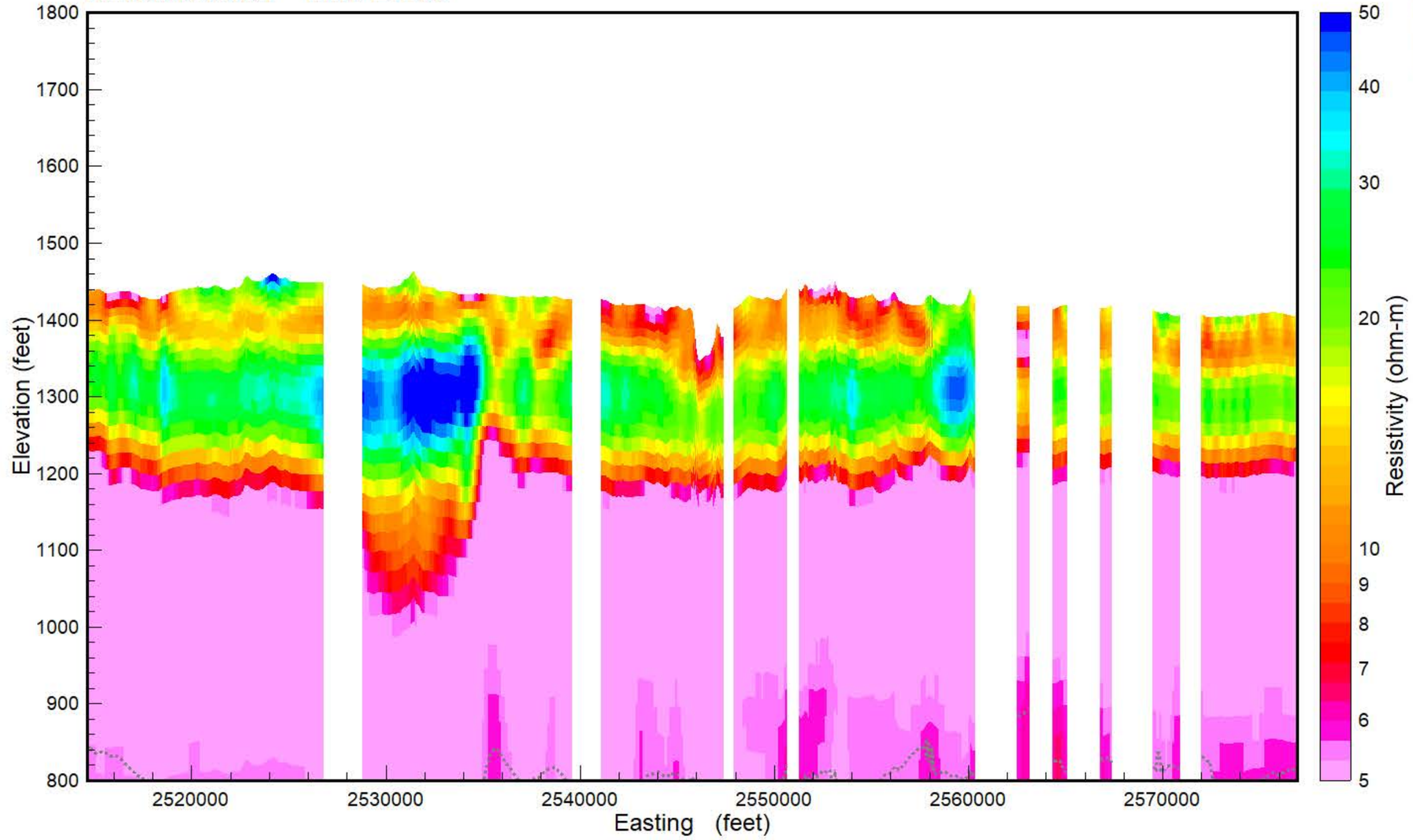
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Flight Path Line L3265

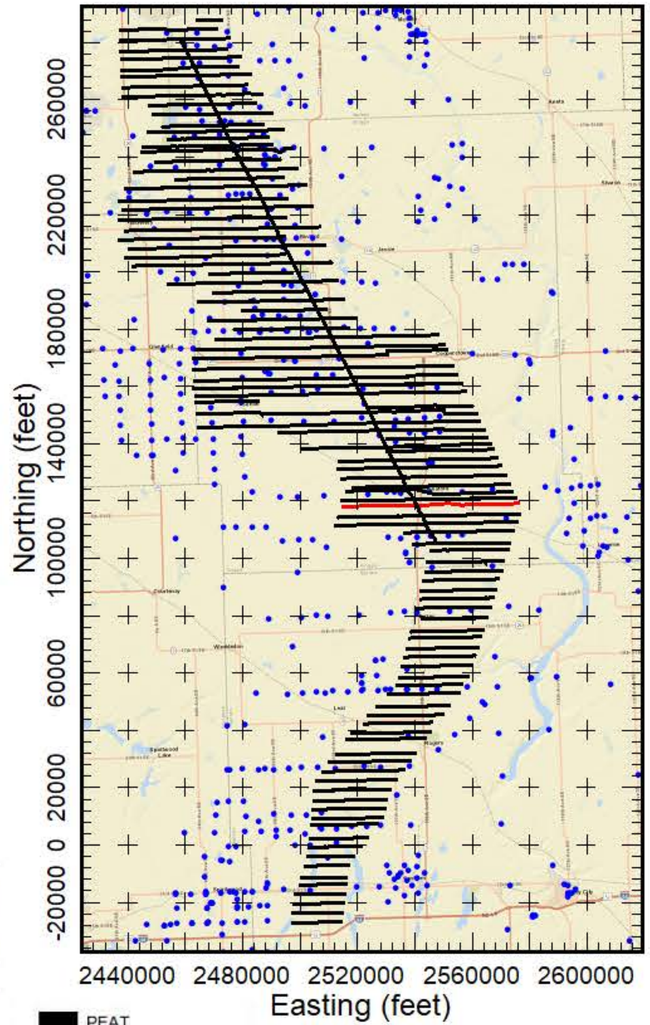


AEM Inversion Line L3265



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

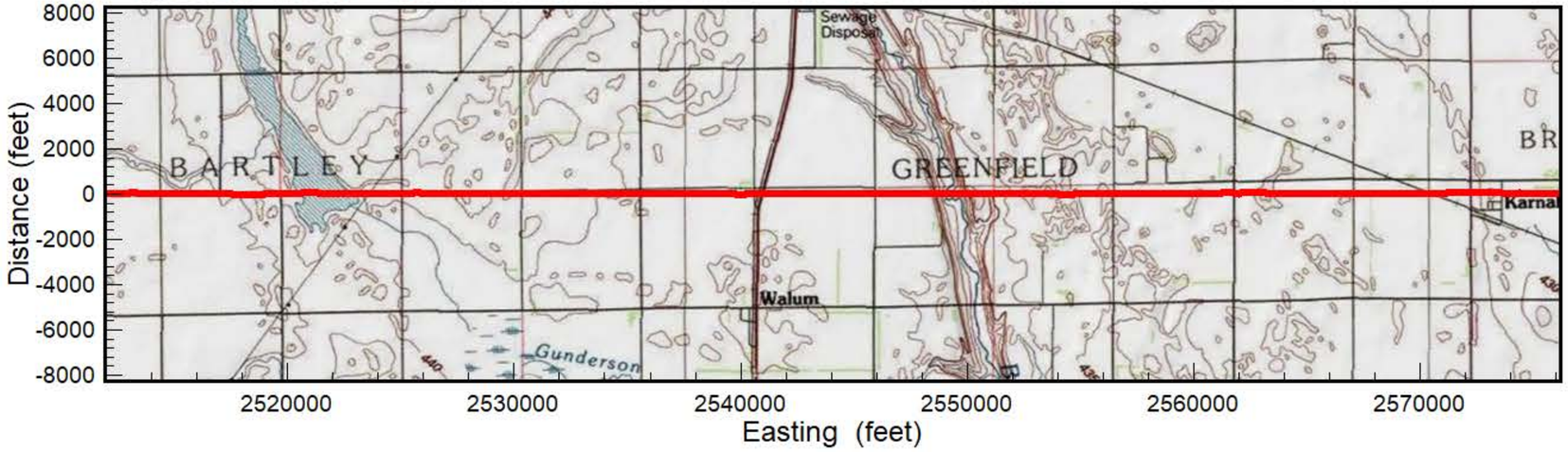


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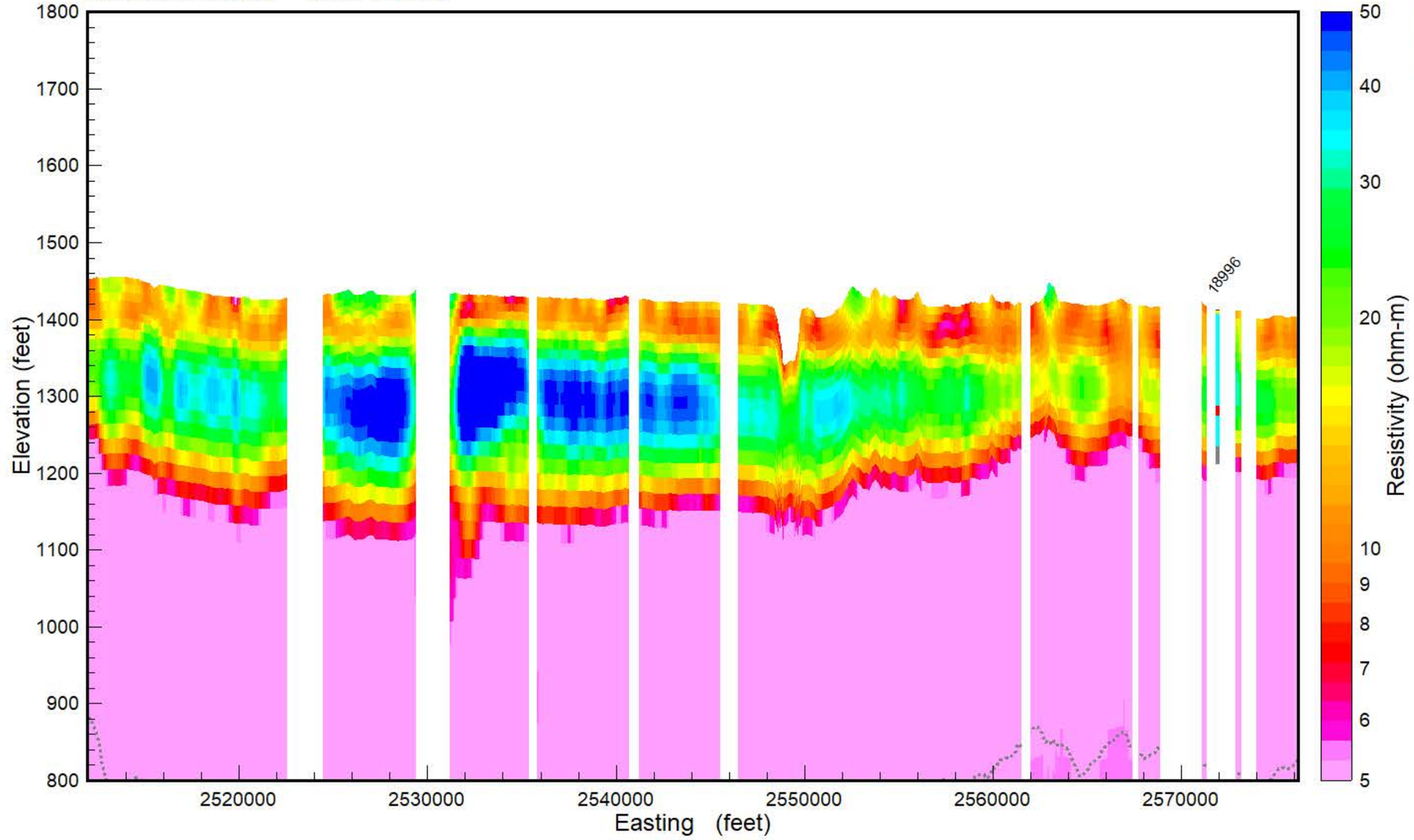
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Flight Path Line L3275

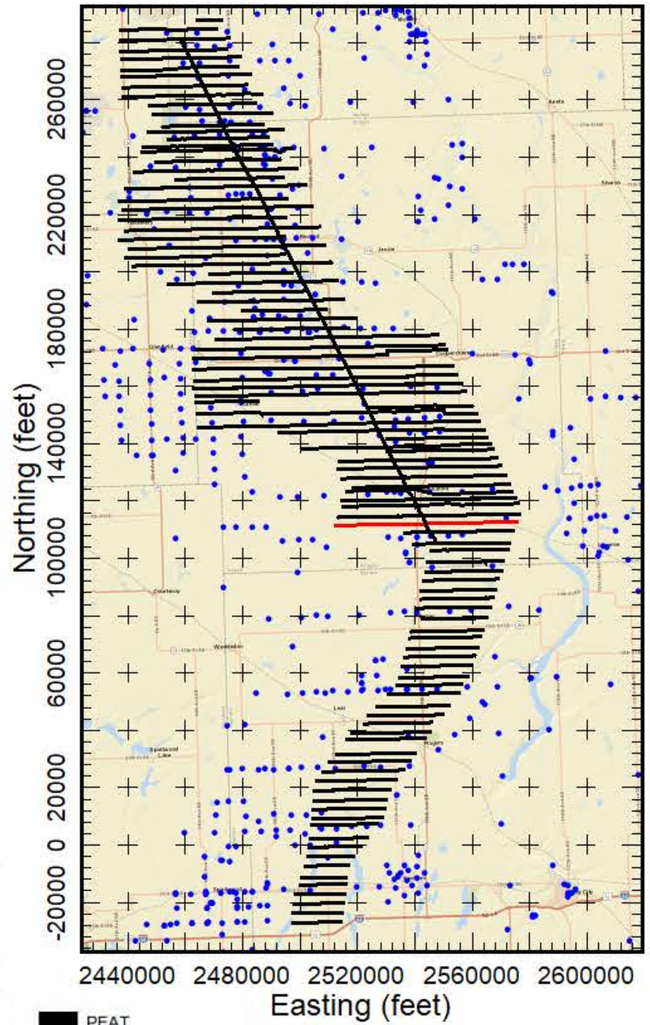


AEM Inversion Line L3275



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs



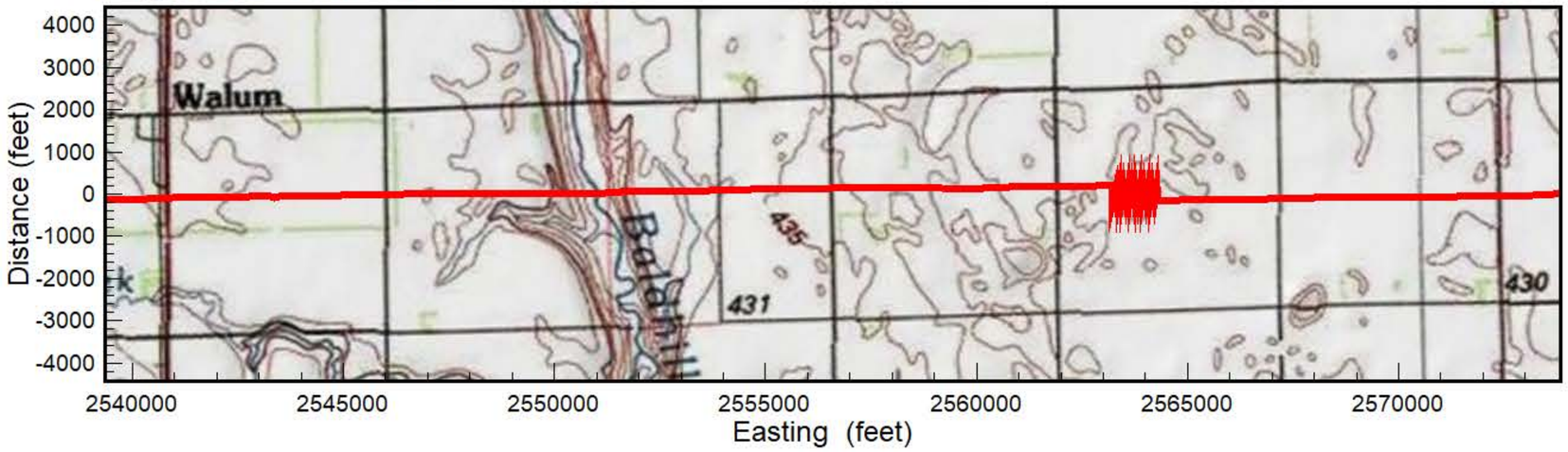
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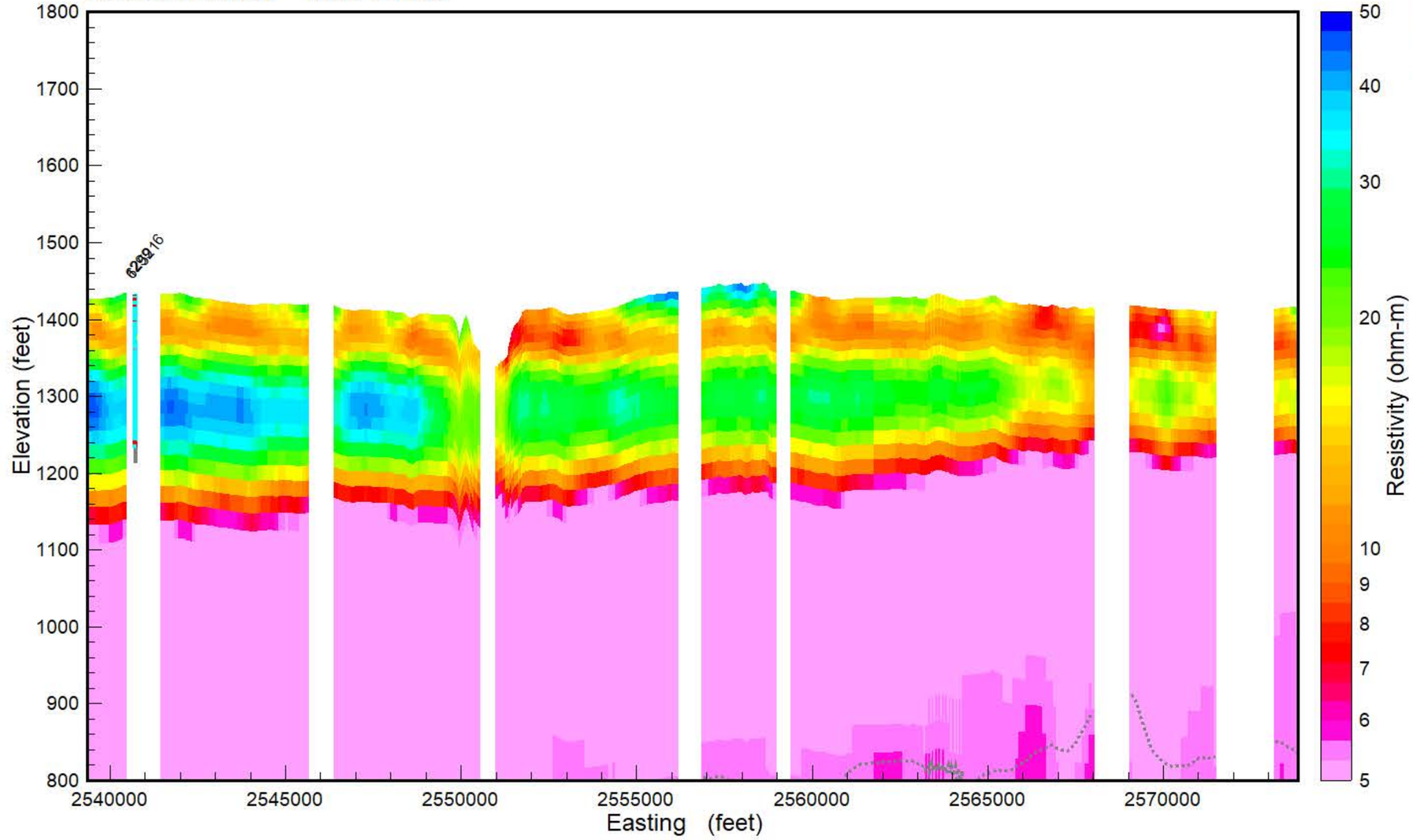
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AGF Aqua Geo Frameworks

Flight Path Line L3285

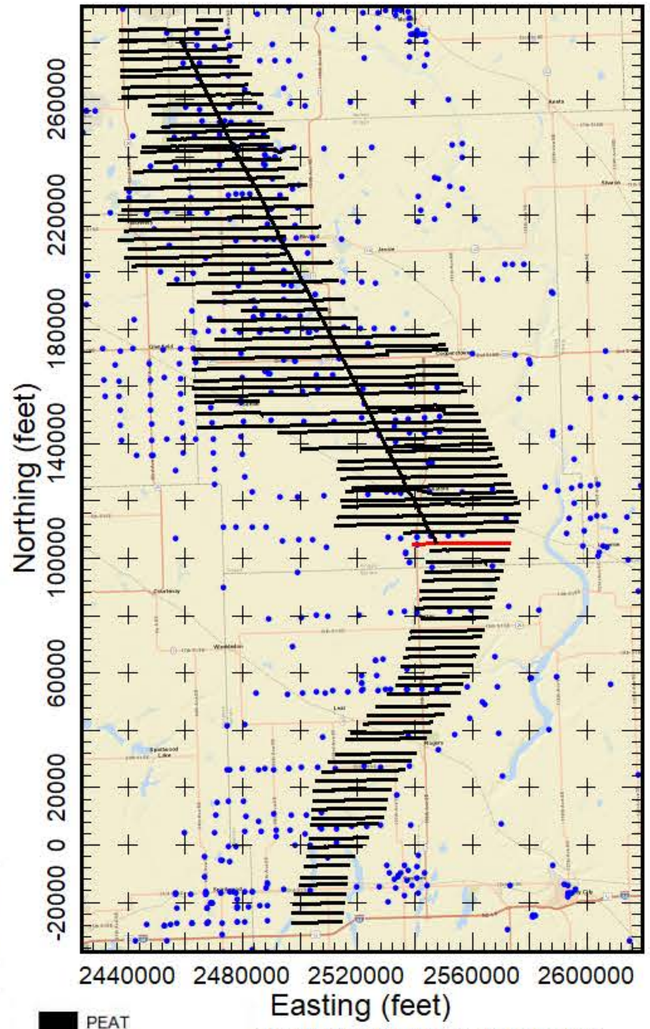


AEM Inversion Line L3285



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Flight Area Griggs

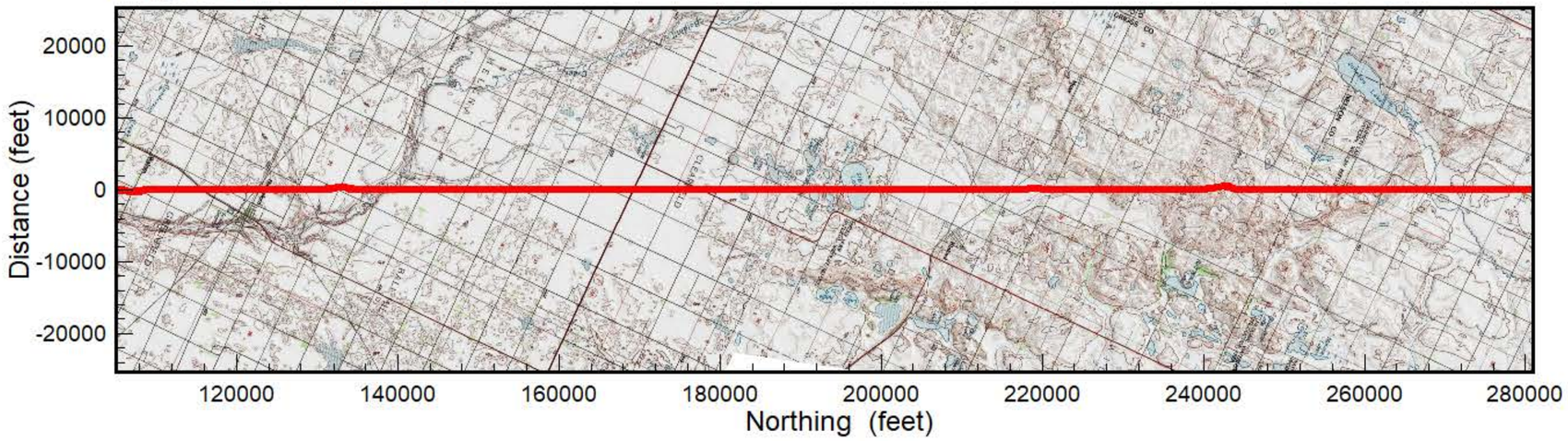


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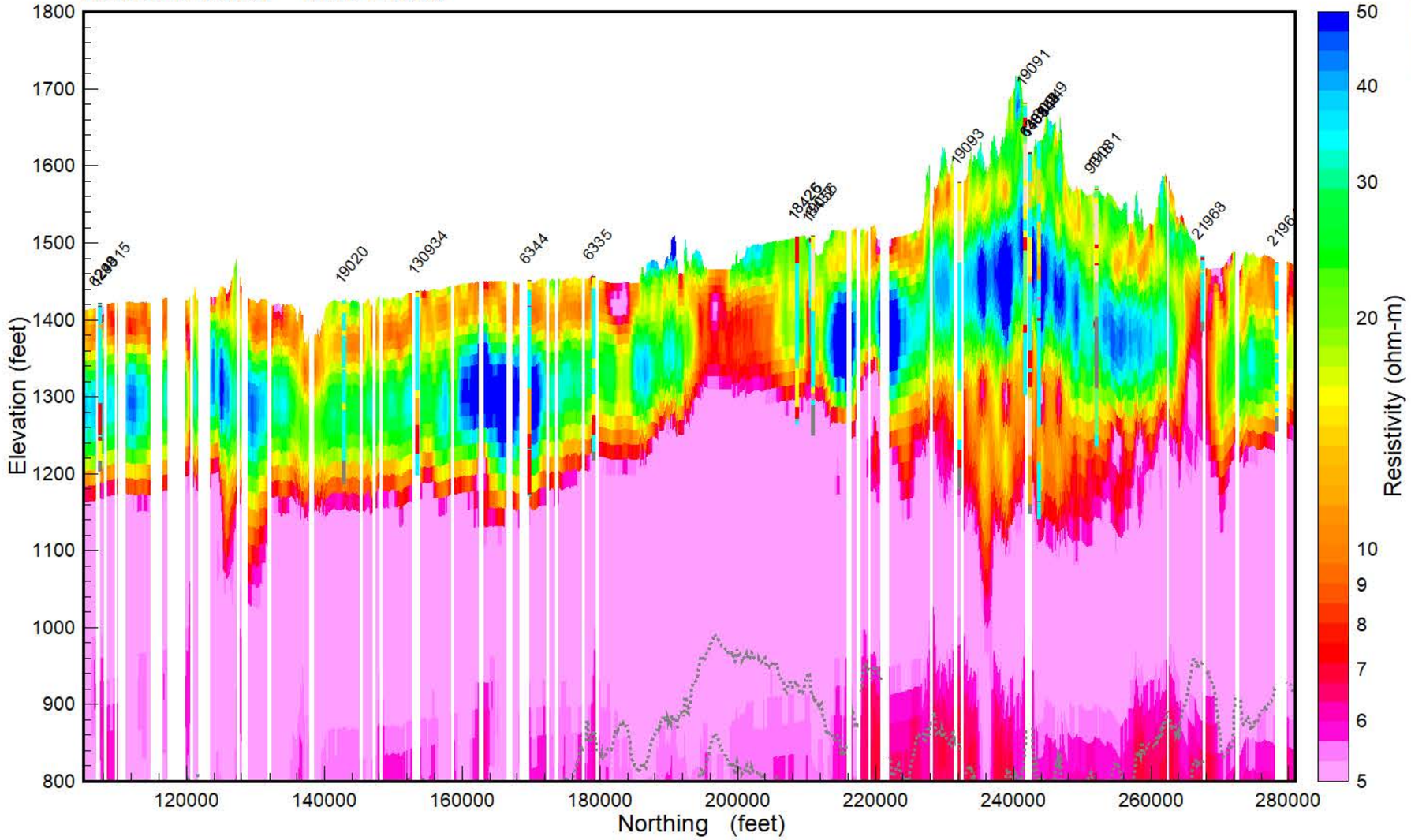
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Flight Path Line L4000

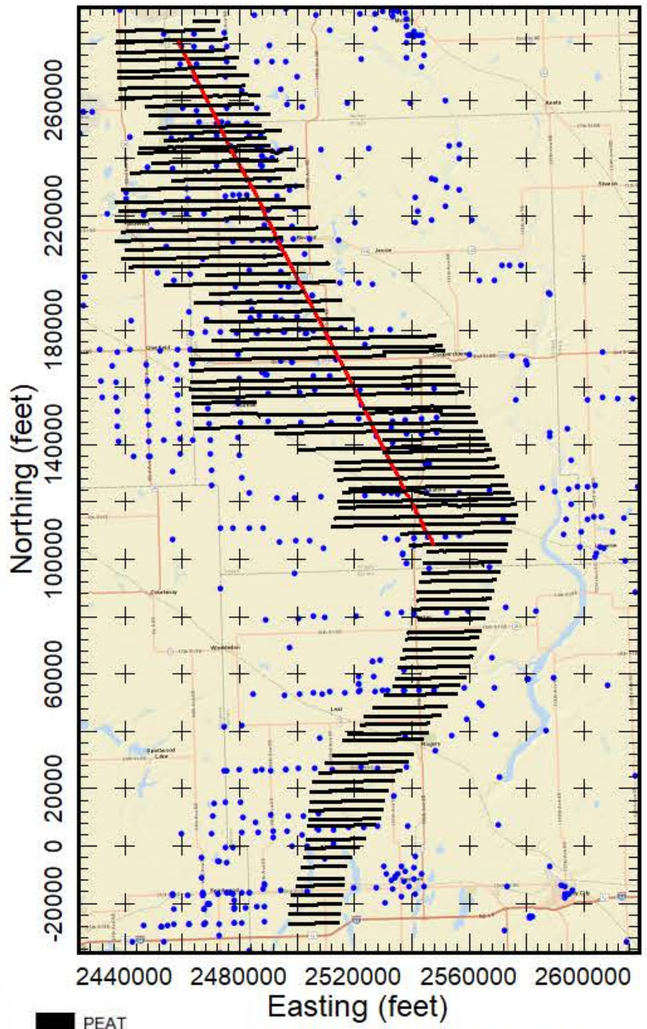


AEM Inversion Line L4000



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Flight Area Griggs

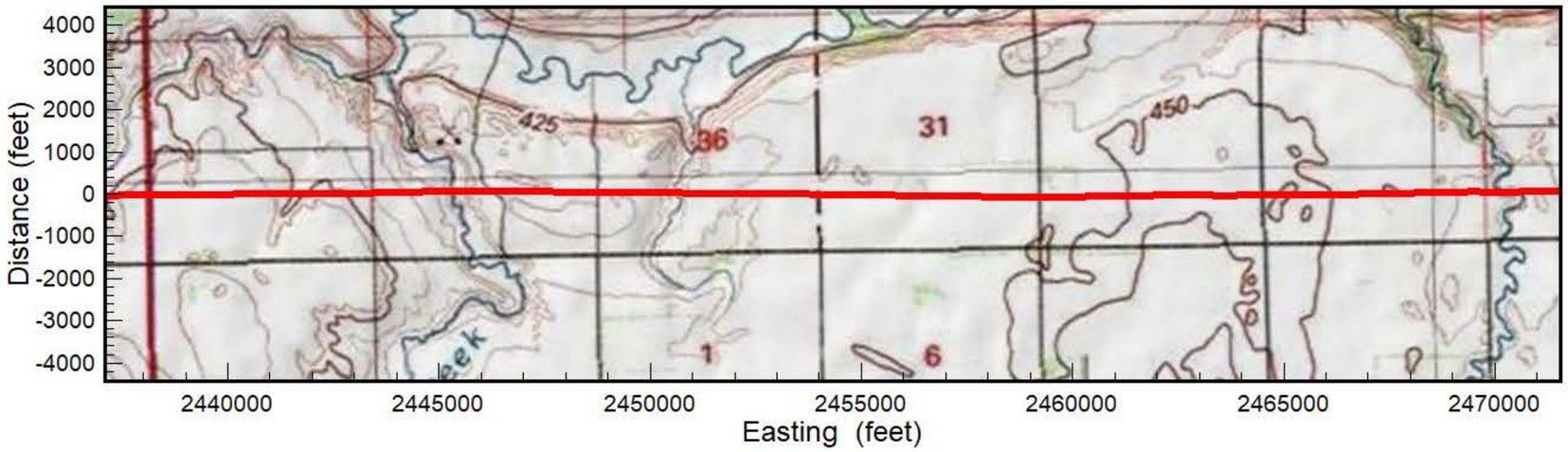


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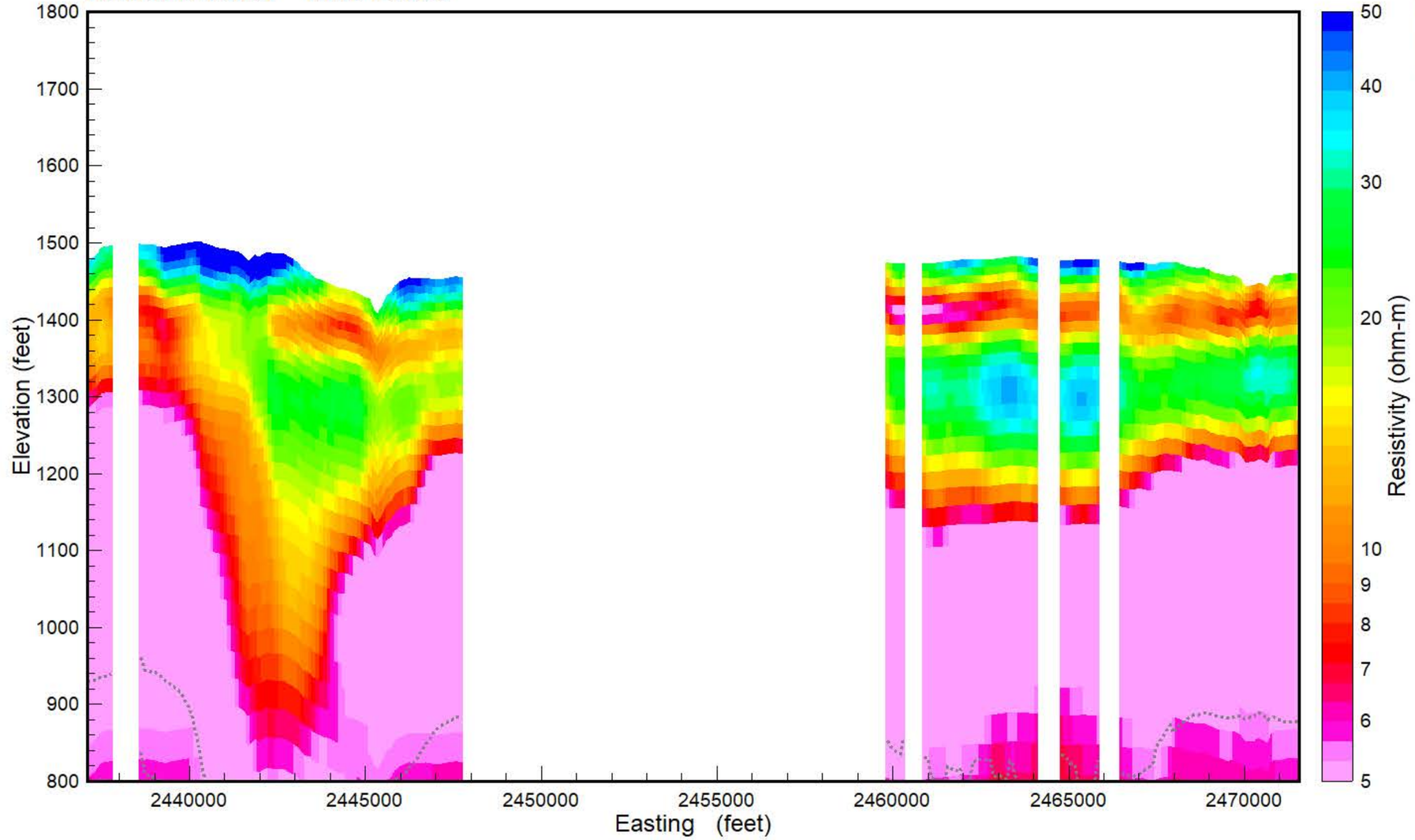
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Flight Path Line L5005

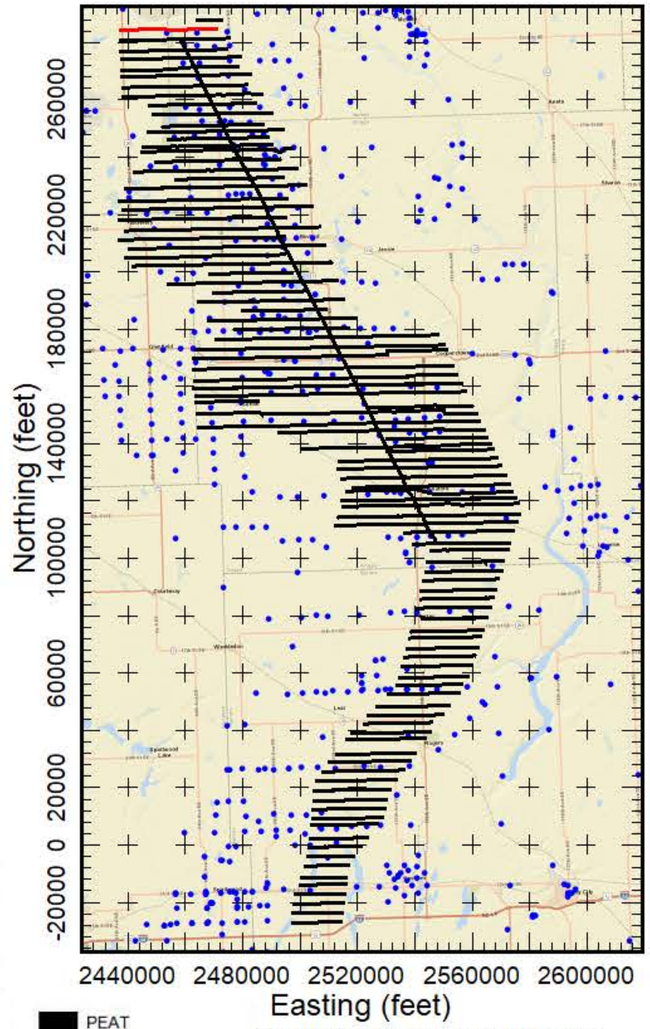


AEM Inversion Line L5005



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Be Legendary.

Flight Area Griggs

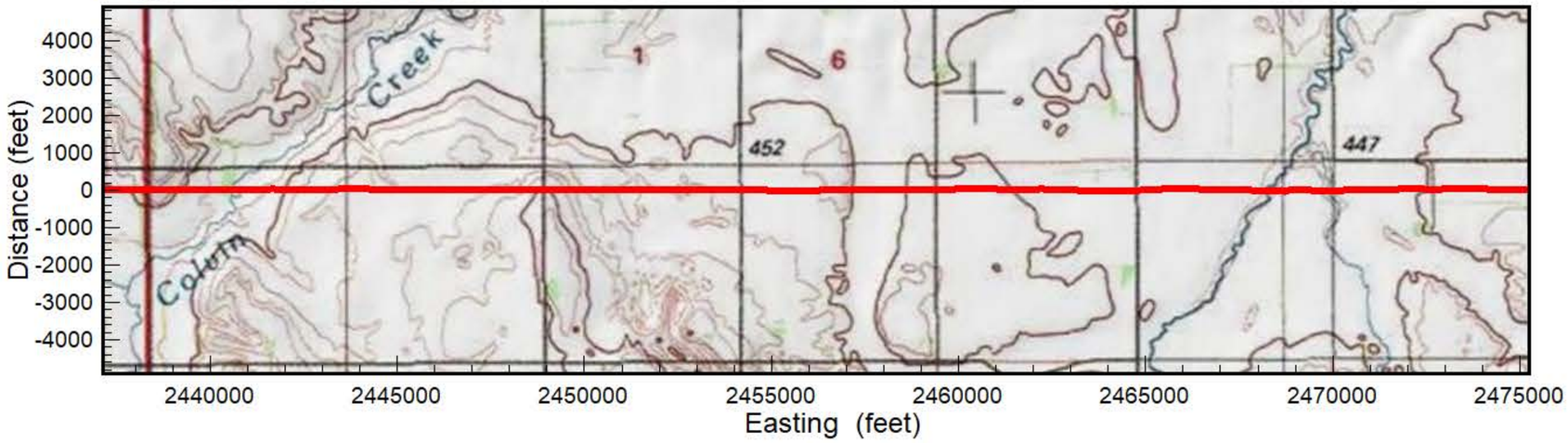


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- NOSAMPLE

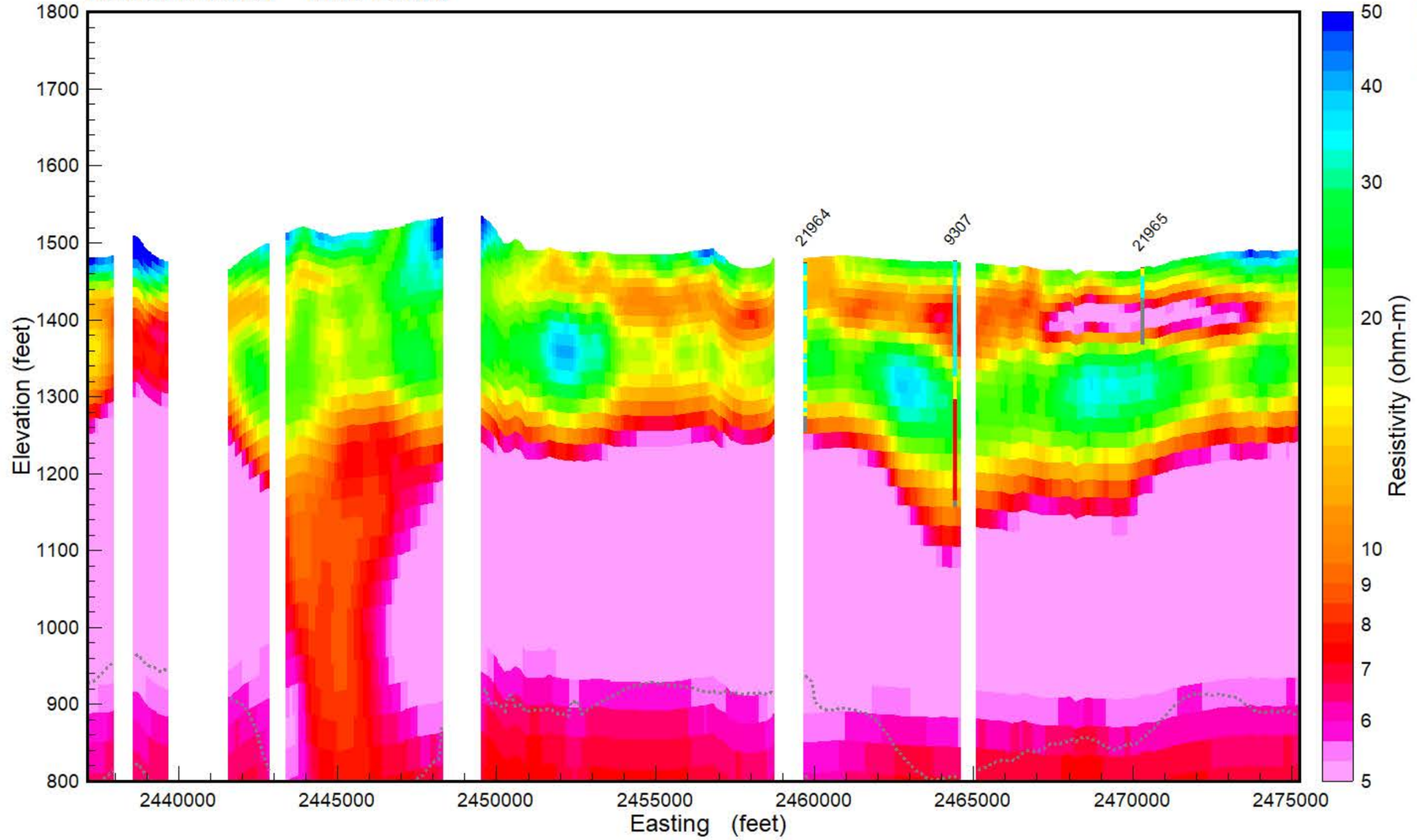
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5030

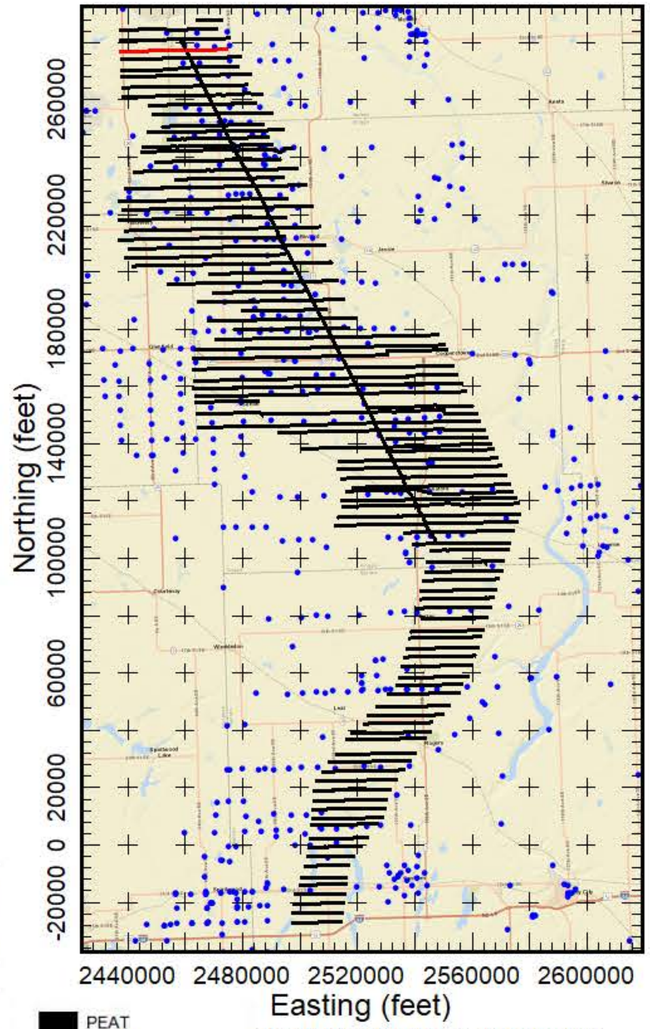


AEM Inversion Line L5030



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Be Legendary.

Flight Area Griggs

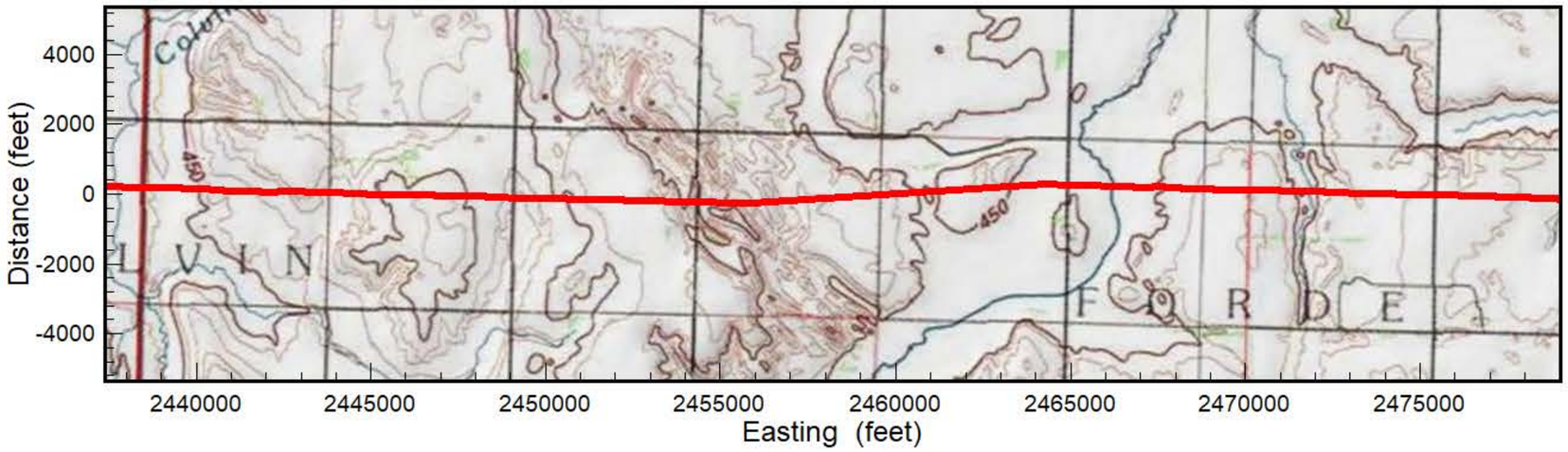




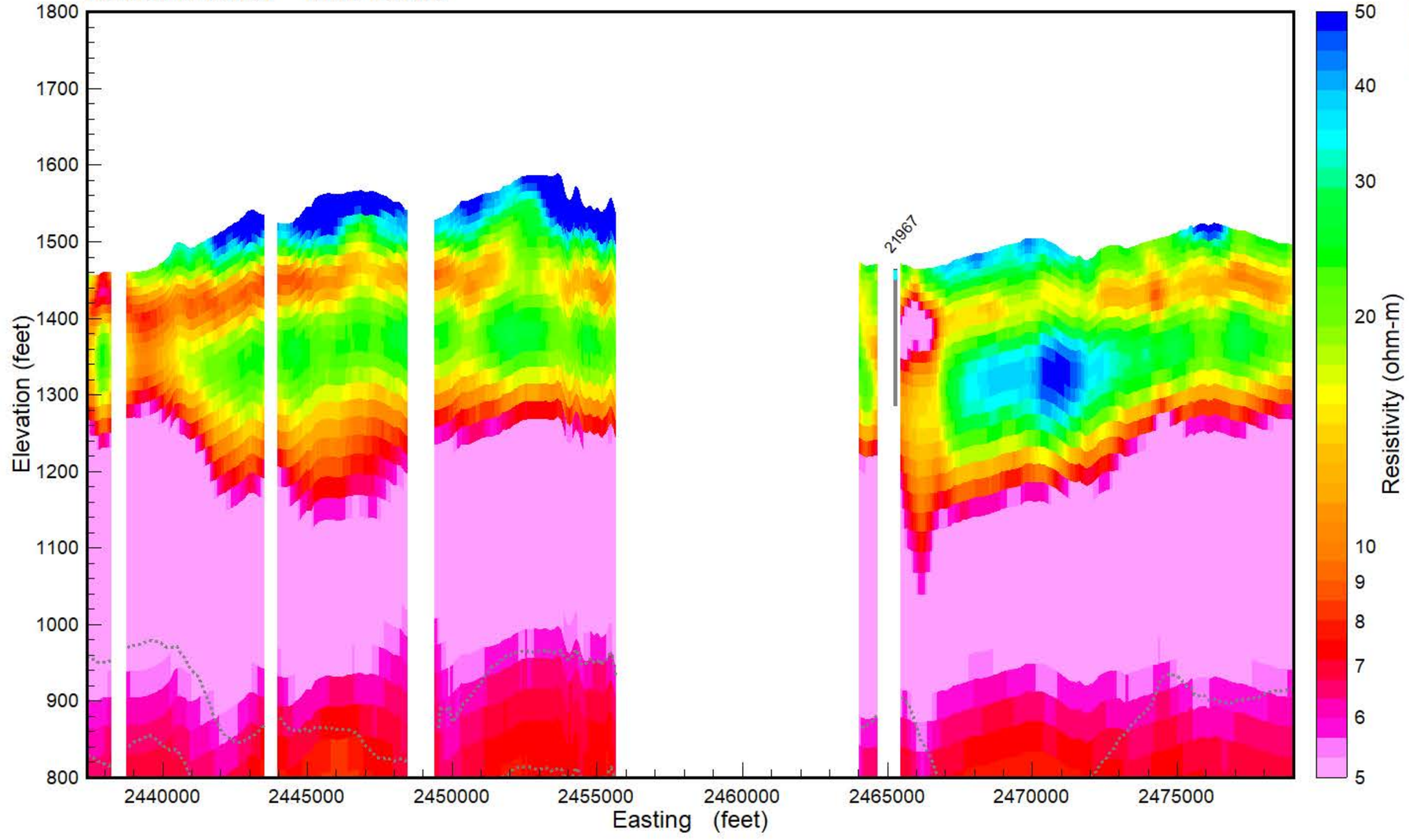
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5055

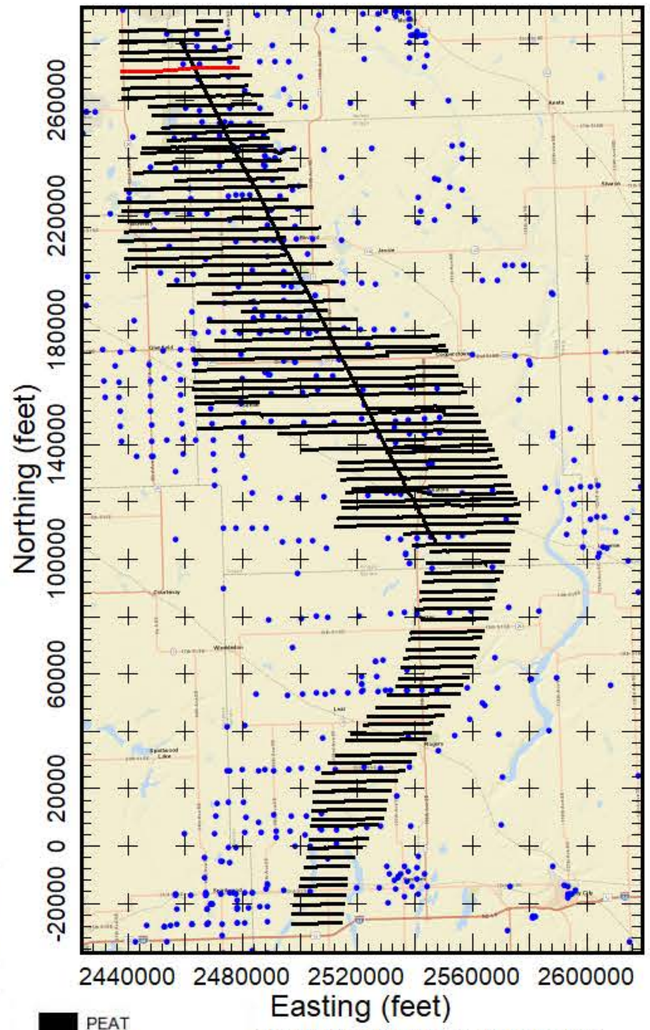


AEM Inversion Line L5055



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs



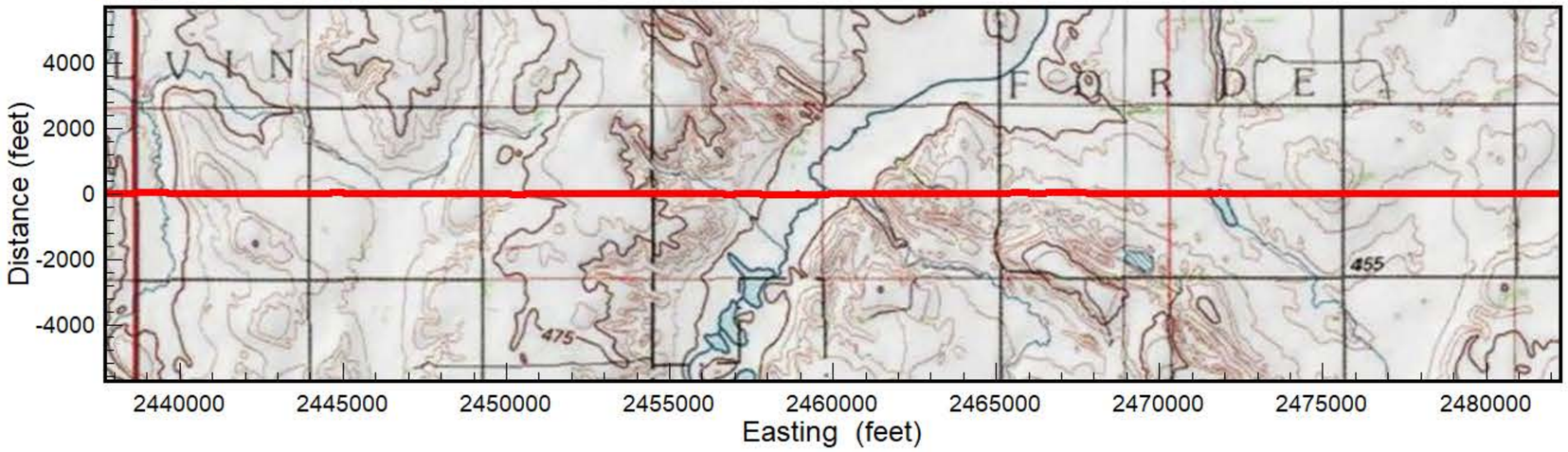
- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

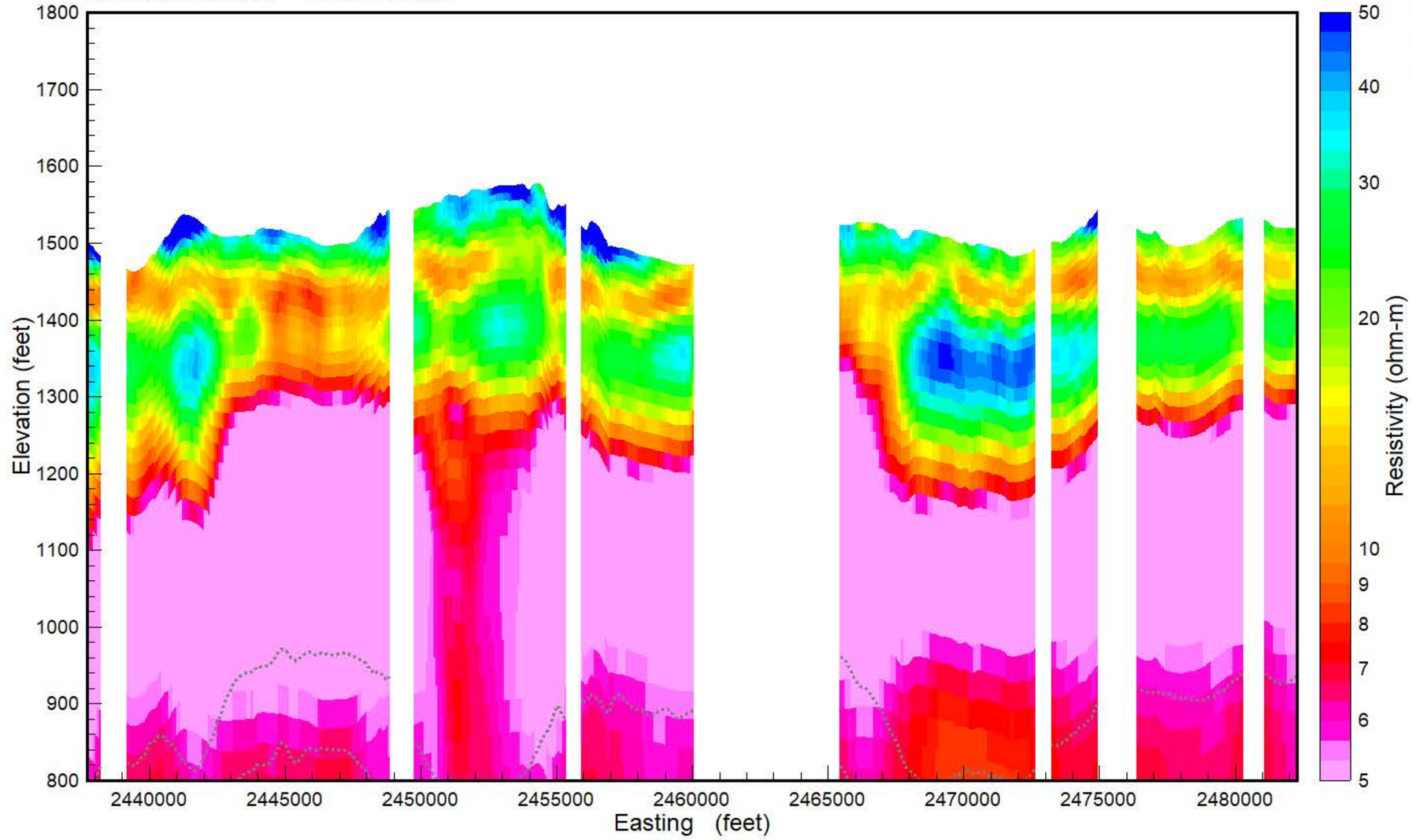
GEOTECH

AGF Aqua Geo Frameworks

Flight Path Line L5085

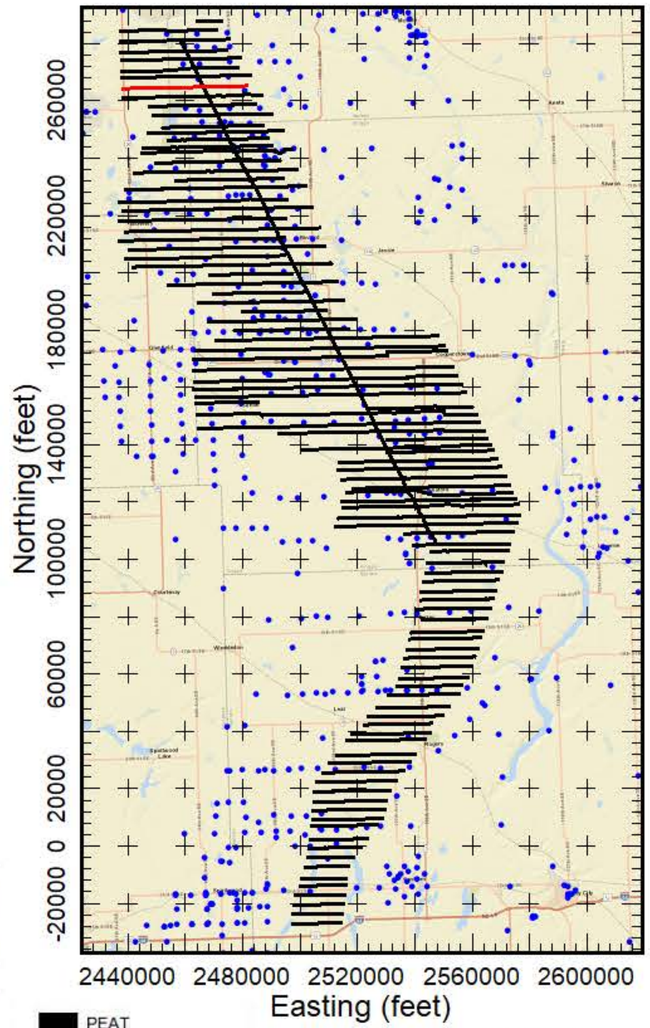


AEM Inversion Line L5085



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs



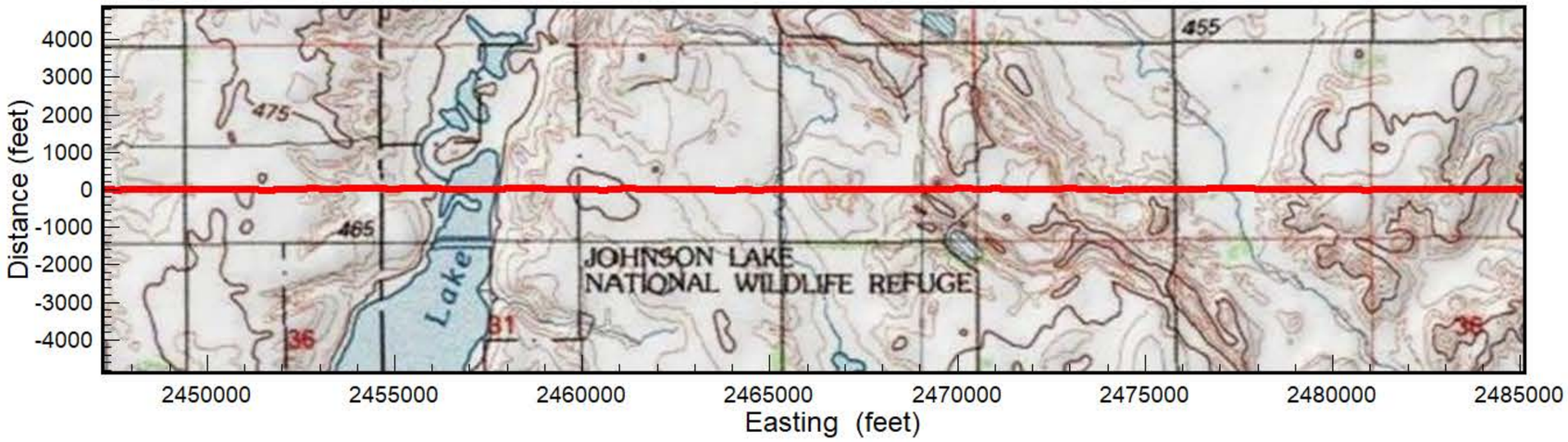
PEAT
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COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

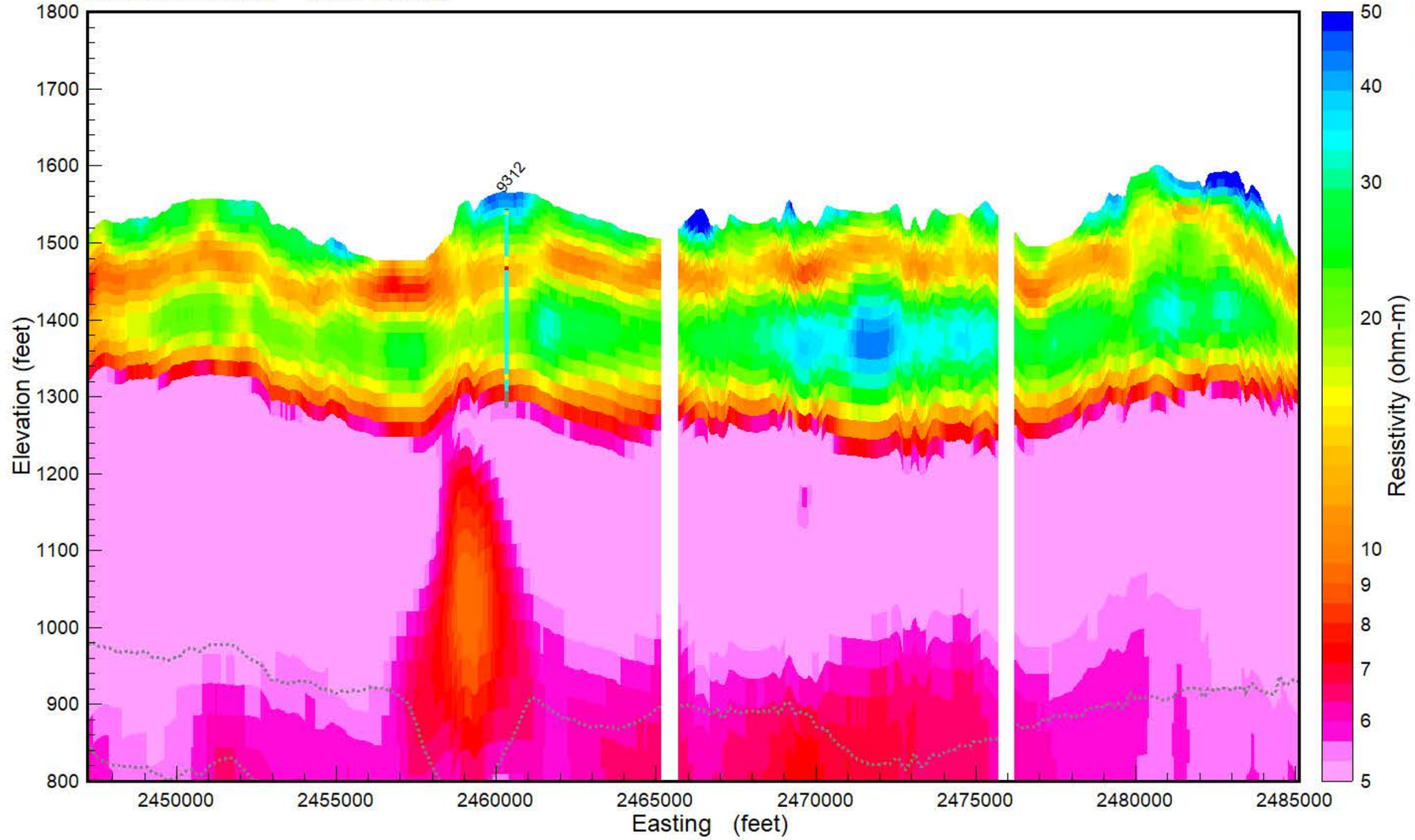
GEOTECH

AGF
Aqua Geo Frameworks

Flight Path Line L5110

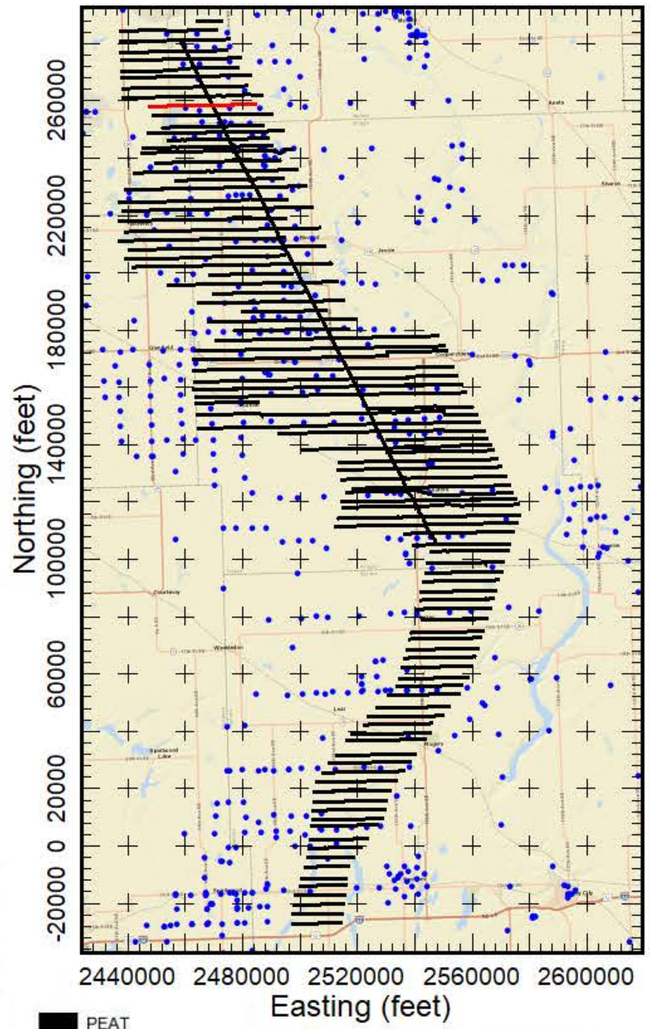


AEM Inversion Line L5110



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

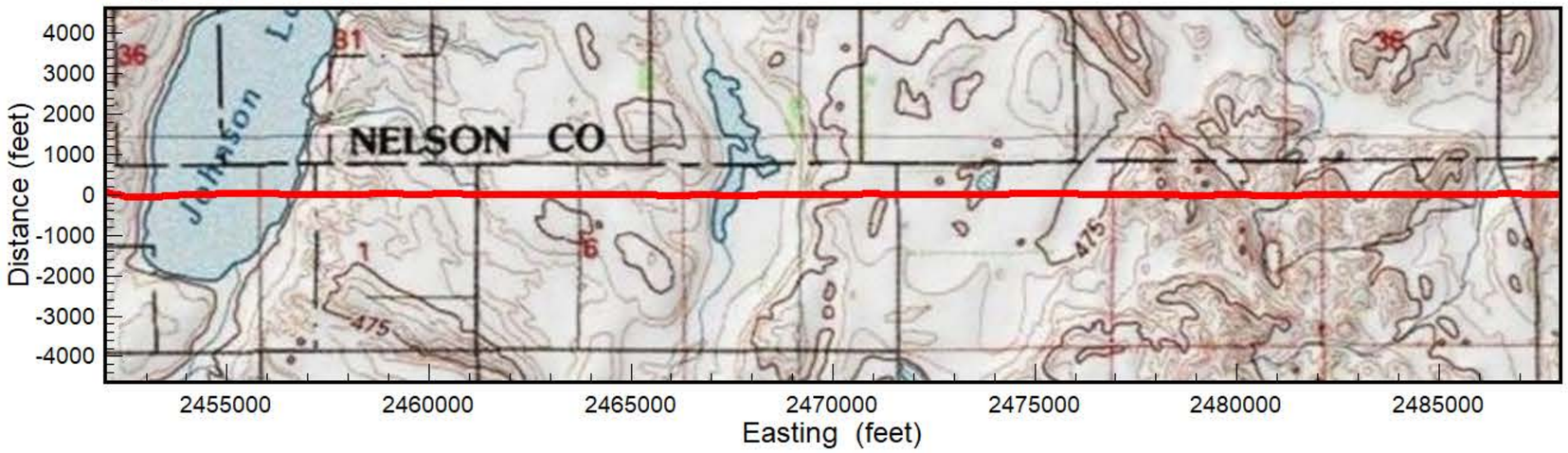


PEAT
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PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
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CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

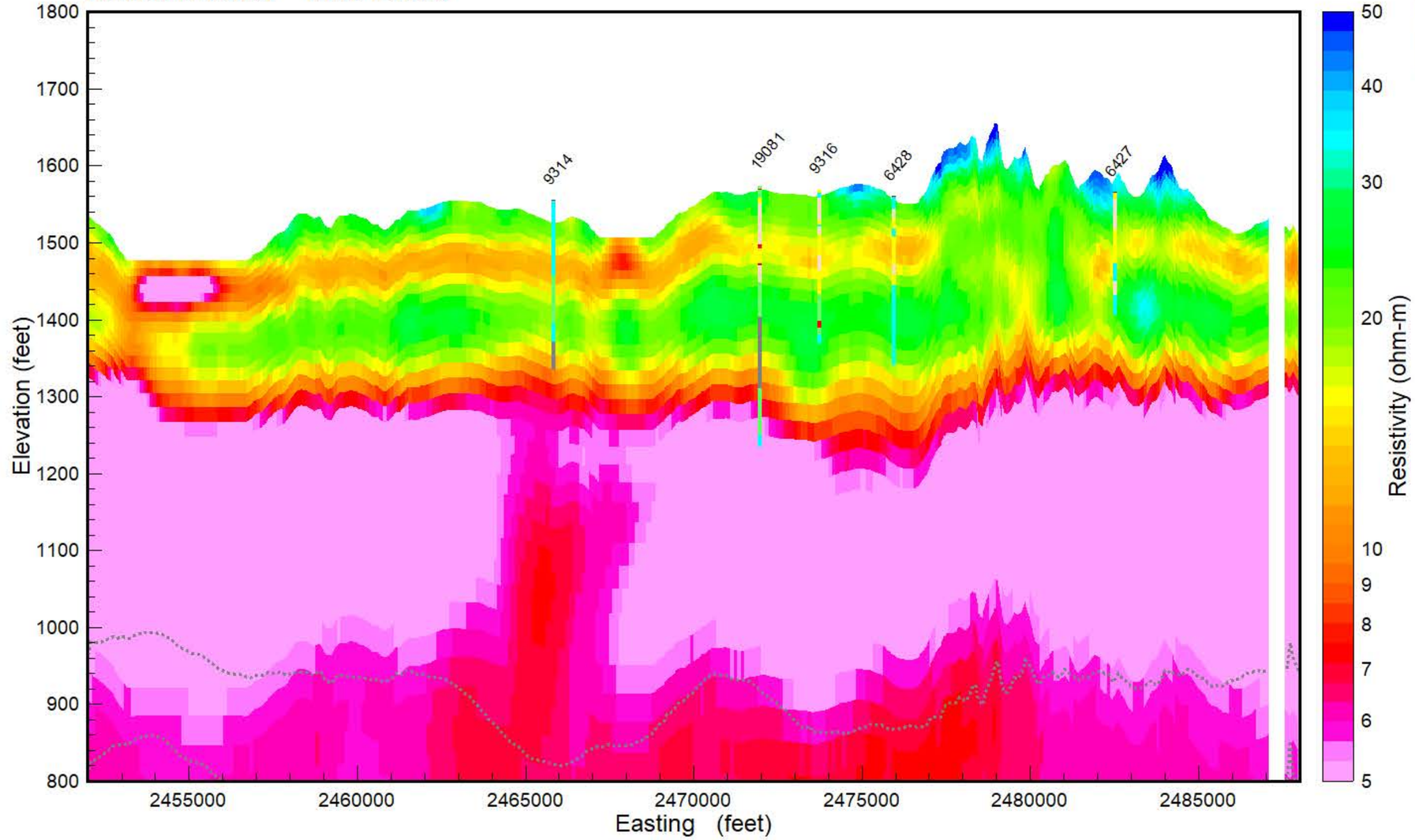
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Flight Path Line L5120

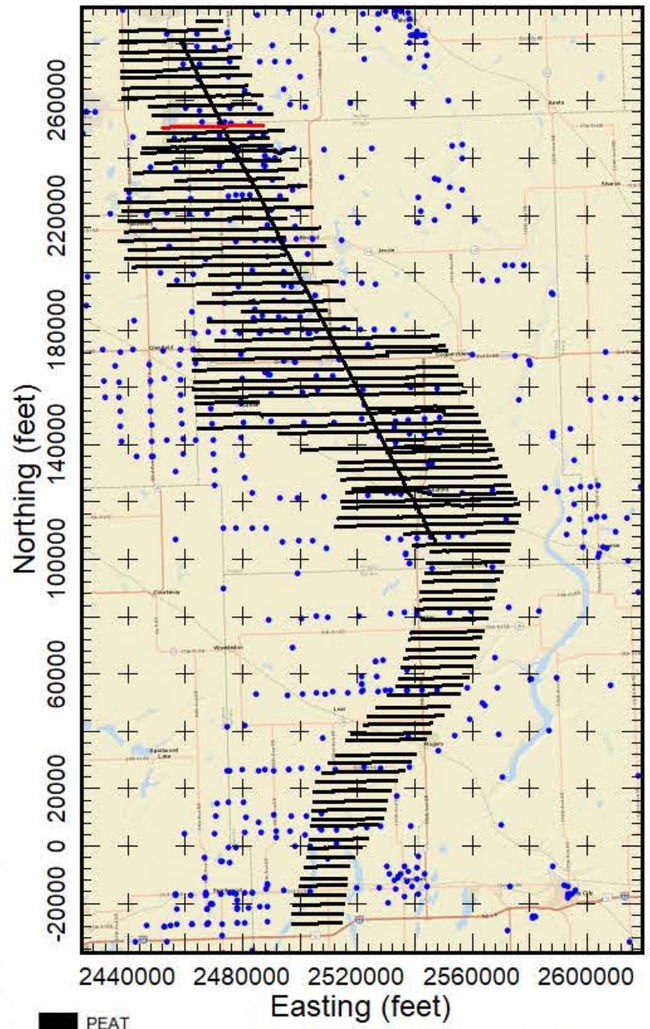


AEM Inversion Line L5120



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

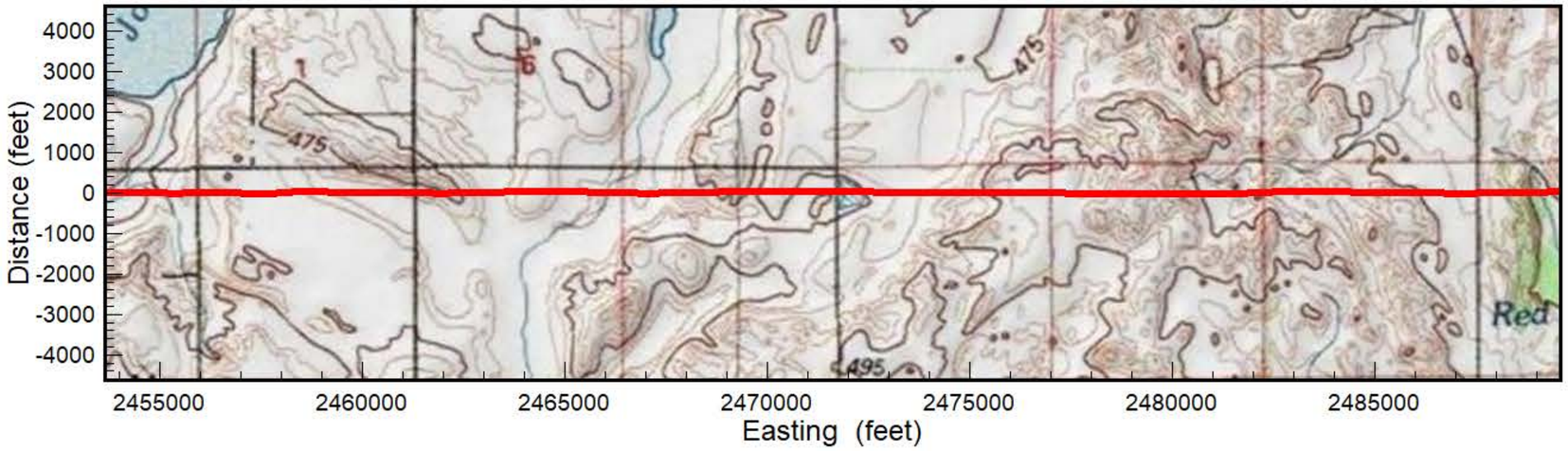


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
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- CLAY
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- FILL
- TOPSOIL
- NOSAMPLE

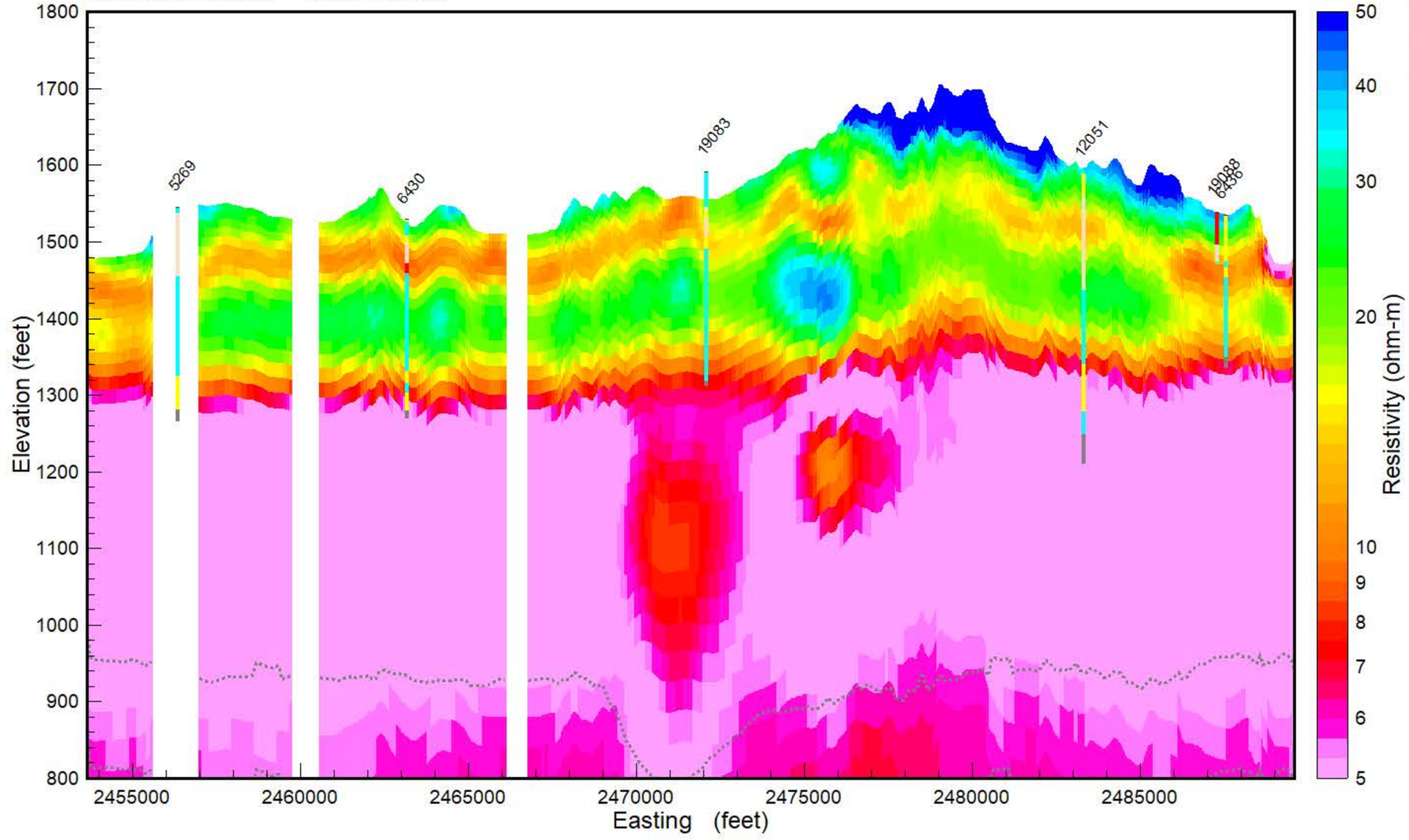
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Flight Path Line L5130

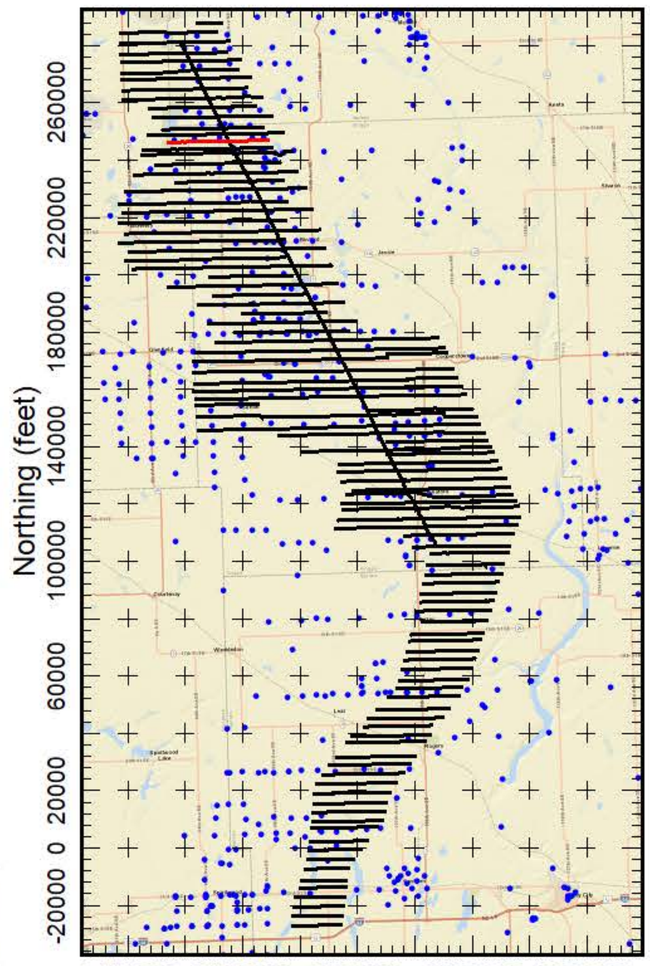


AEM Inversion Line L5130



NORTH Dakota | Water Commission & State Engineer

Flight Area Griggs



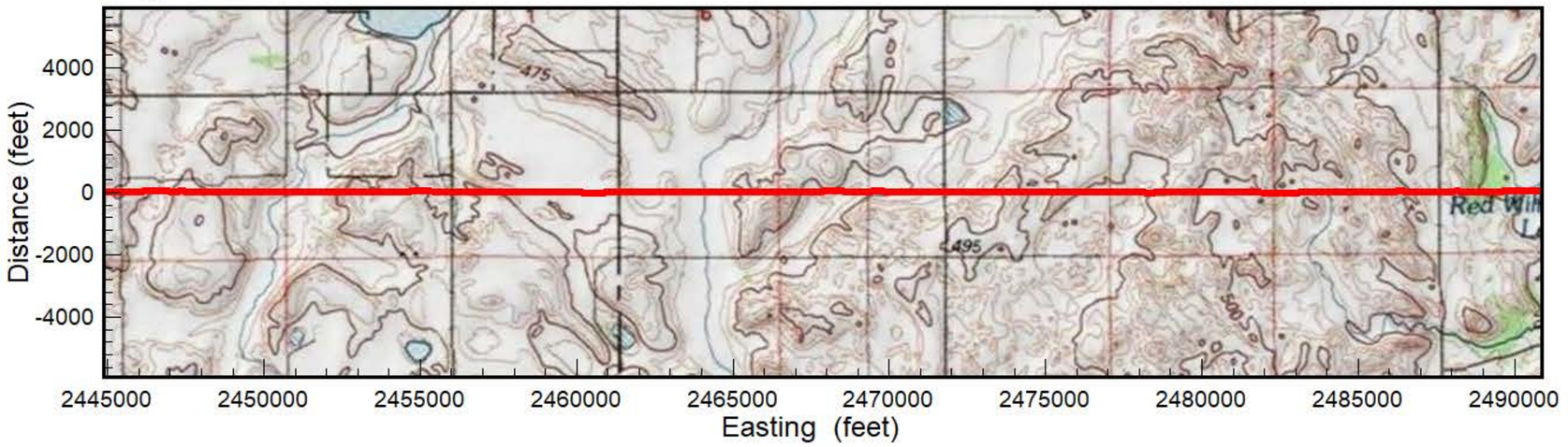
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

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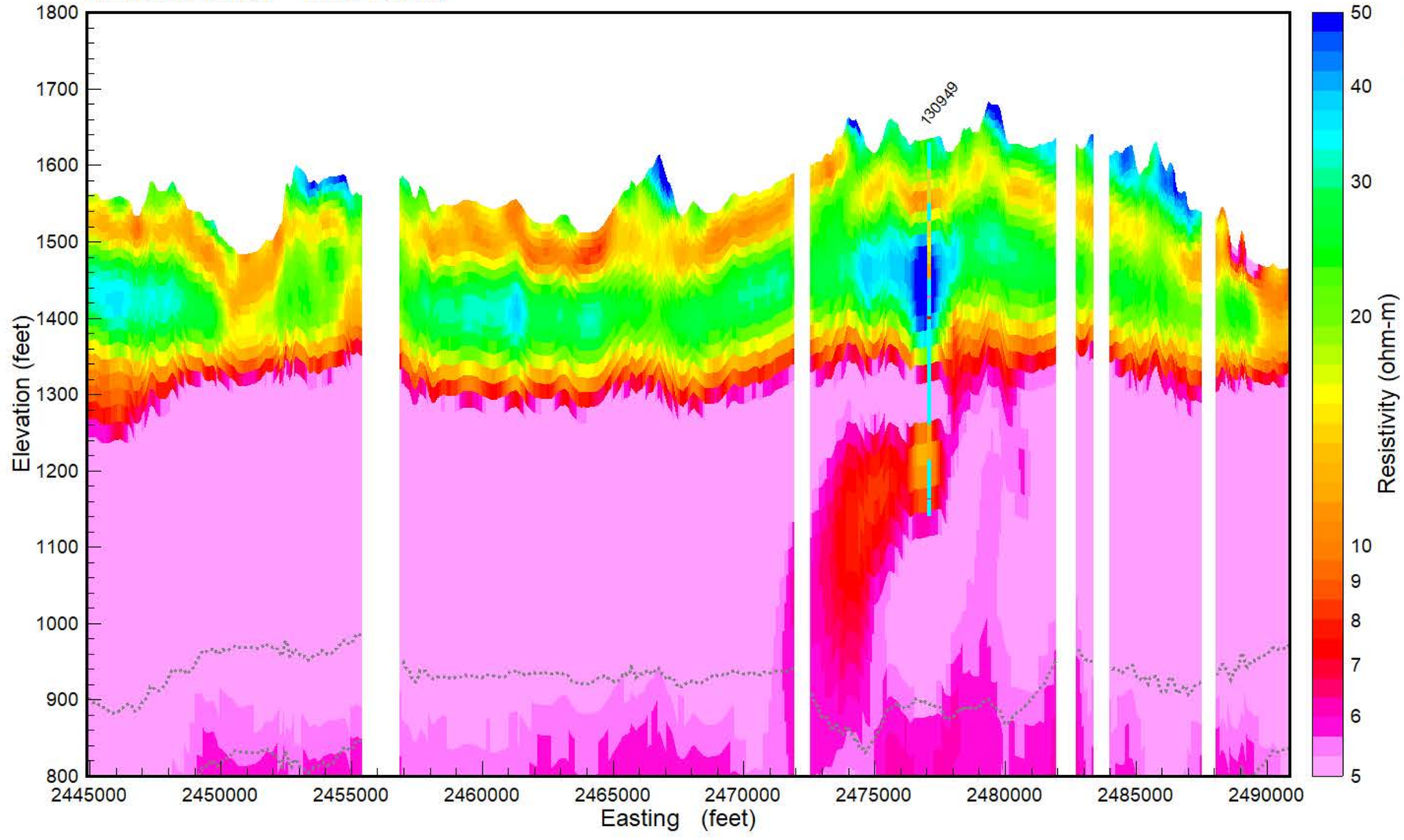
GEOTECH

AGF Aqua Geo Frameworks

Flight Path Line L5140

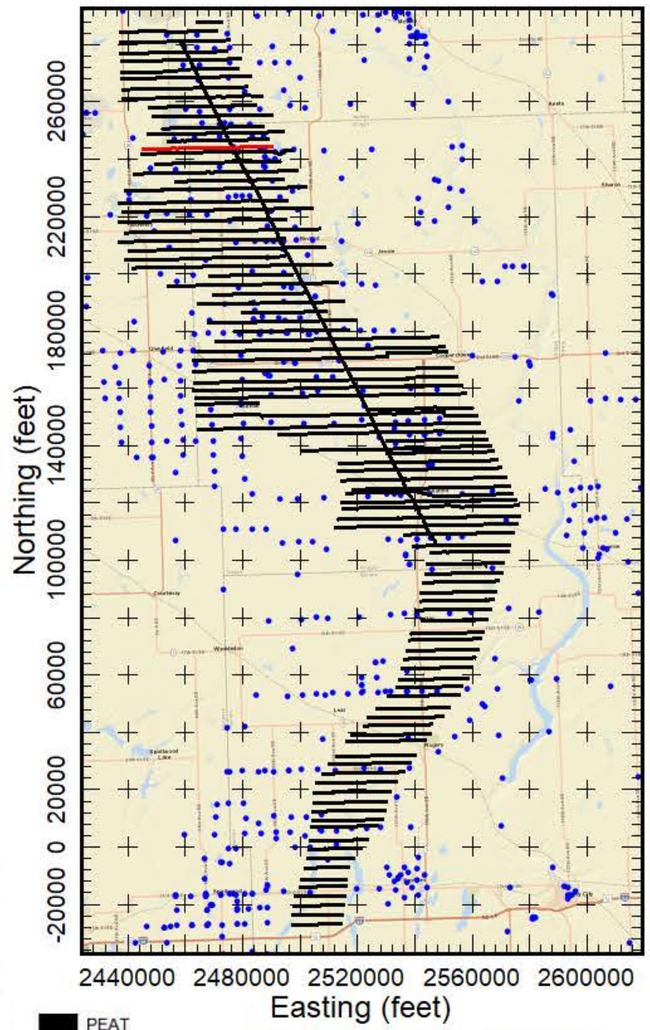


AEM Inversion Line L5140



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs



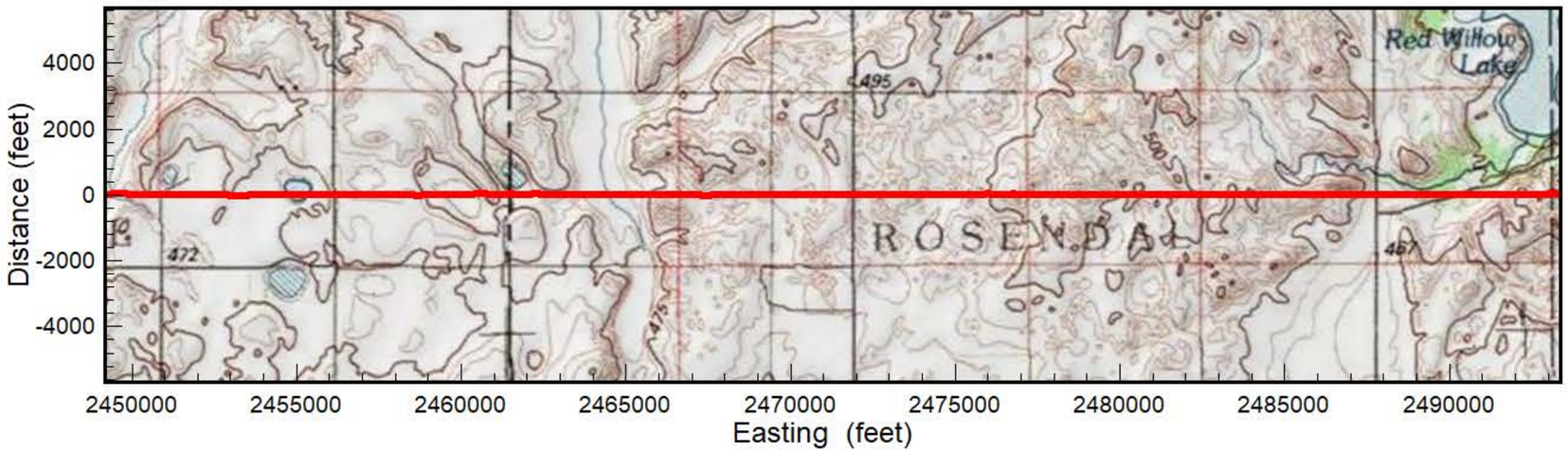
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

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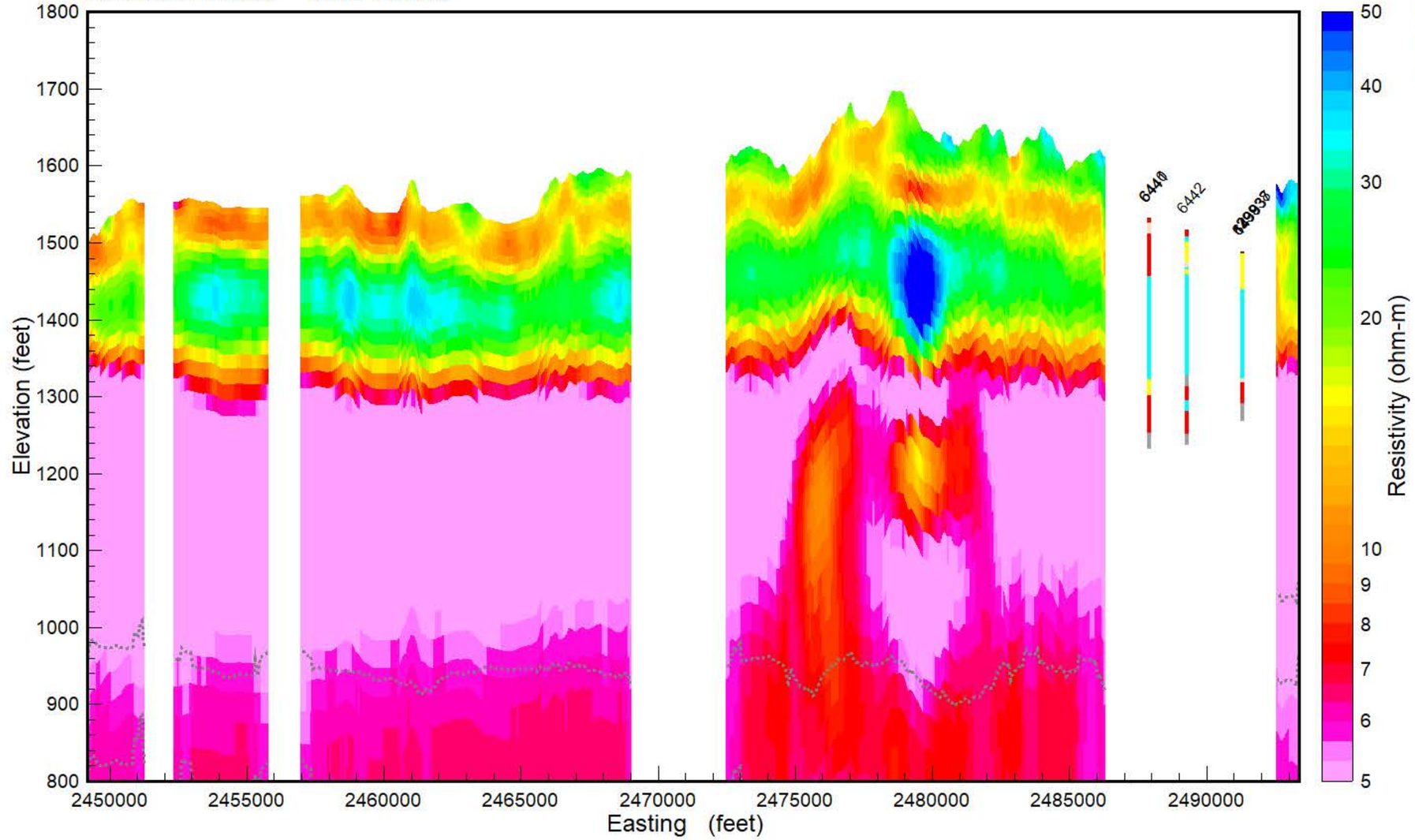
GEOTECH

AGF
Aqua Geo Frameworks

Flight Path Line L5150

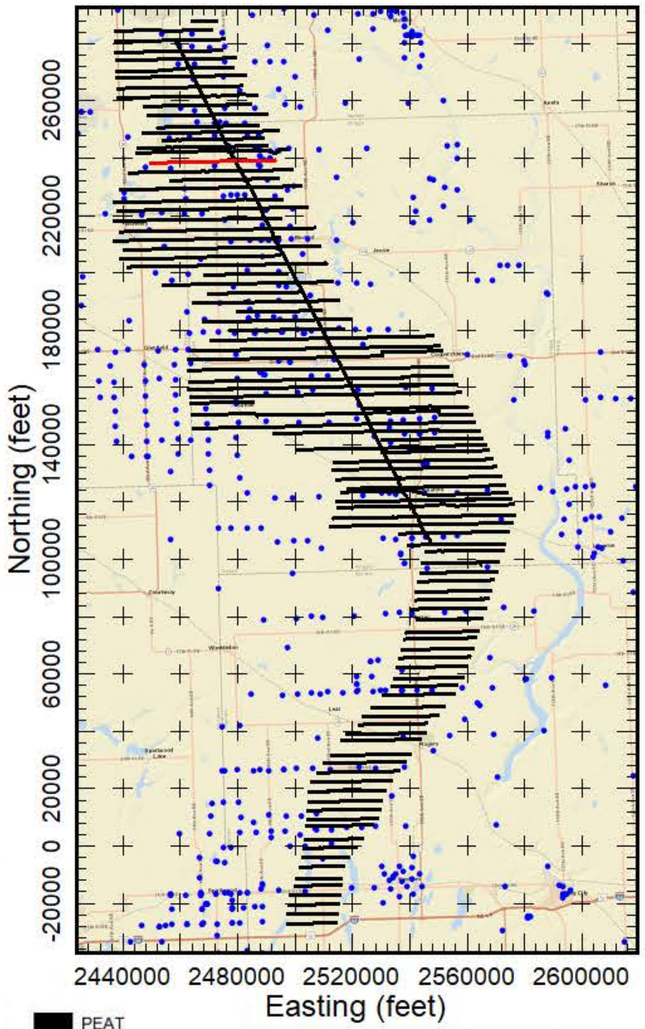


AEM Inversion Line L5150



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

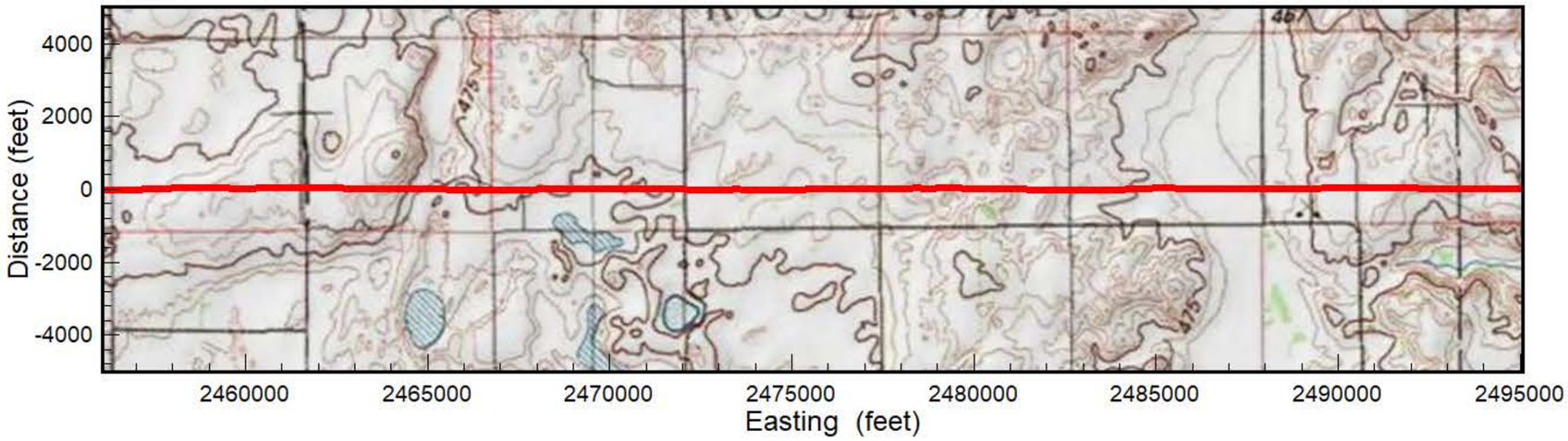


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
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- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

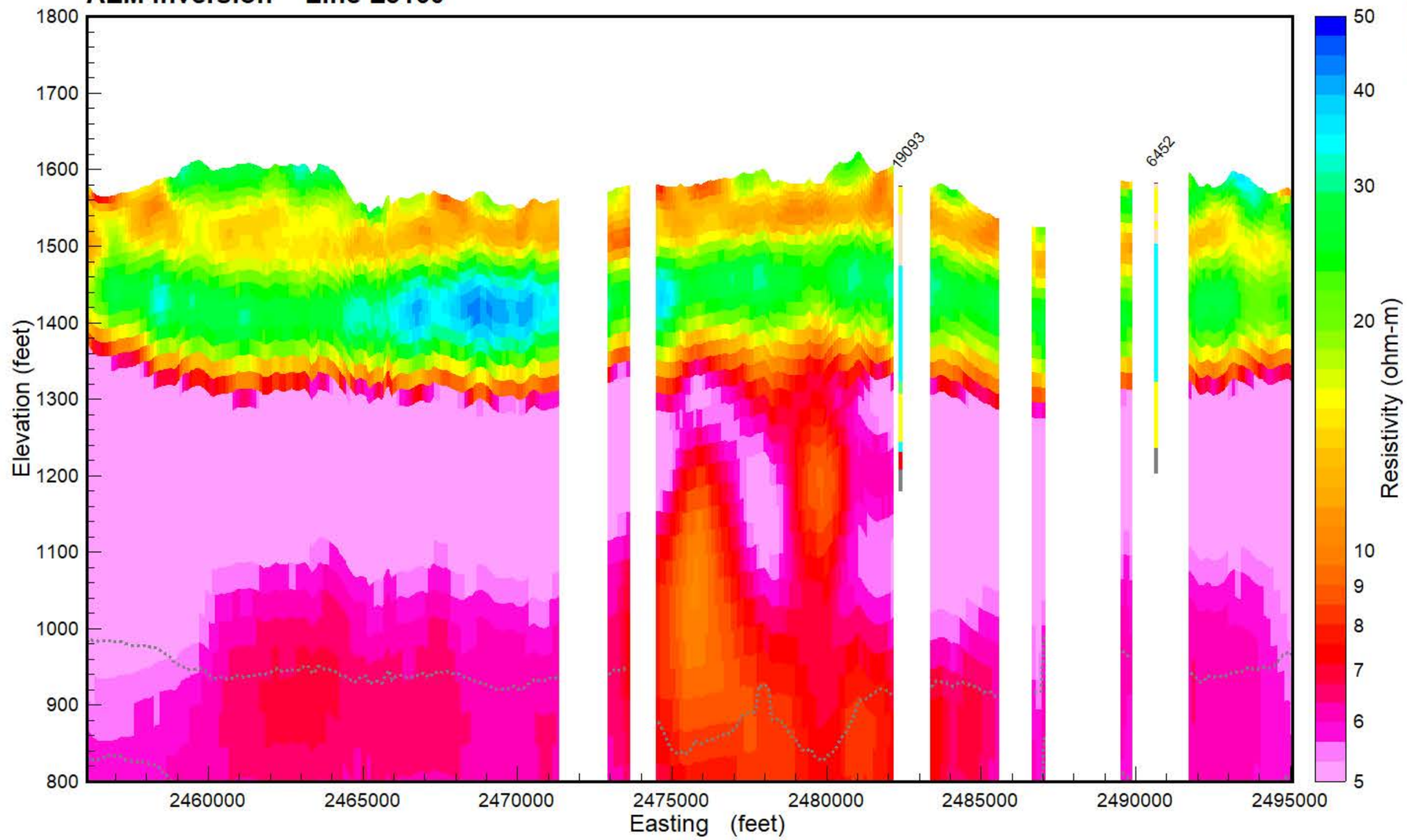
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Flight Path Line L5160

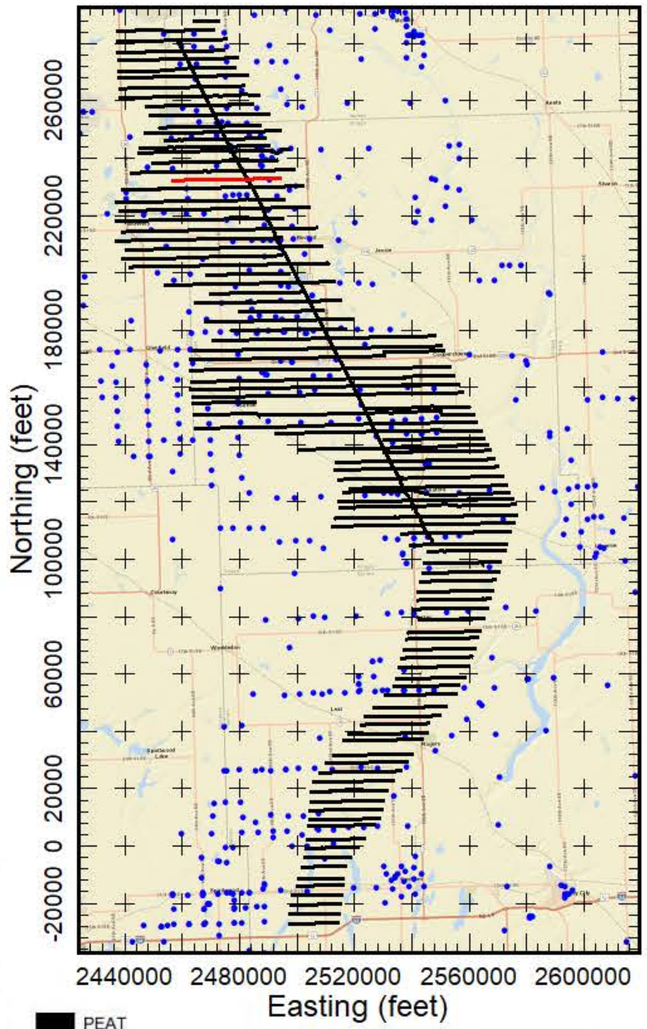


AEM Inversion Line L5160



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

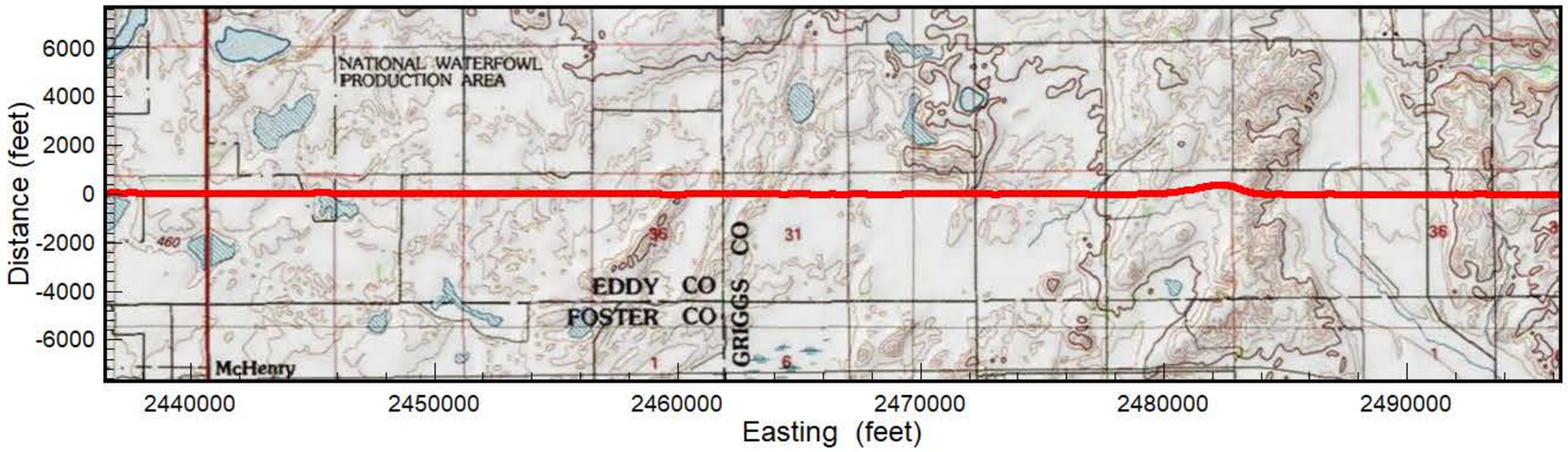


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
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- CLAY
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- TOPSOIL
- NOSAMPLE

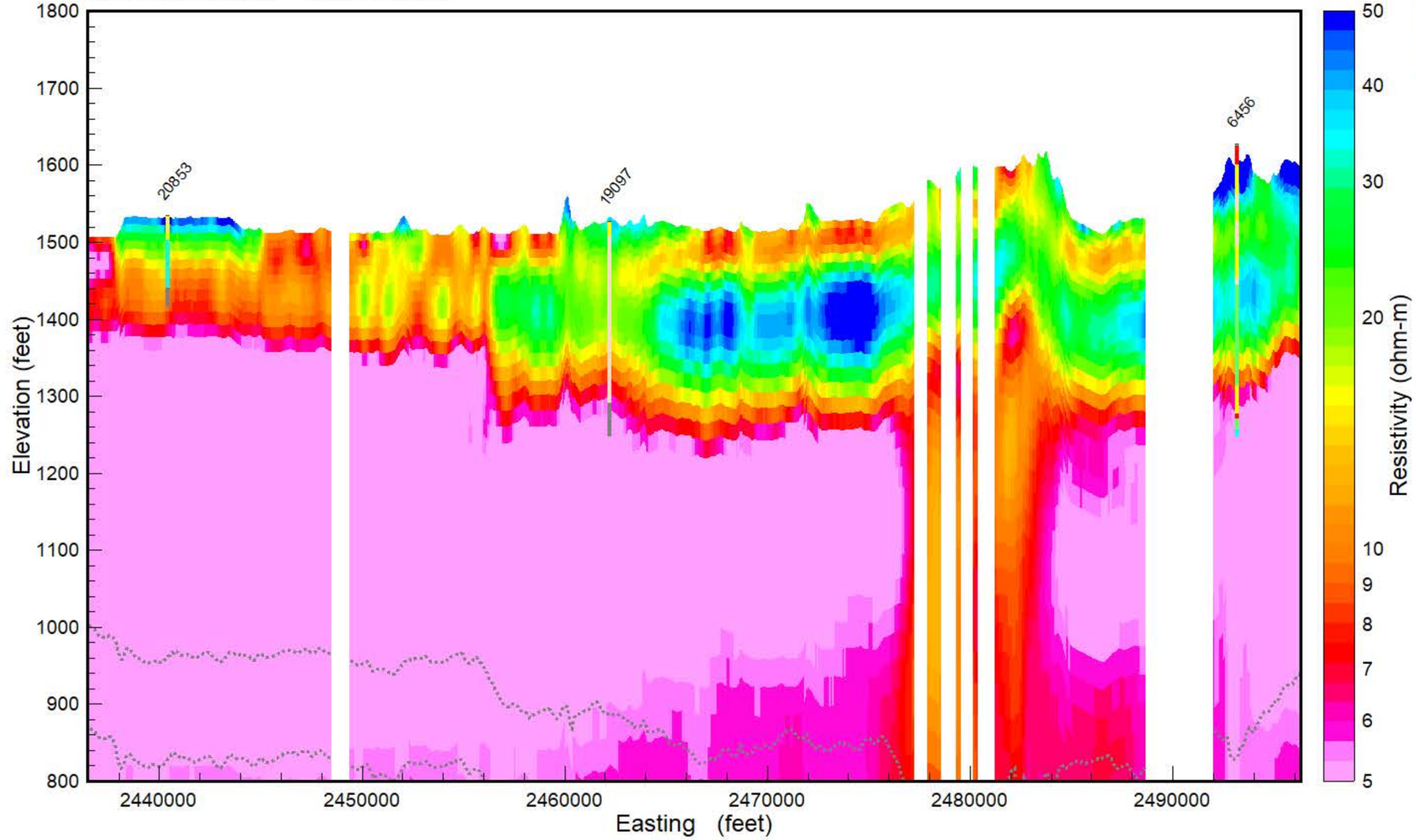
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Flight Path Line L5170

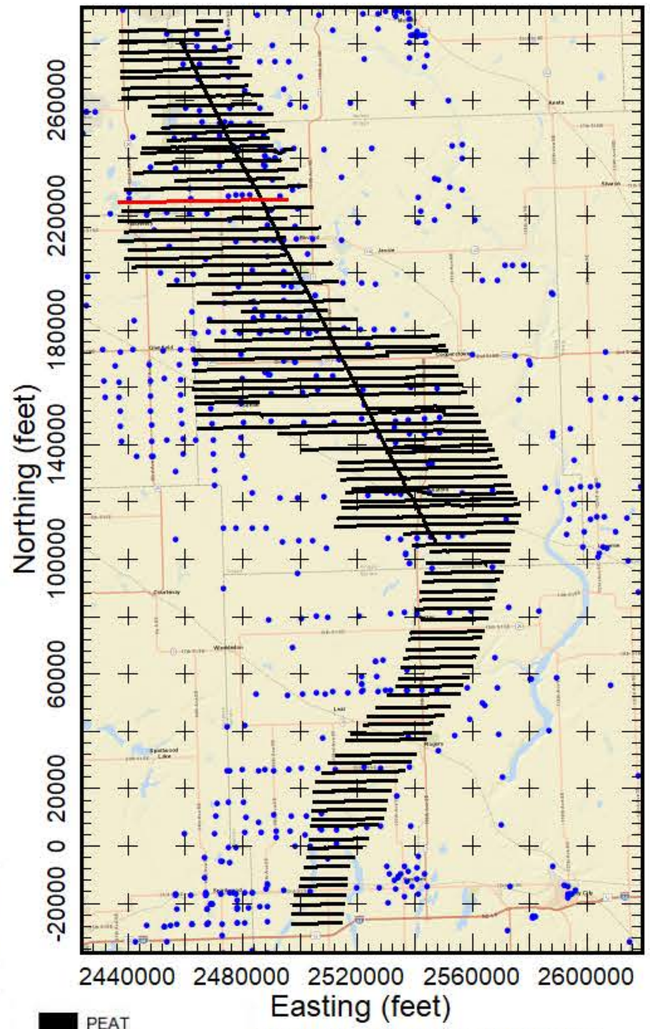


AEM Inversion Line L5170



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

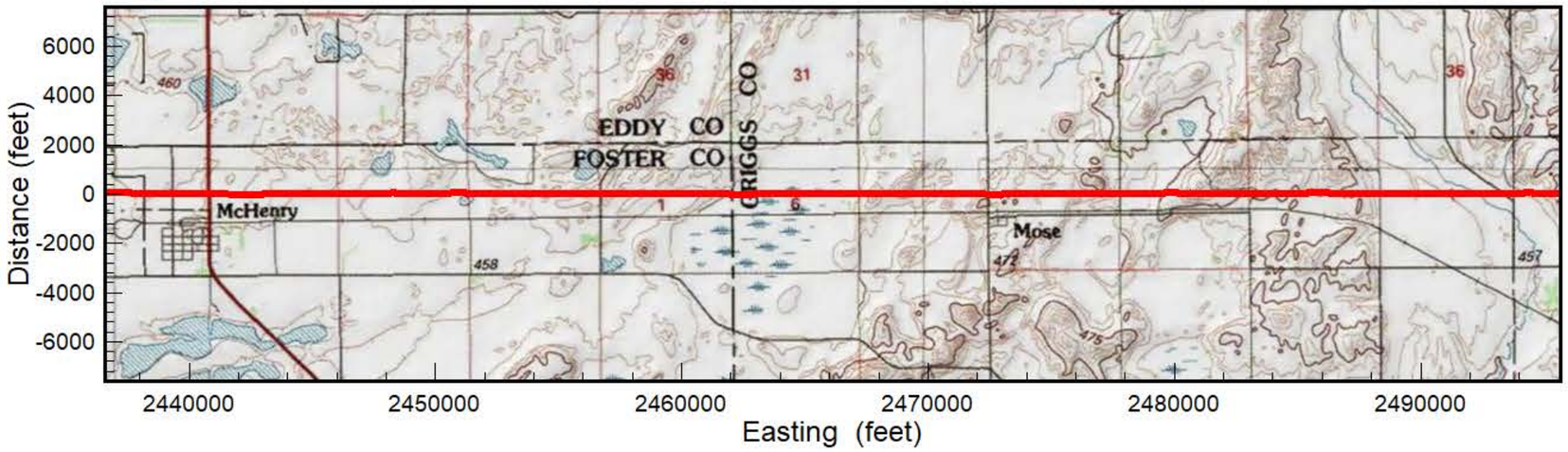


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
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- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
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- TILL
- FILL
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- NOSAMPLE

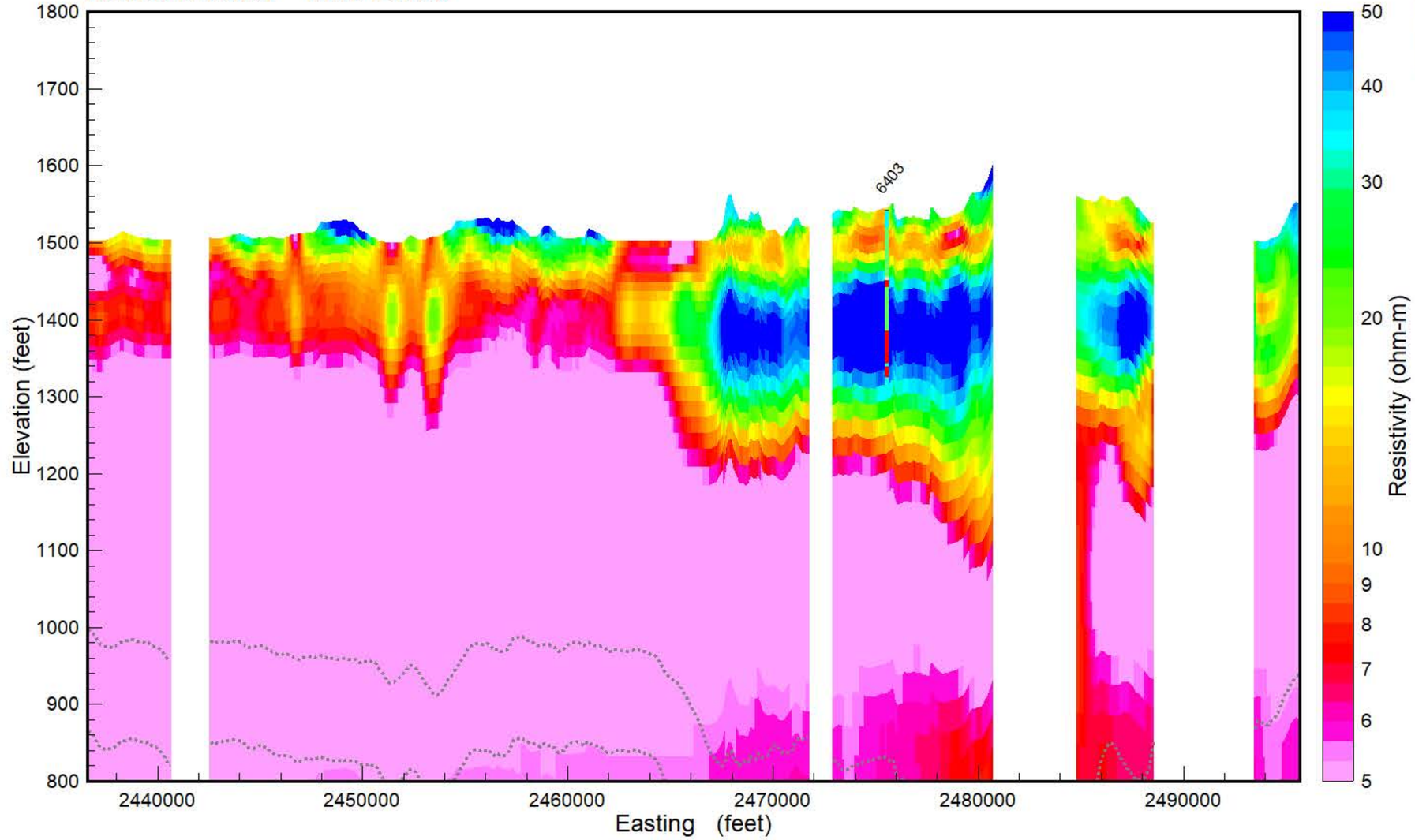
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Flight Path Line L5180

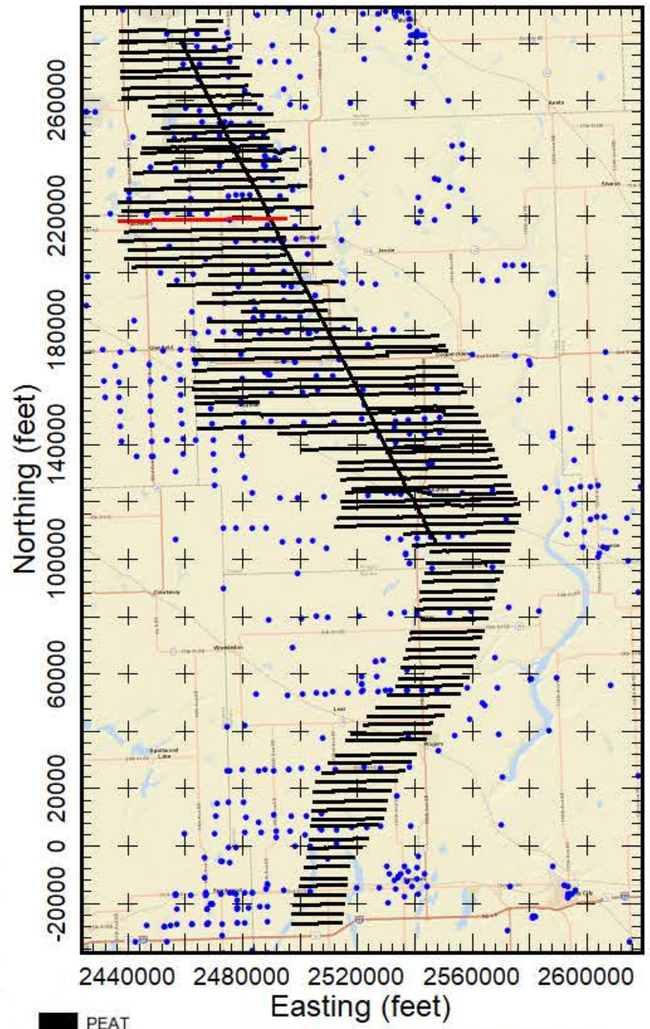


AEM Inversion Line L5180



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

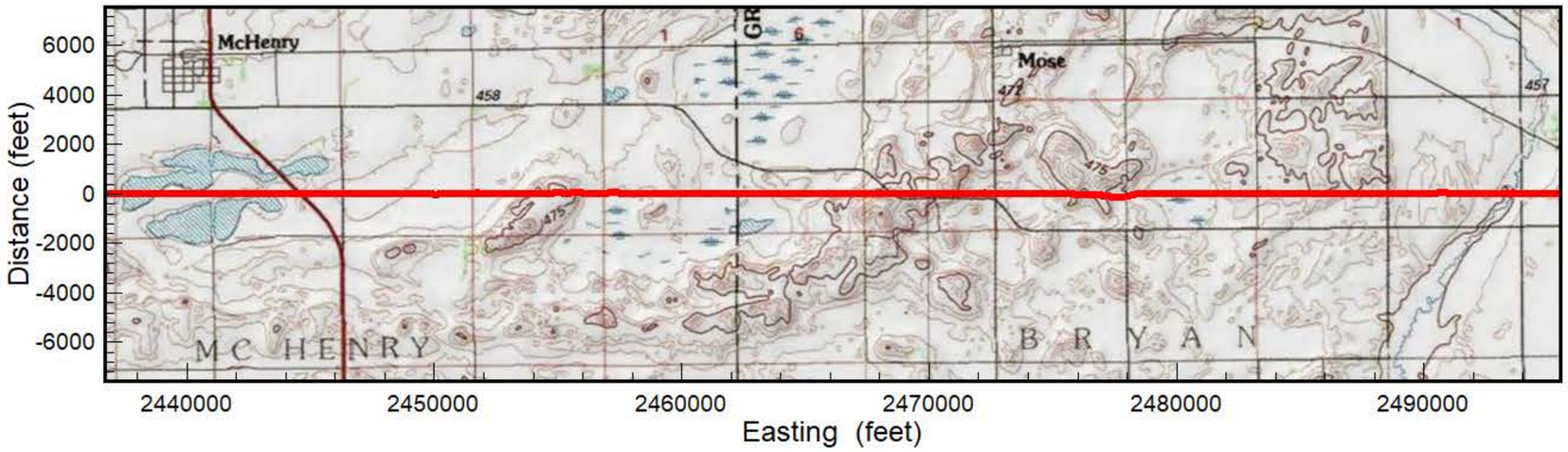


PEAT
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PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
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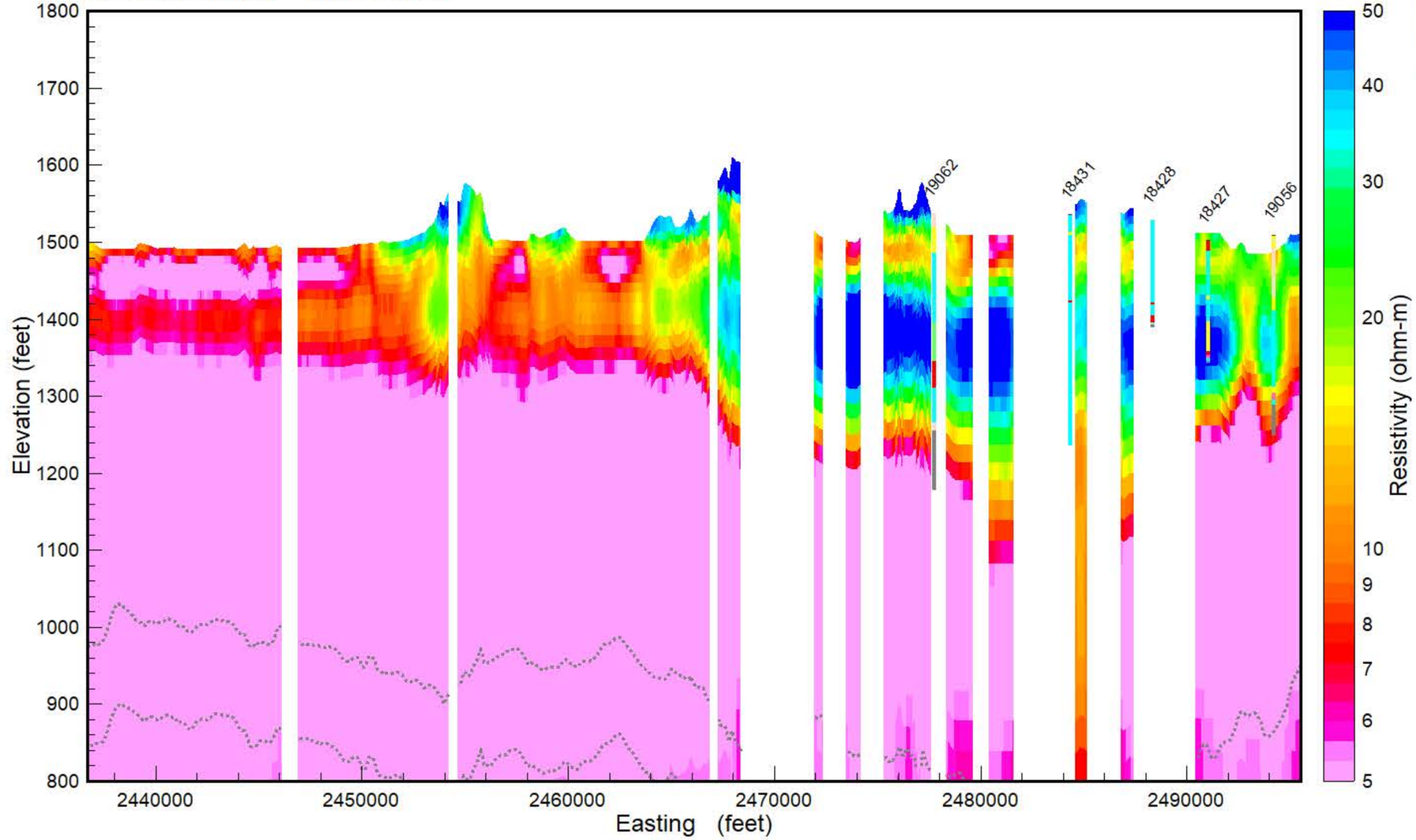
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5190

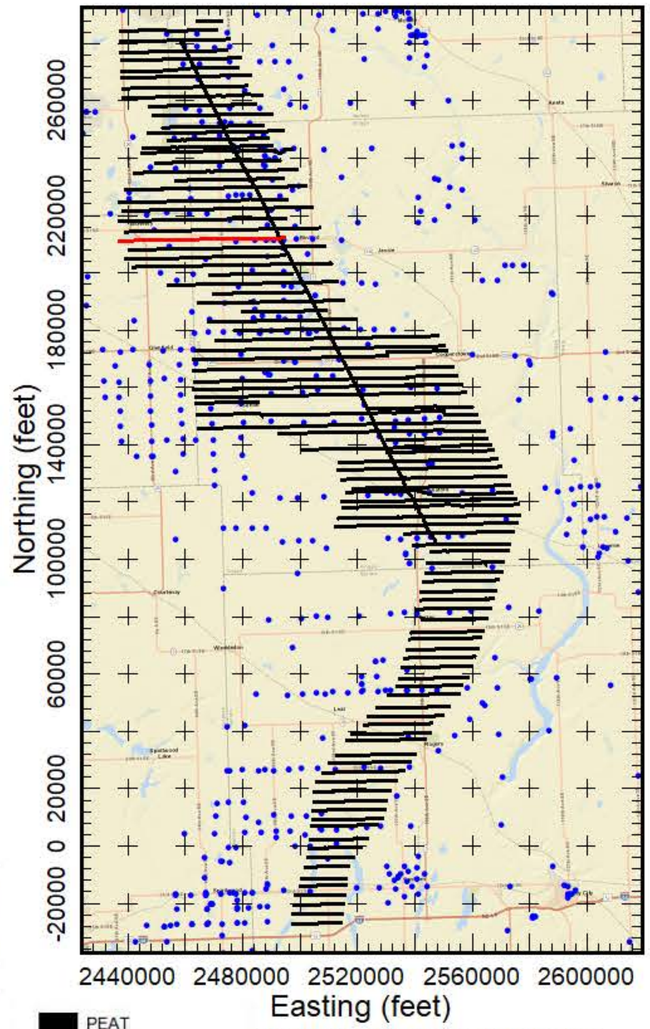


AEM Inversion Line L5190



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Be Legendary.

Flight Area Griggs

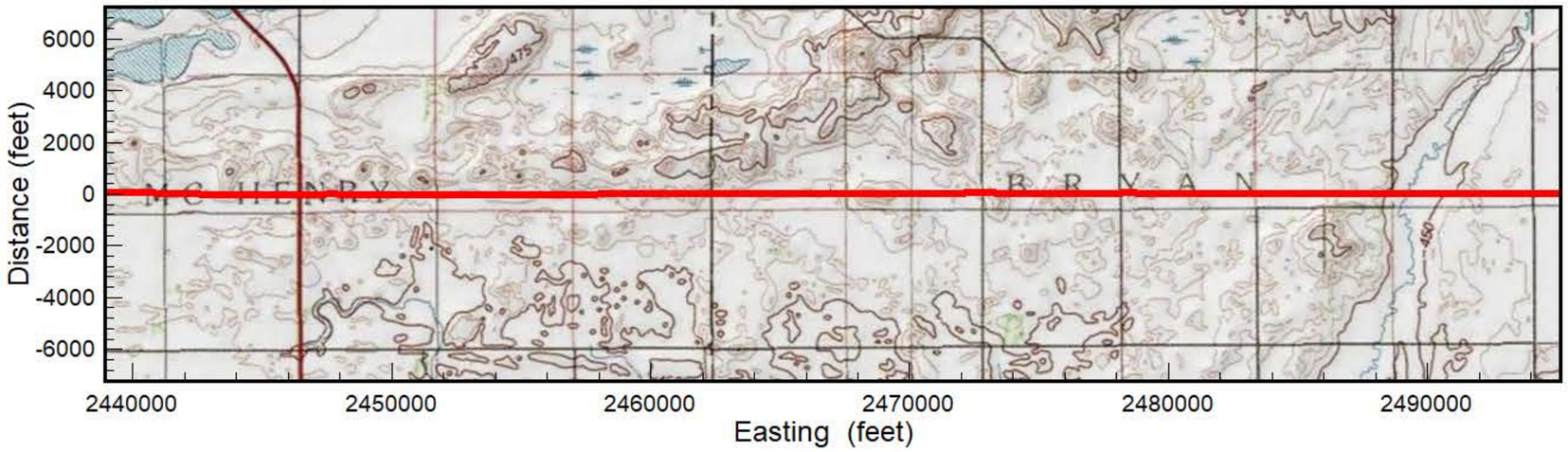


- PEAT
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- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
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- BEDROCK
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- NOSAMPLE

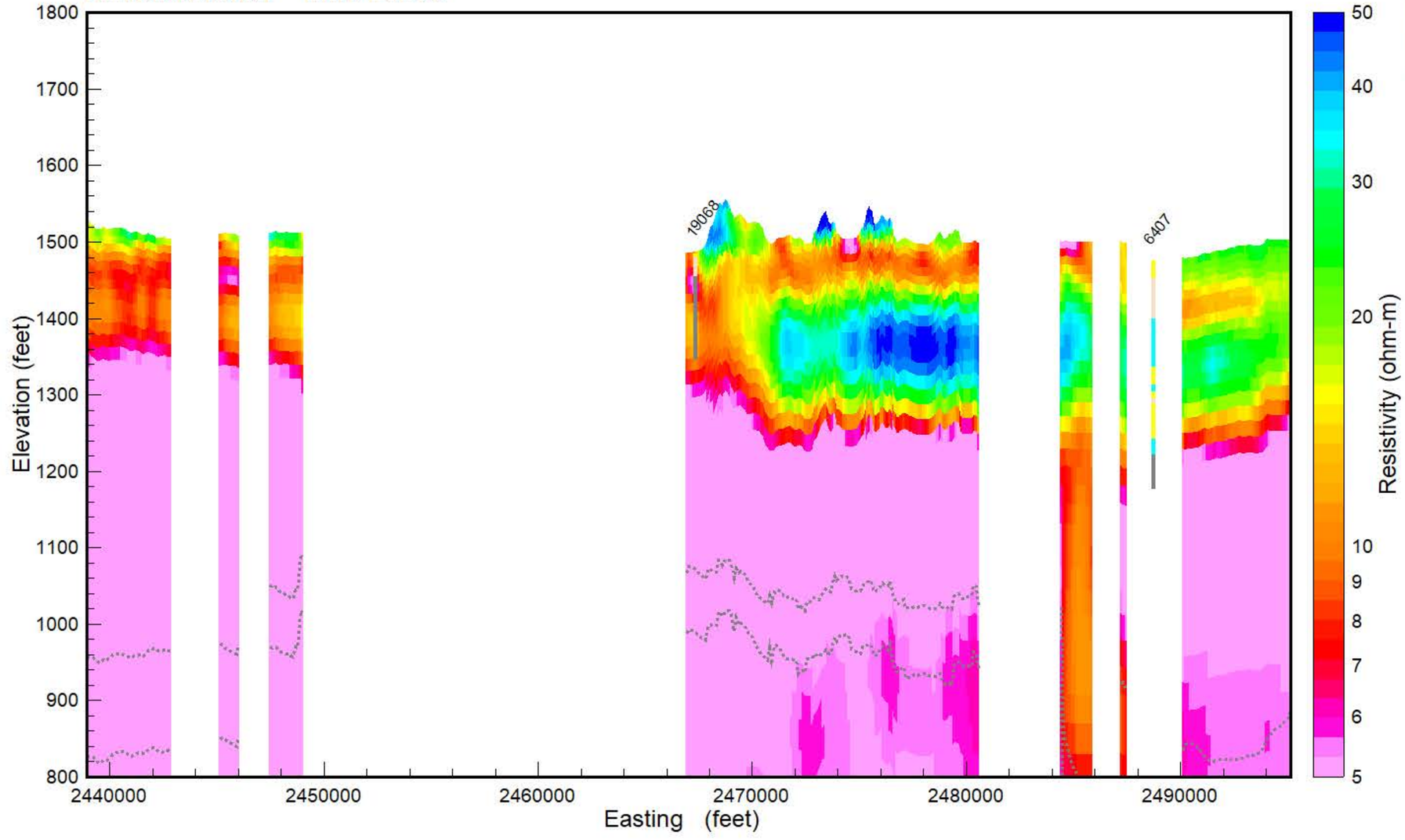
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Flight Path Line L5205

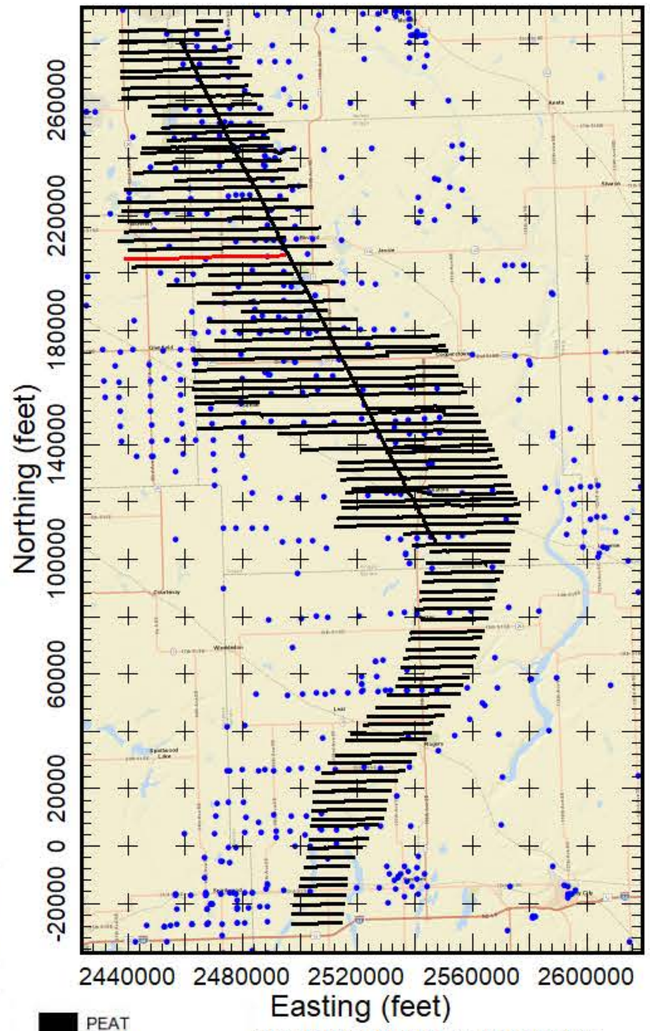


AEM Inversion Line L5205



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

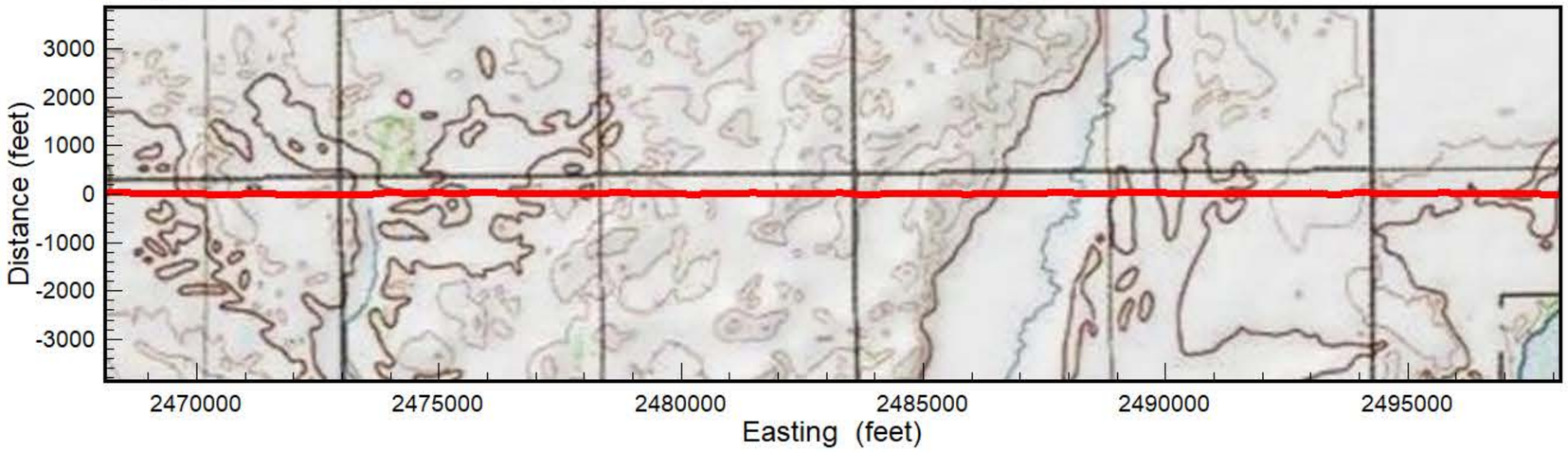


- PEAT
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- COBBLES
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- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
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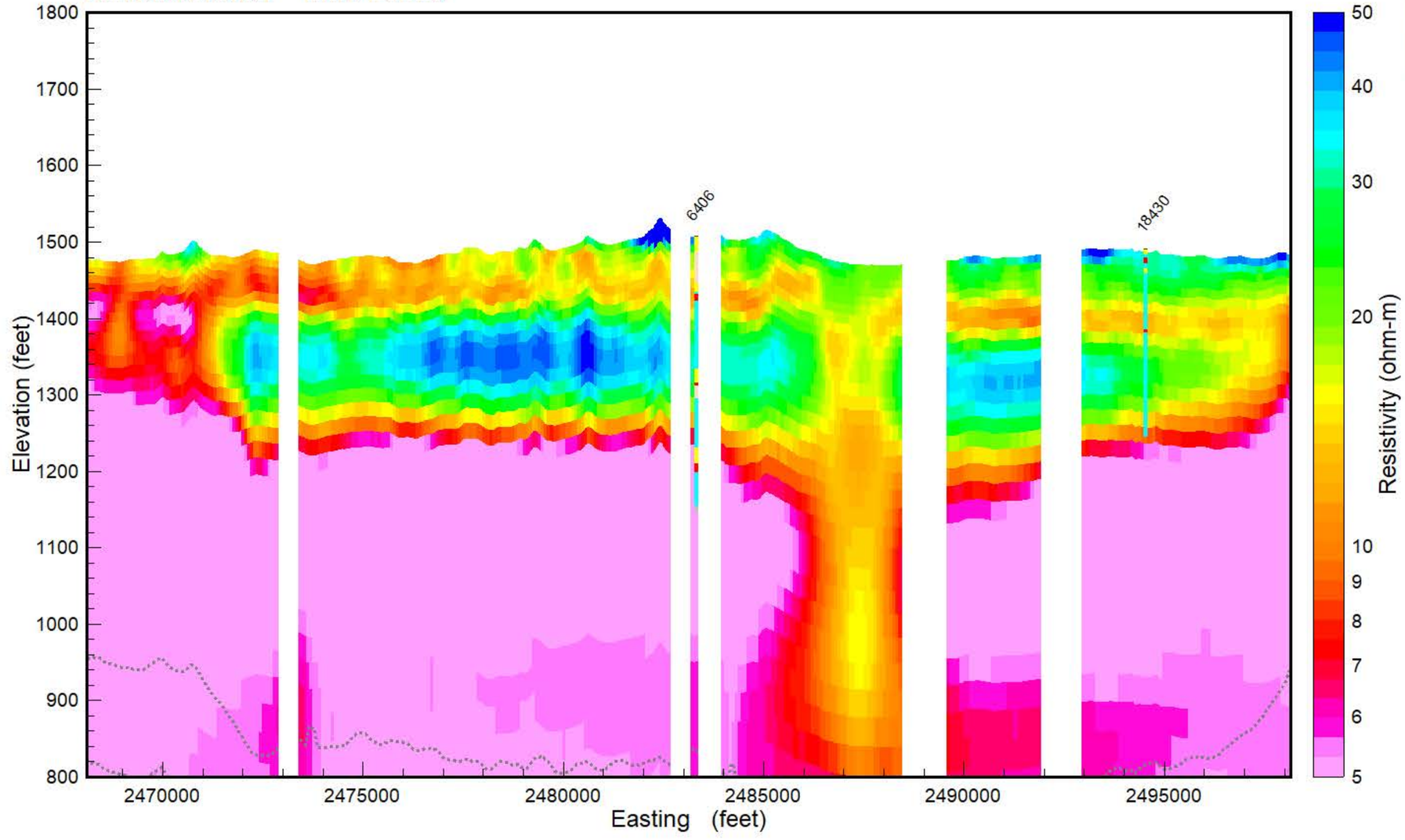
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5220

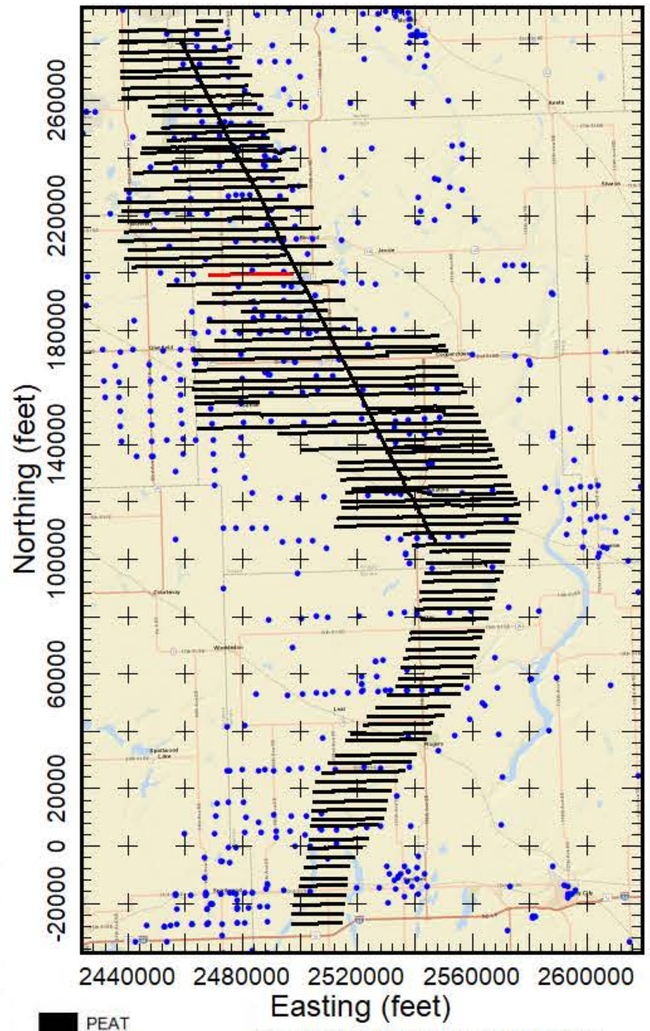


AEM Inversion Line L5220



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs



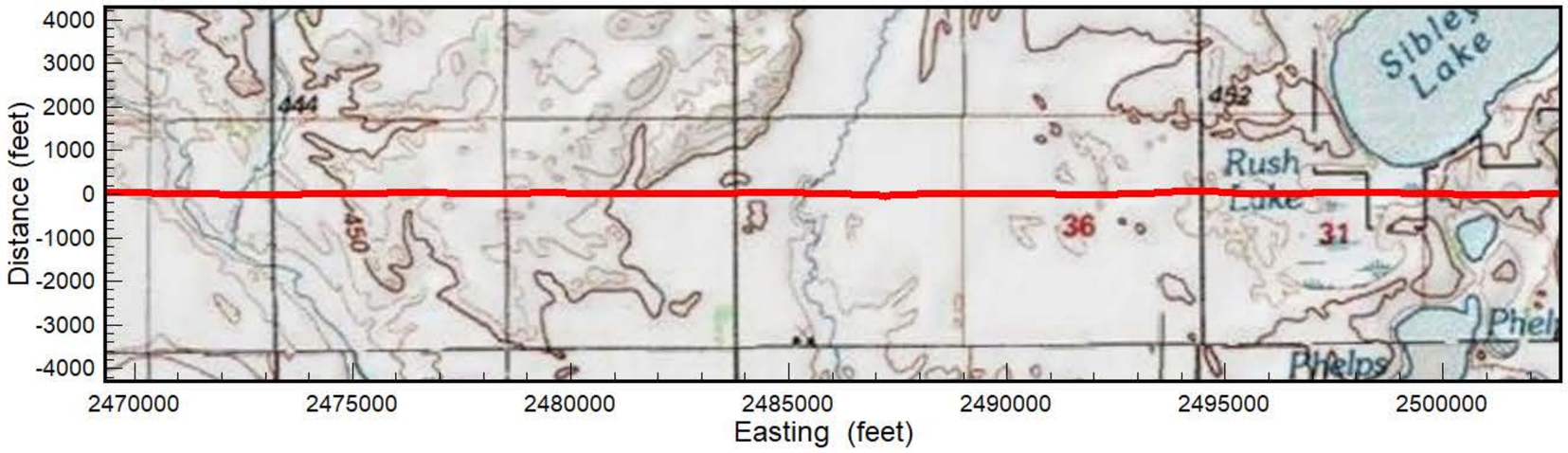
- PEAT
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

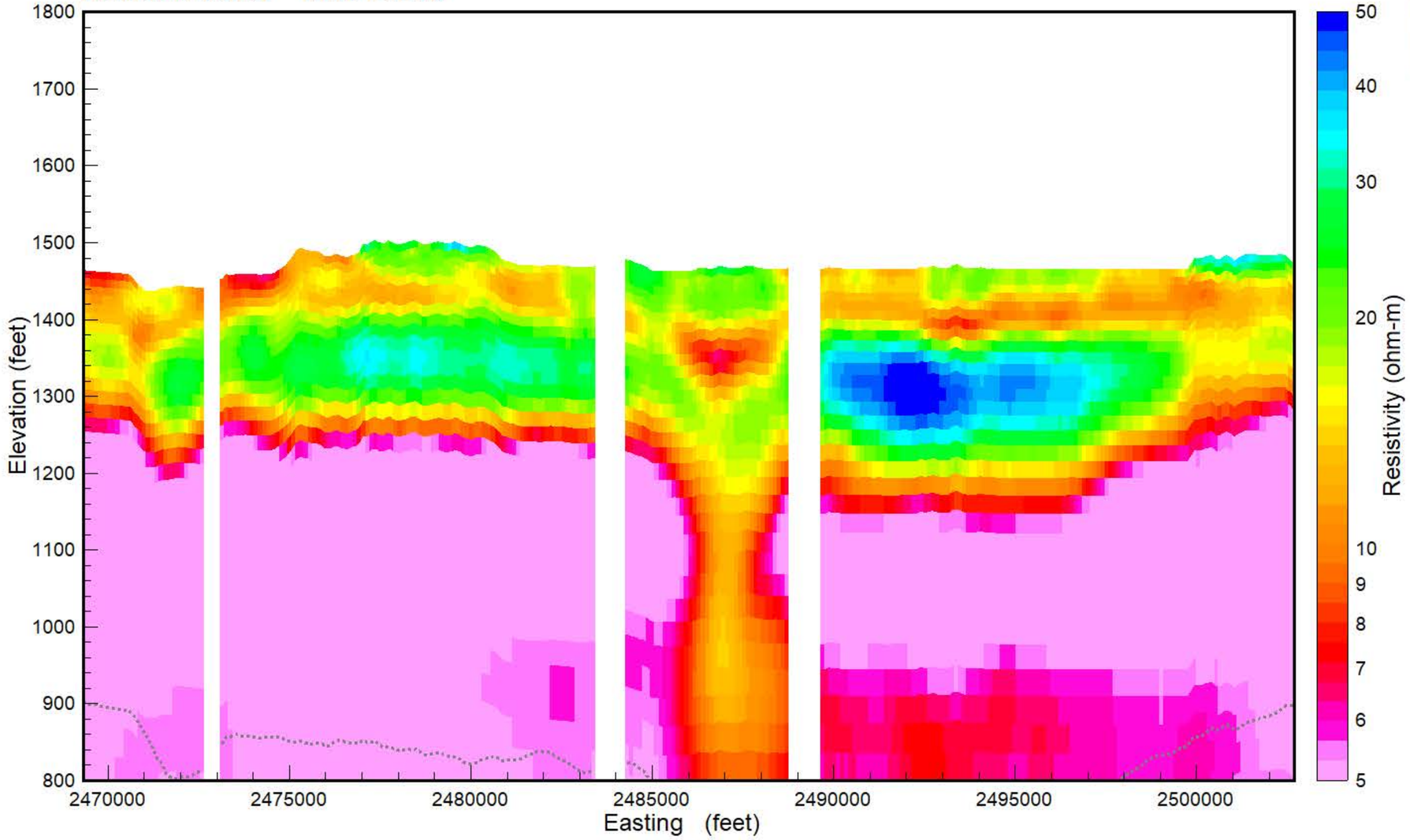
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Aqua Geo Frameworks

Flight Path Line L5230

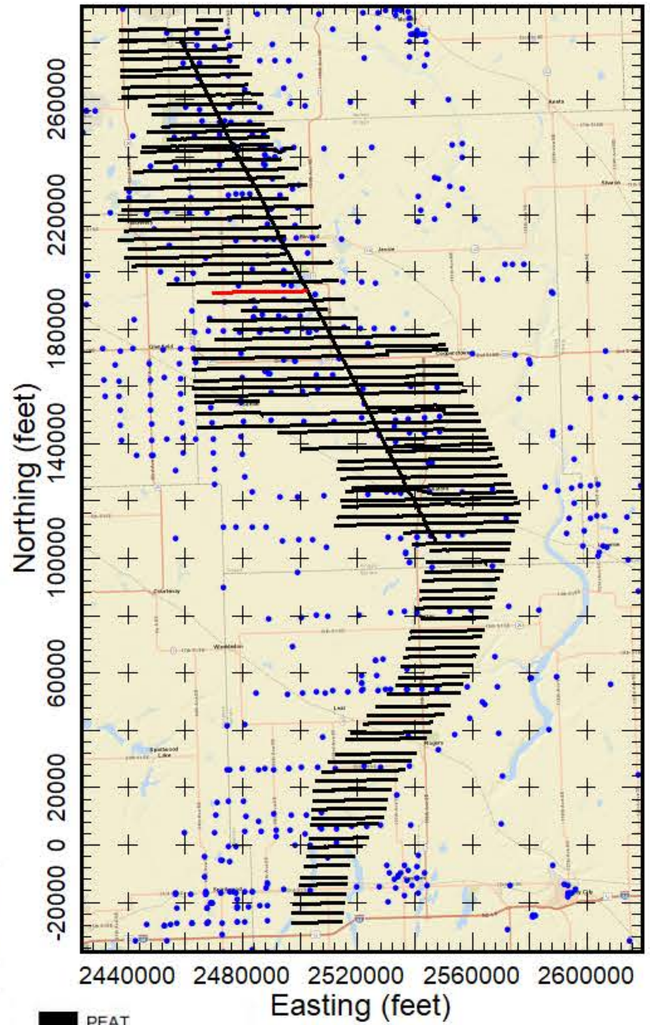


AEM Inversion Line L5230



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Flight Area Griggs

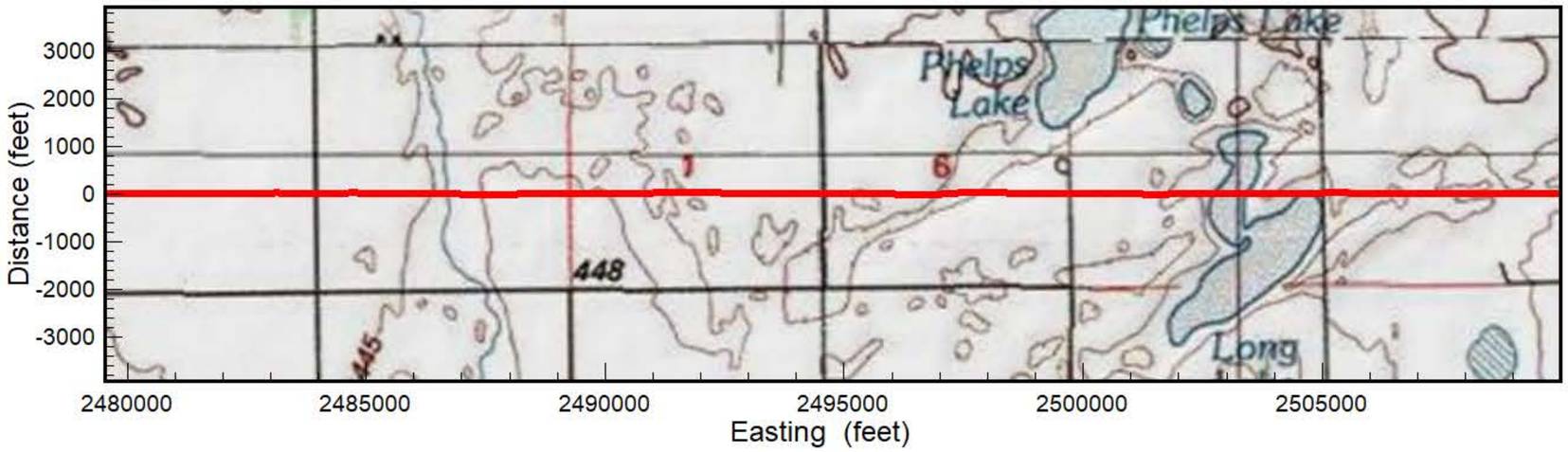


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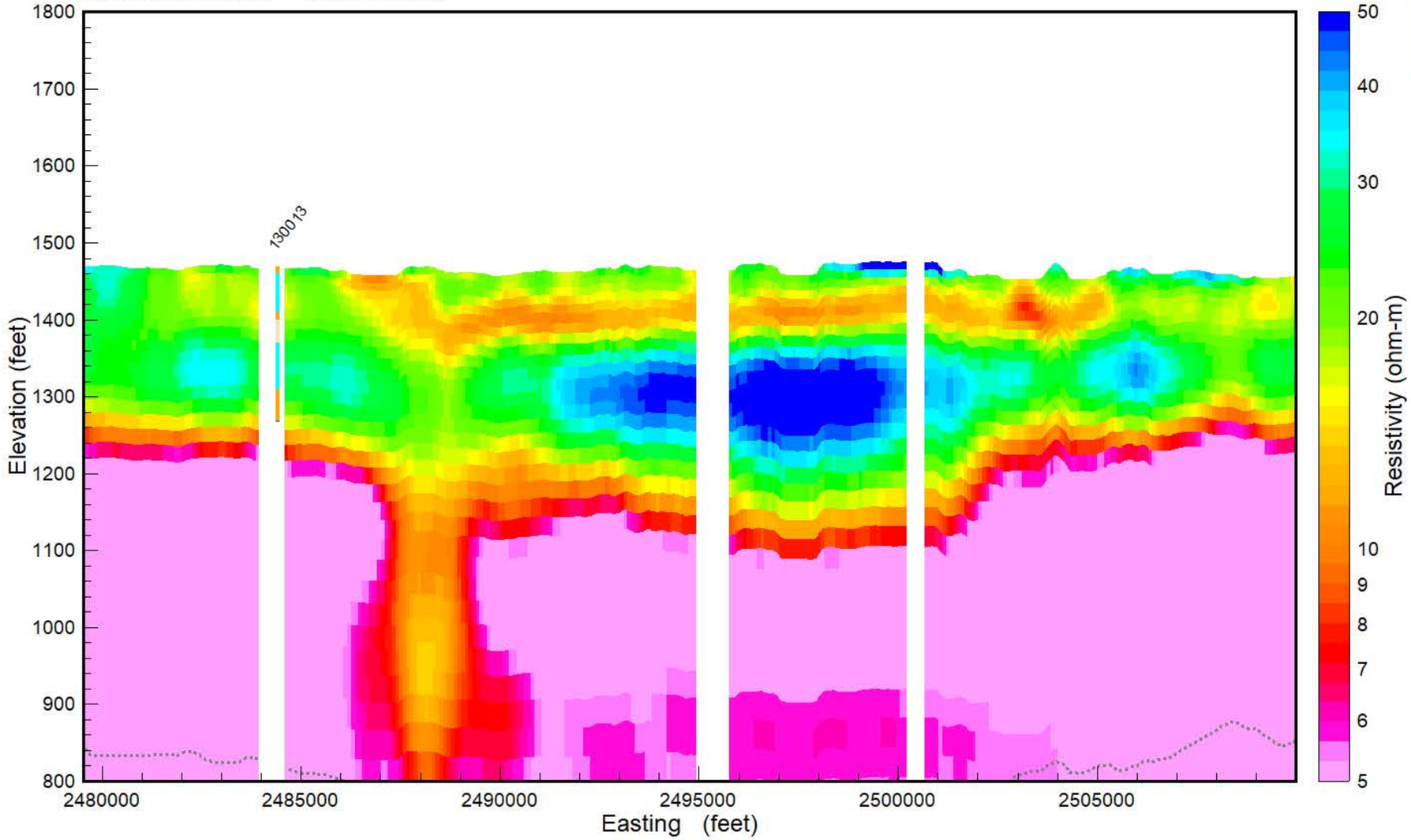
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Flight Path Line L5240

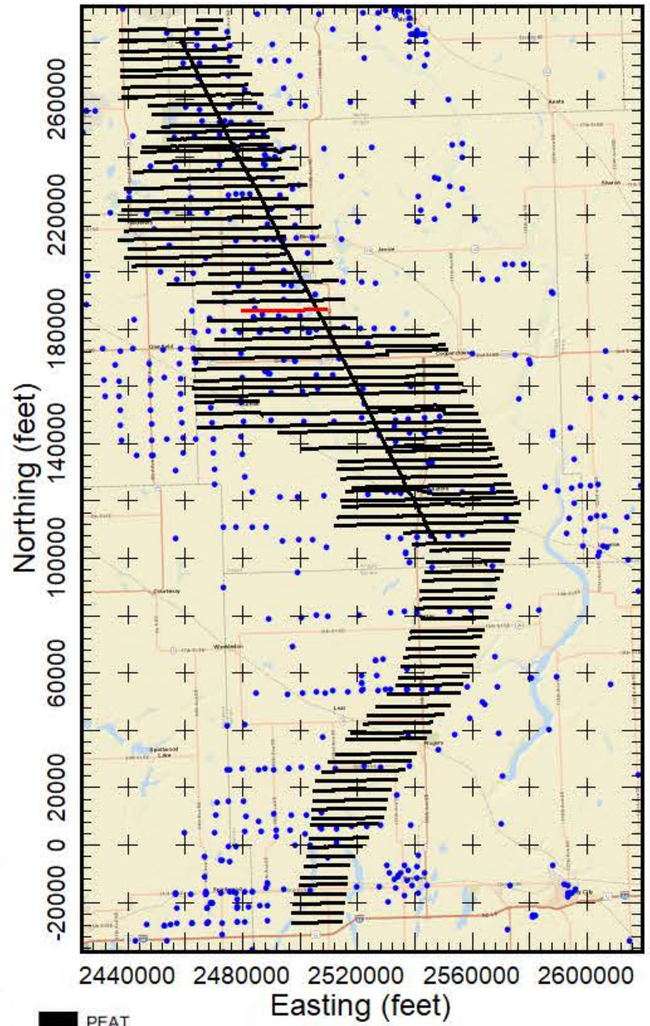


AEM Inversion Line L5240



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Be Legendary.

Flight Area Griggs

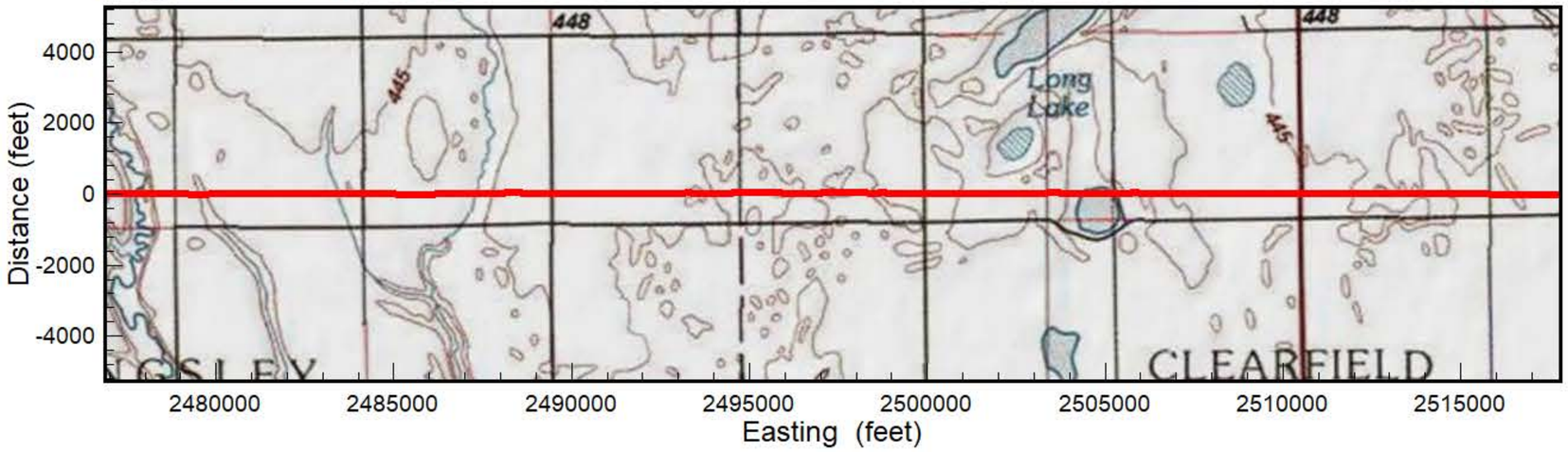


PEAT
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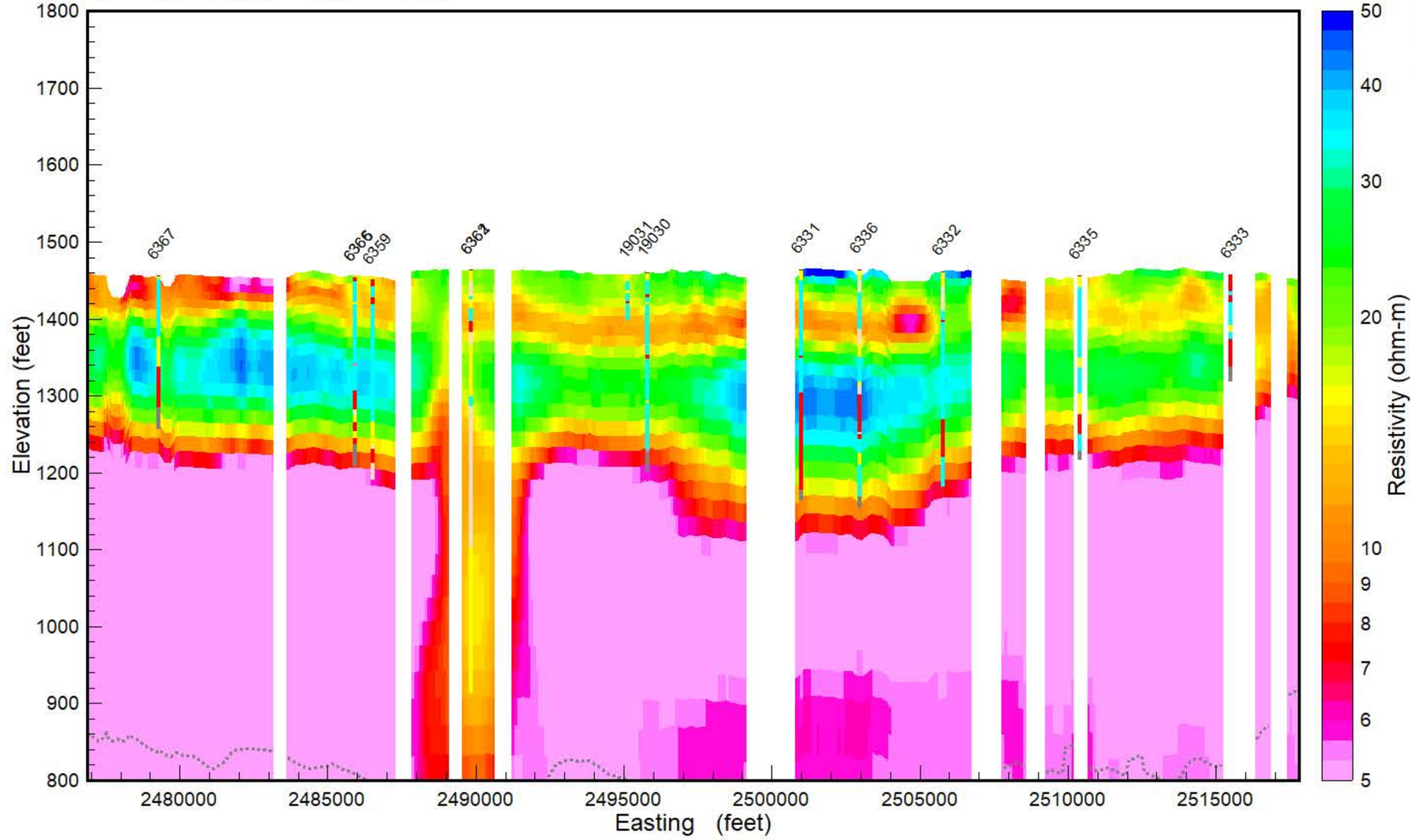
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GEOTECH AGF Aqua Geo Frameworks

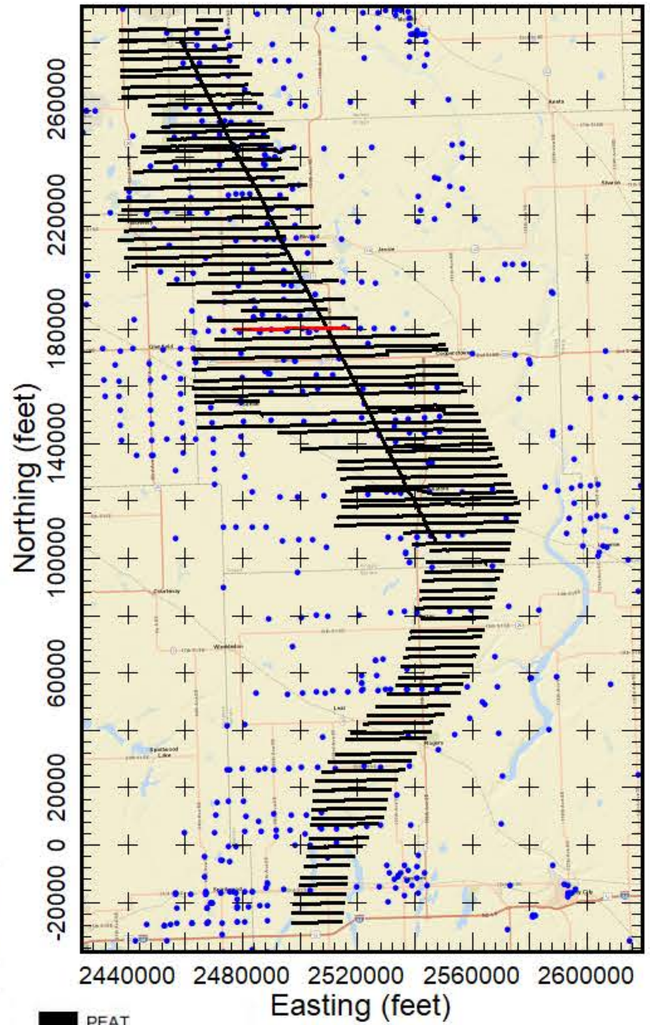
Flight Path Line L5250



AEM Inversion Line L5250



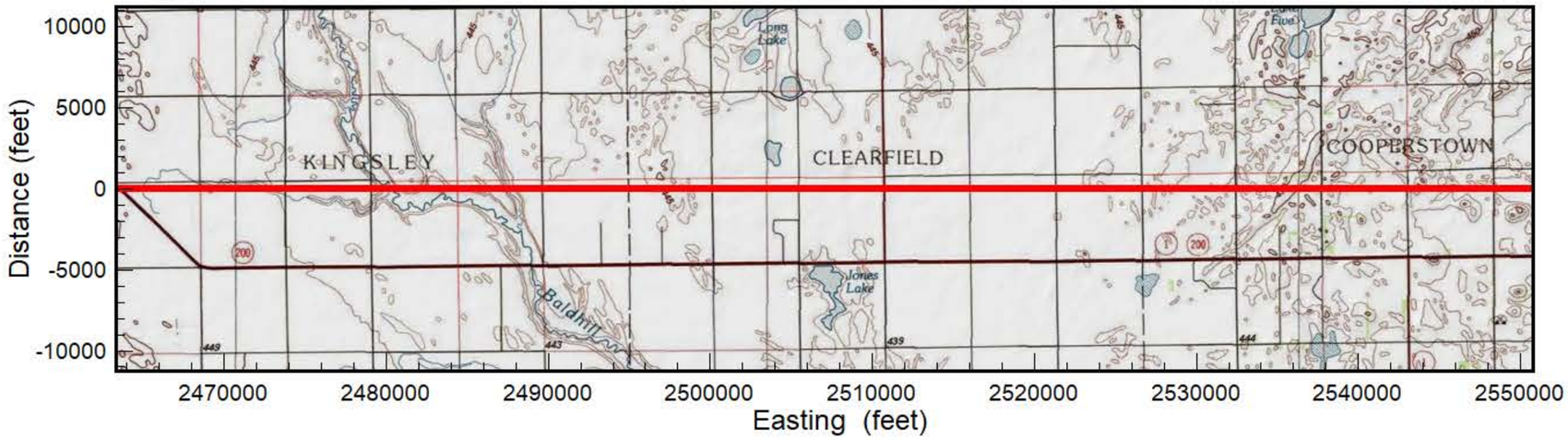
Flight Area Griggs



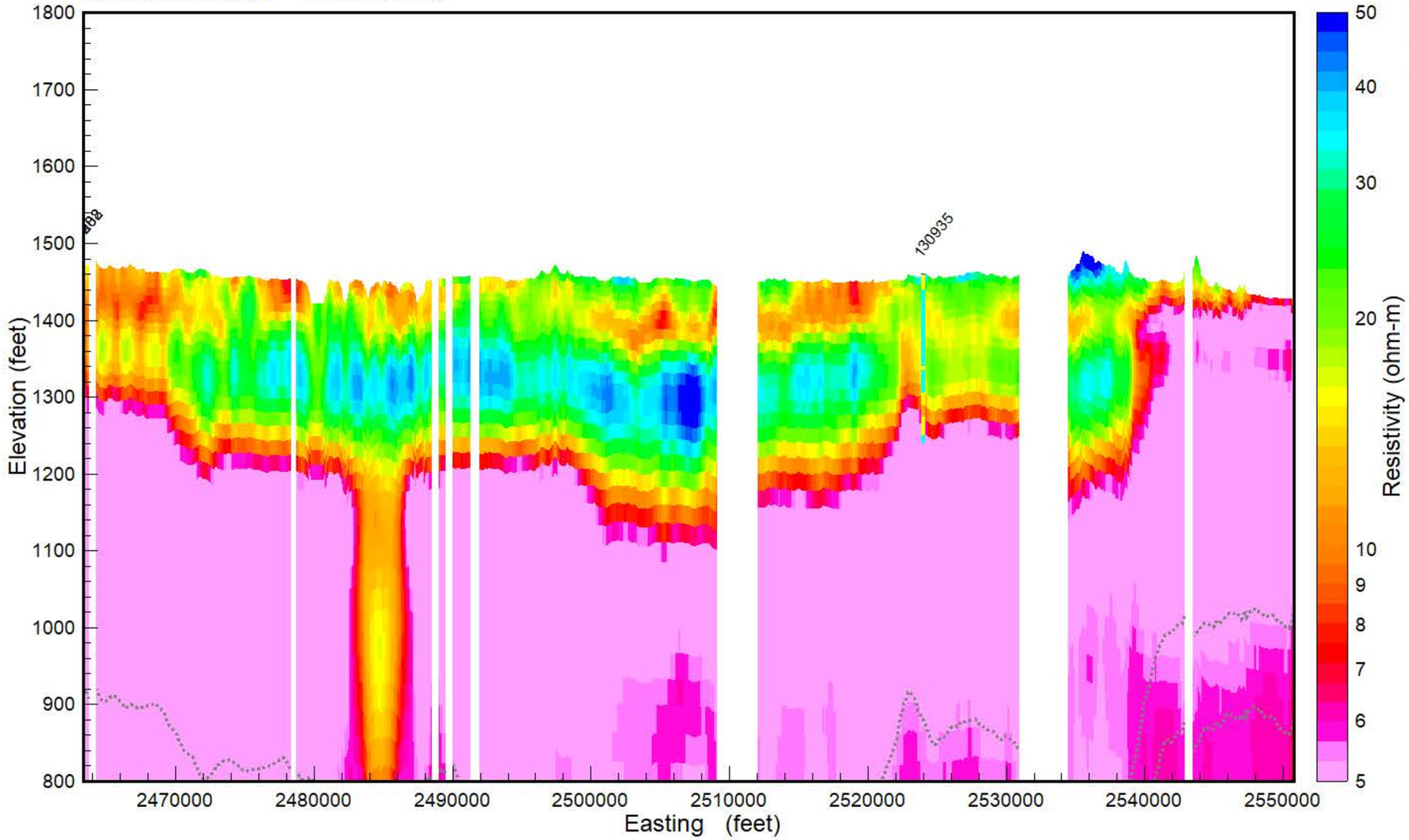
PEAT
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GRAVEL
SAND & GRAVEL
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SILT
CLAY
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FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

Flight Path Line L5270

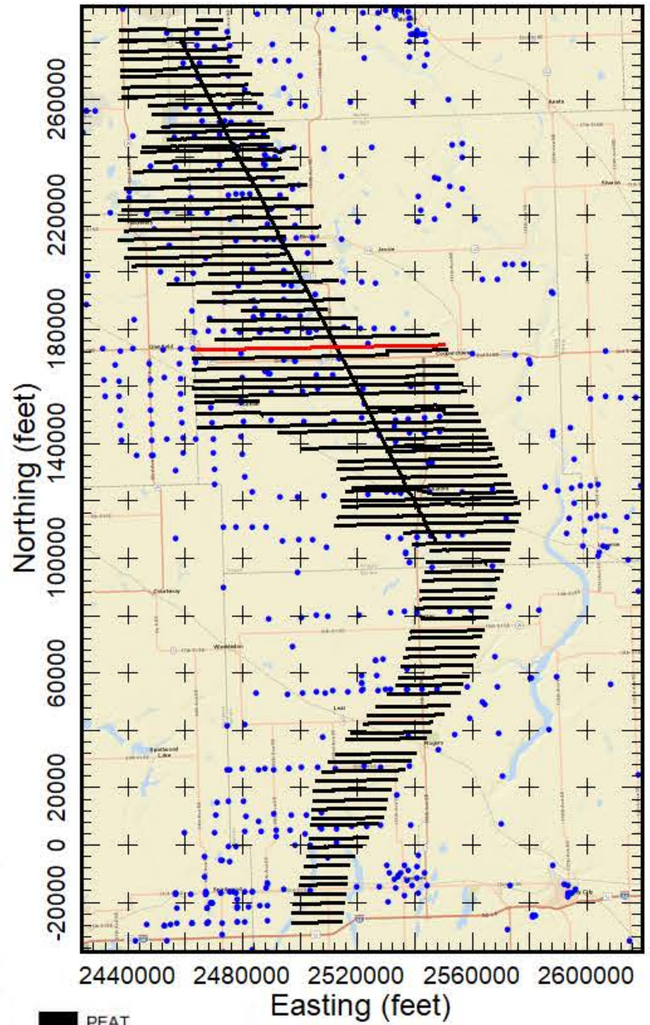


AEM Inversion Line L5270



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Be Legendary.

Flight Area Griggs

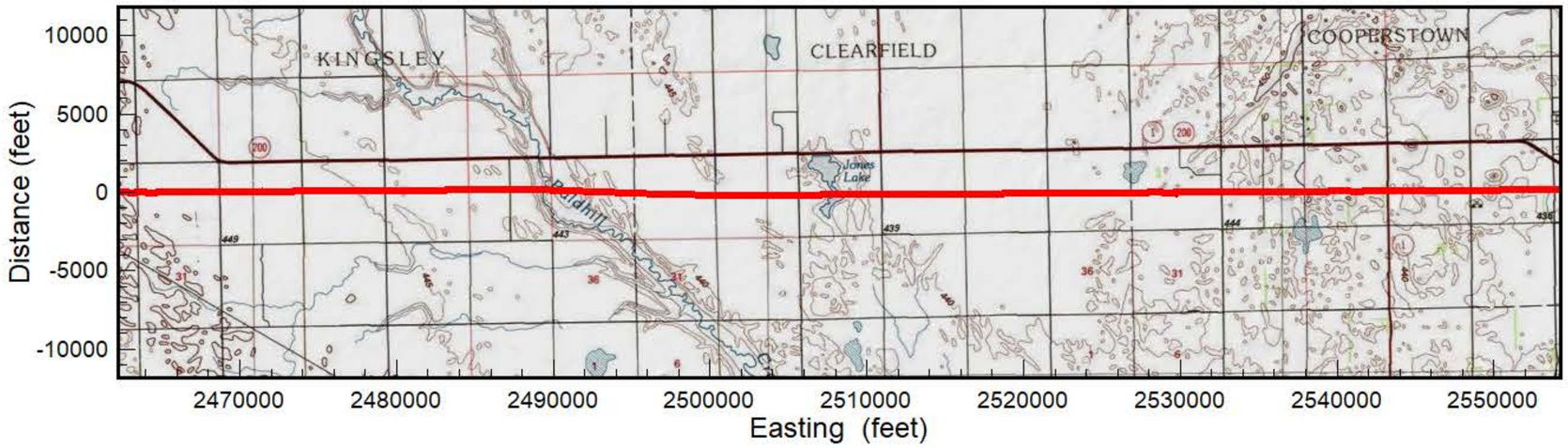


- PEAT
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- WEATHERED GRANI
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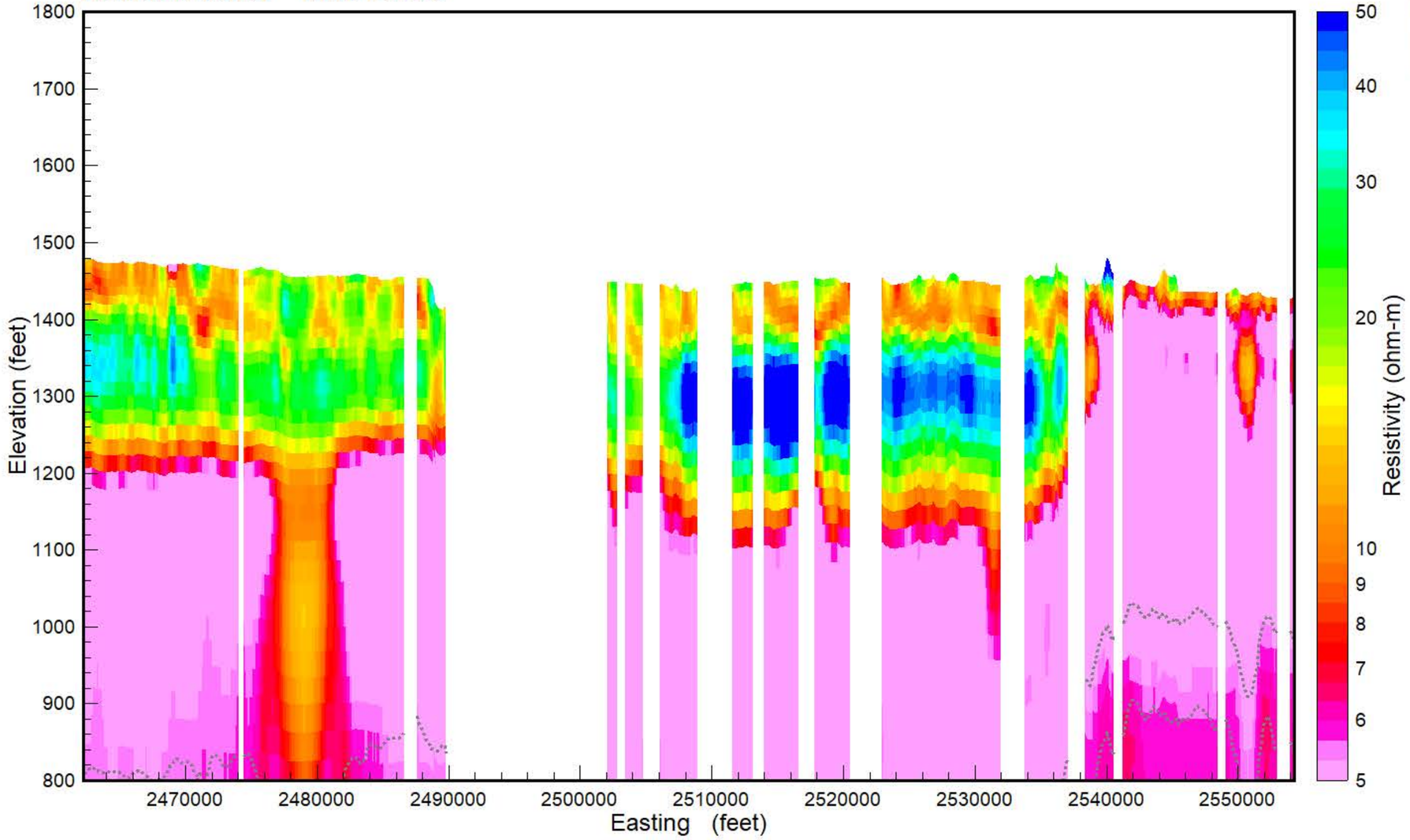
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Flight Path Line L5305

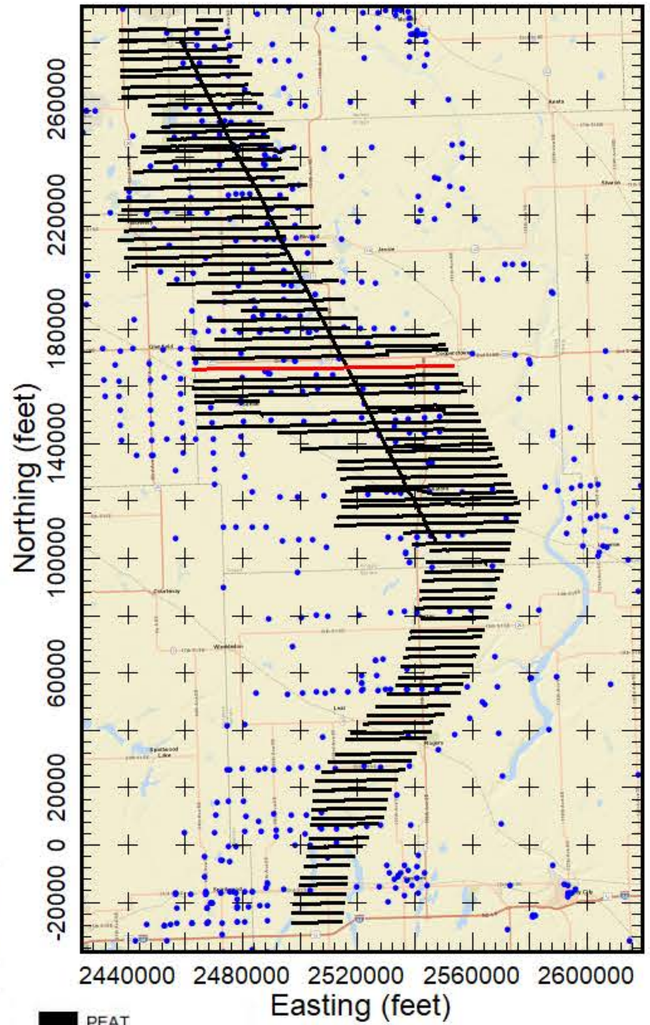


AEM Inversion Line L5305



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

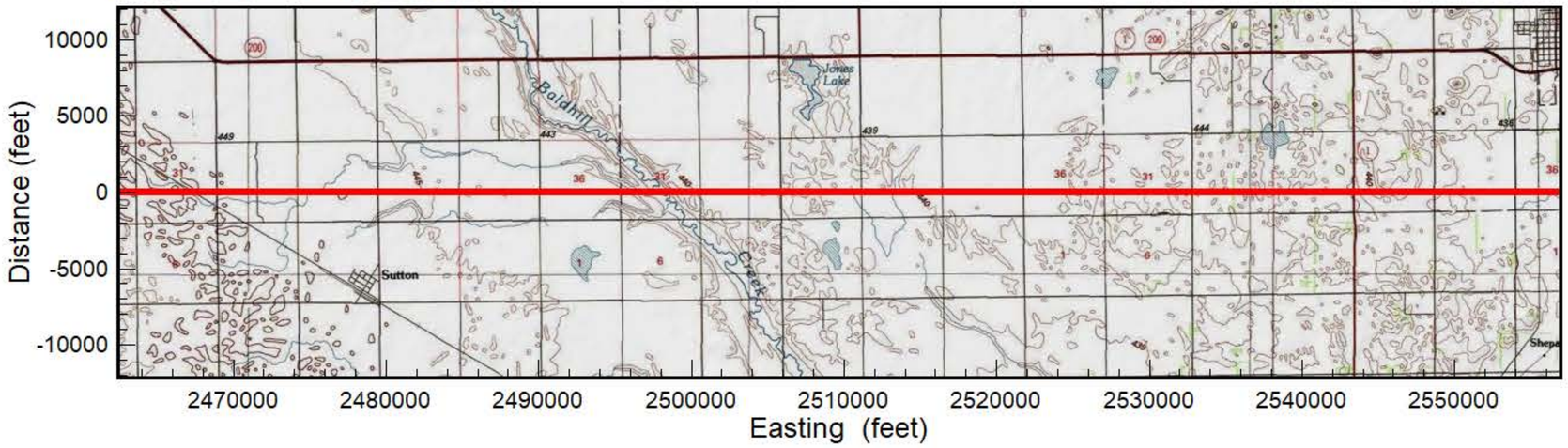


- PEAT
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- BOULDER
- ROCK
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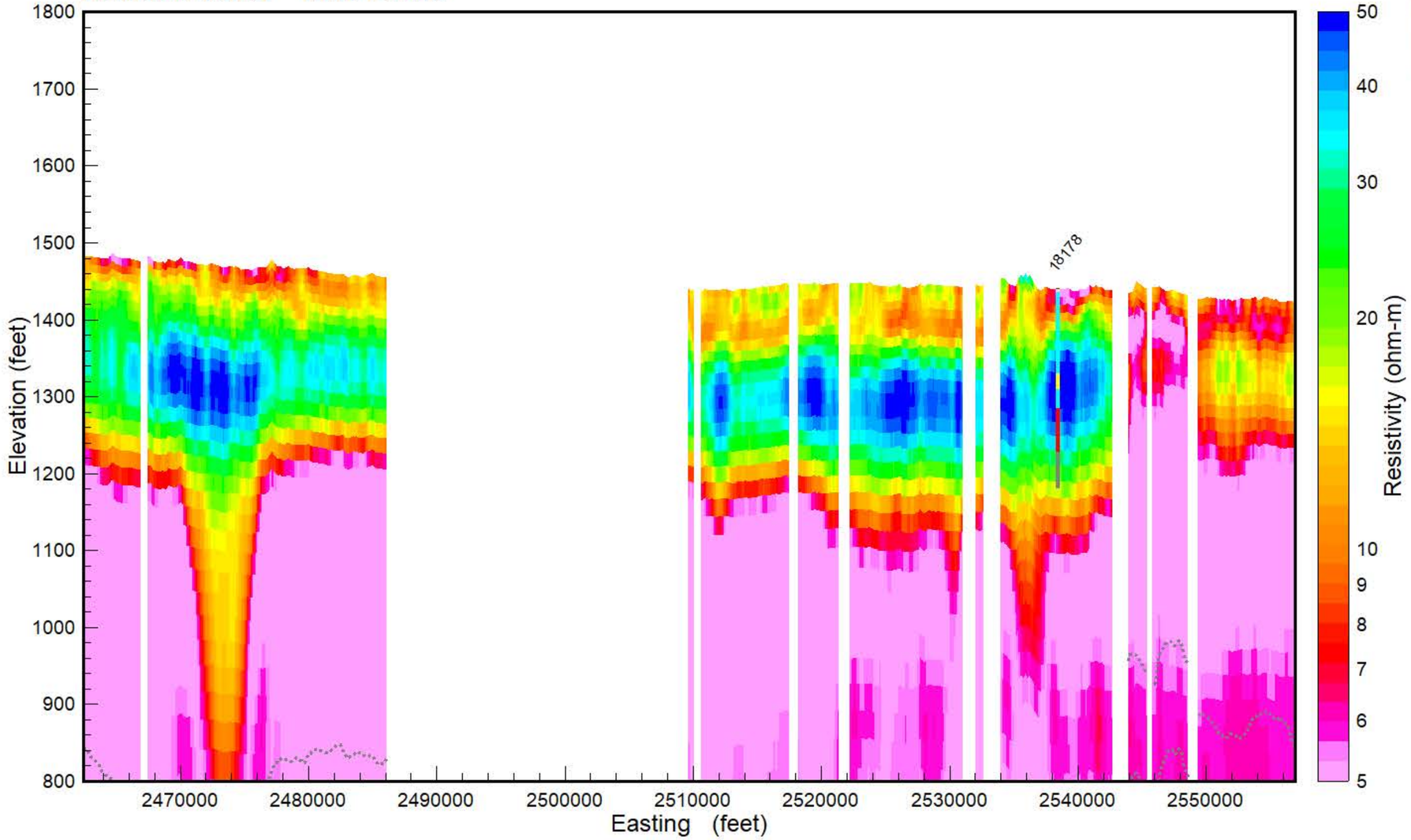
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Flight Path Line L5345

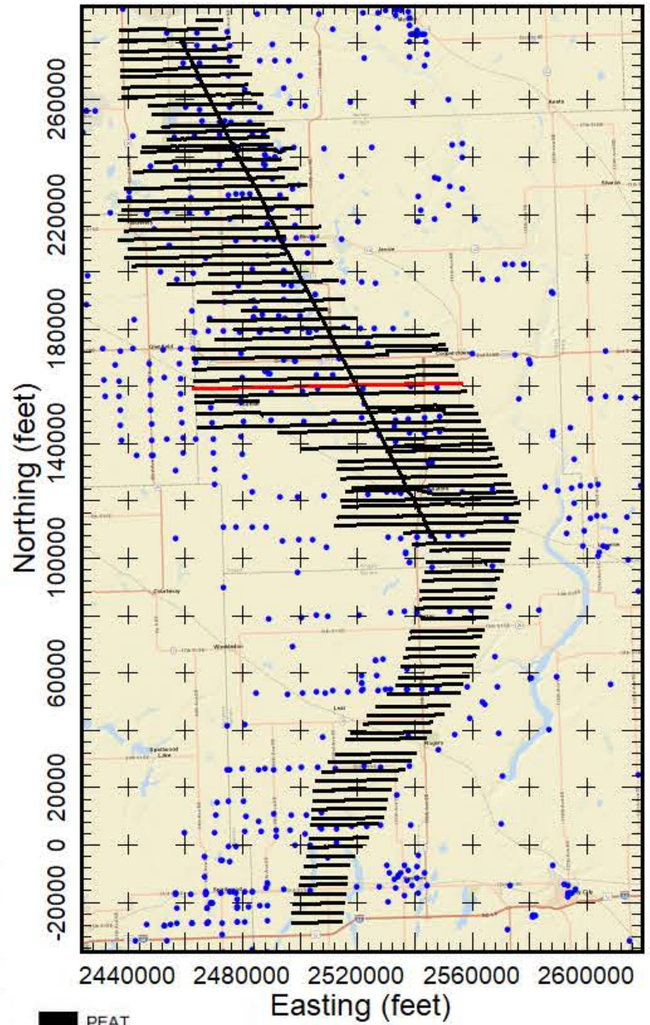


AEM Inversion Line L5345



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs





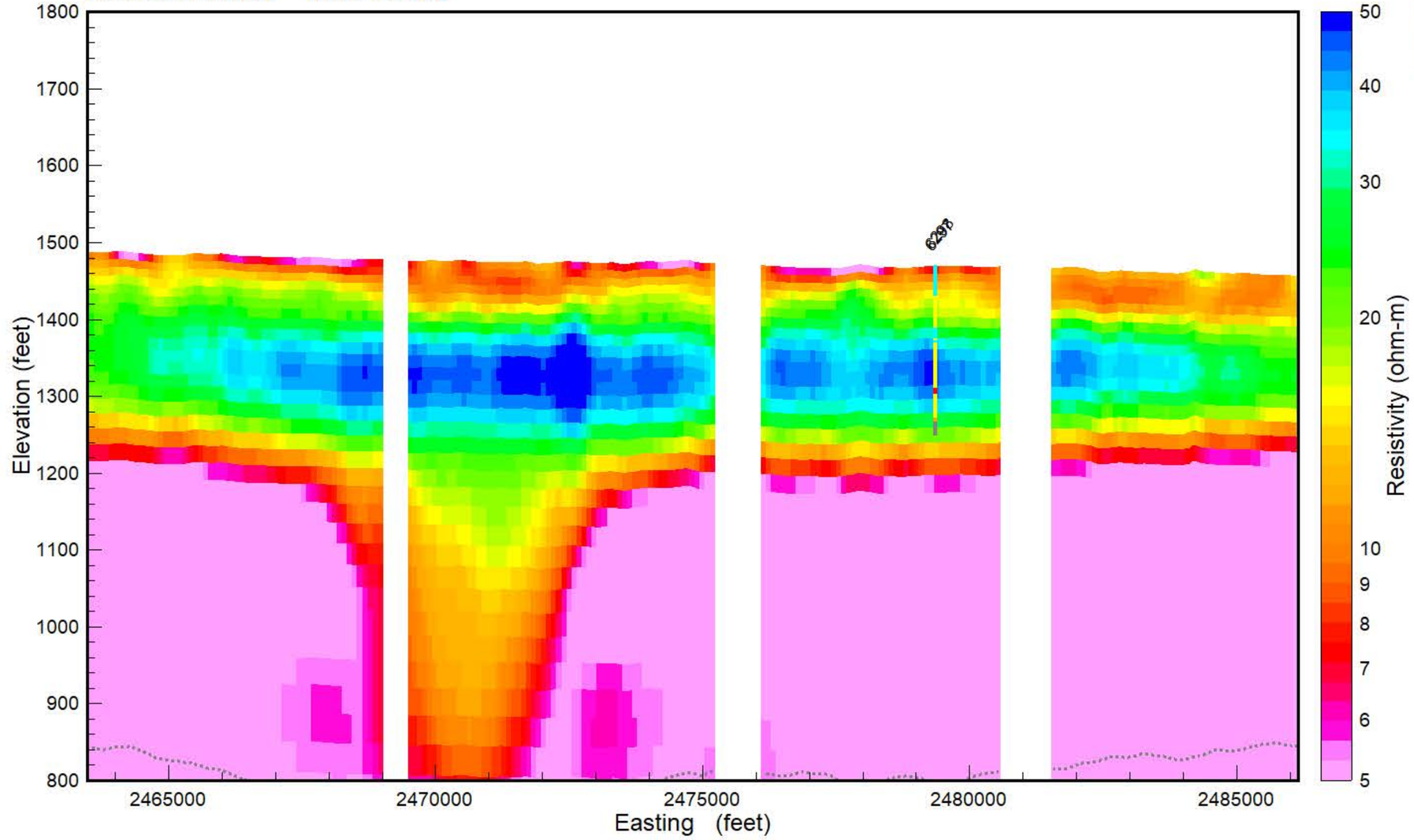
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5380

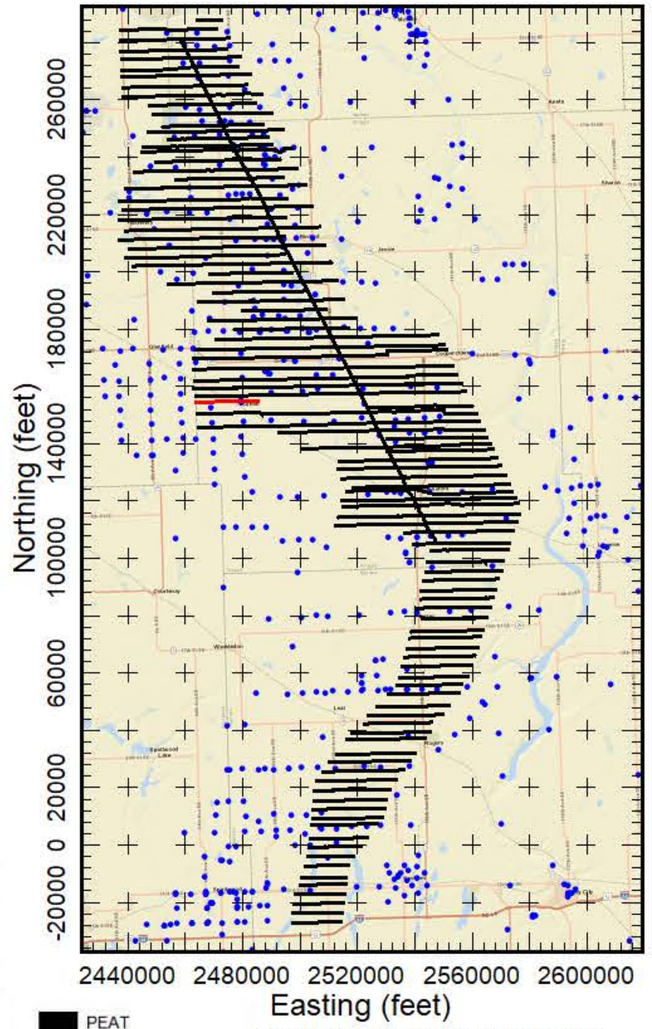


AEM Inversion Line L5380



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Flight Area Griggs

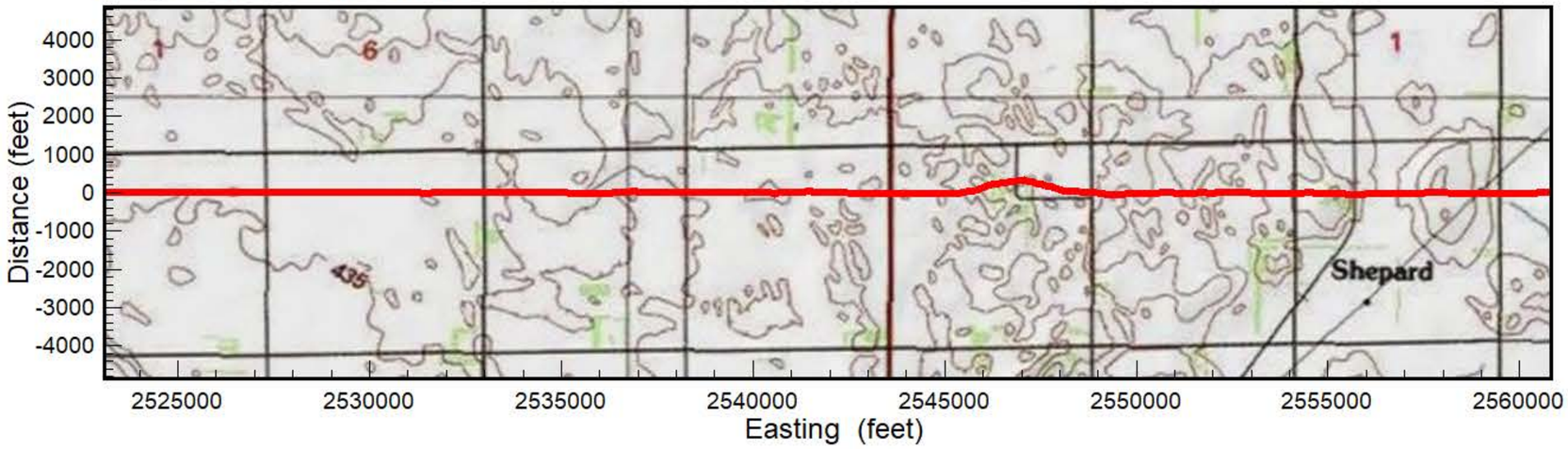


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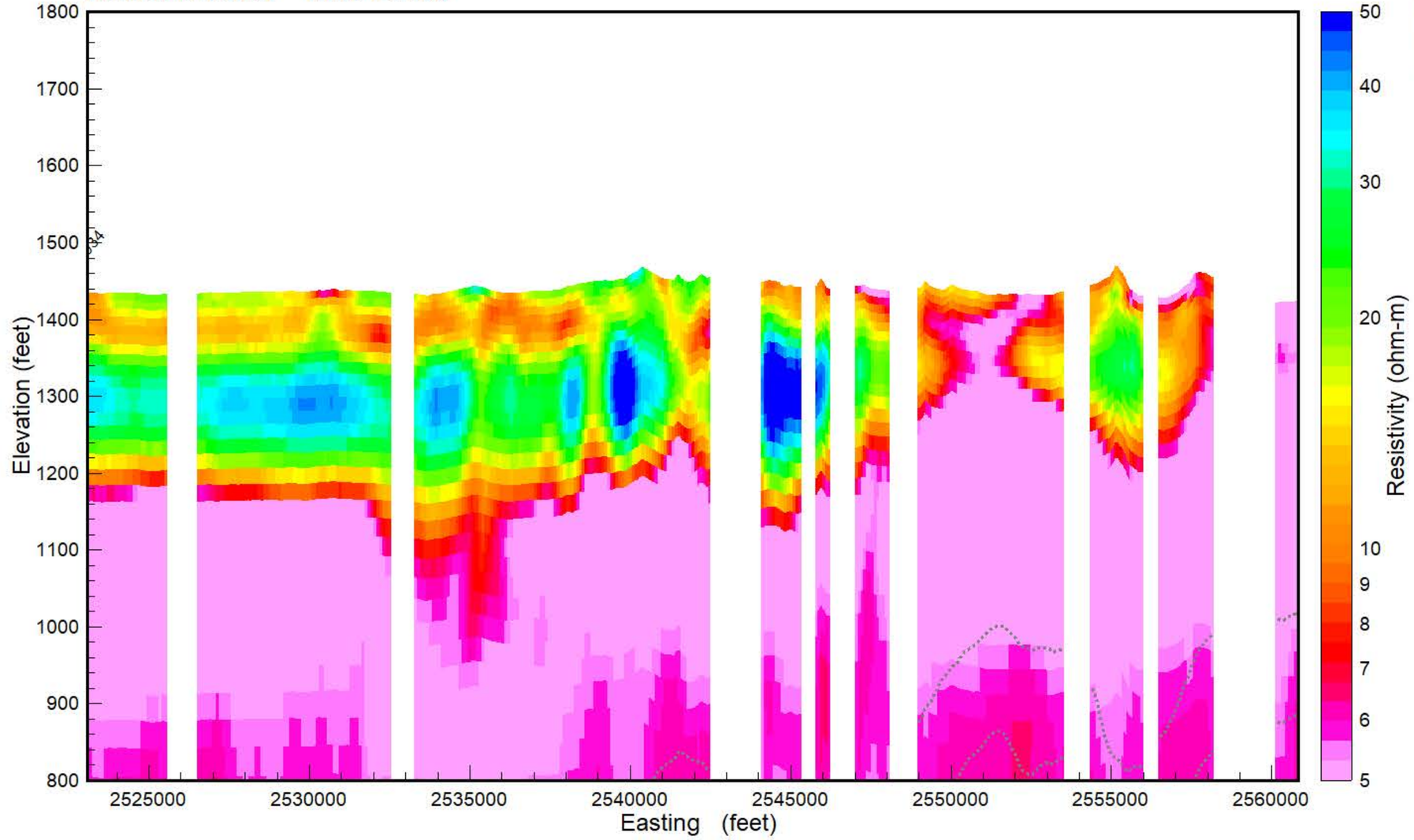
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5400

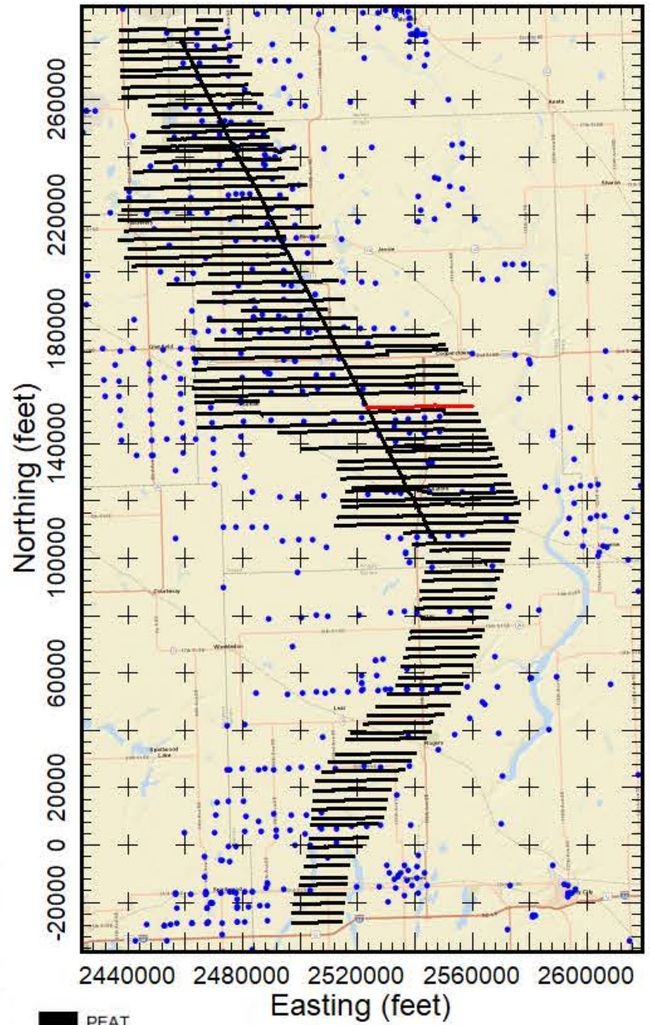


AEM Inversion Line L5400



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

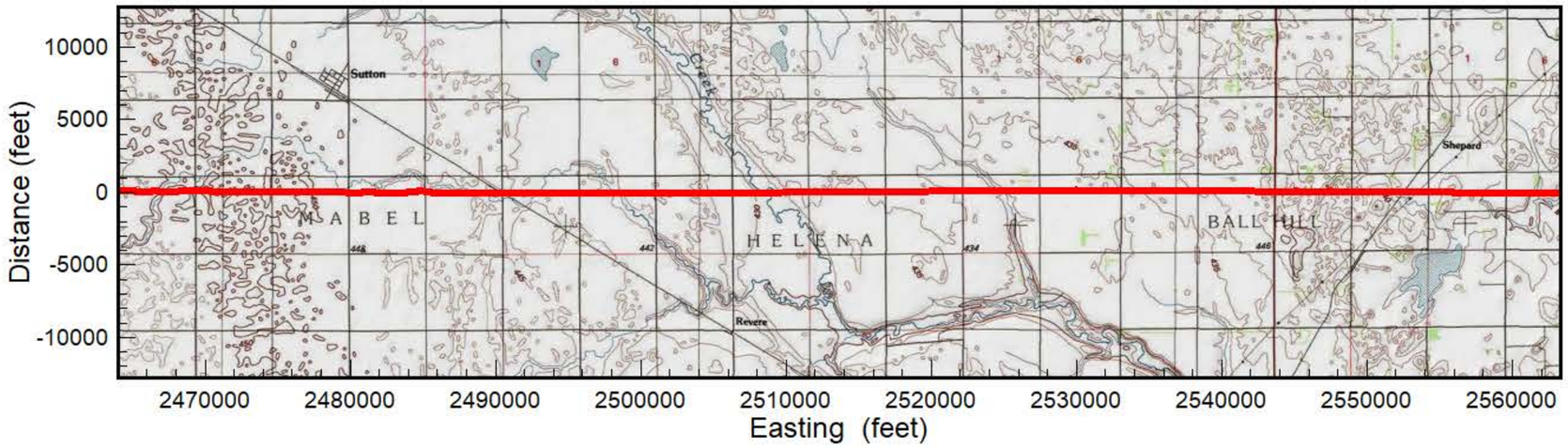


- PEAT
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- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
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- SILTSTONE
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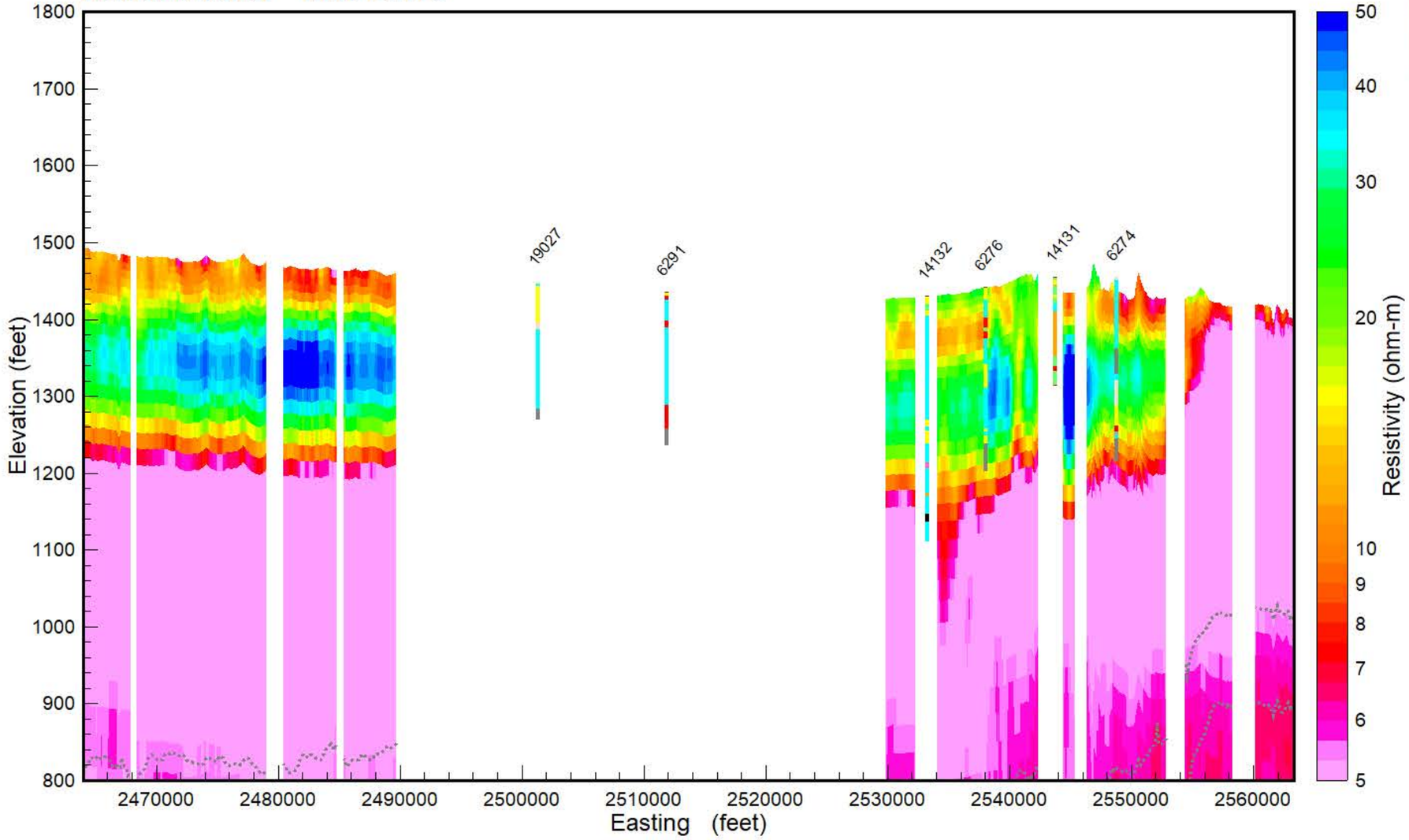
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5415

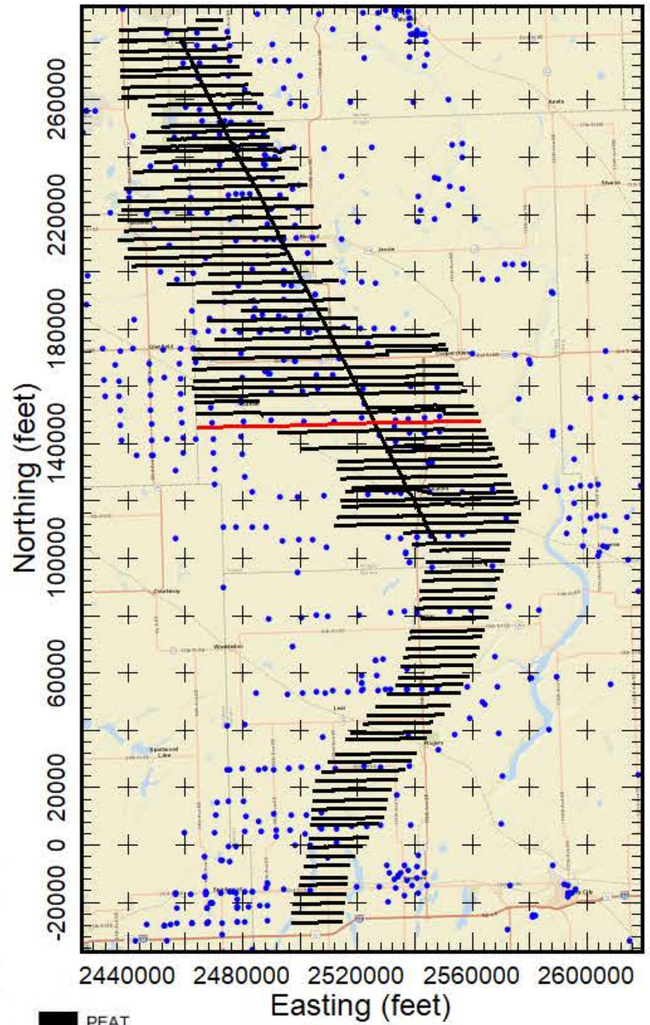


AEM Inversion Line L5415



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Be Legendary.

Flight Area Griggs

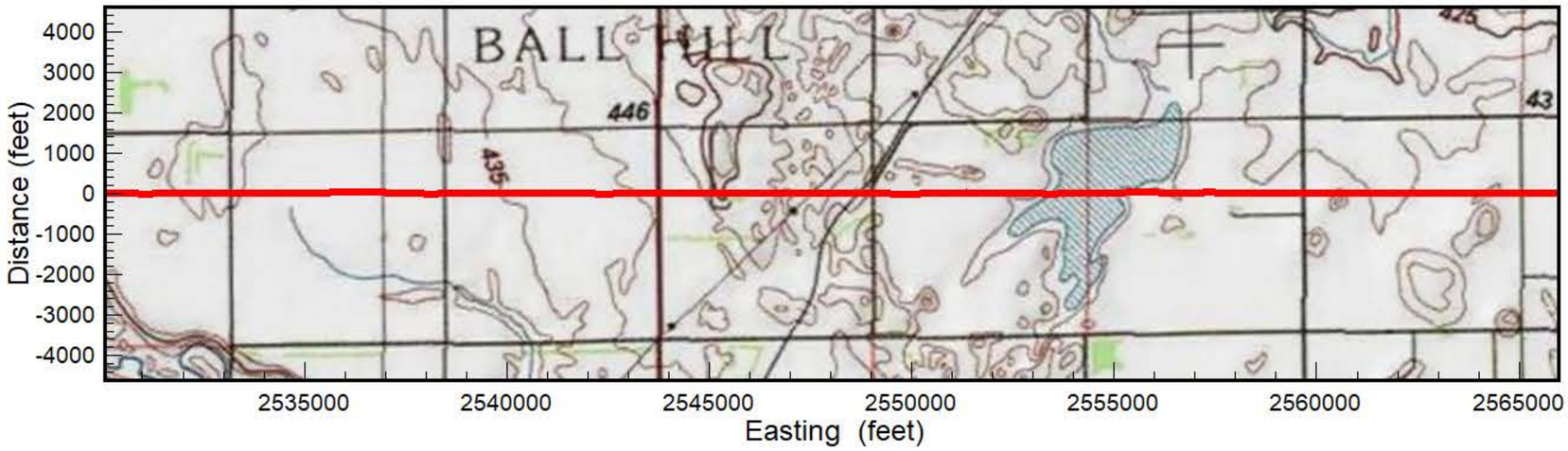


- PEAT
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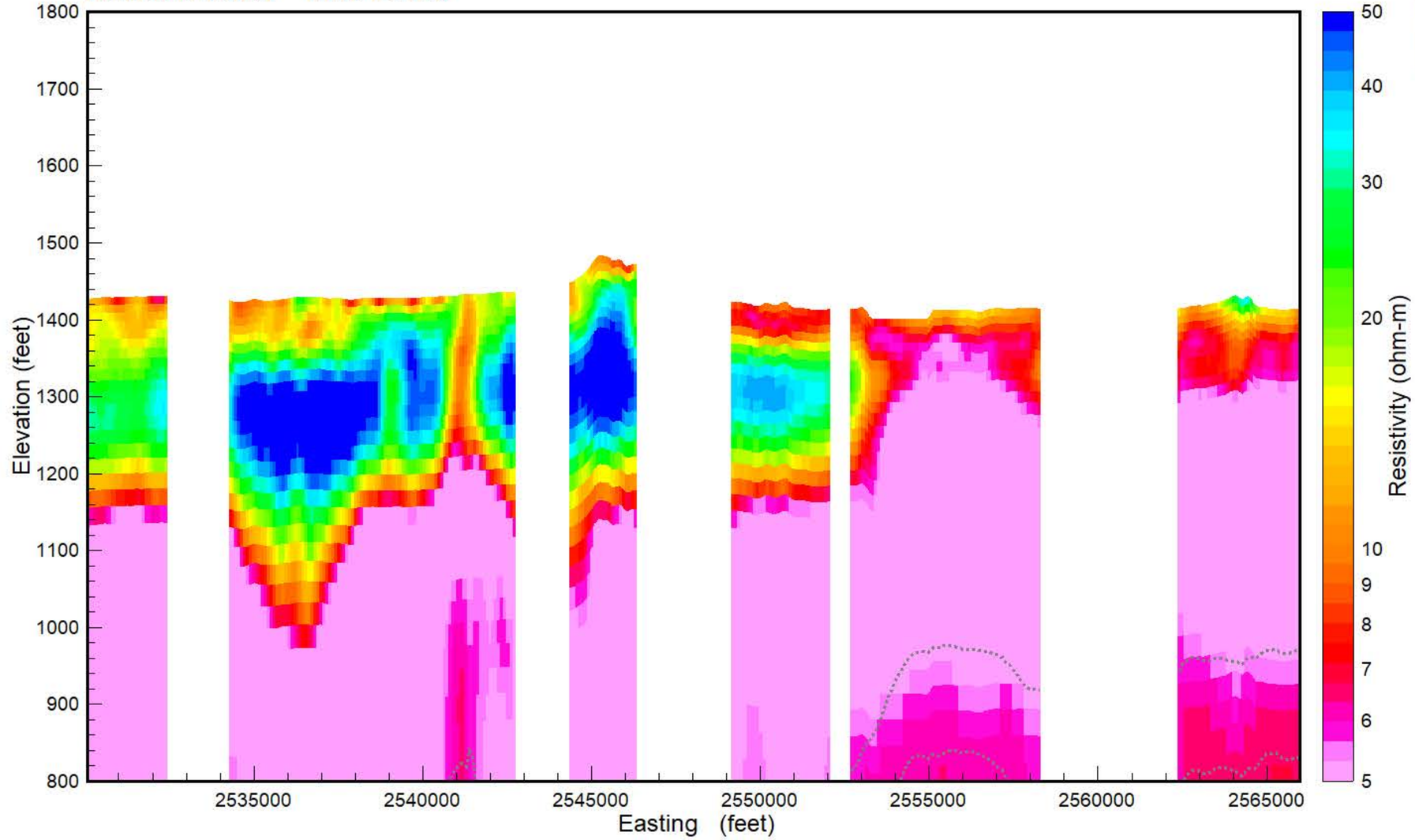
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Flight Path Line L5450

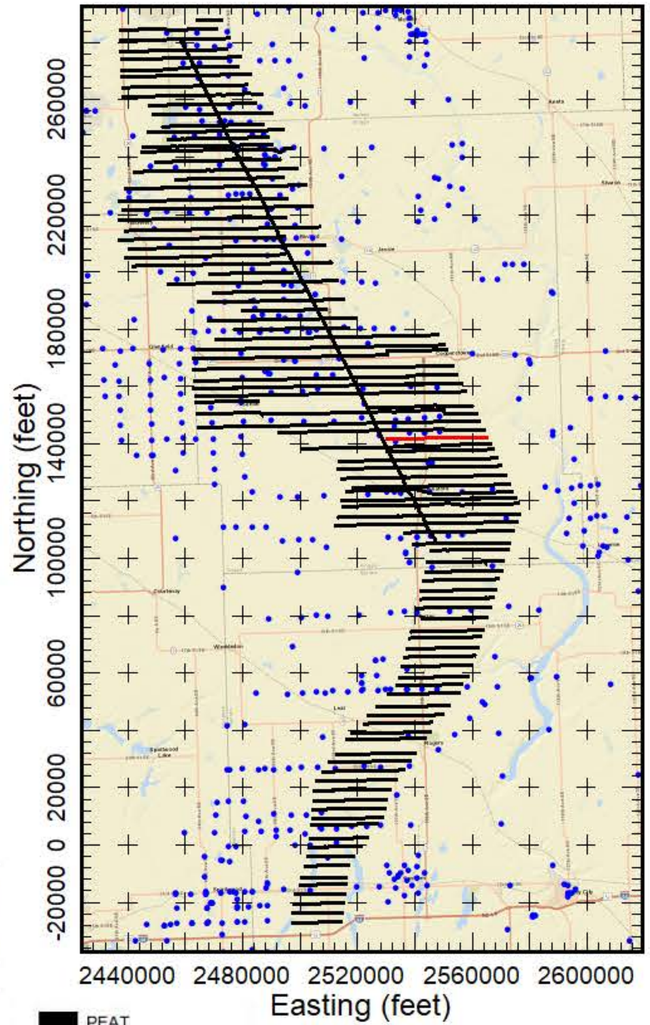


AEM Inversion Line L5450



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Flight Area Griggs

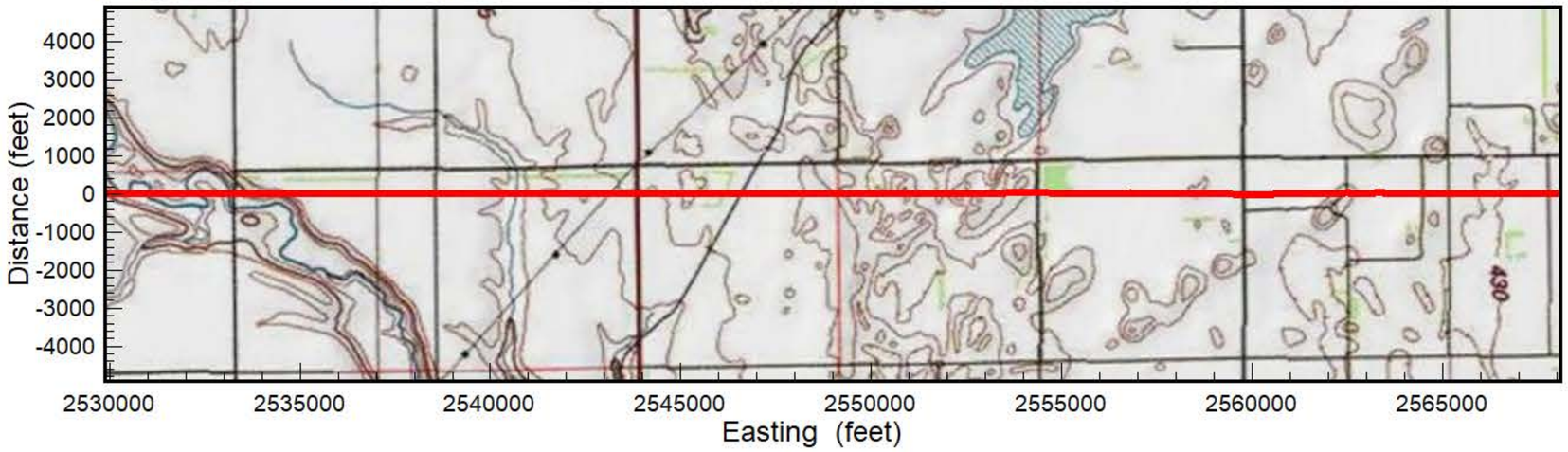


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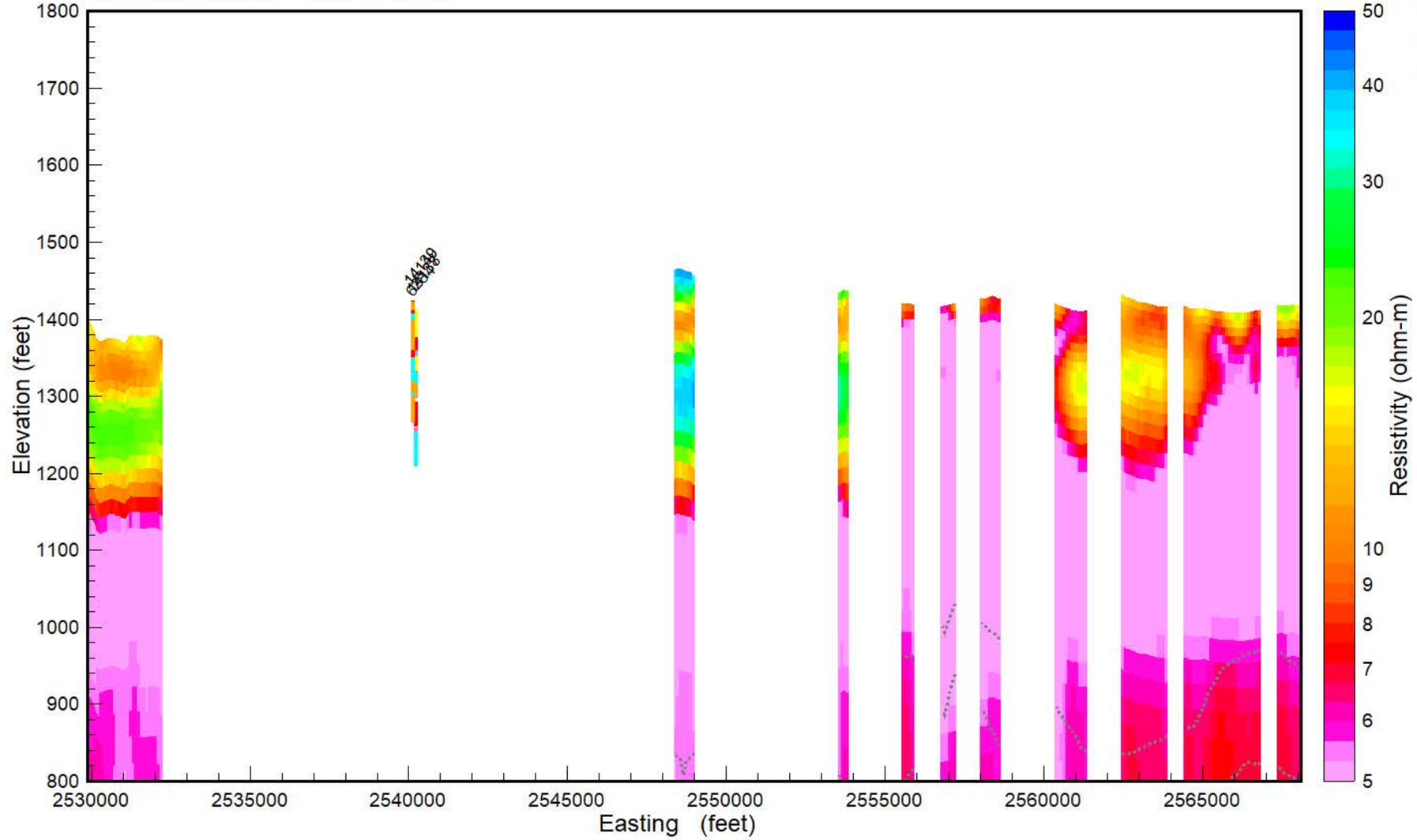
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Flight Path Line L5470

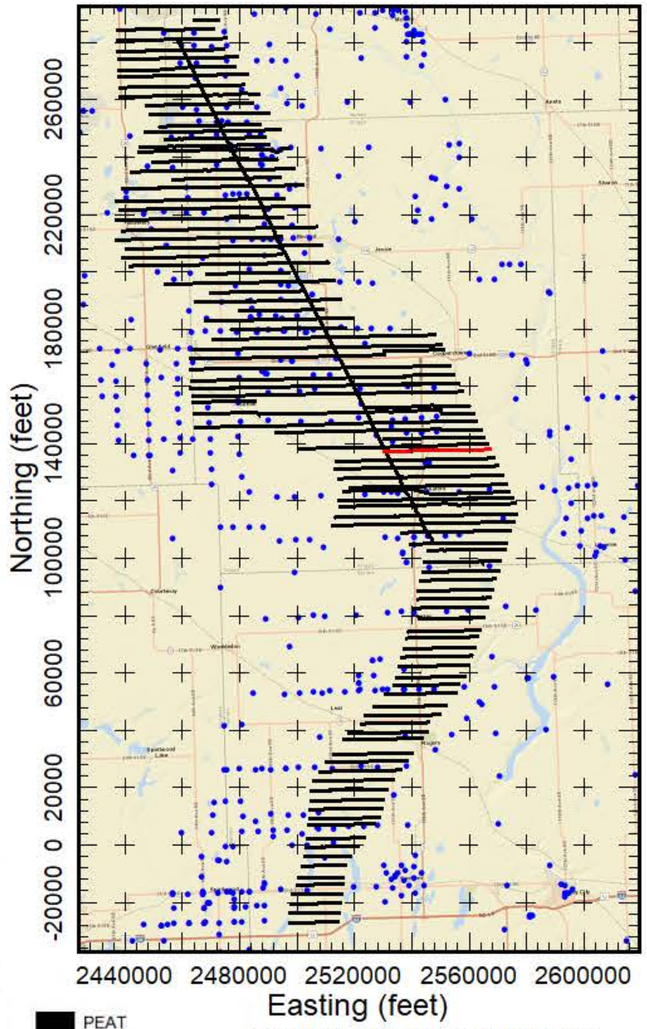


AEM Inversion Line L5470



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Be Legendary.

Flight Area Griggs

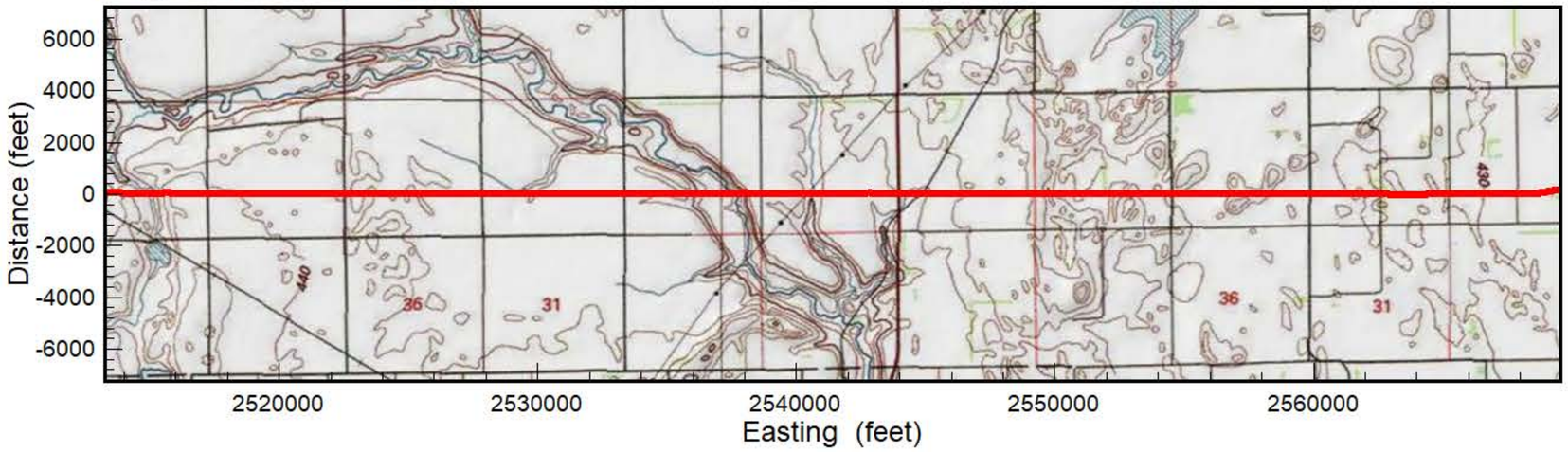




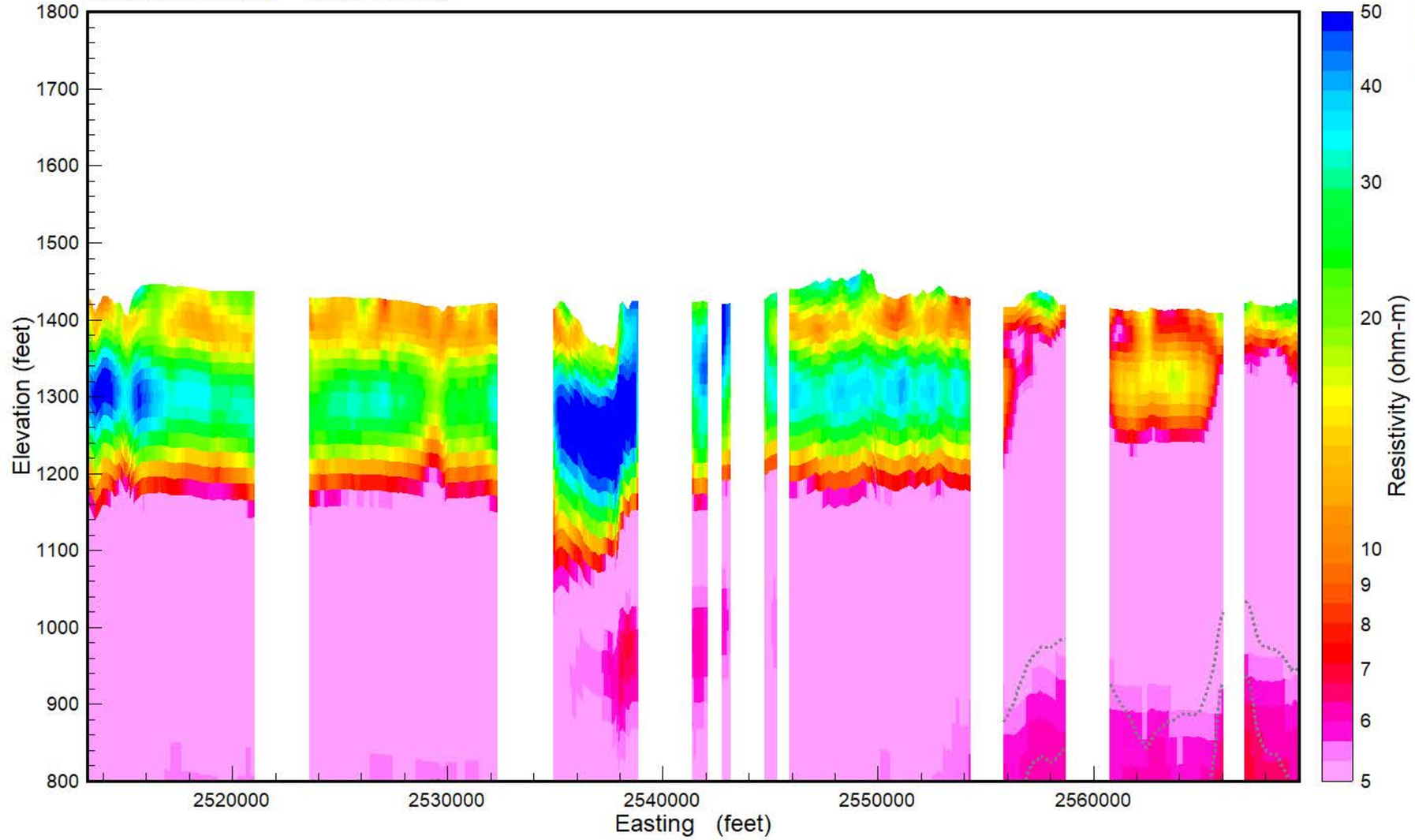
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Flight Path Line L5480

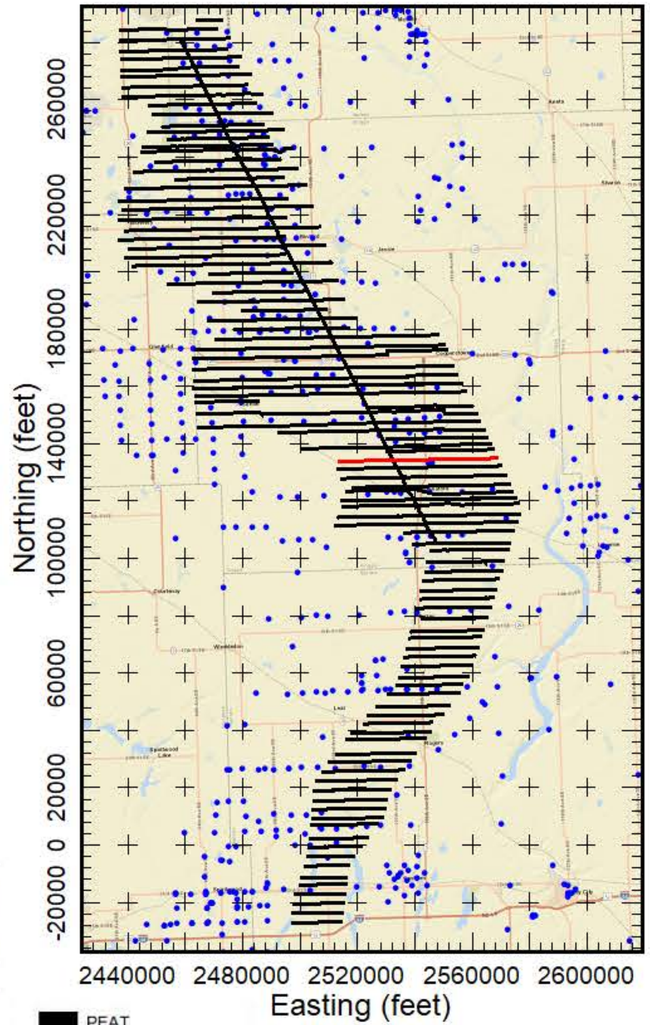


AEM Inversion Line L5480



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Be Legendary.

Flight Area Griggs

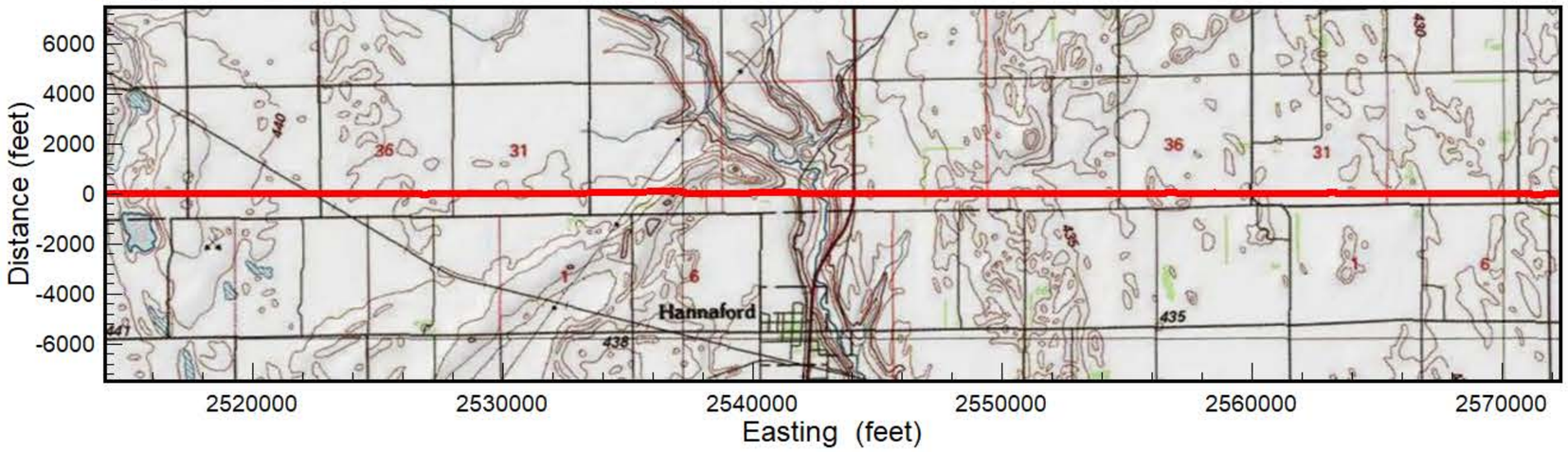


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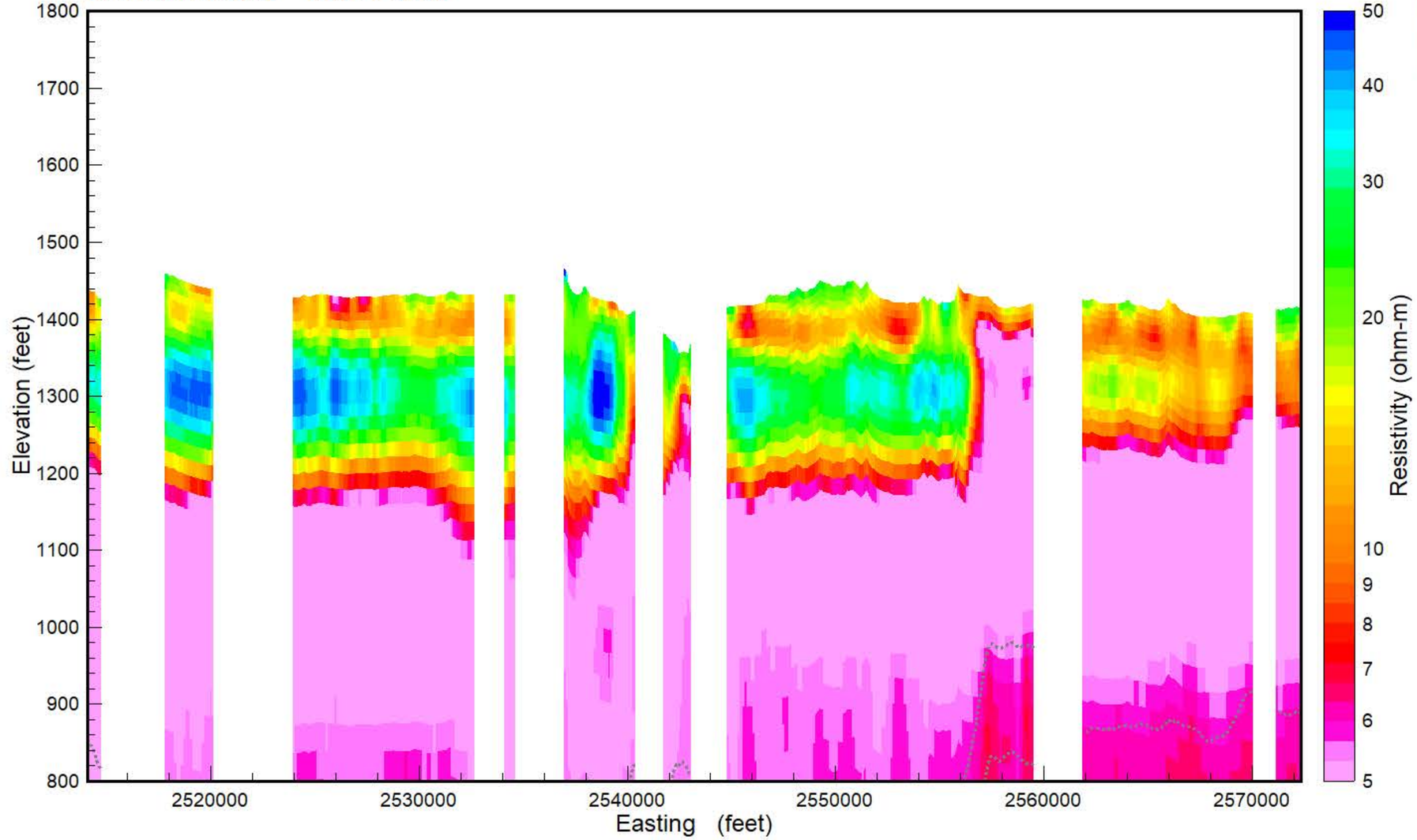
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Flight Path Line L5500

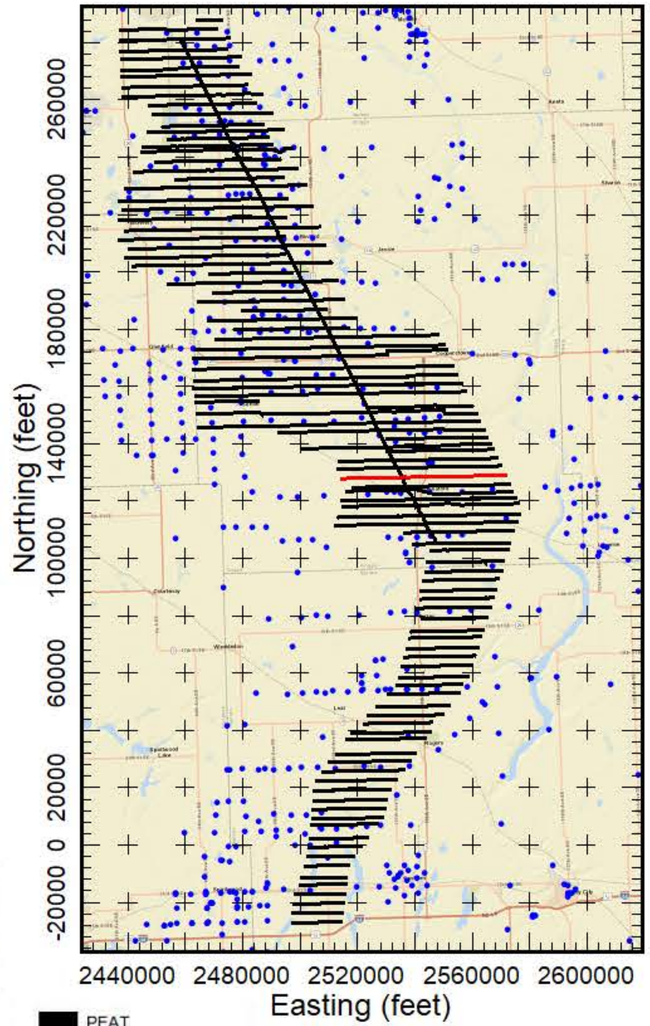


AEM Inversion Line L5500



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Be Legendary.

Flight Area Griggs

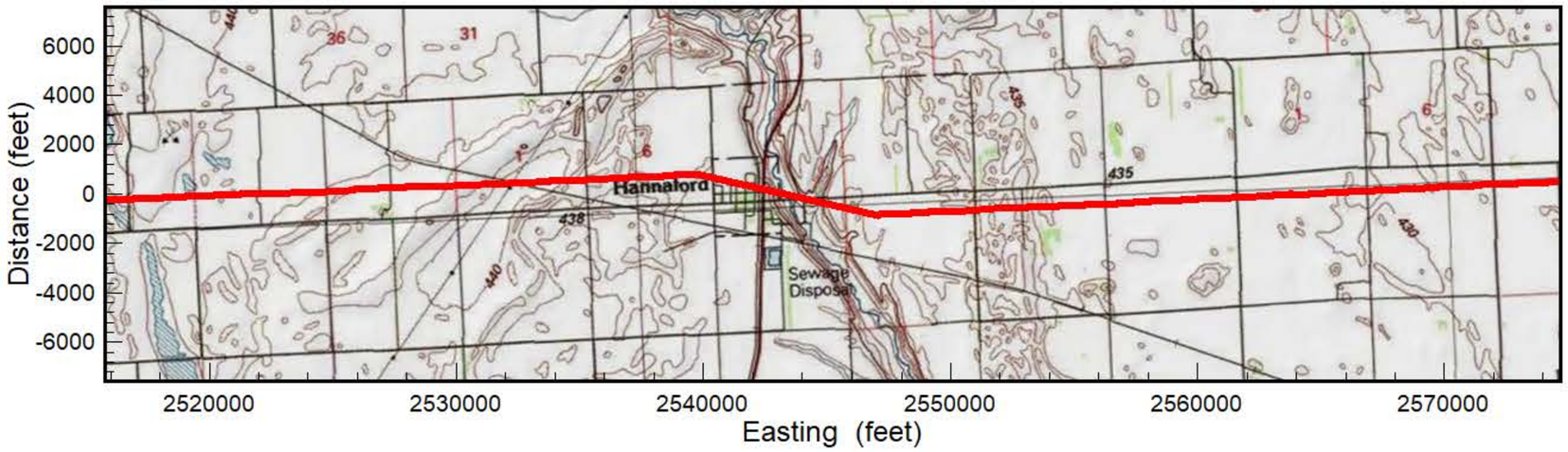


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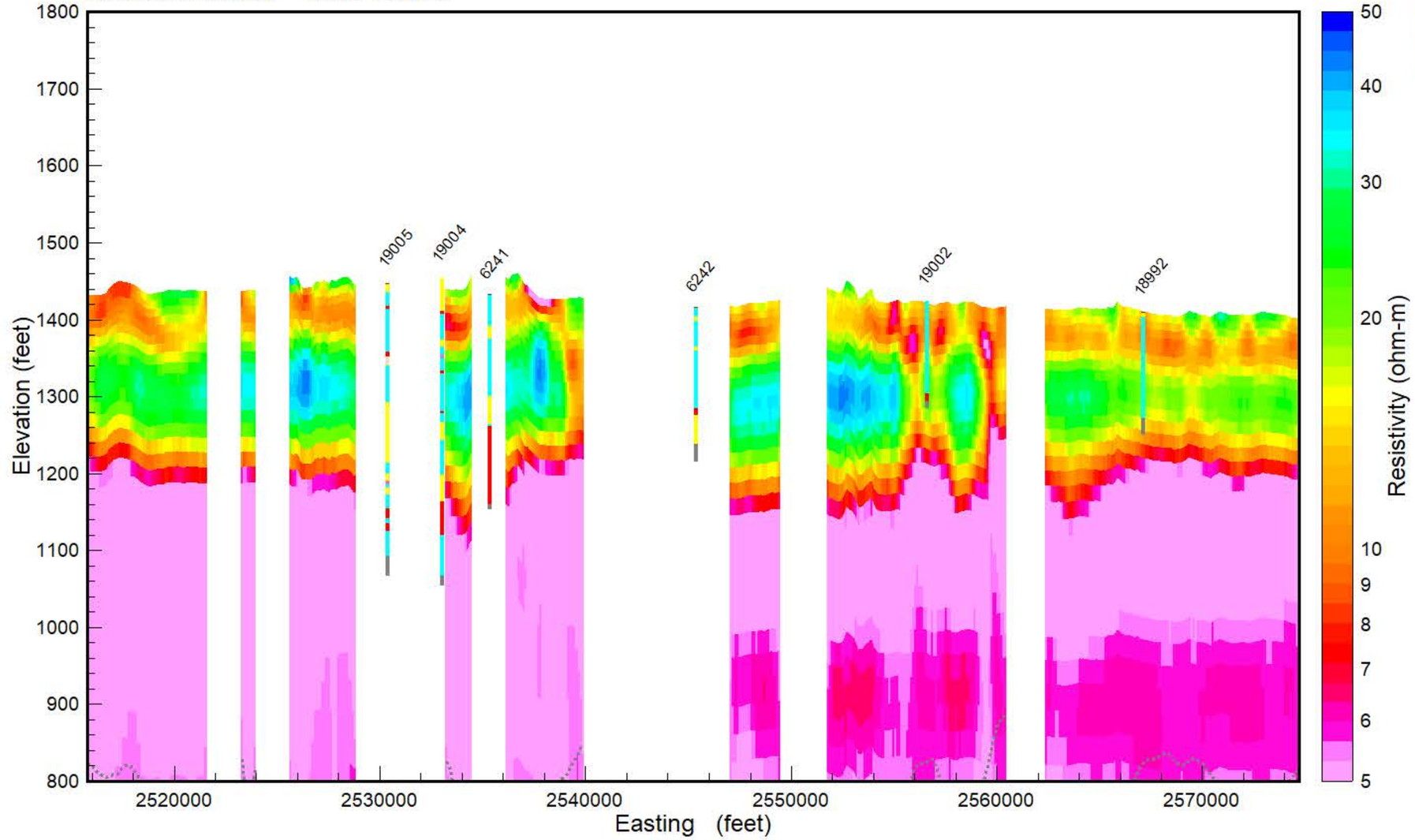
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Flight Path Line L5515

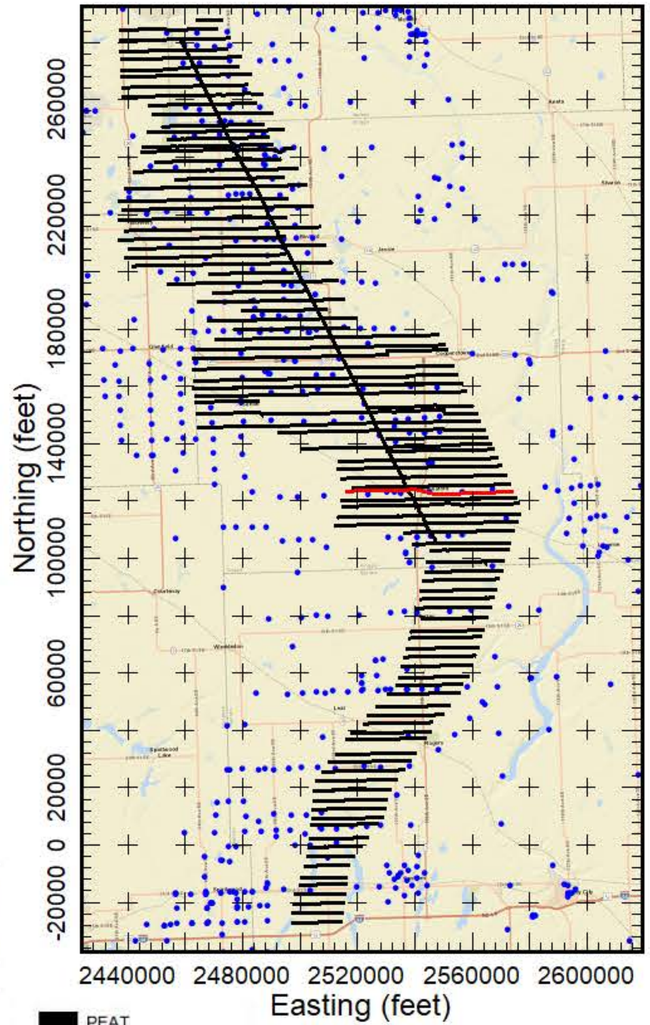


AEM Inversion Line L5515



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Be Legendary.

Flight Area Griggs

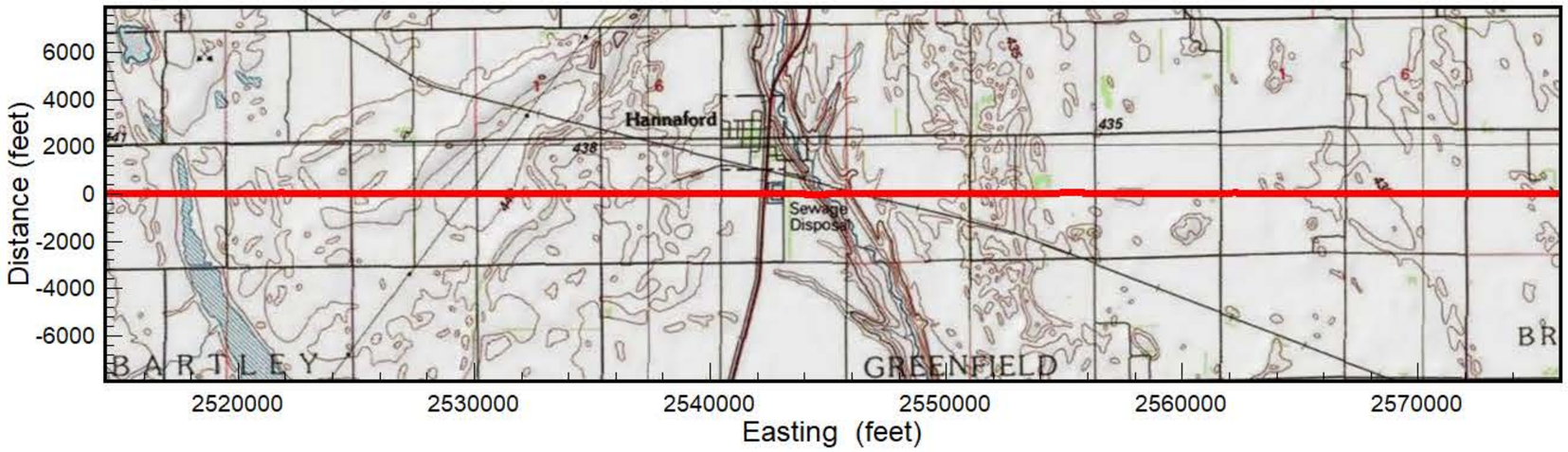


- PEAT
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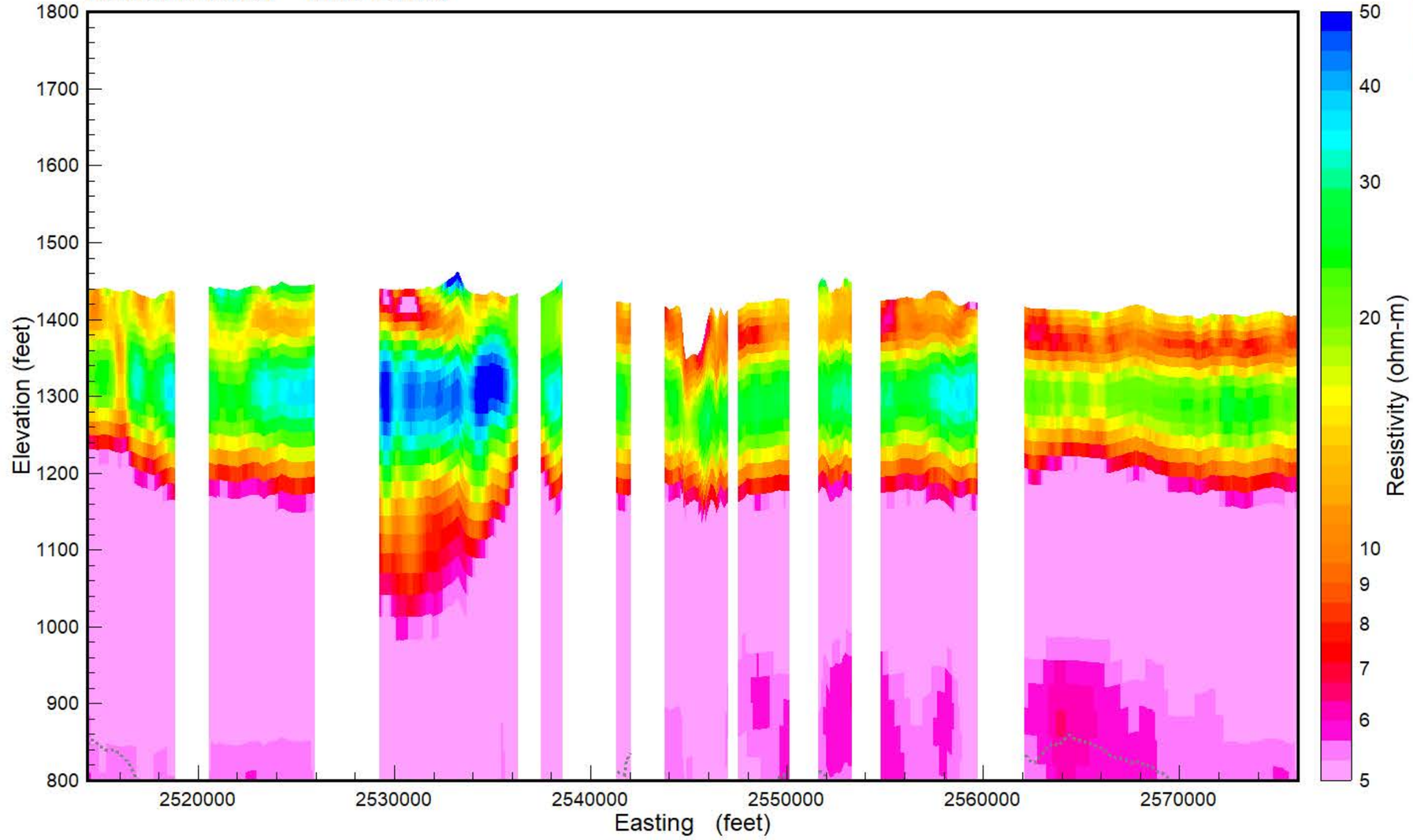
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Flight Path Line L5540

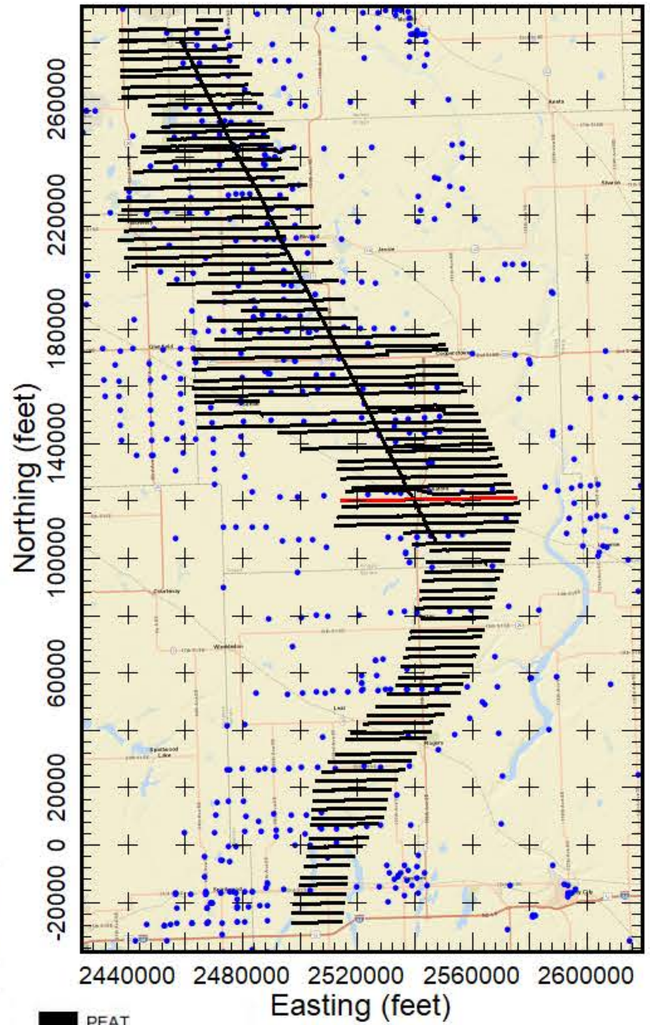


AEM Inversion Line L5540



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Be Legendary.

Flight Area Griggs

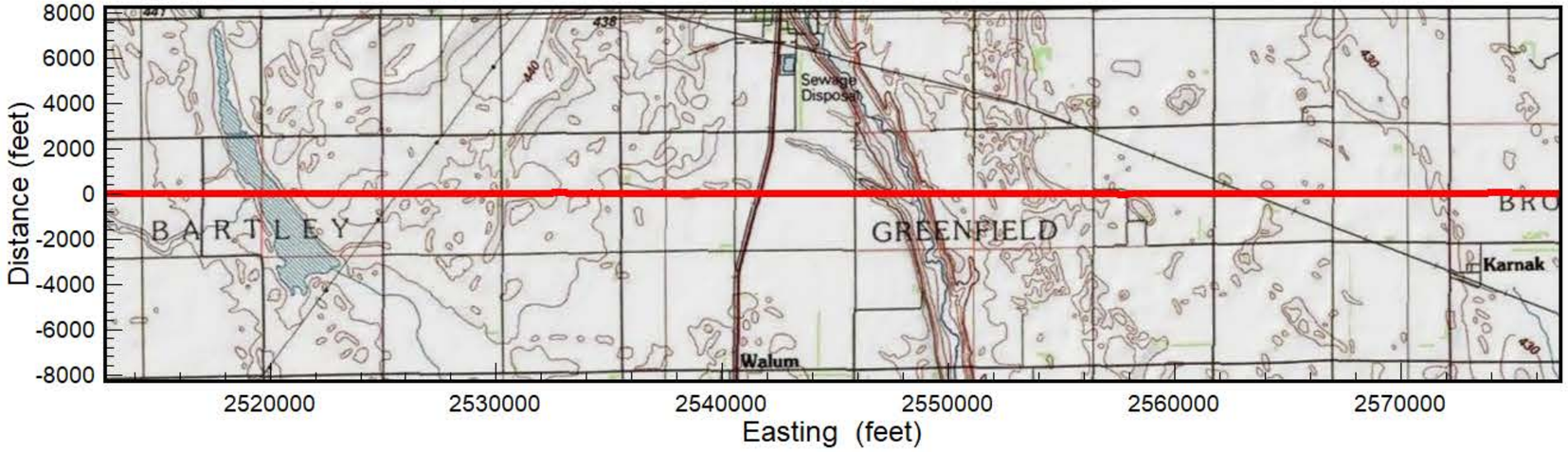


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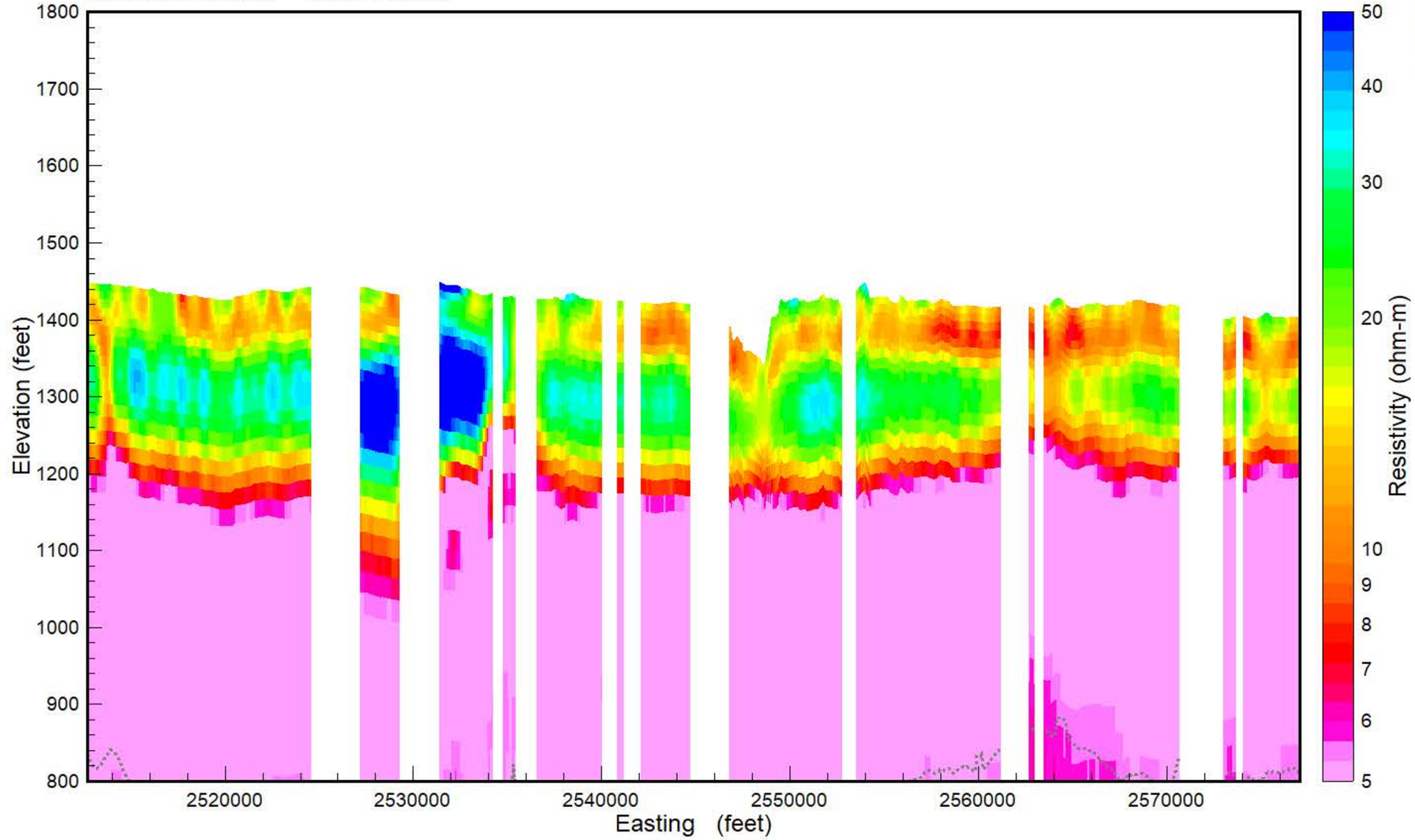
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Flight Path Line L5560

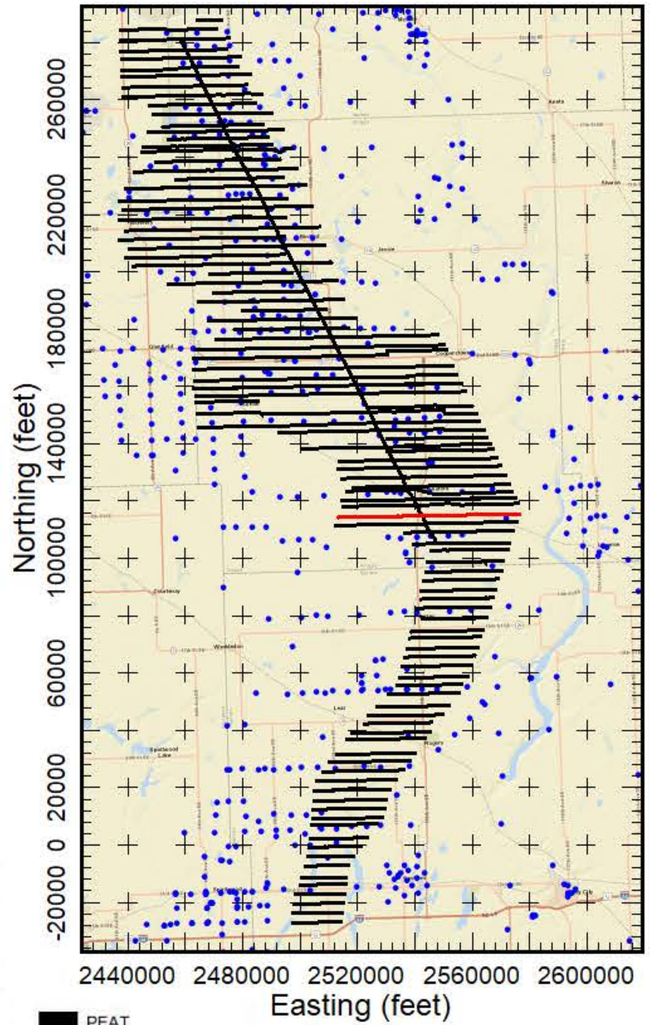


AEM Inversion Line L5560



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Flight Area Griggs

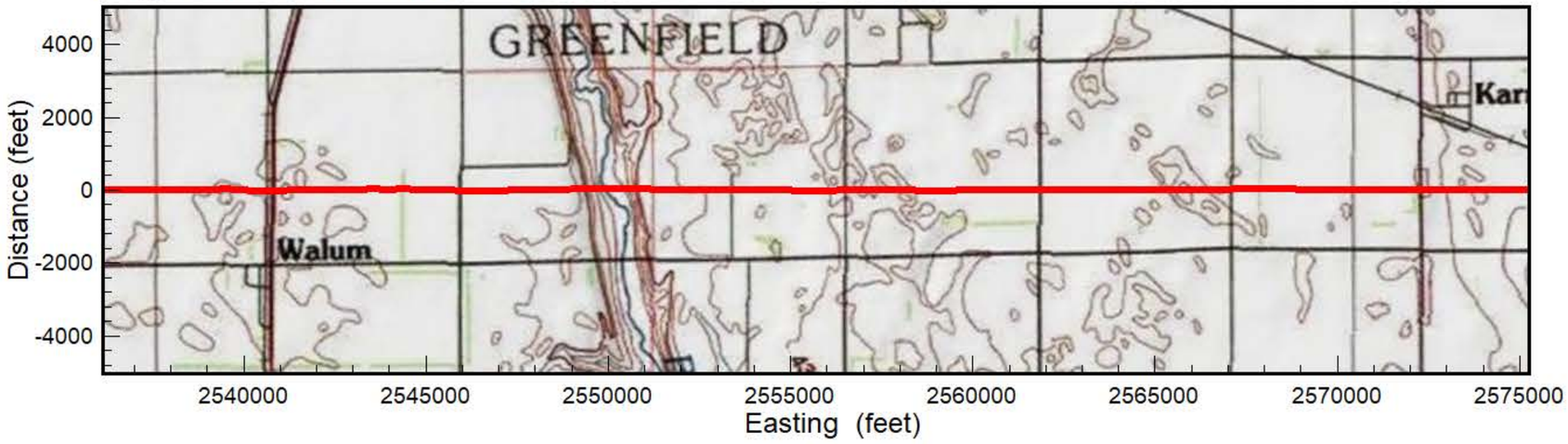




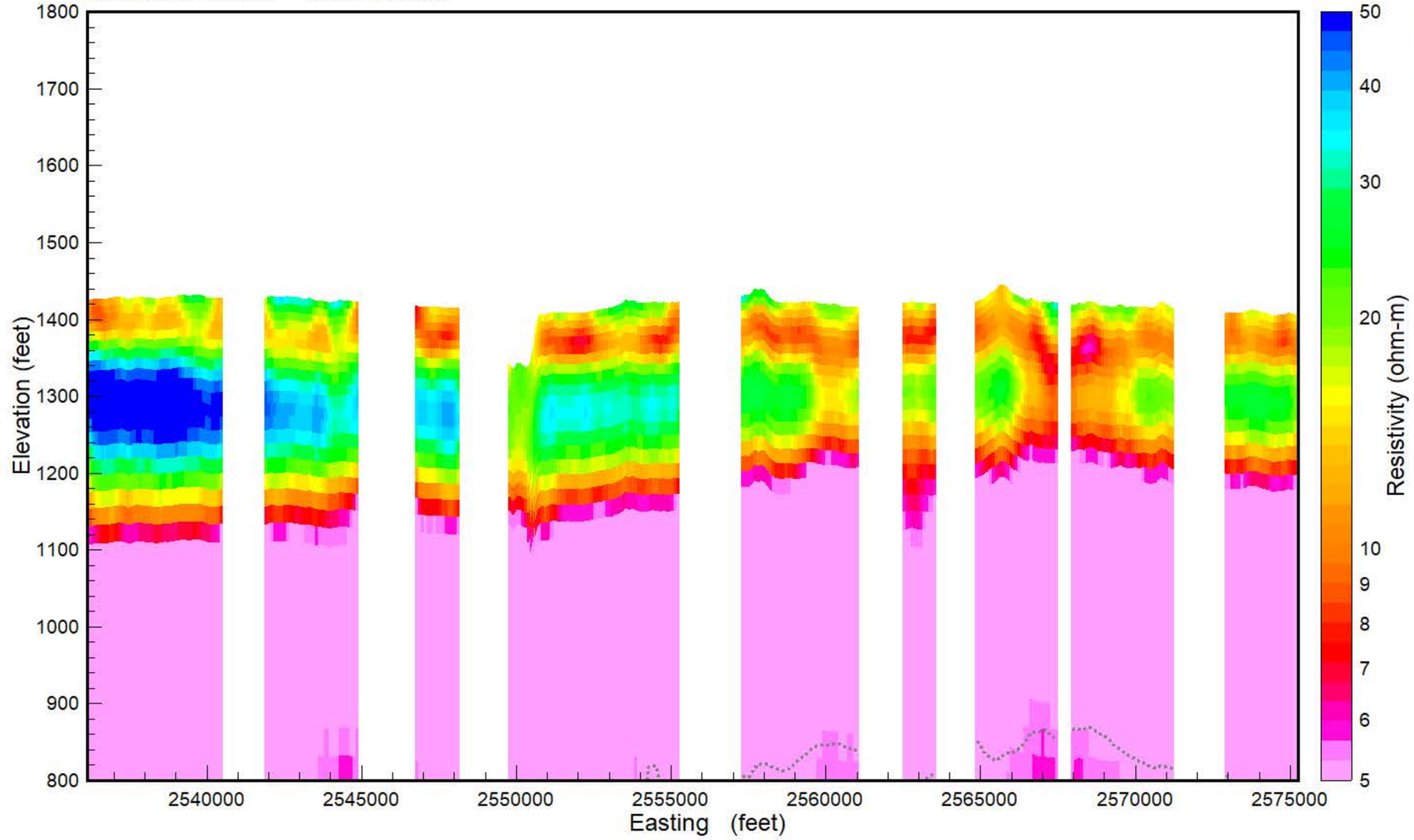
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Flight Path Line L5580

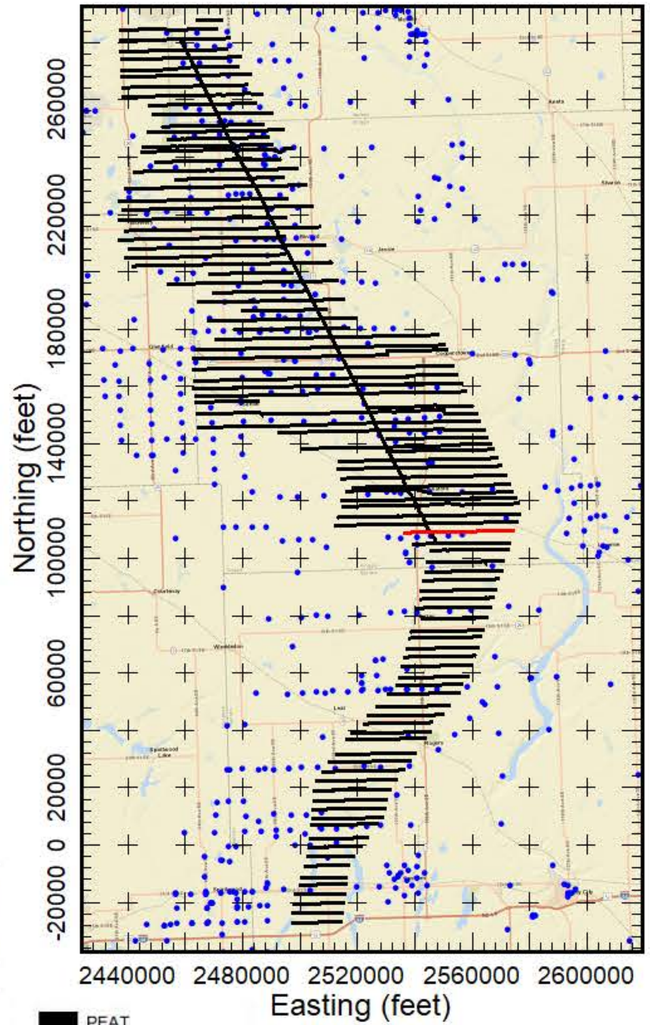


AEM Inversion Line L5580



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Be Legendary.

Flight Area Griggs

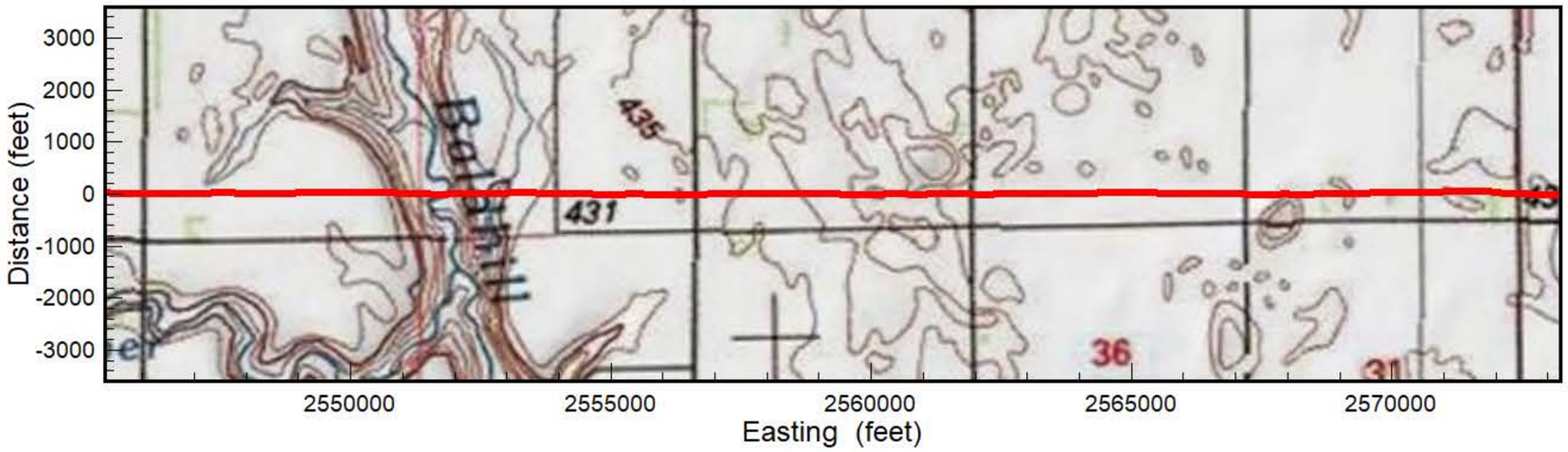


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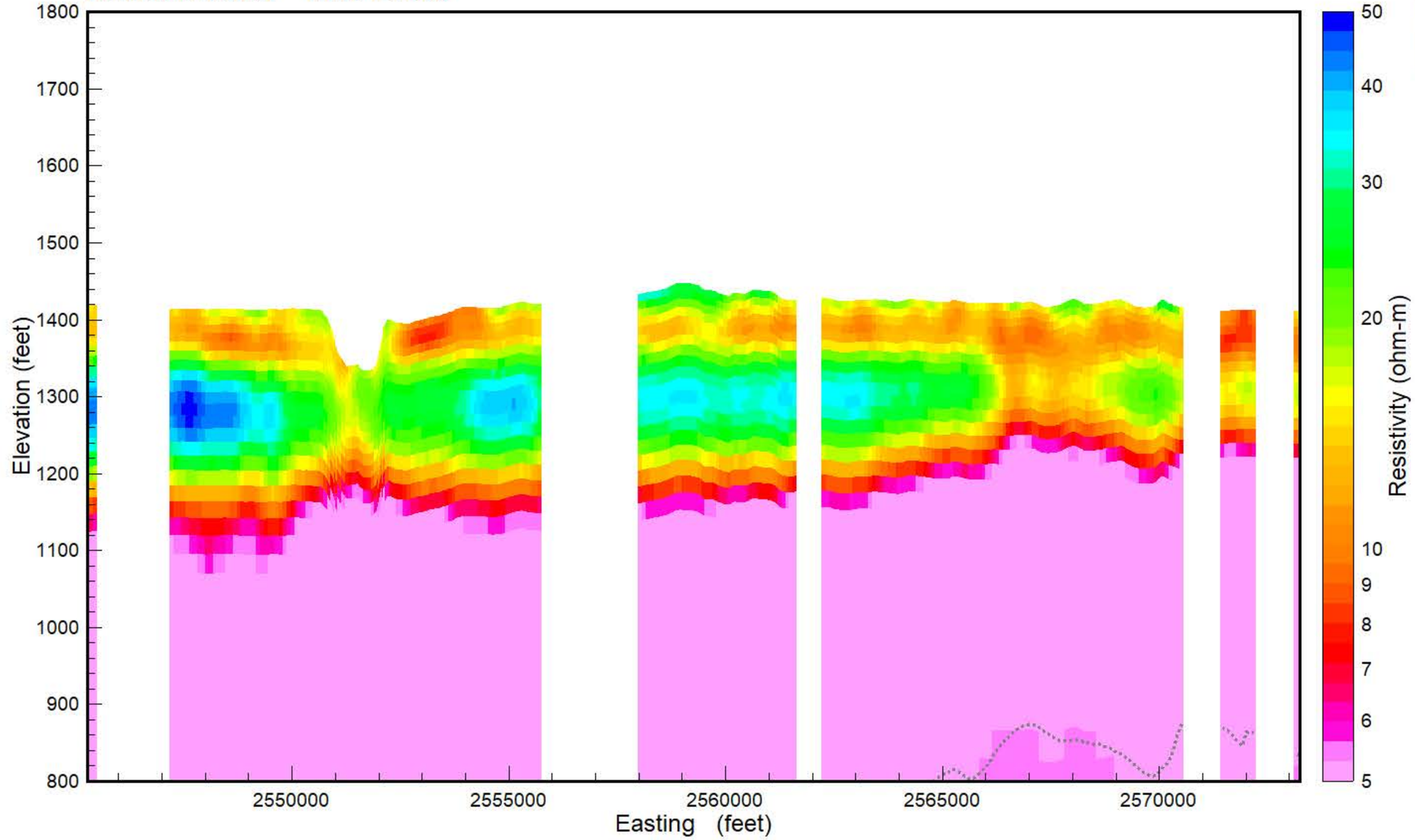
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Flight Path Line L5600

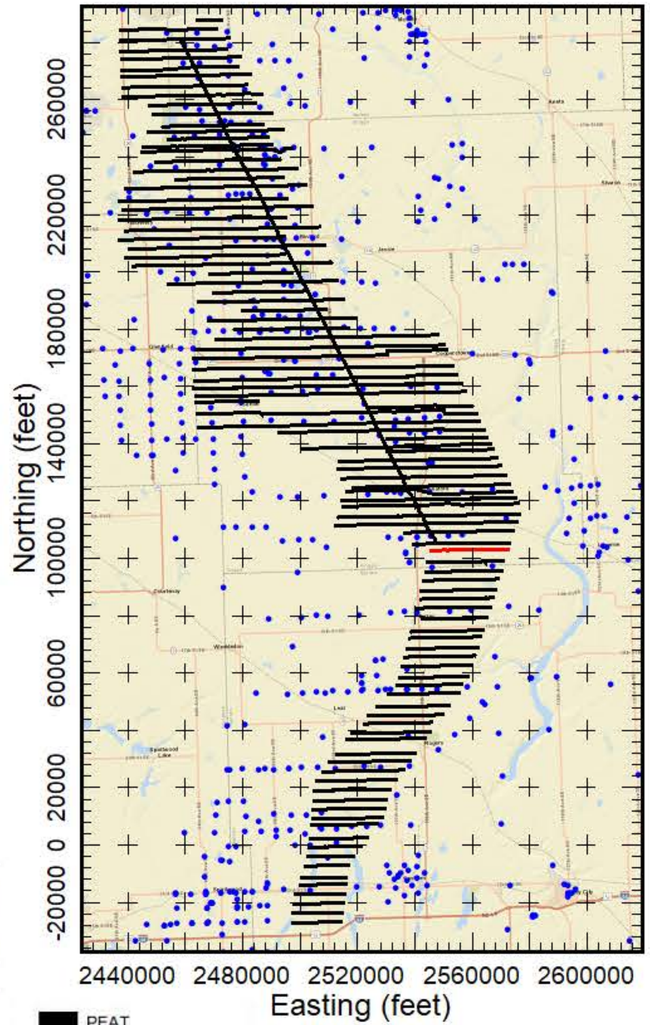


AEM Inversion Line L5600



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Flight Area Griggs

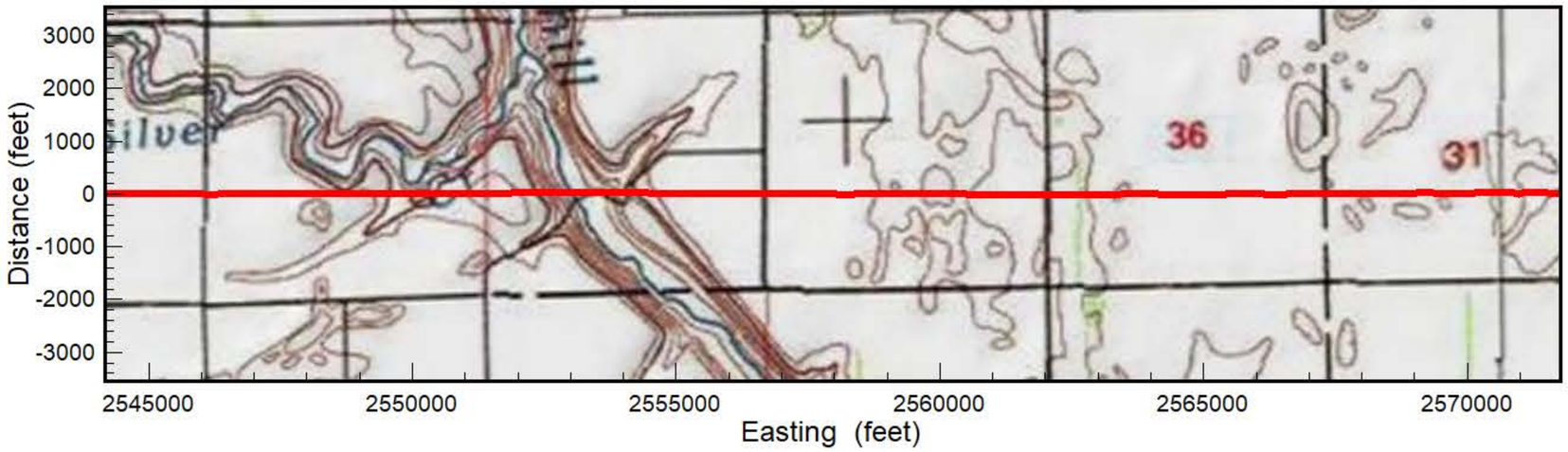


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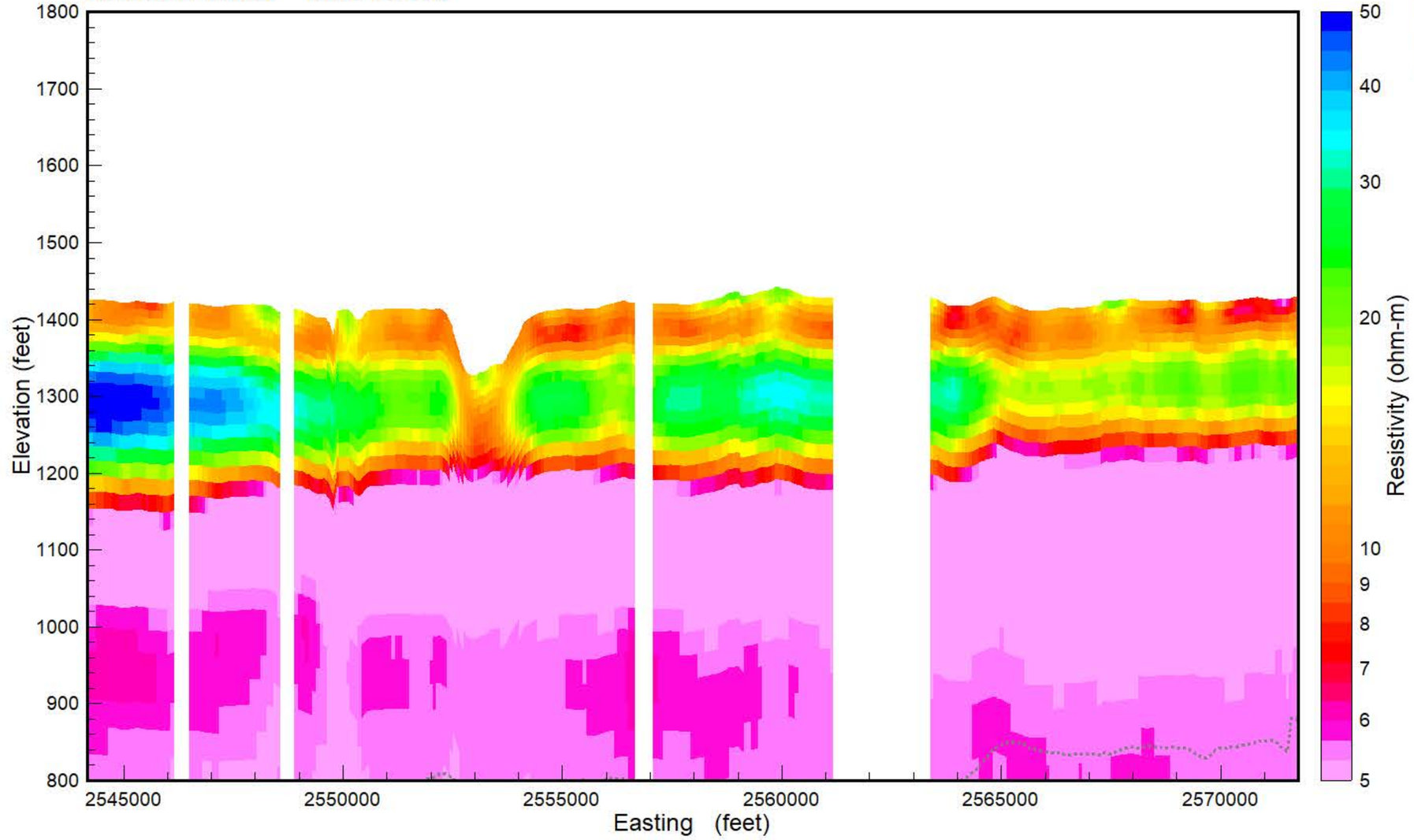
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Flight Path Line L5610

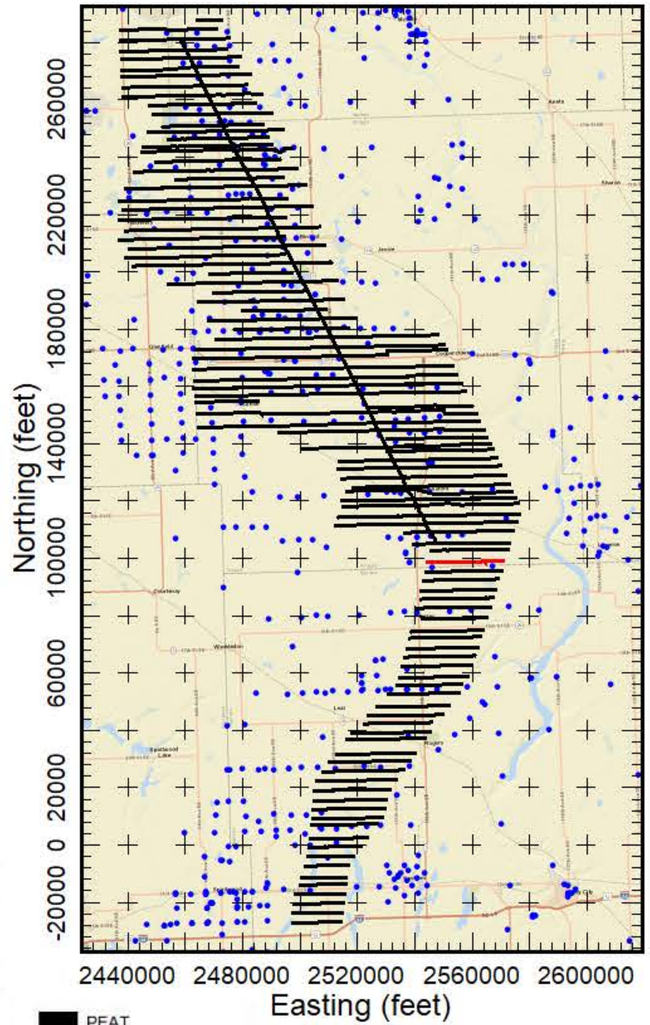


AEM Inversion Line L5610



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Flight Area Griggs

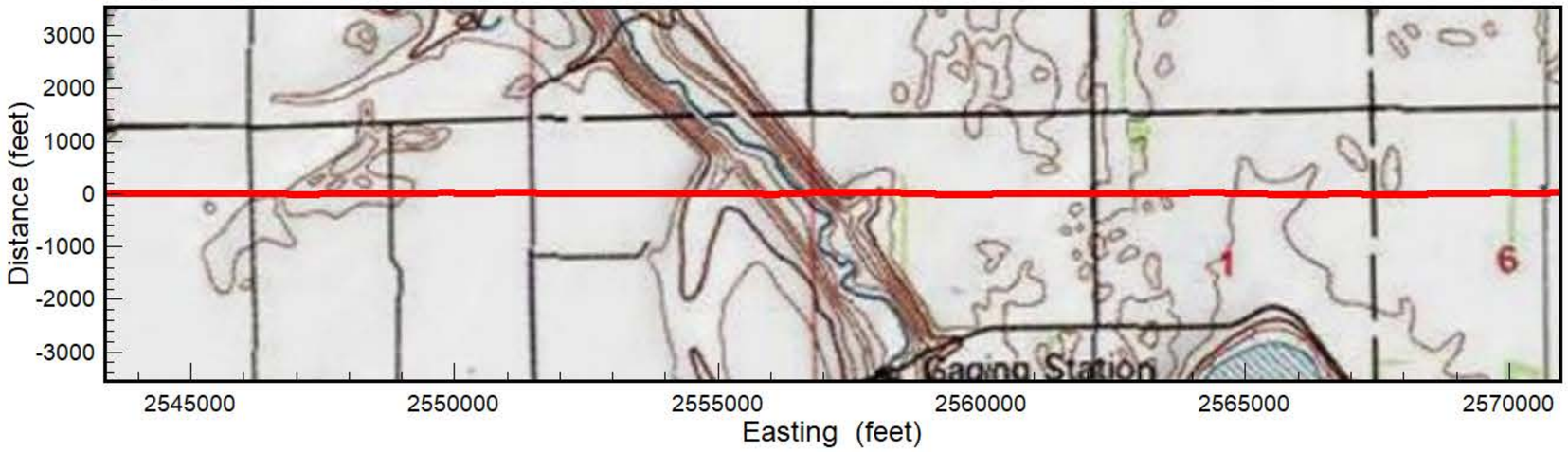


PEAT
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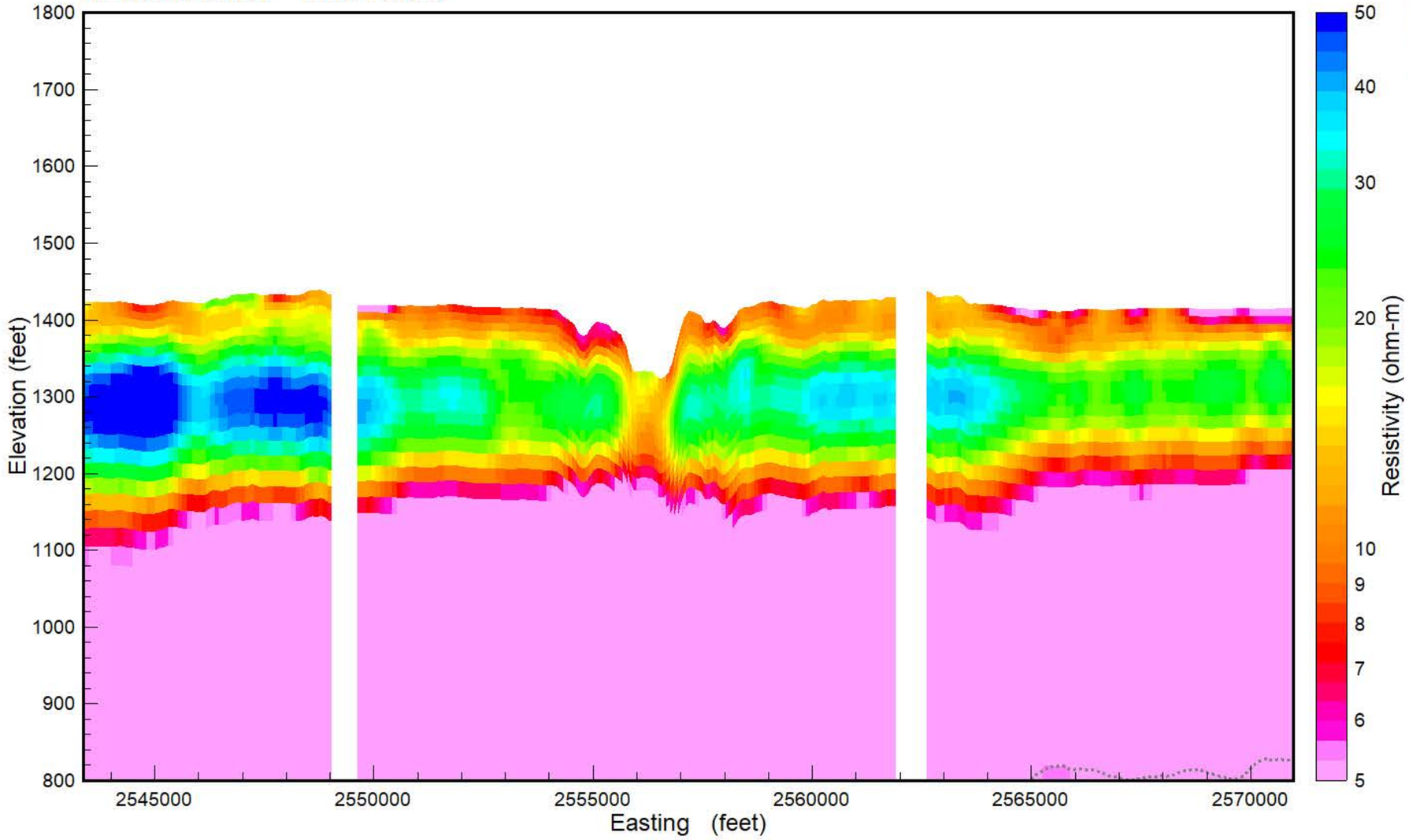
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5620

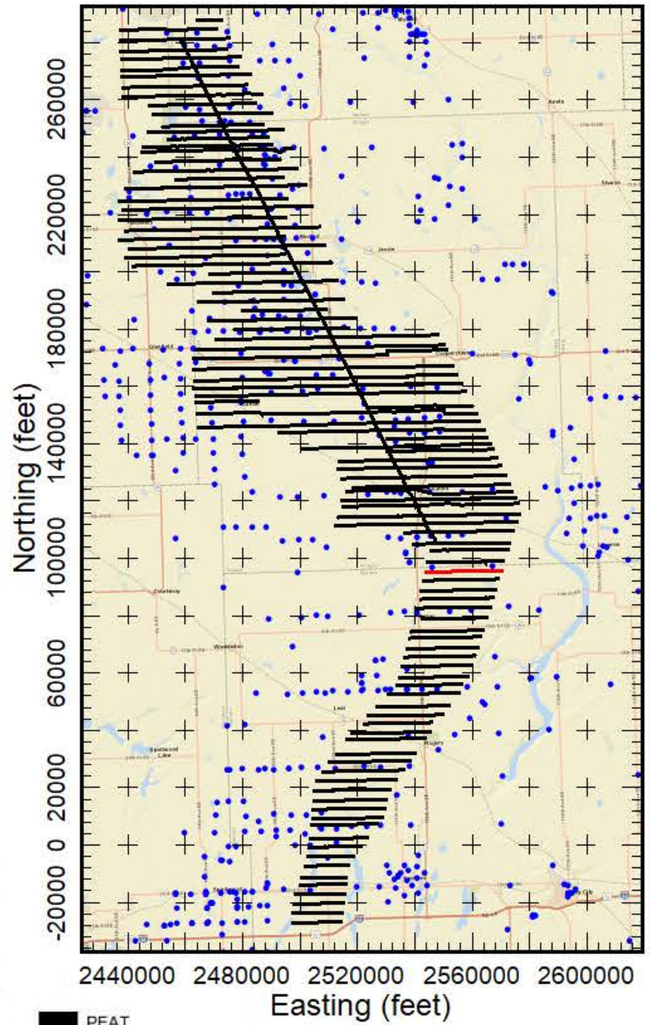


AEM Inversion Line L5620



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Flight Area Griggs

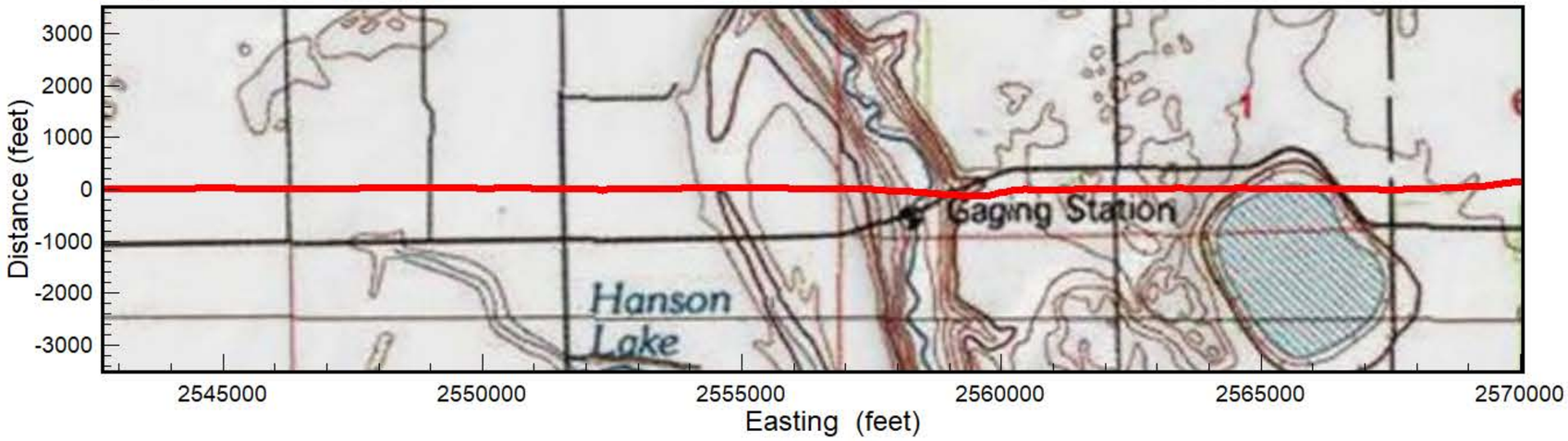


- PEAT
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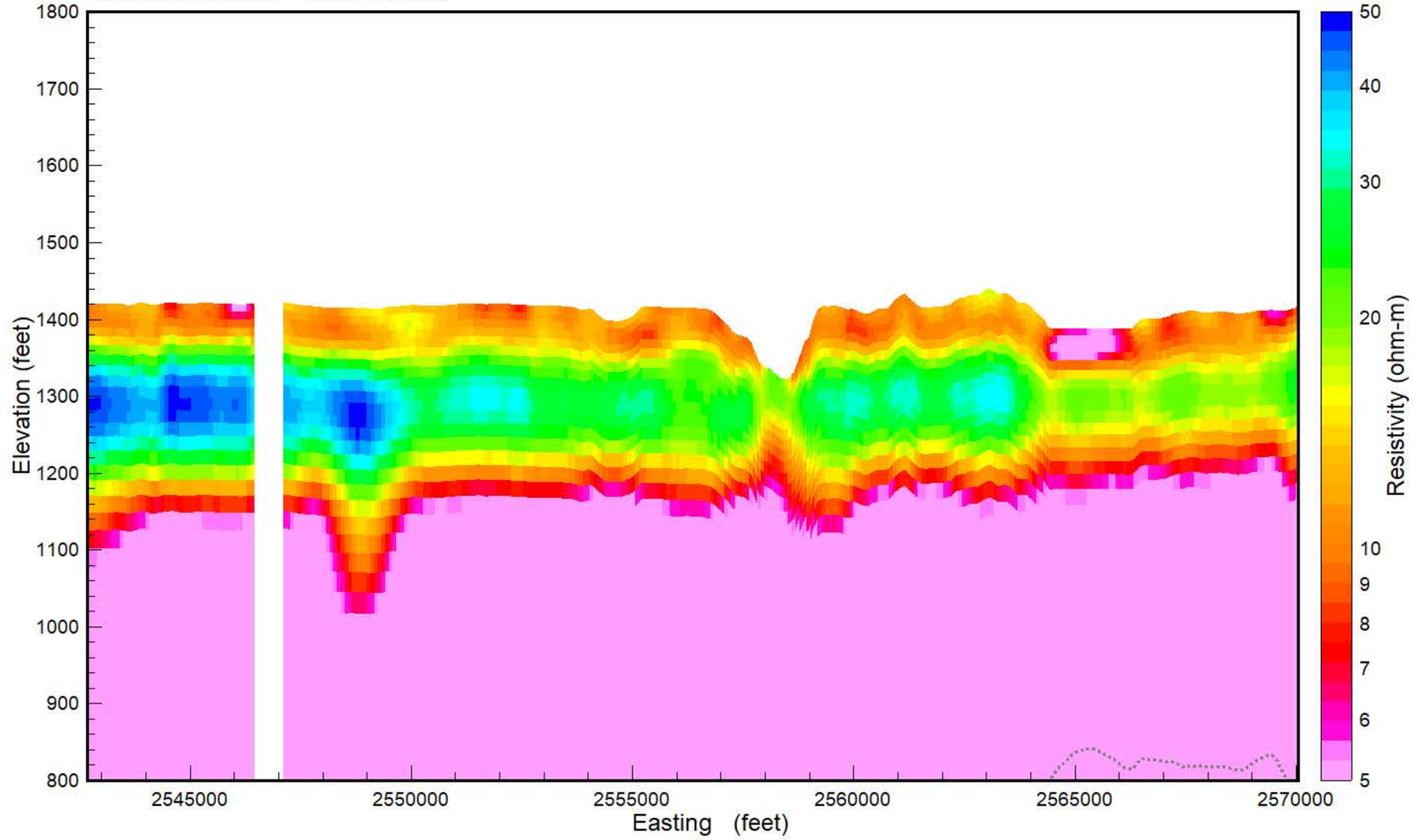
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5630

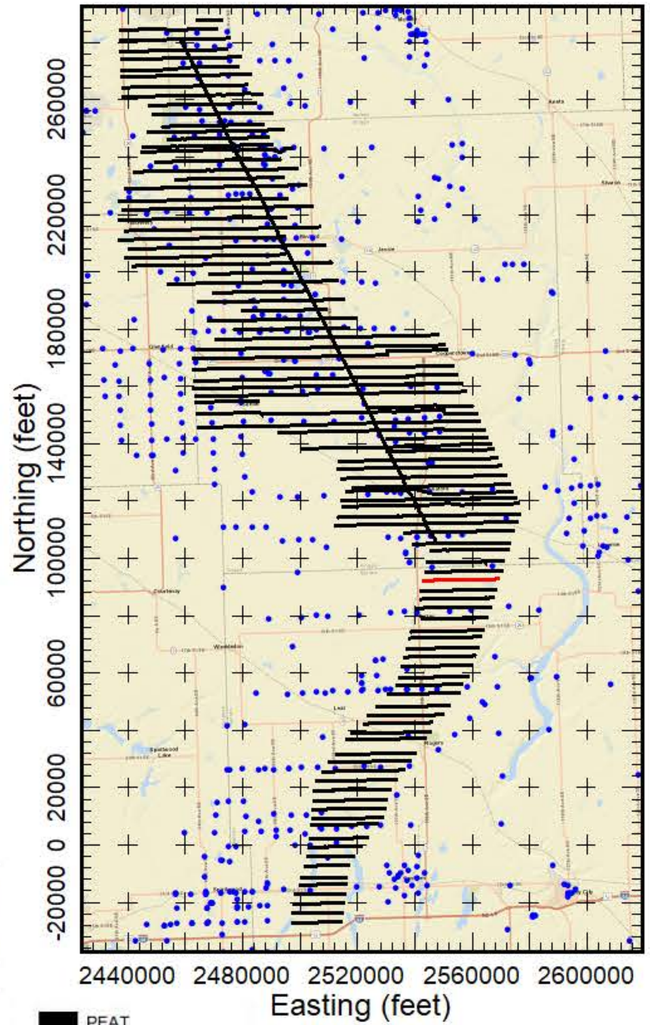


AEM Inversion Line L5630



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Be Legendary.

Flight Area Griggs

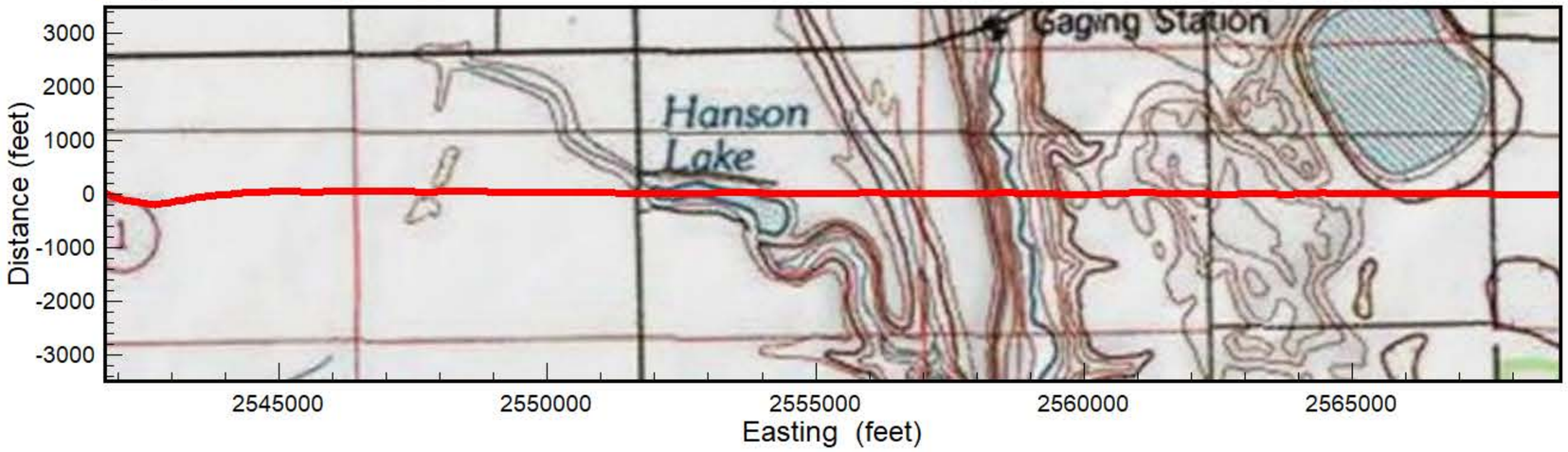


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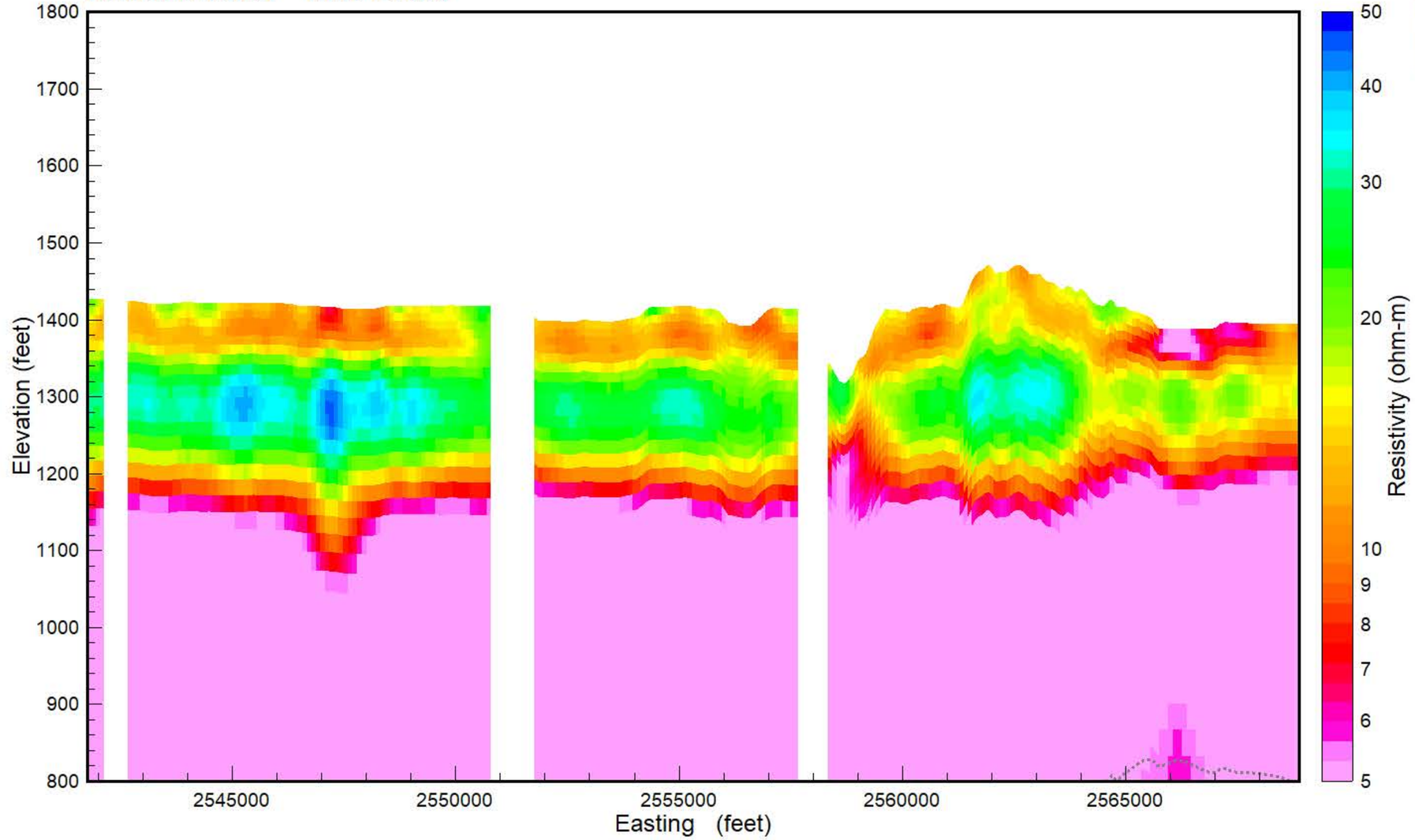
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Flight Path Line L5640

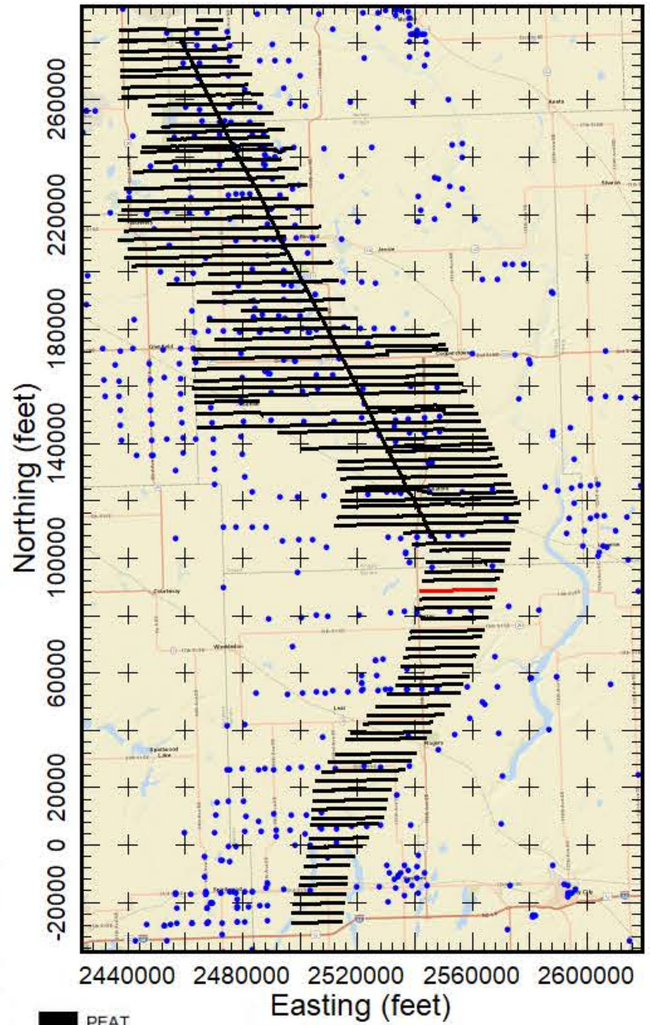


AEM Inversion Line L5640



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Flight Area Griggs

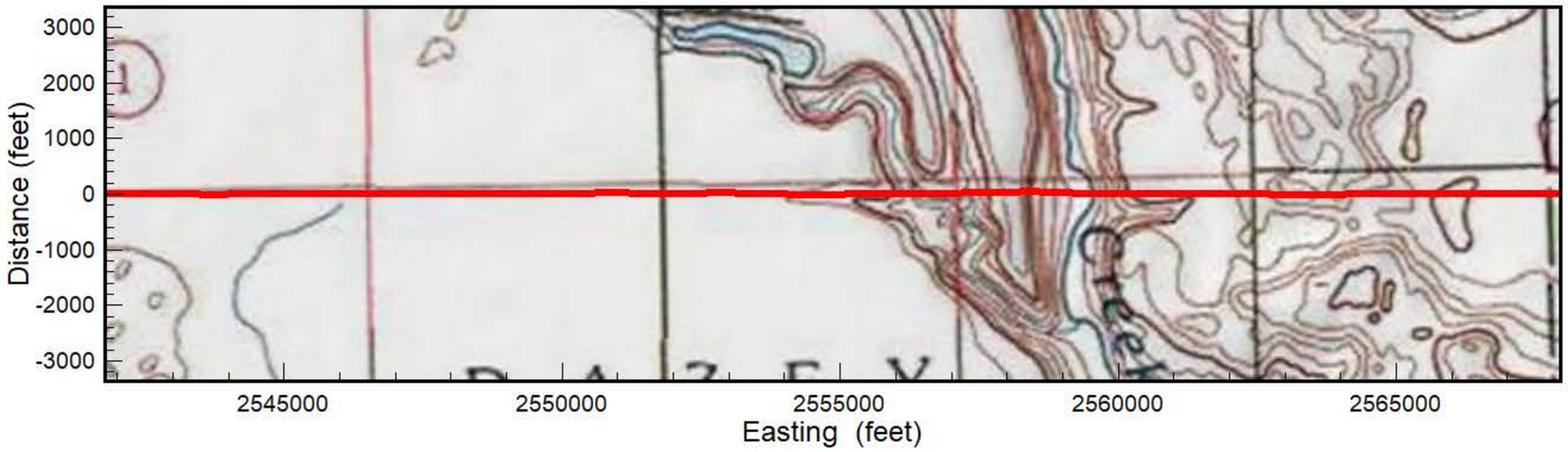




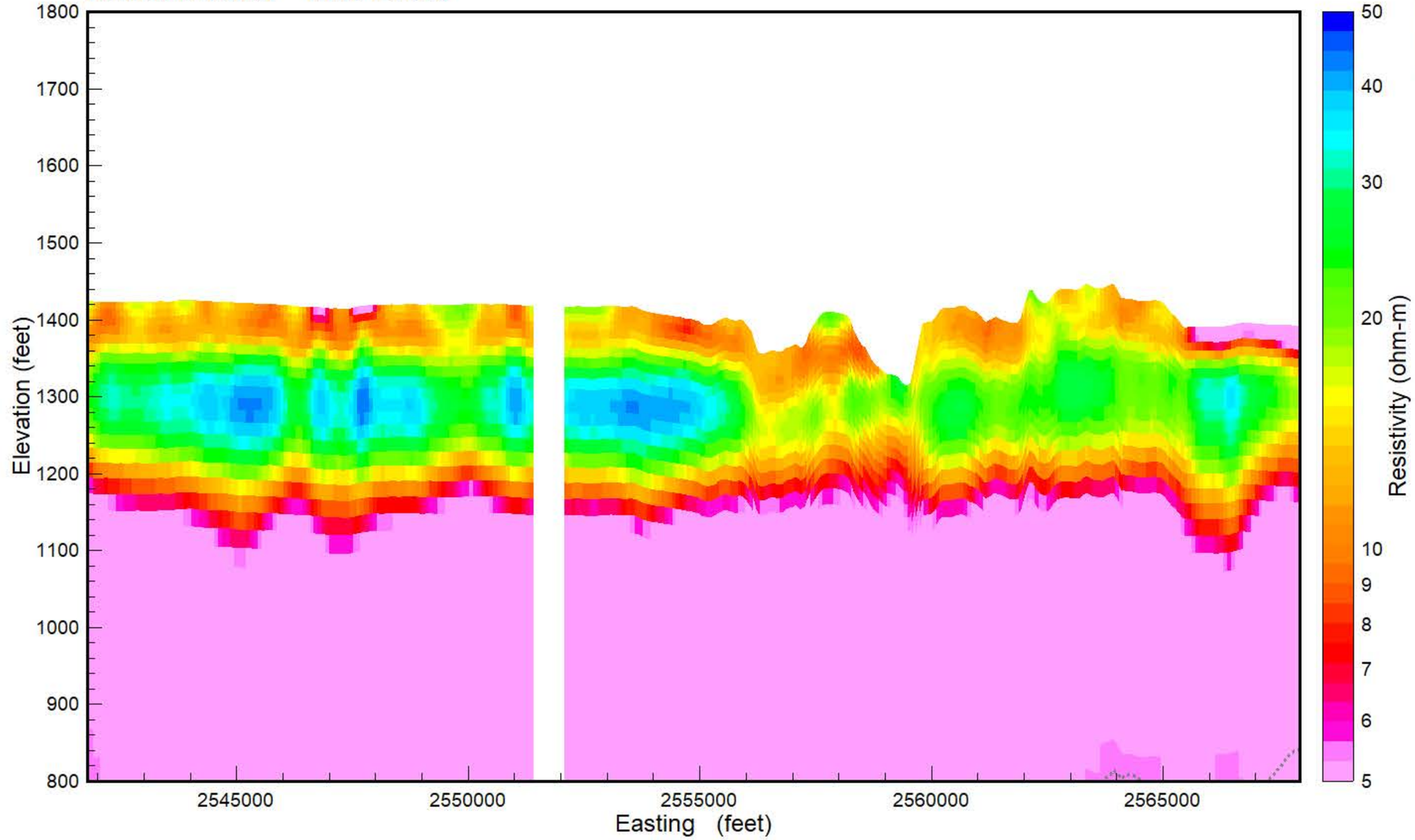
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Flight Path Line L5650

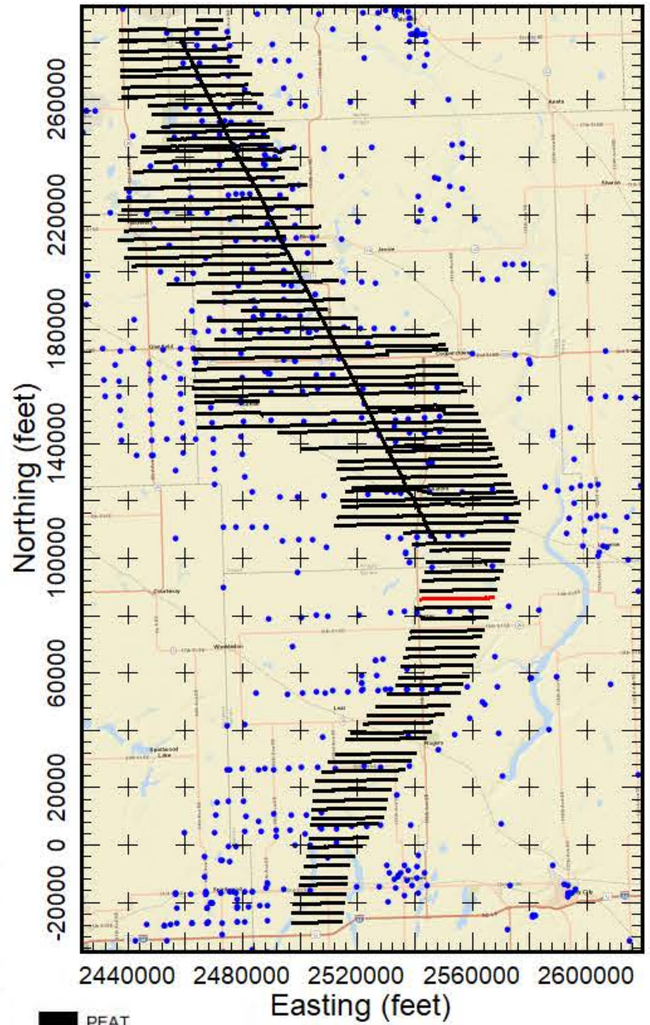


AEM Inversion Line L5650



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Flight Area Griggs

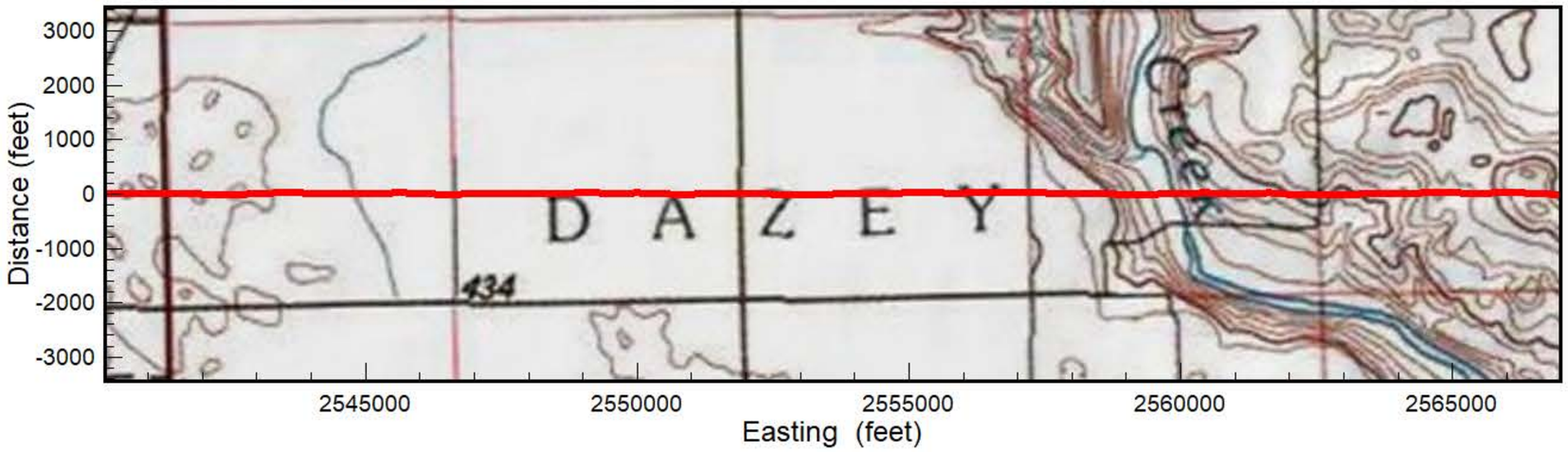


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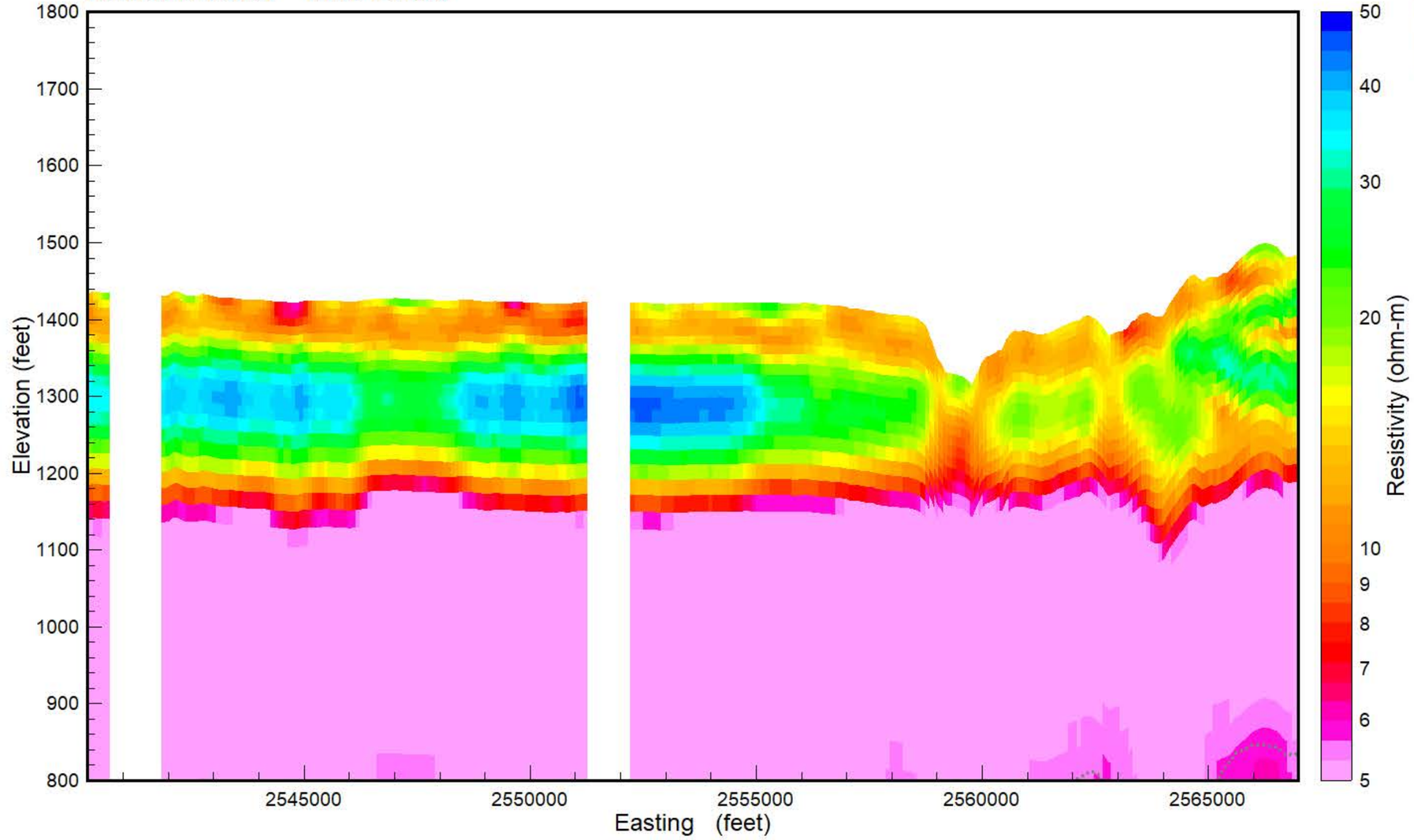
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Flight Path Line L5660

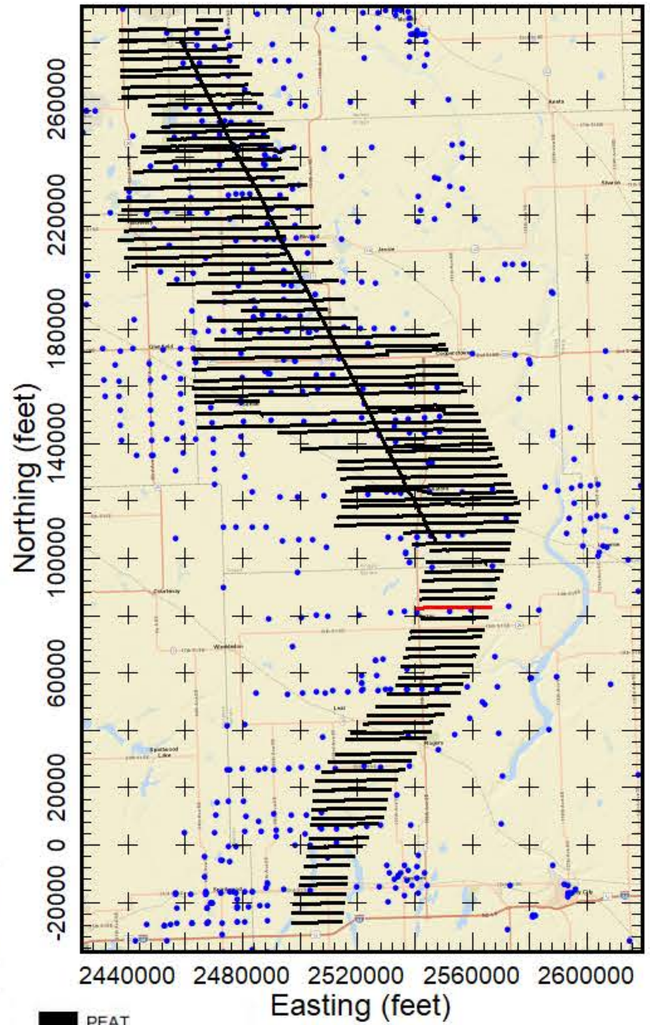


AEM Inversion Line L5660



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Flight Area Griggs

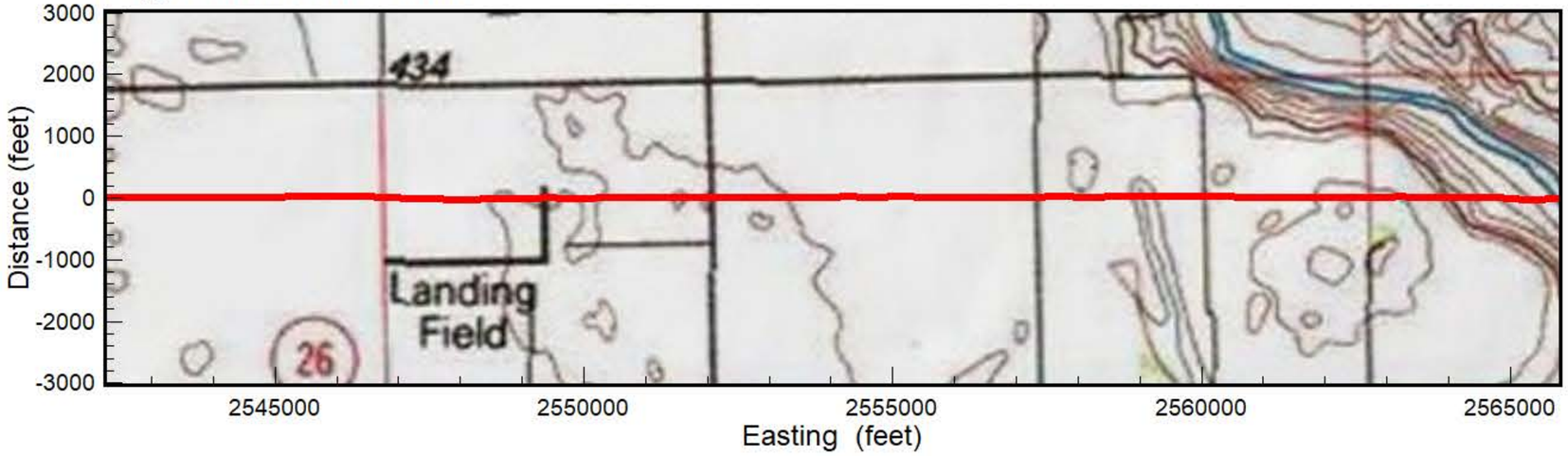




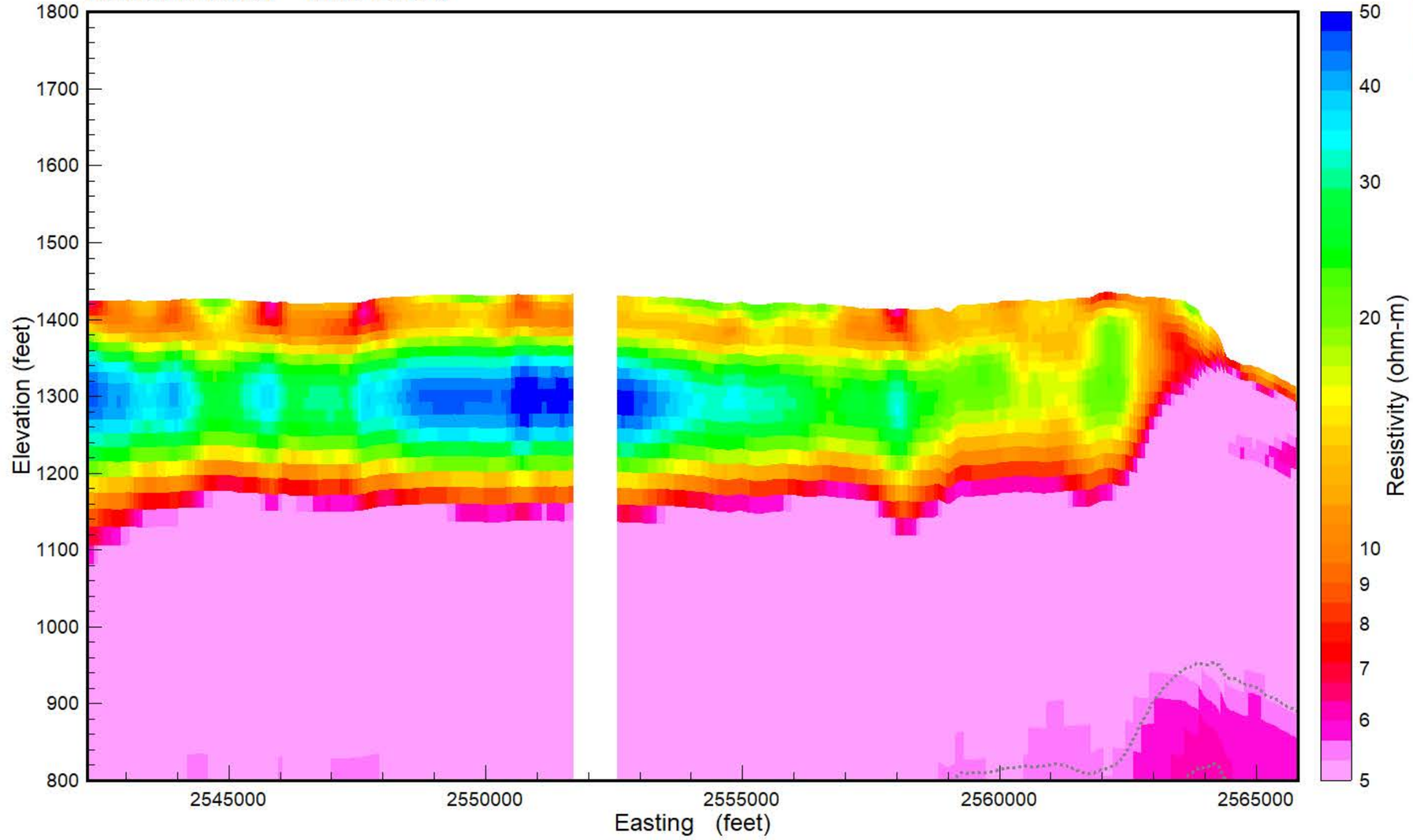
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Flight Path Line L5670

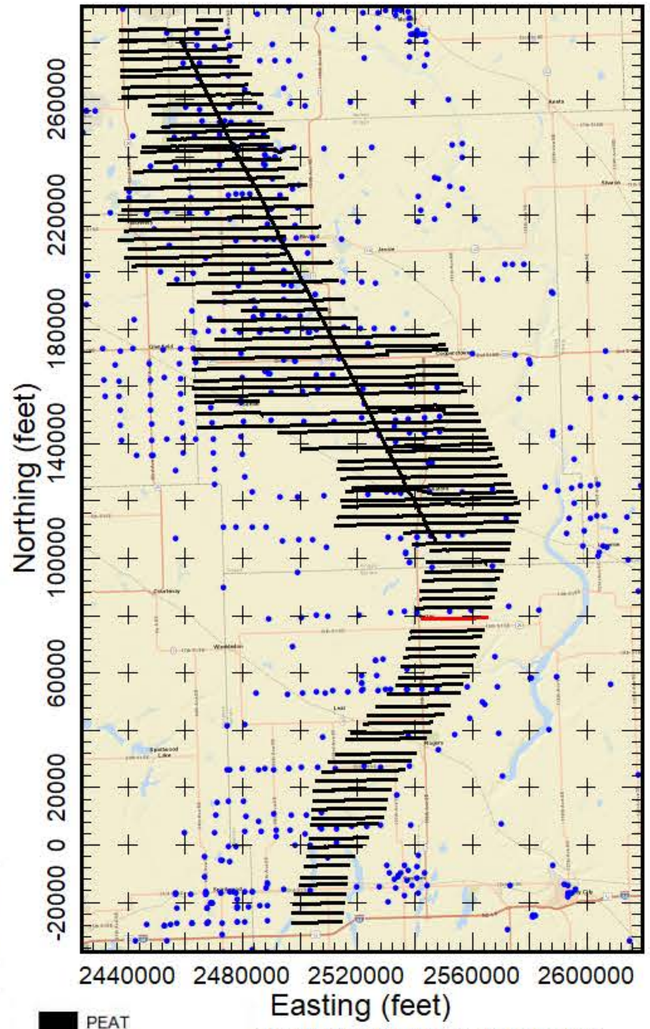


AEM Inversion Line L5670



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Flight Area Griggs

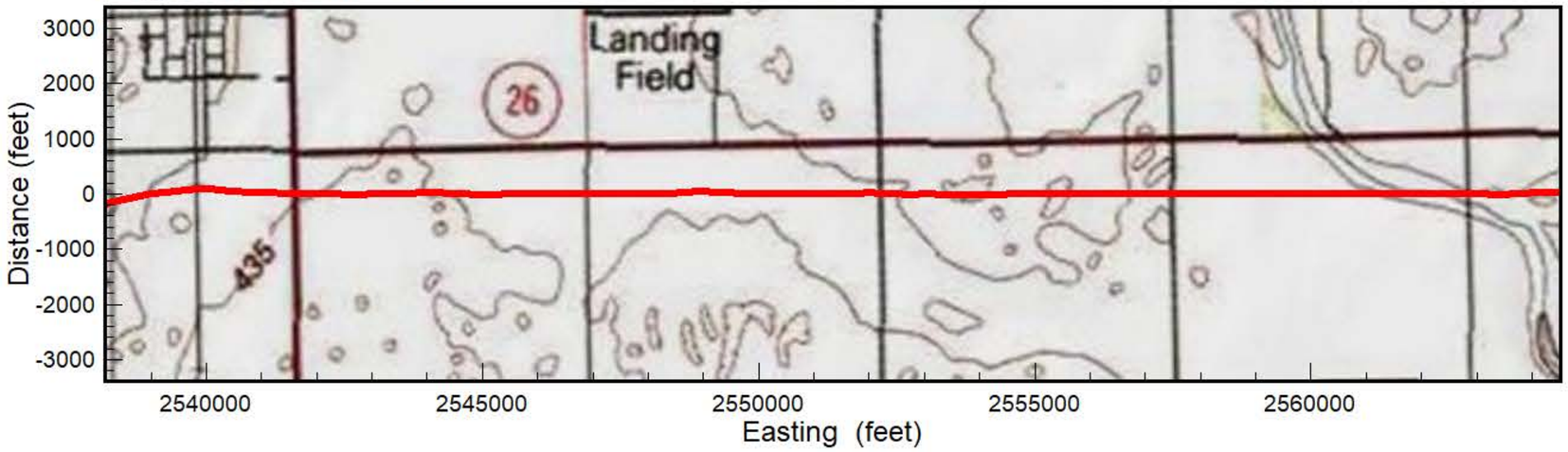


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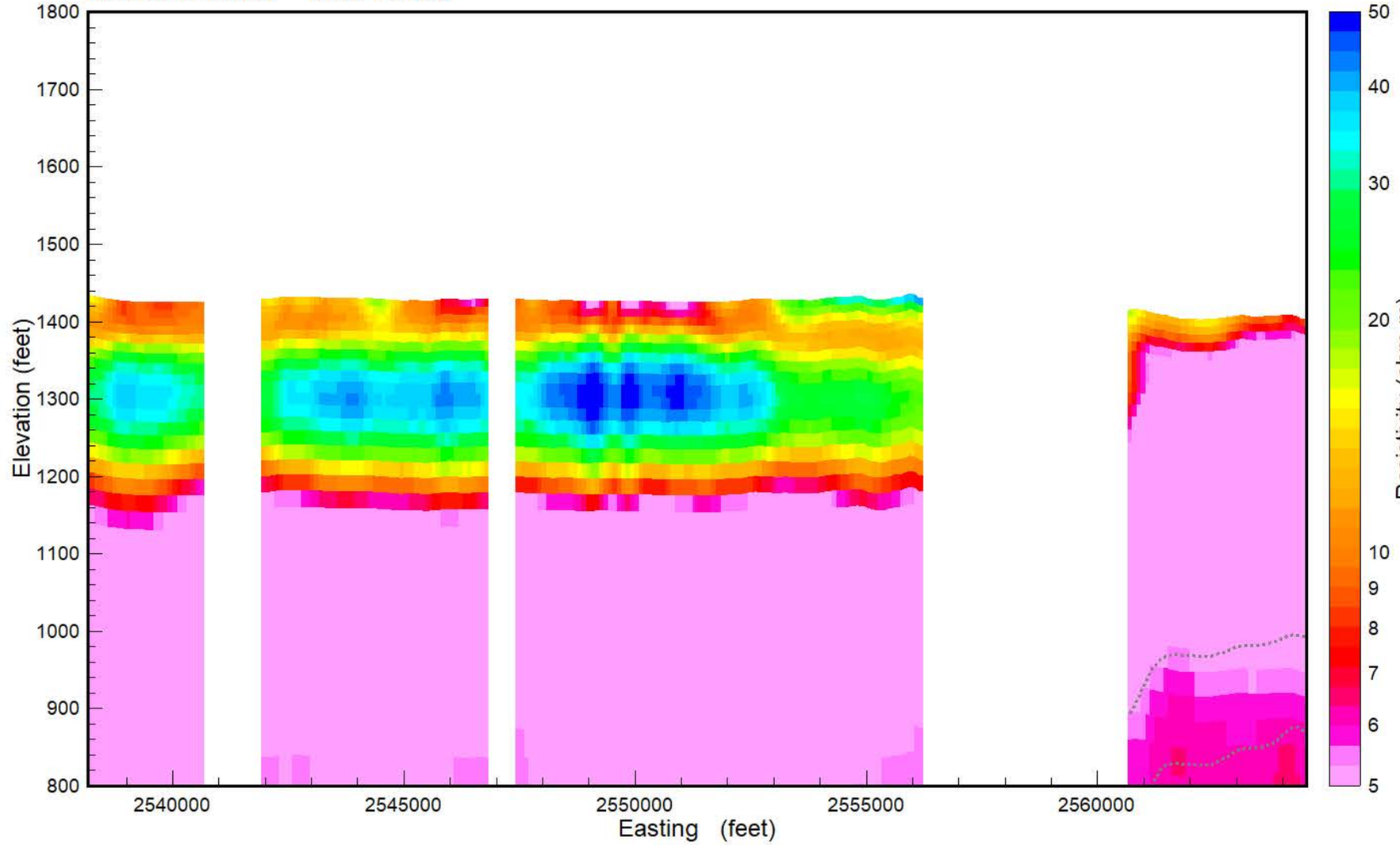
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Flight Path Line L5680

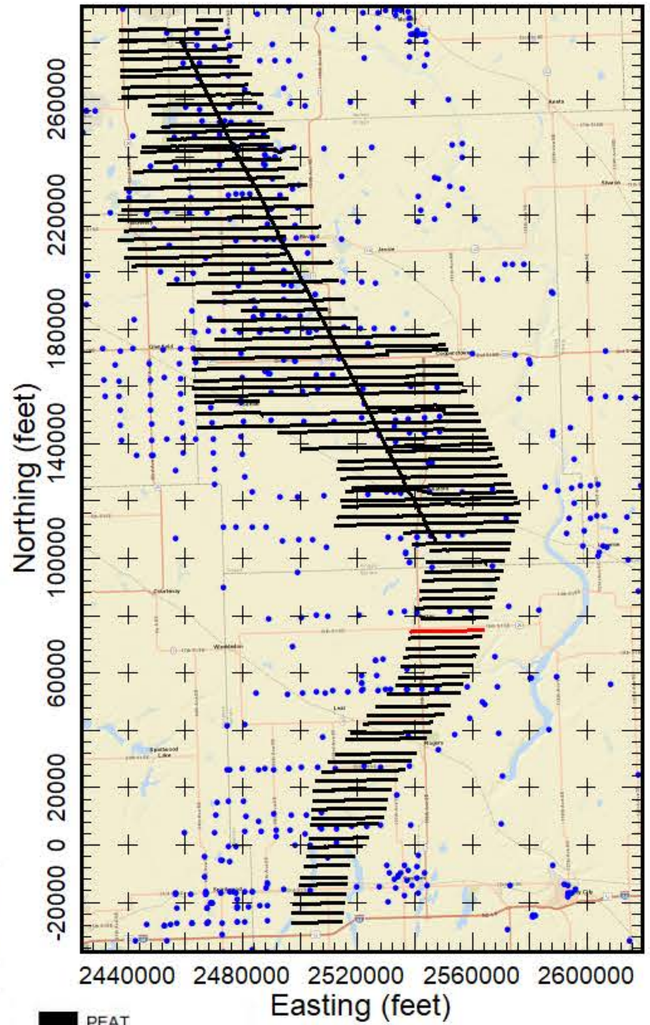


AEM Inversion Line L5680



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Be Legendary.

Flight Area Griggs

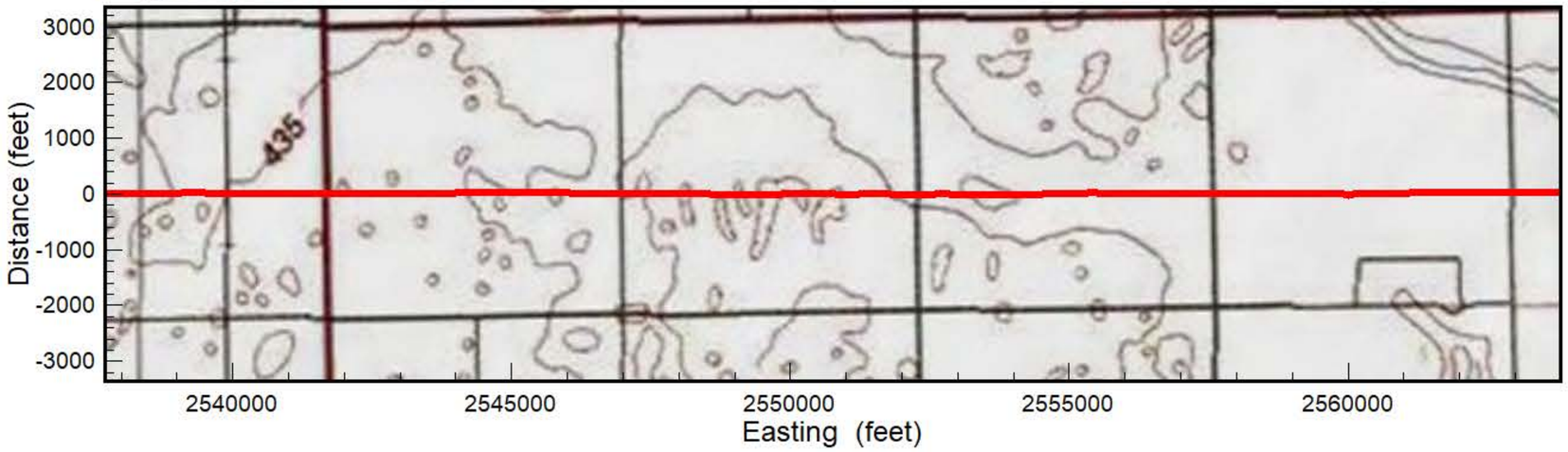


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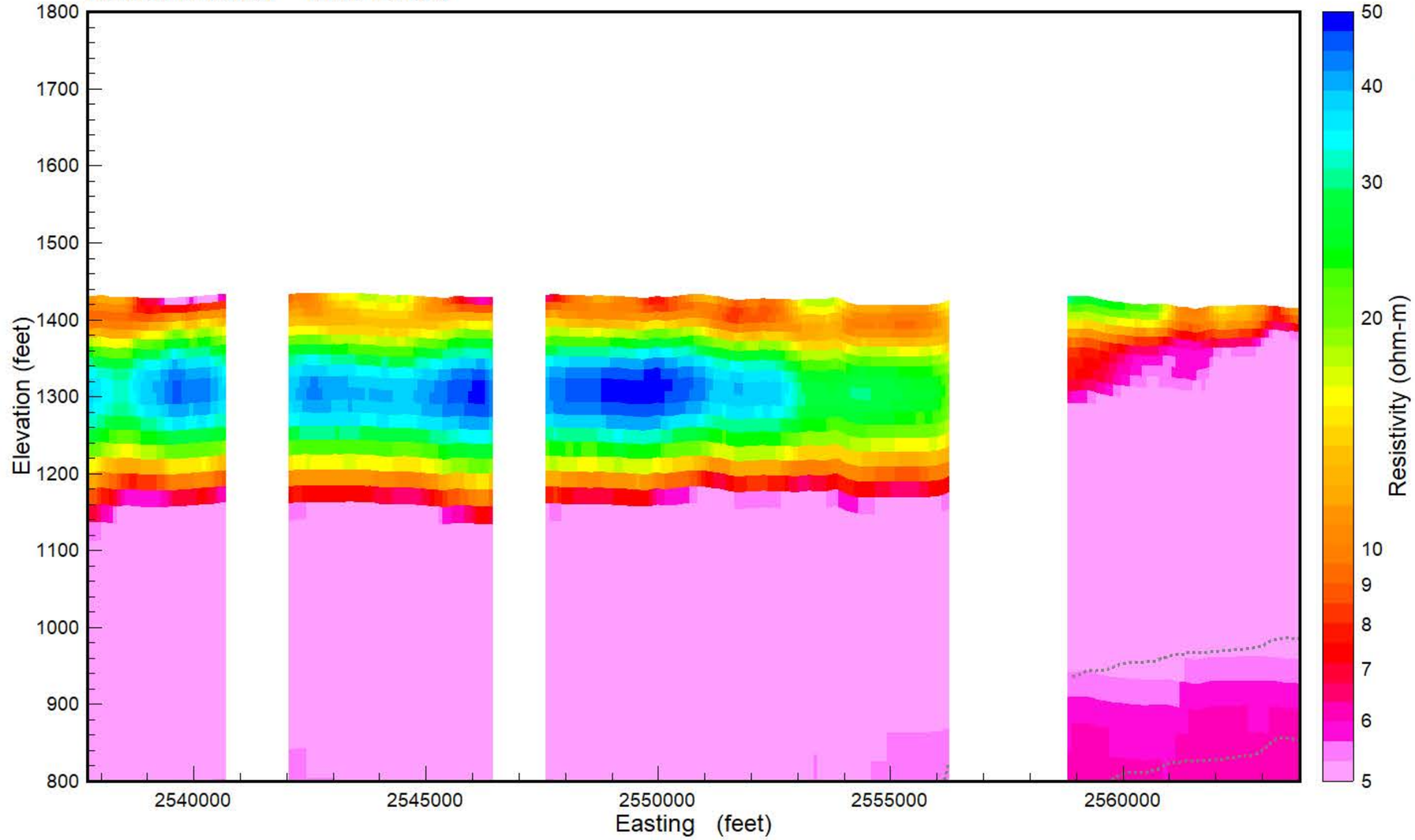
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5690

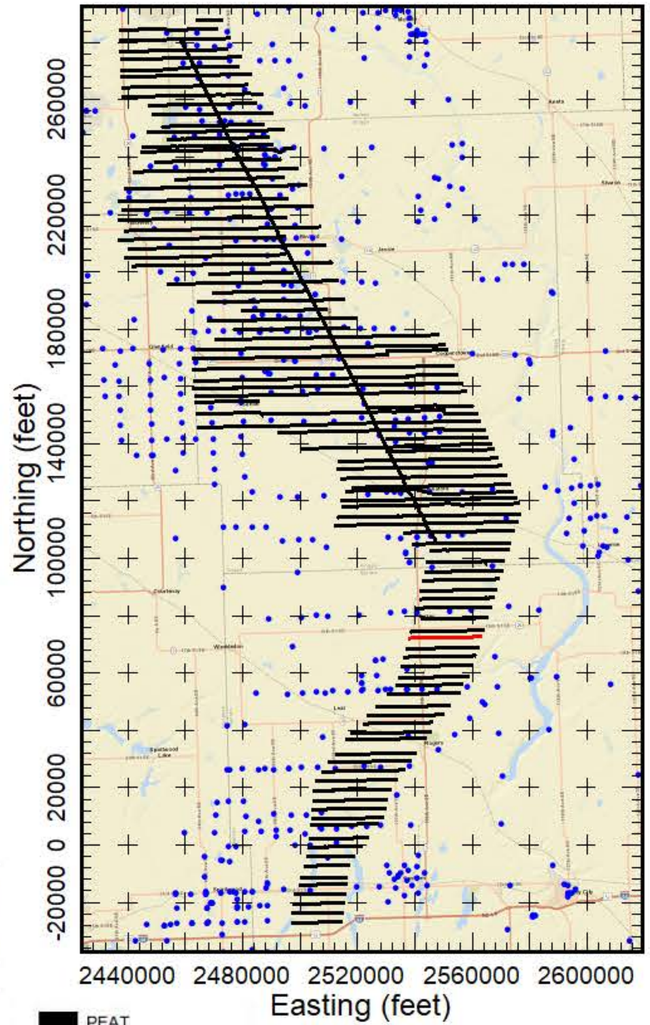


AEM Inversion Line L5690



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Be Legendary.

Flight Area Griggs

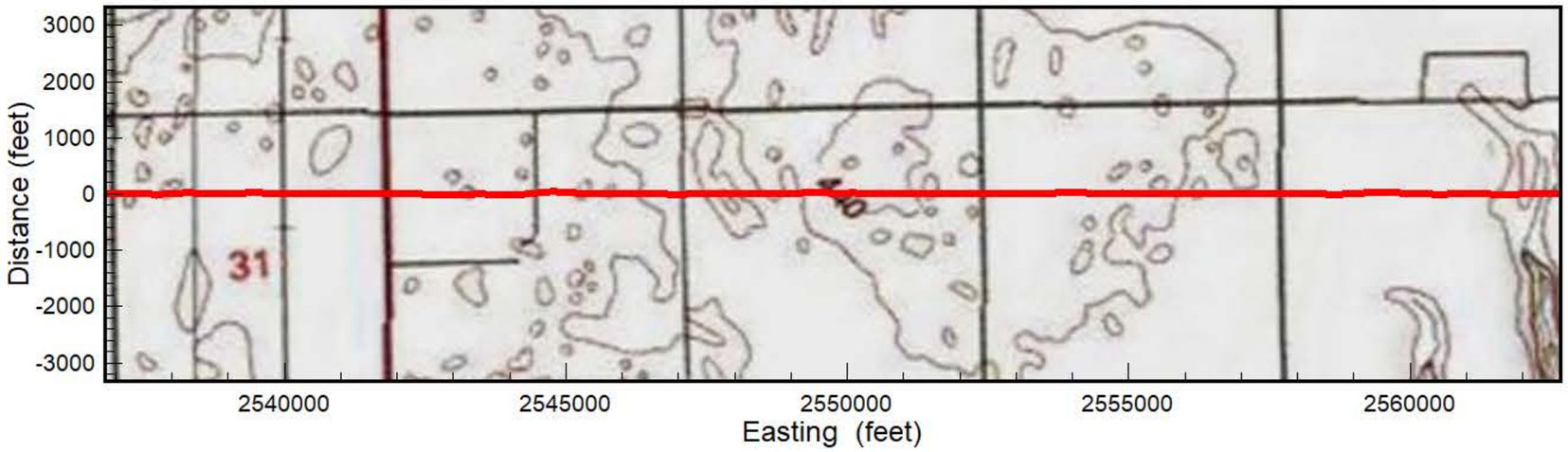


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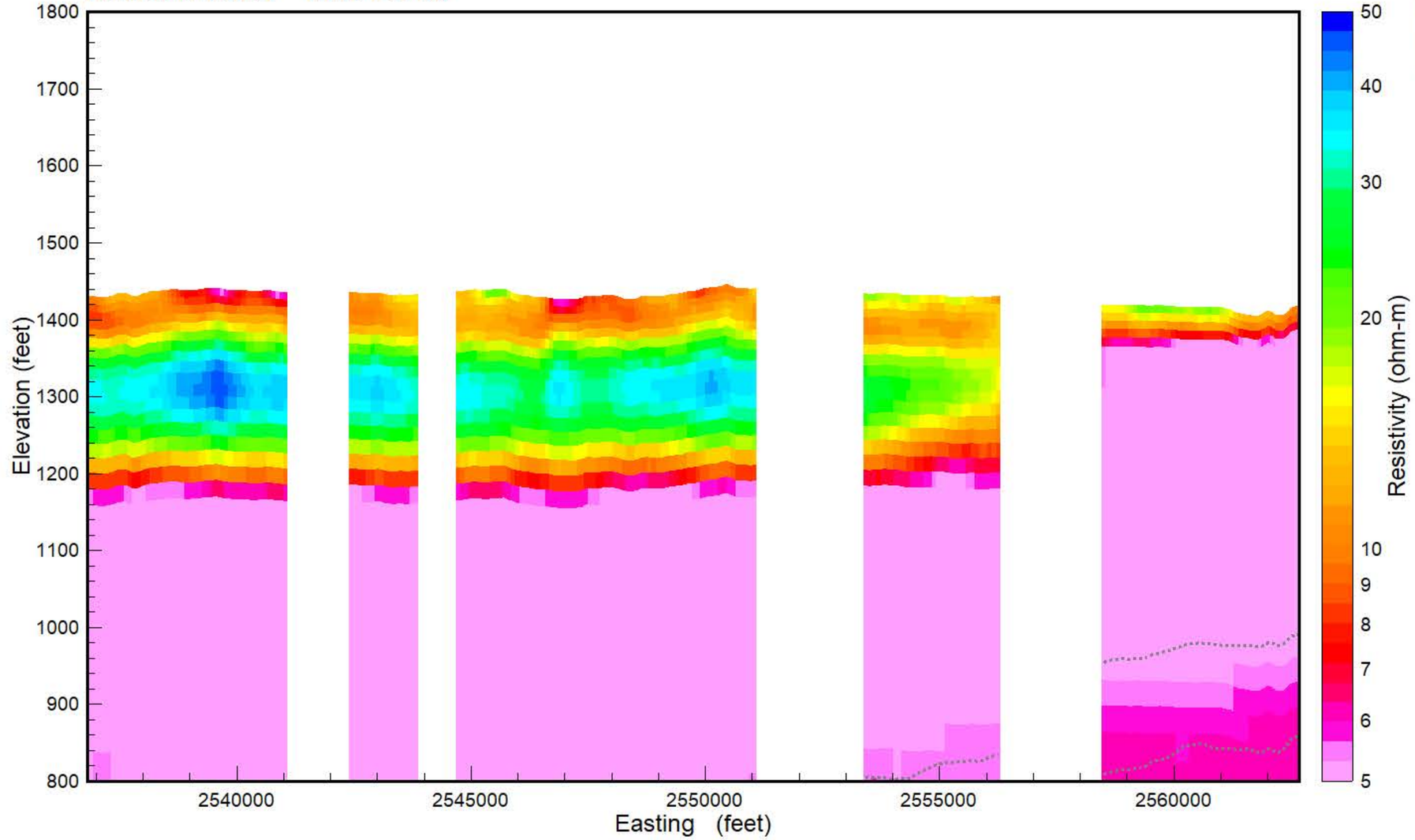
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5700

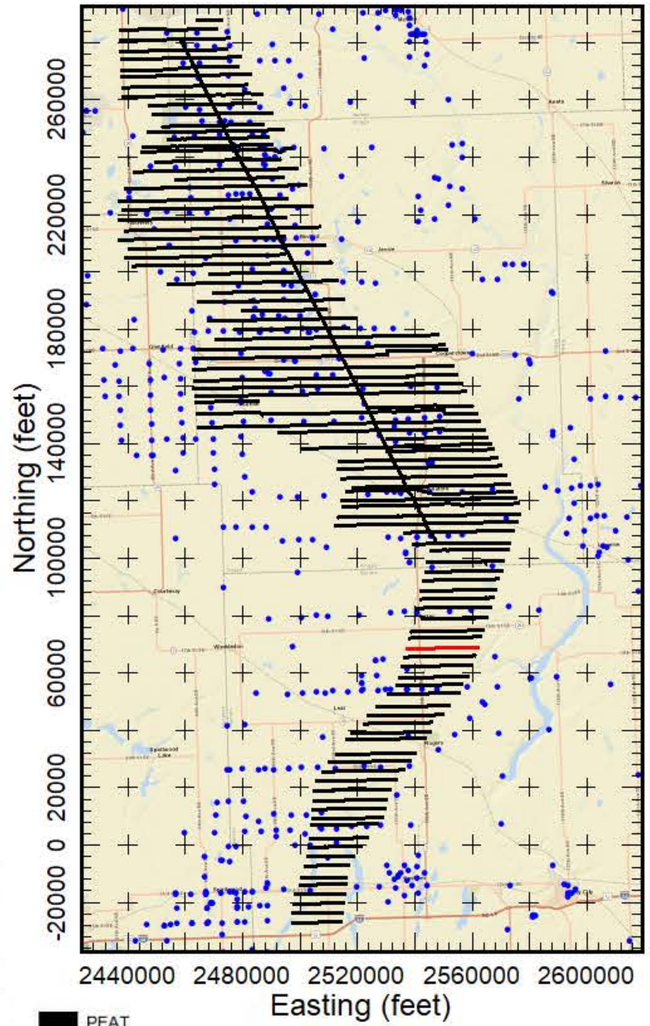


AEM Inversion Line L5700



NORTH Dakota | Water Commission & State Engineer

Flight Area Griggs

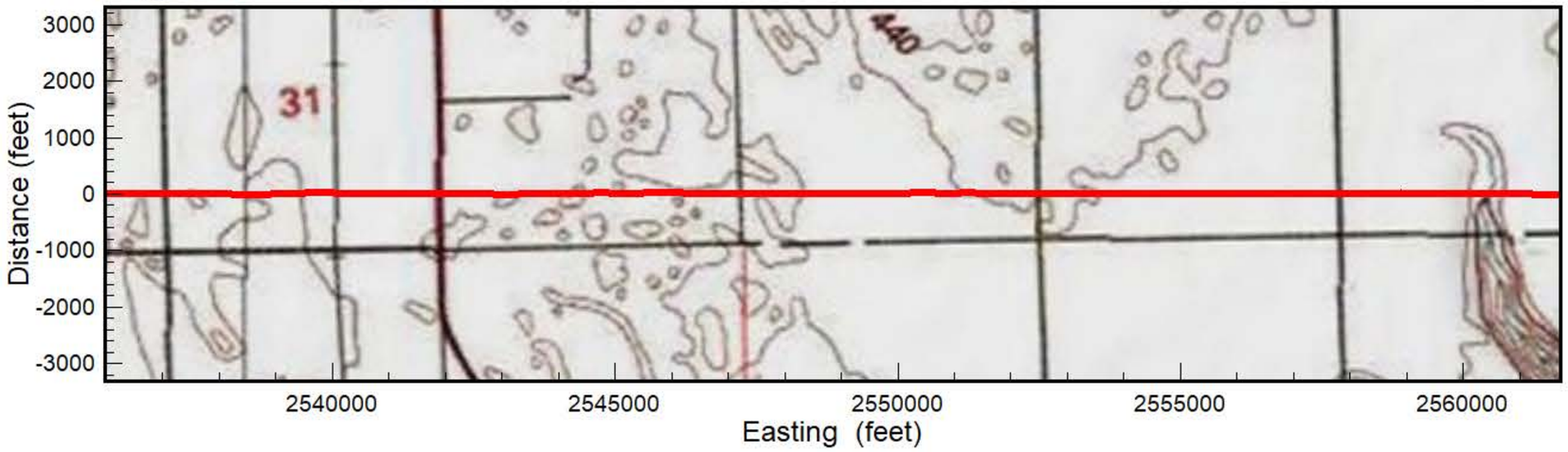


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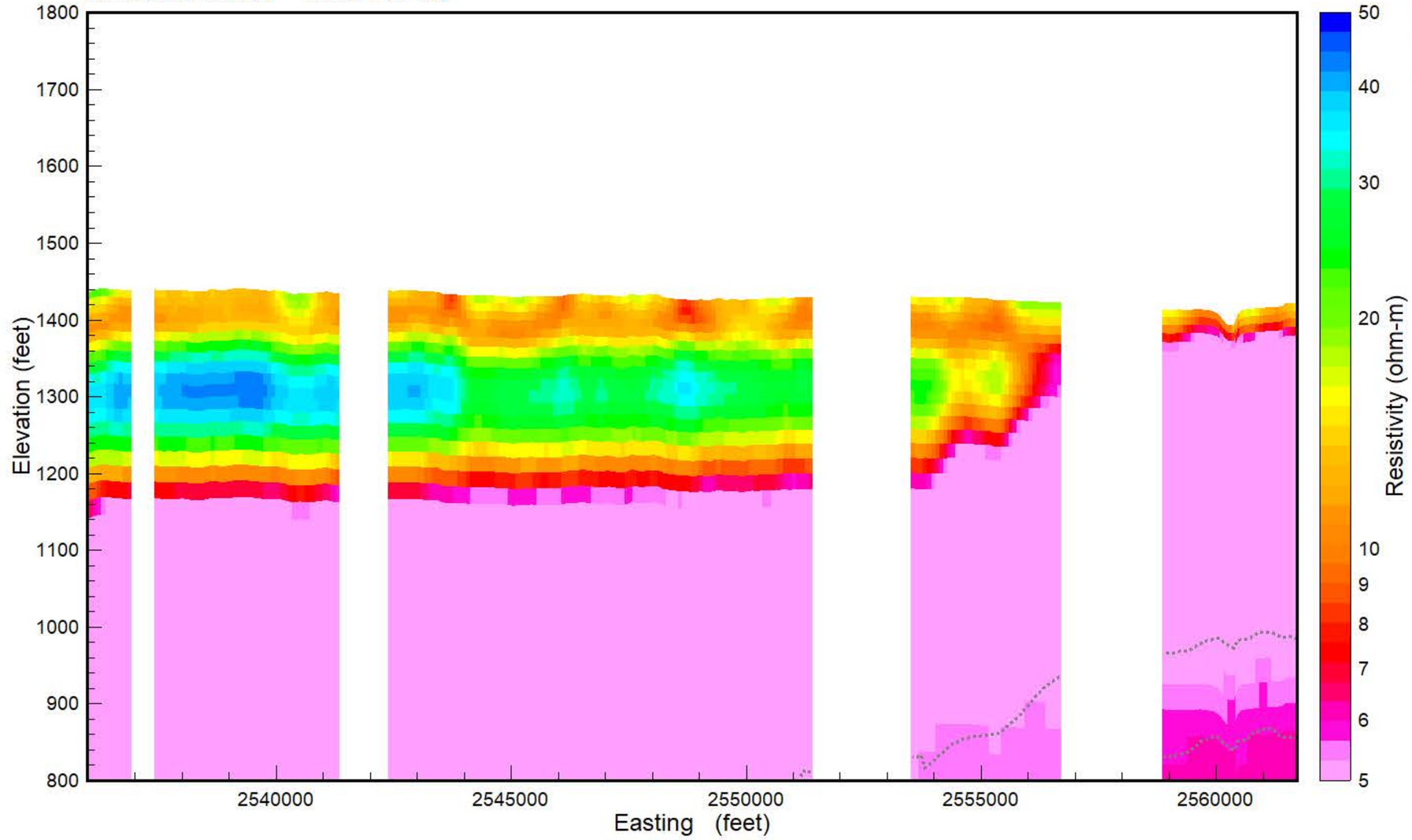
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5710

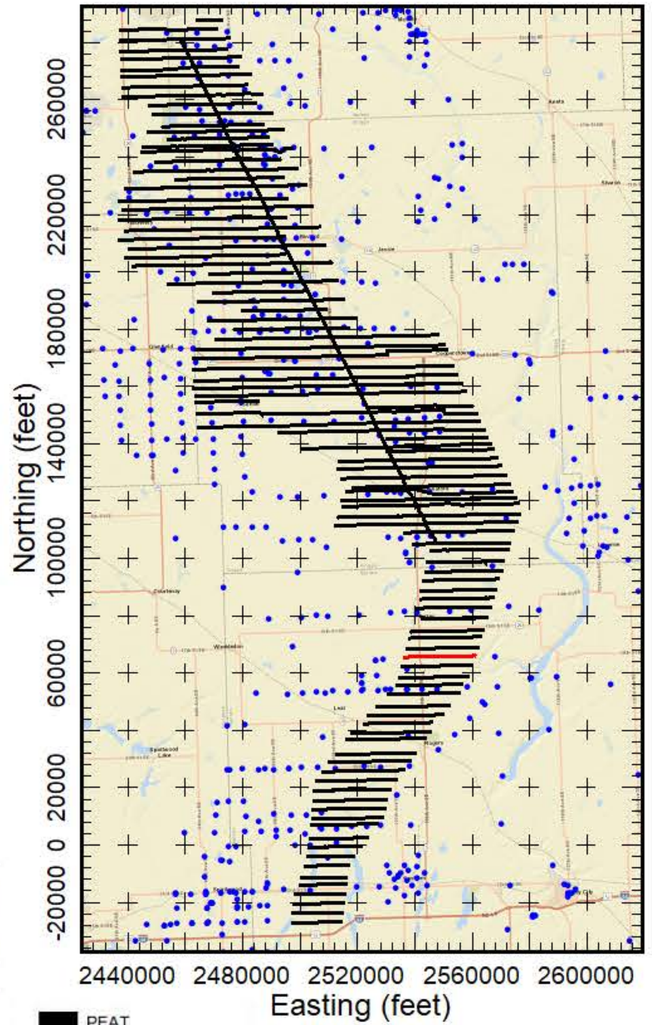


AEM Inversion Line L5710



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Be Legendary.

Flight Area Griggs

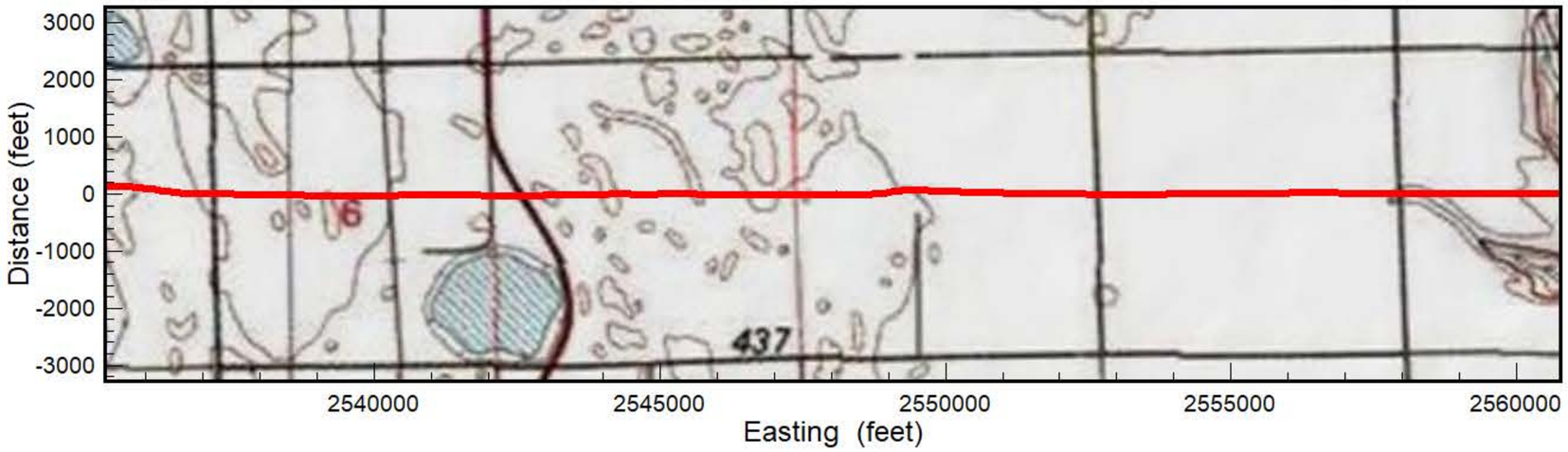


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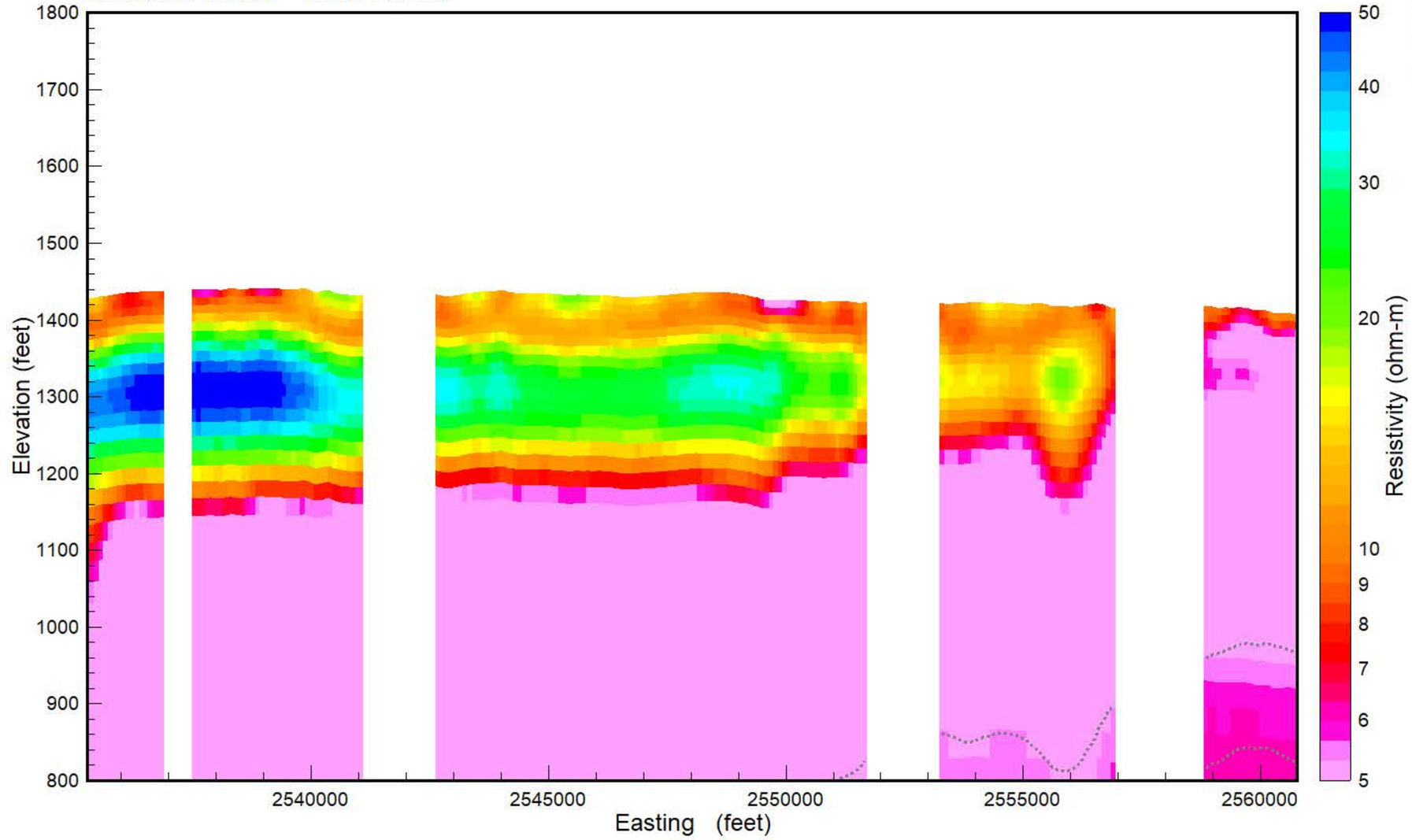
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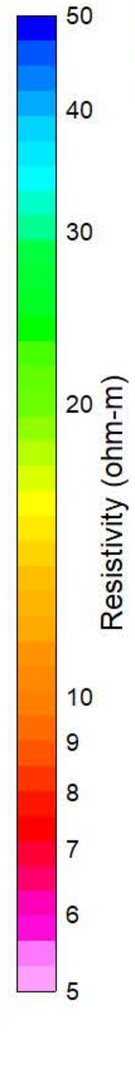
GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5720



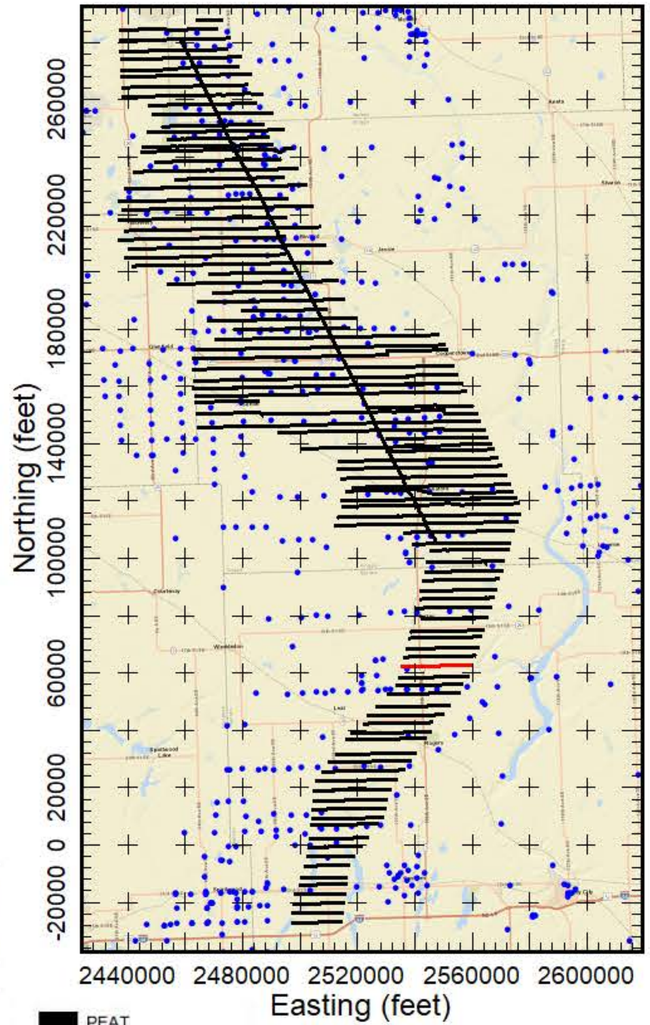
AEM Inversion Line L5720





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Be Legendary.

Flight Area Griggs

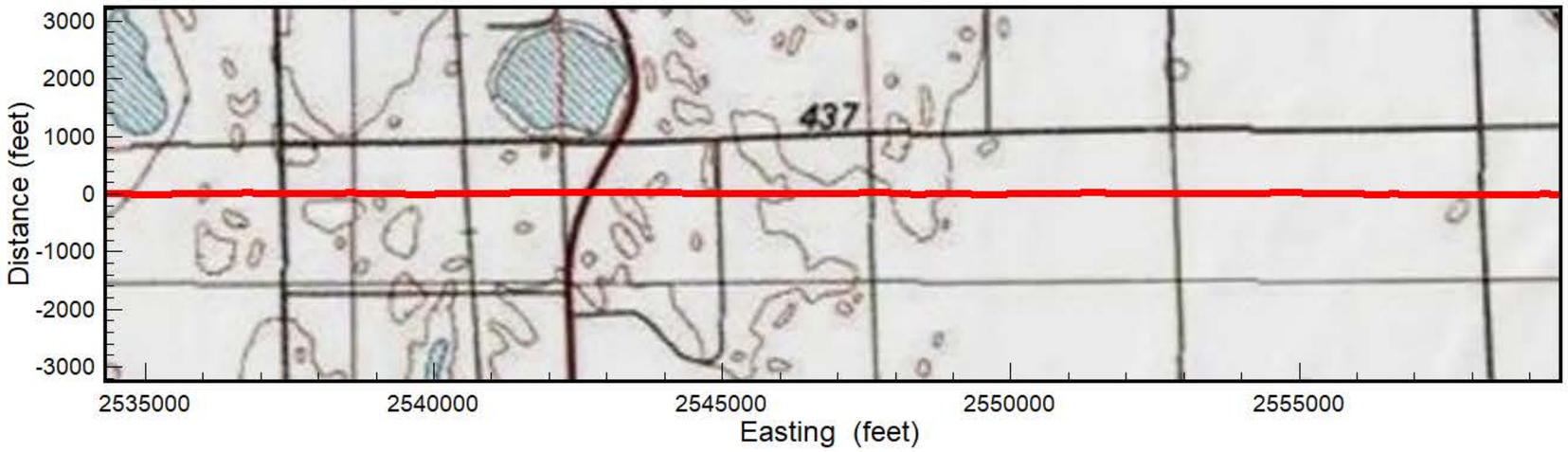


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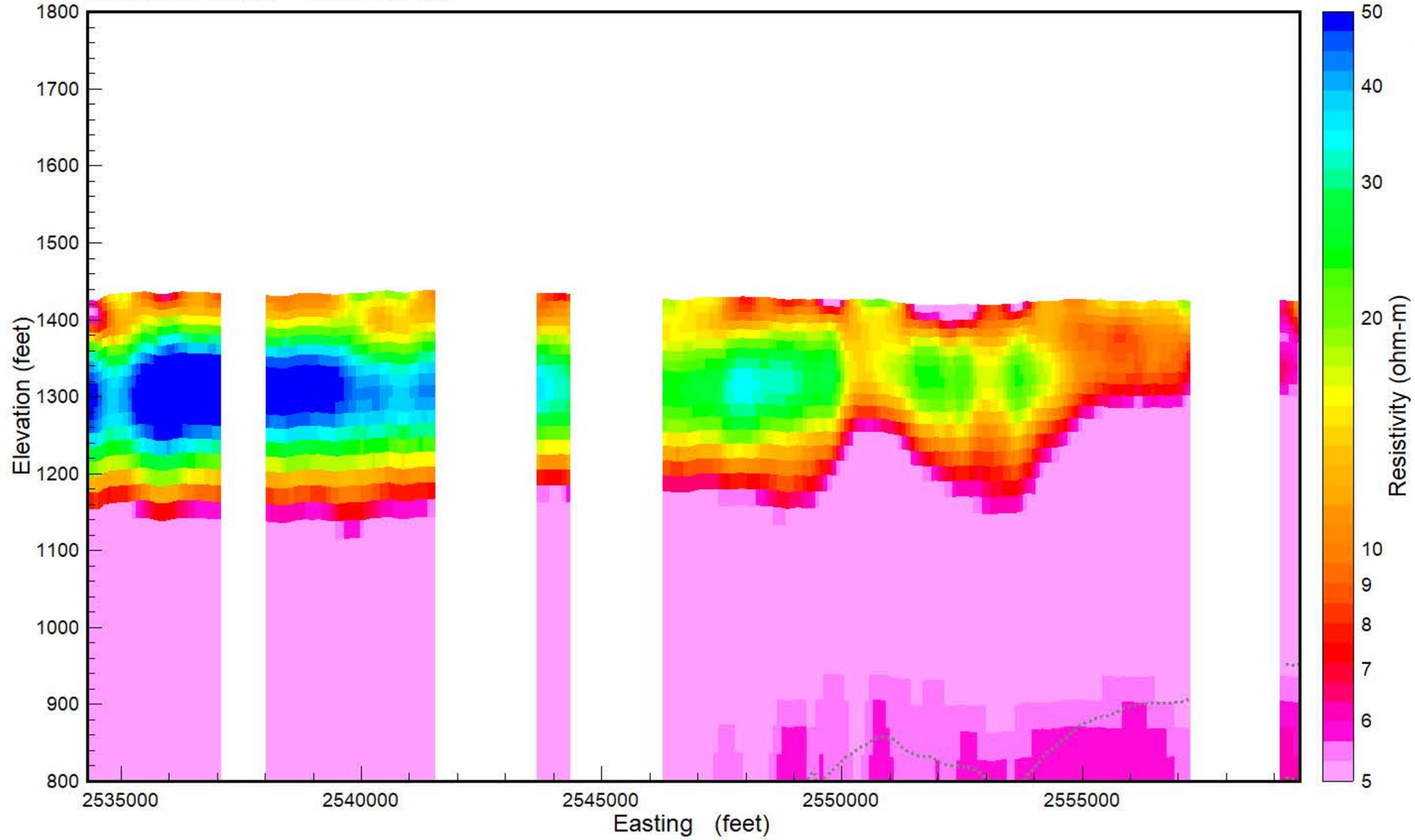
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Flight Path Line L5730

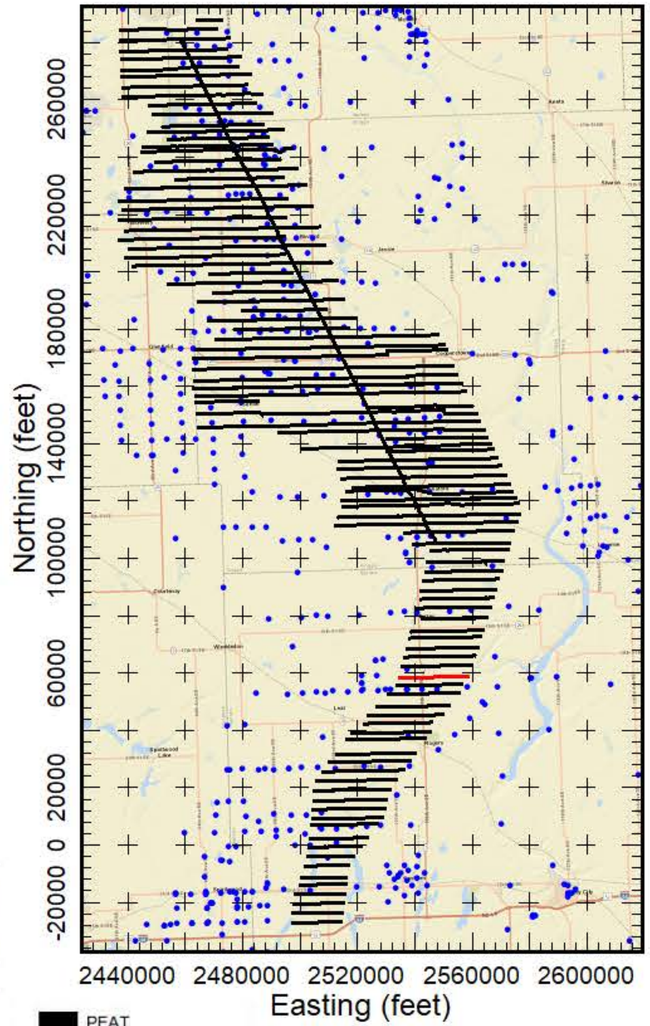


AEM Inversion Line L5730



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Flight Area Griggs

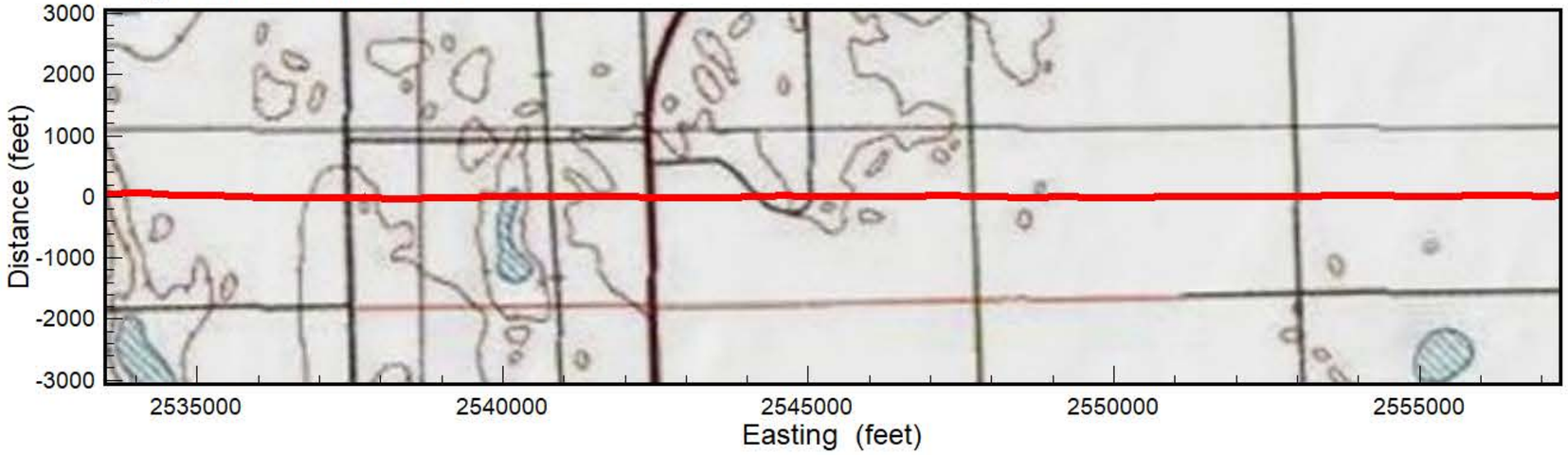


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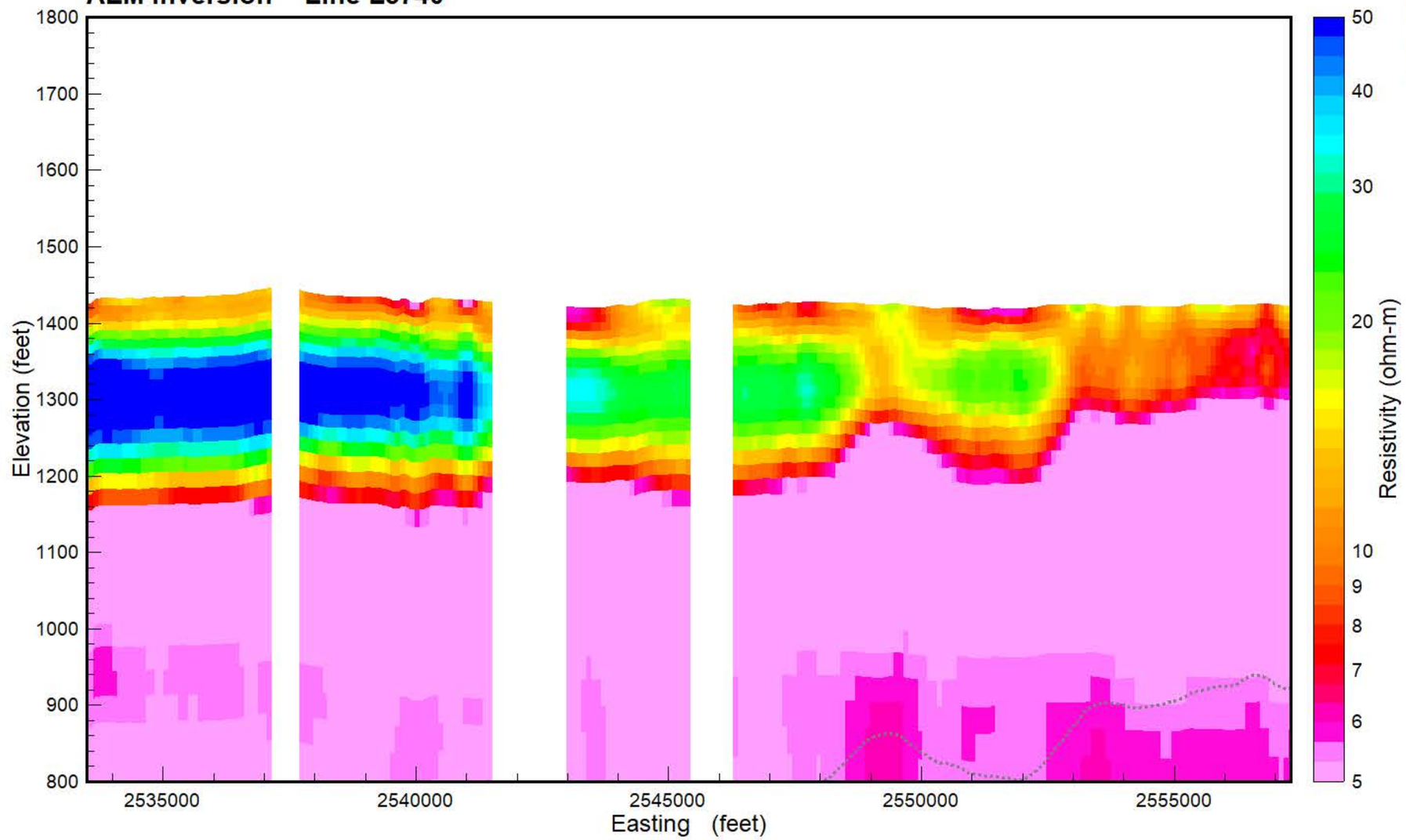
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Flight Path Line L5740

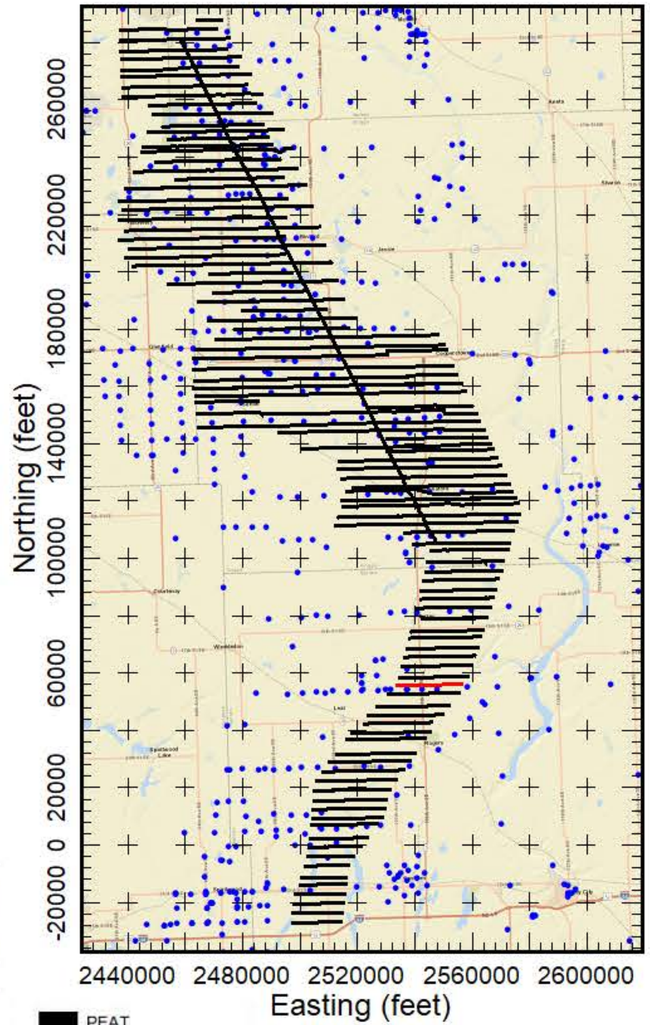


AEM Inversion Line L5740



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Flight Area Griggs

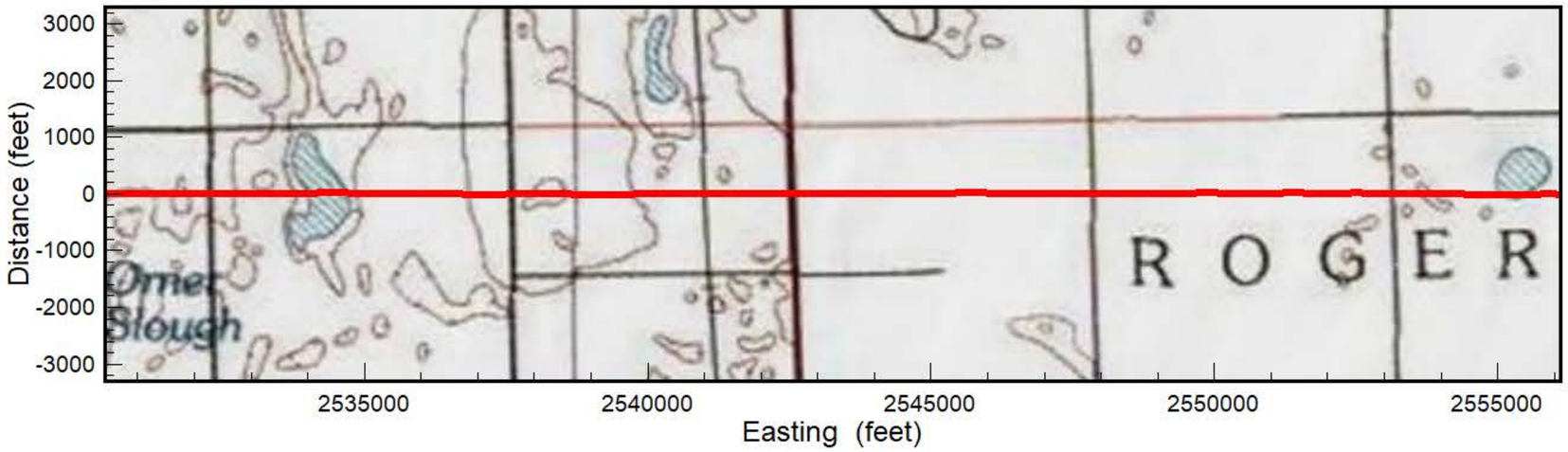


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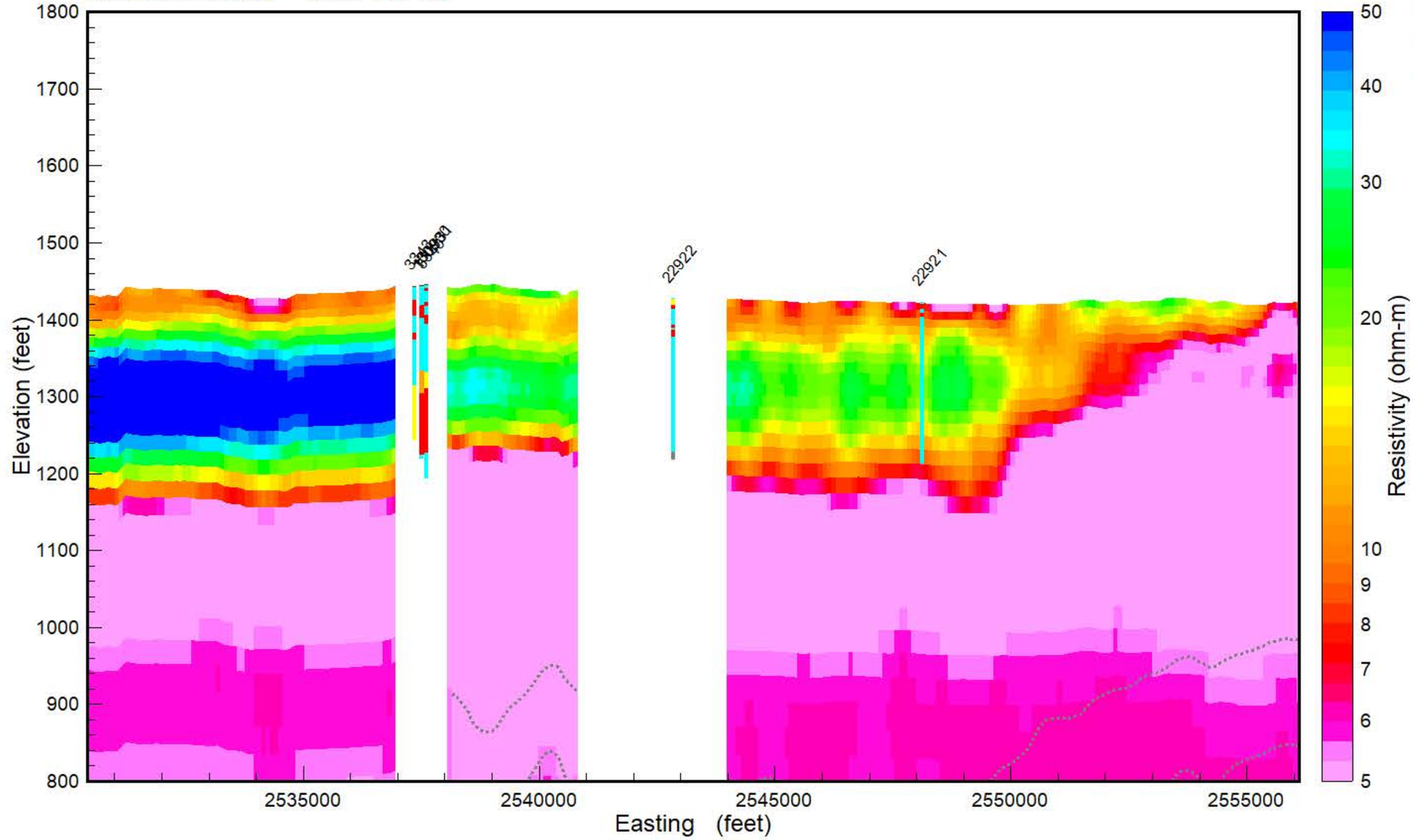
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Flight Path Line L5750

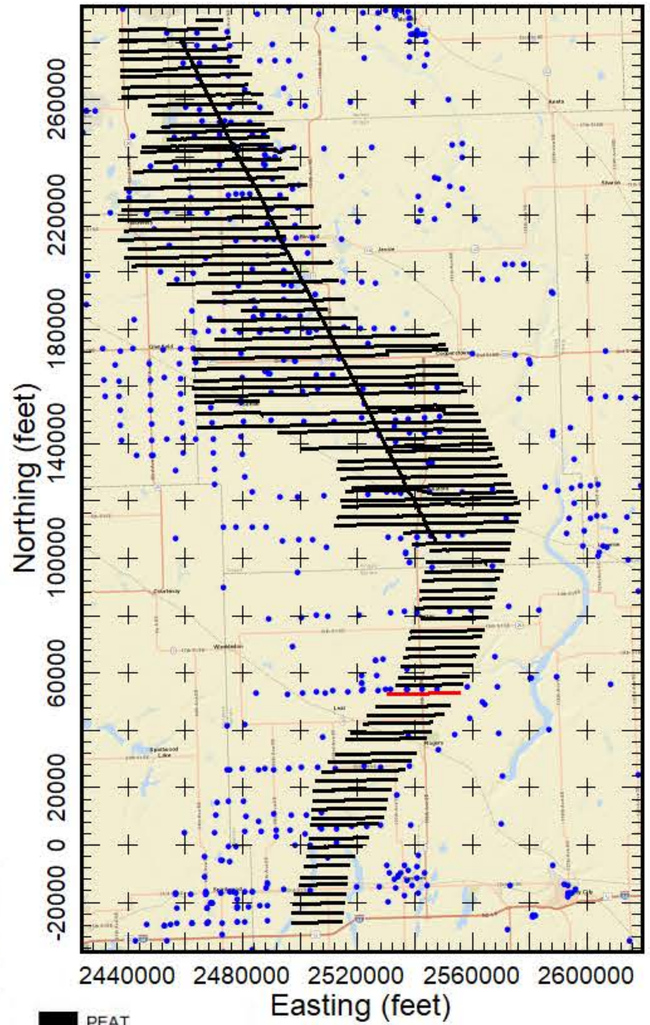


AEM Inversion Line L5750



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Flight Area Griggs

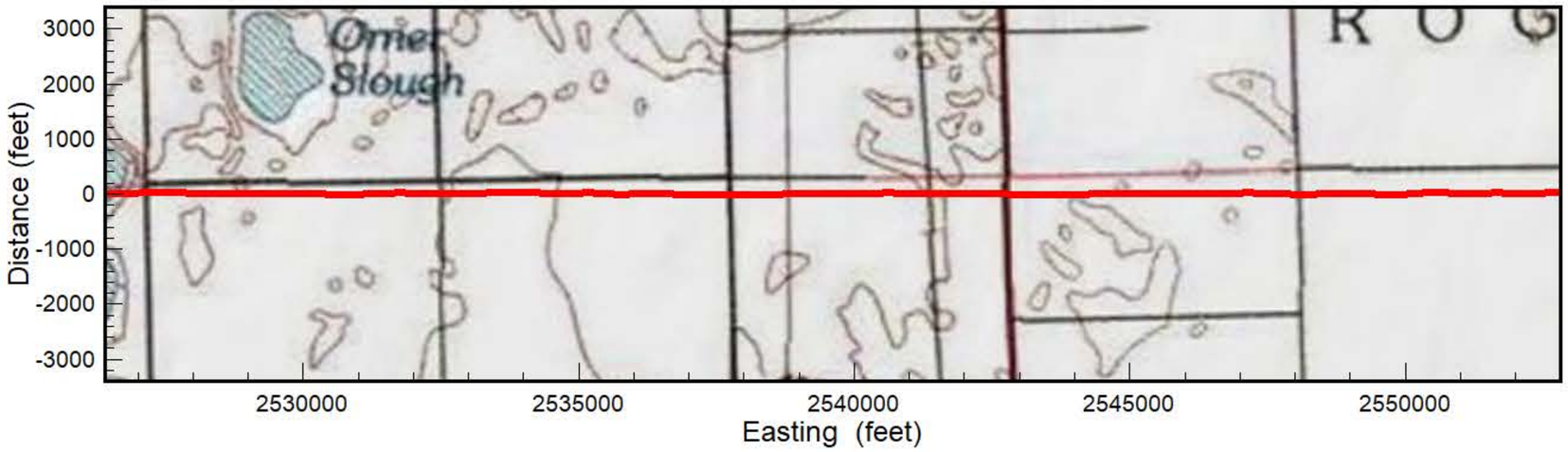


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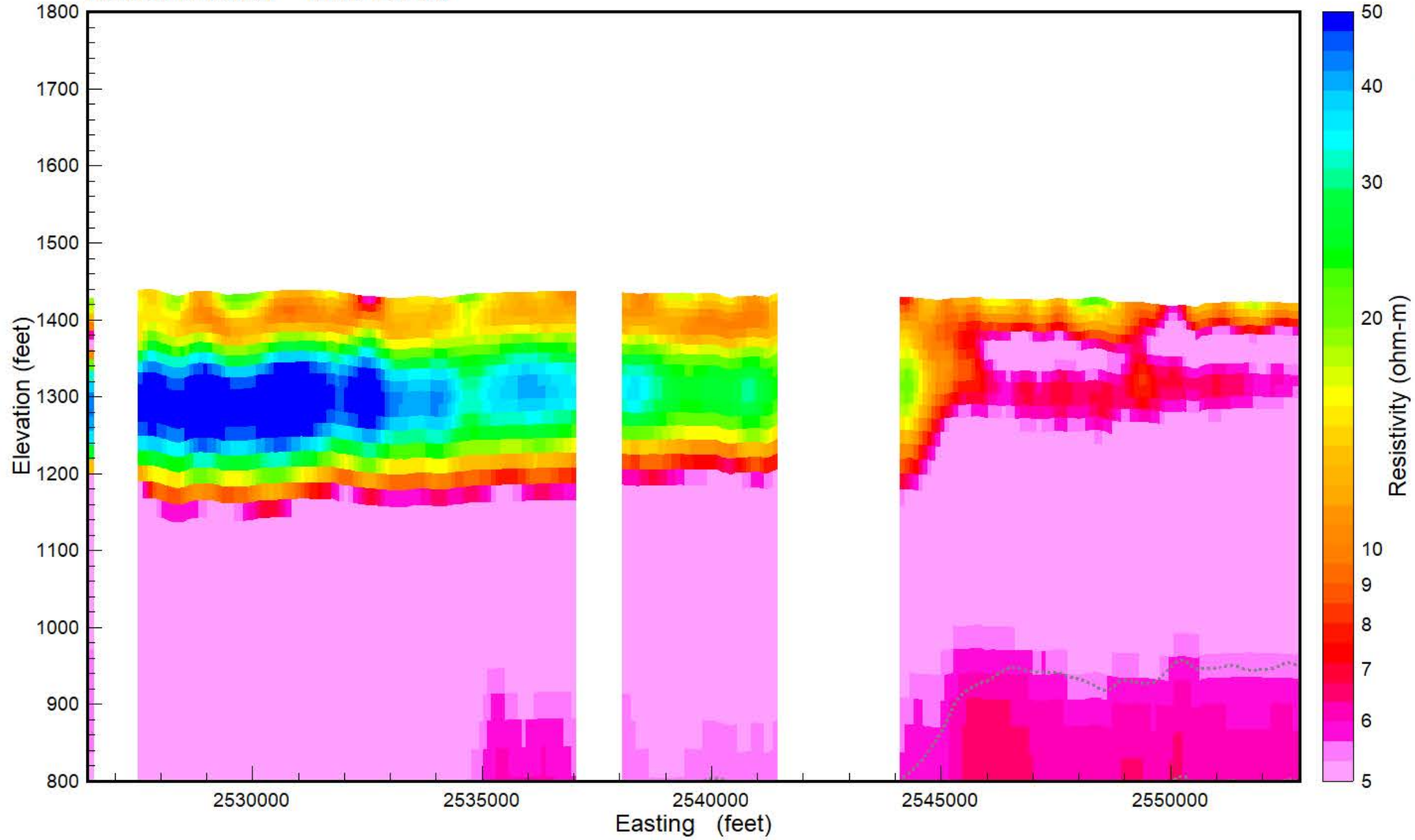
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Flight Path Line L5760

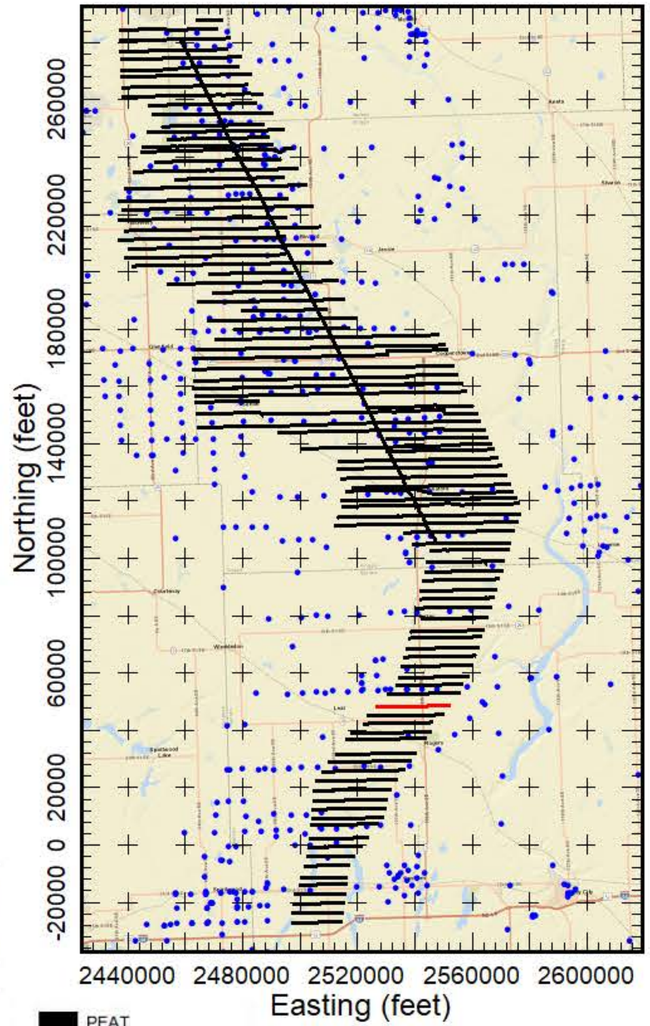


AEM Inversion Line L5760



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Flight Area Griggs

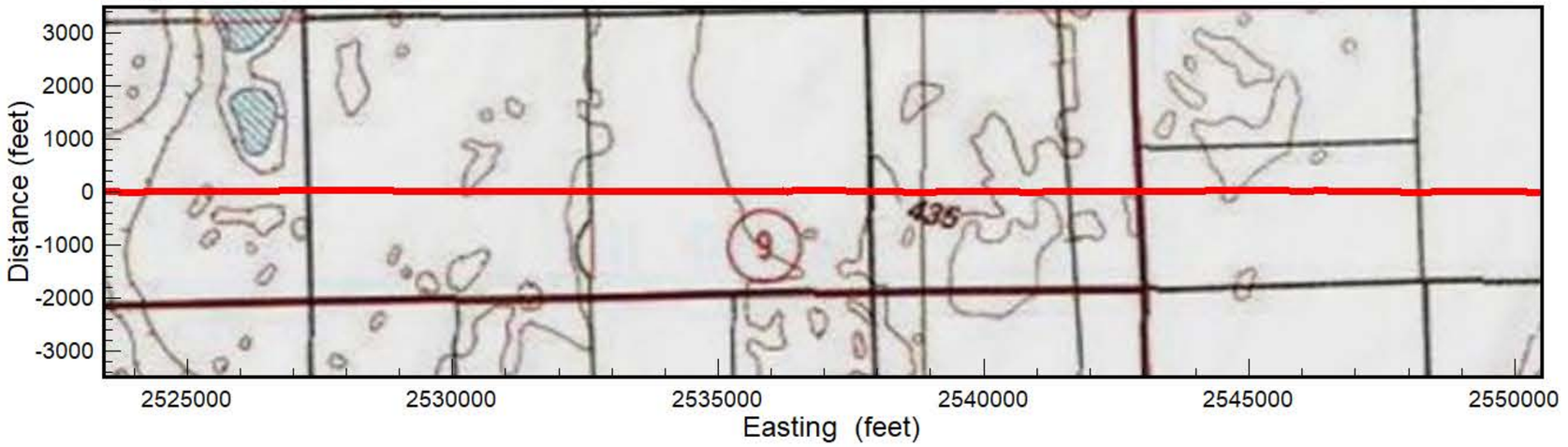


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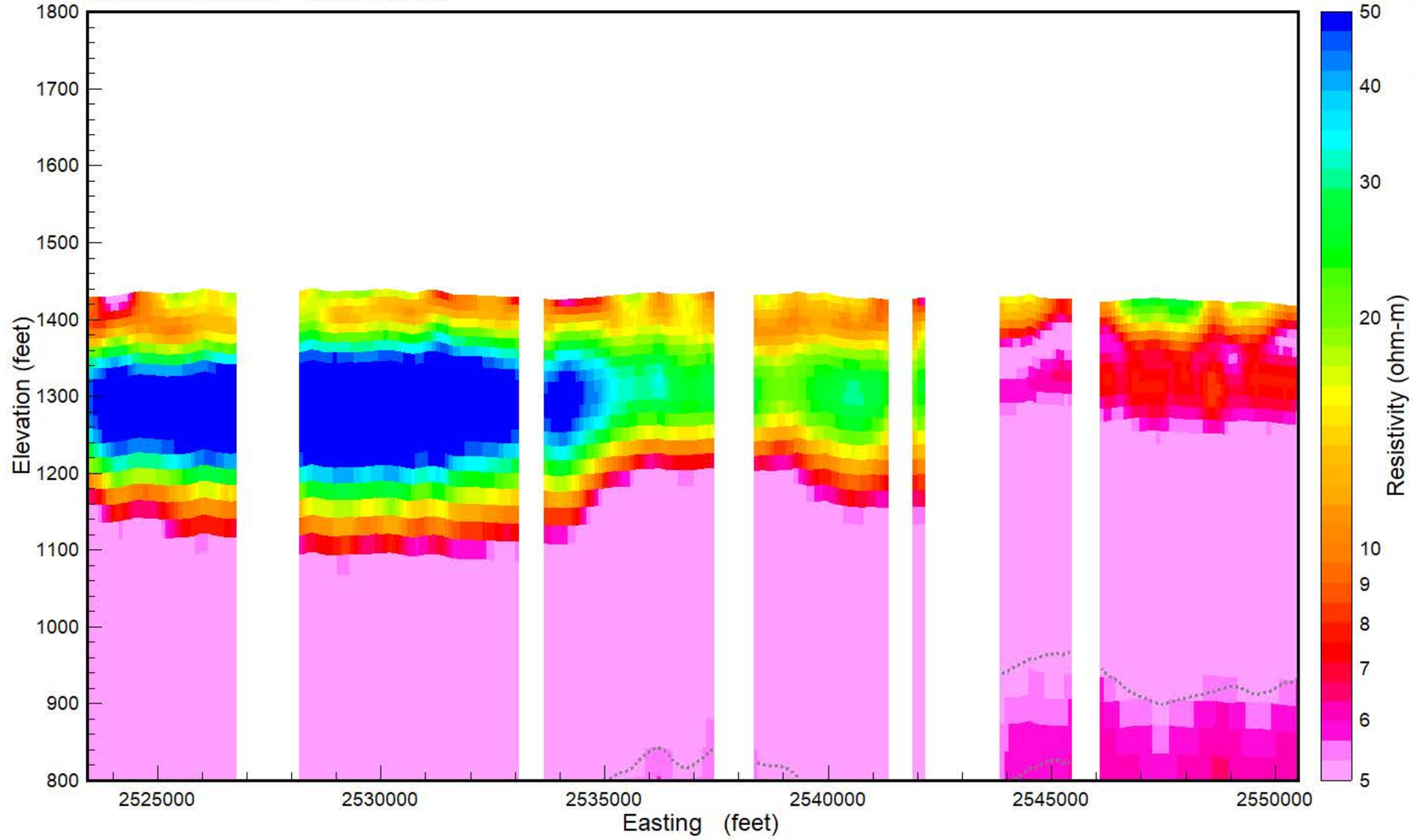
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Flight Path Line L5770

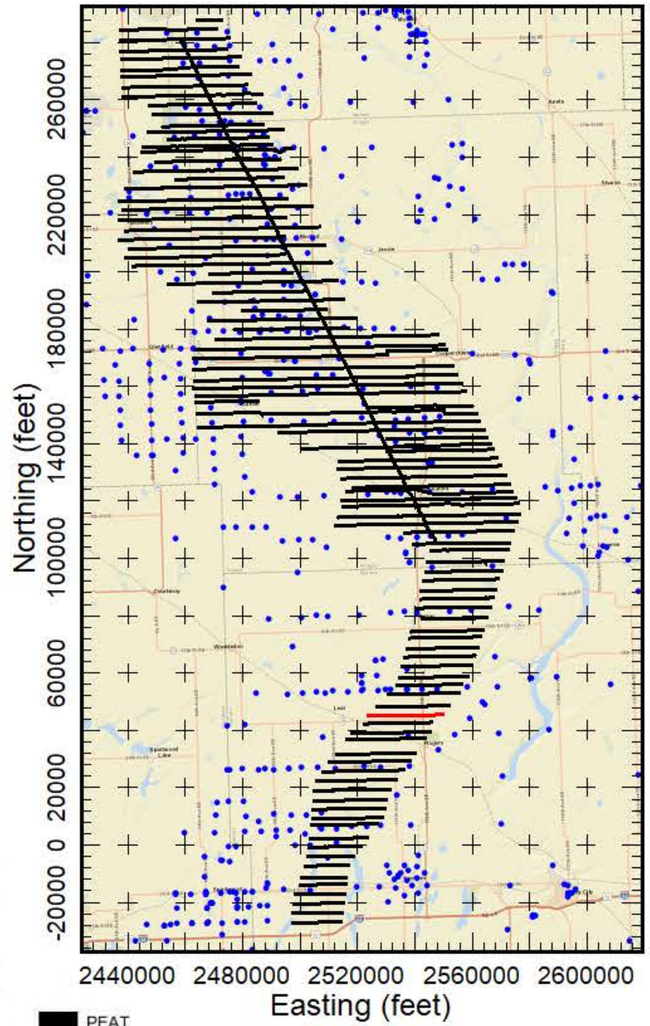


AEM Inversion Line L5770



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Be Legendary.

Flight Area Griggs

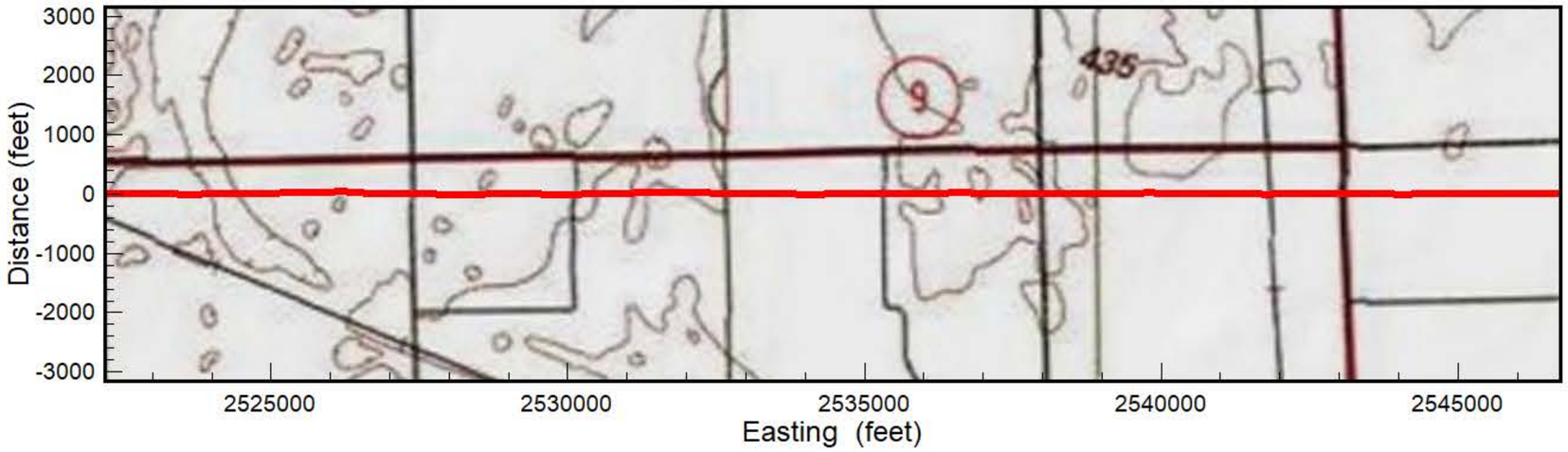


- PEAT
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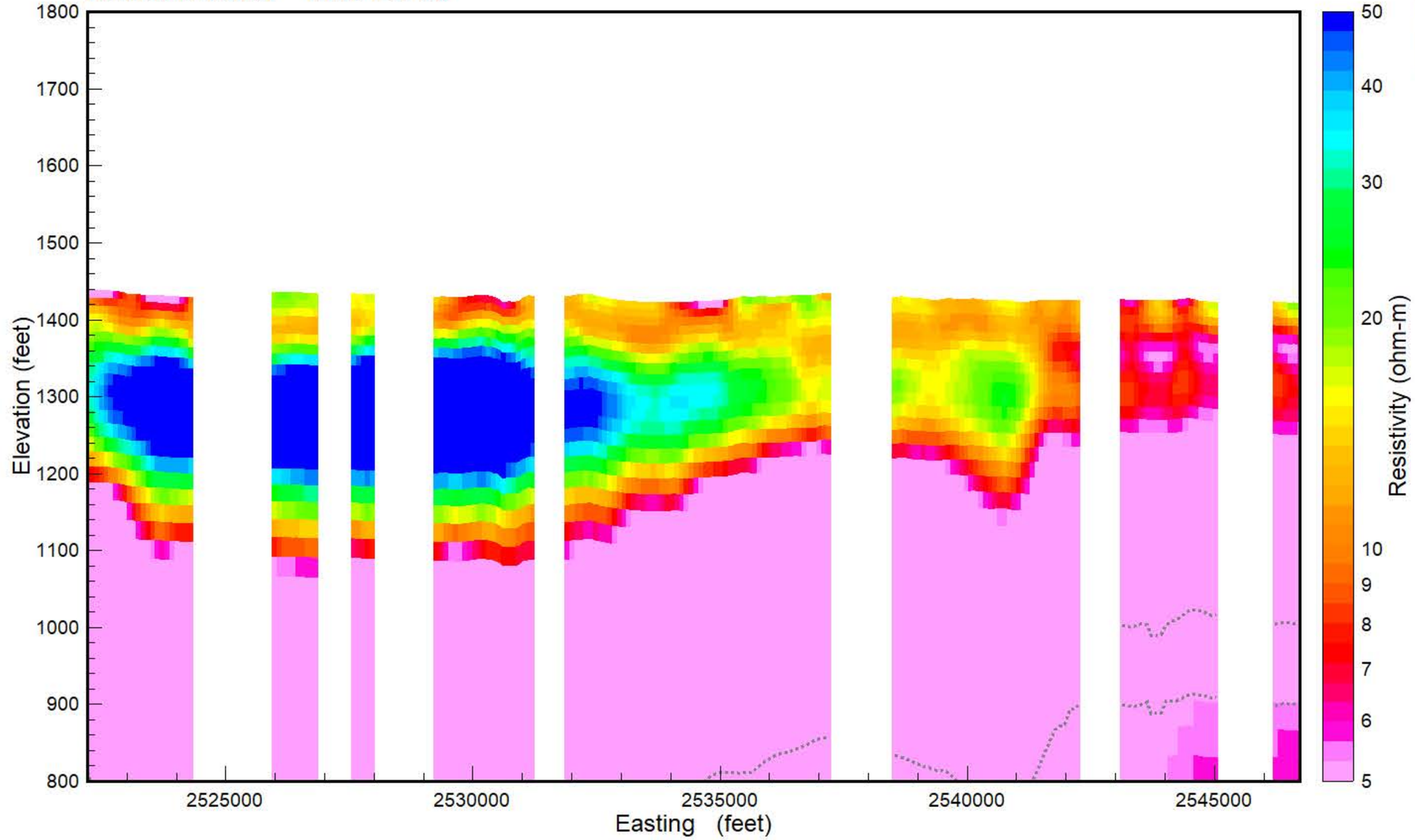
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5780

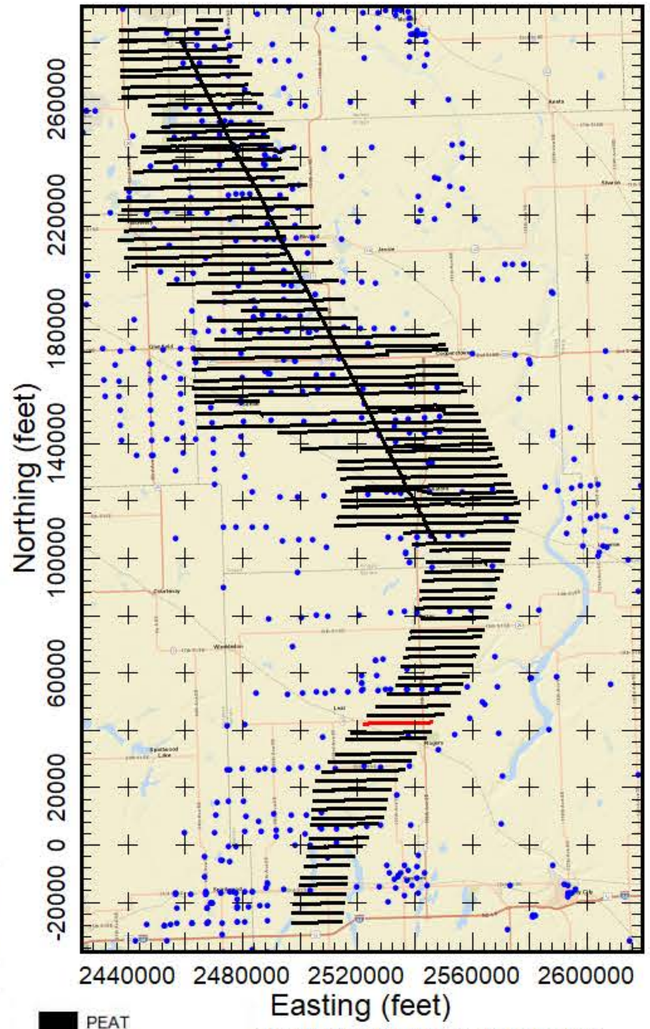


AEM Inversion Line L5780



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Flight Area Griggs

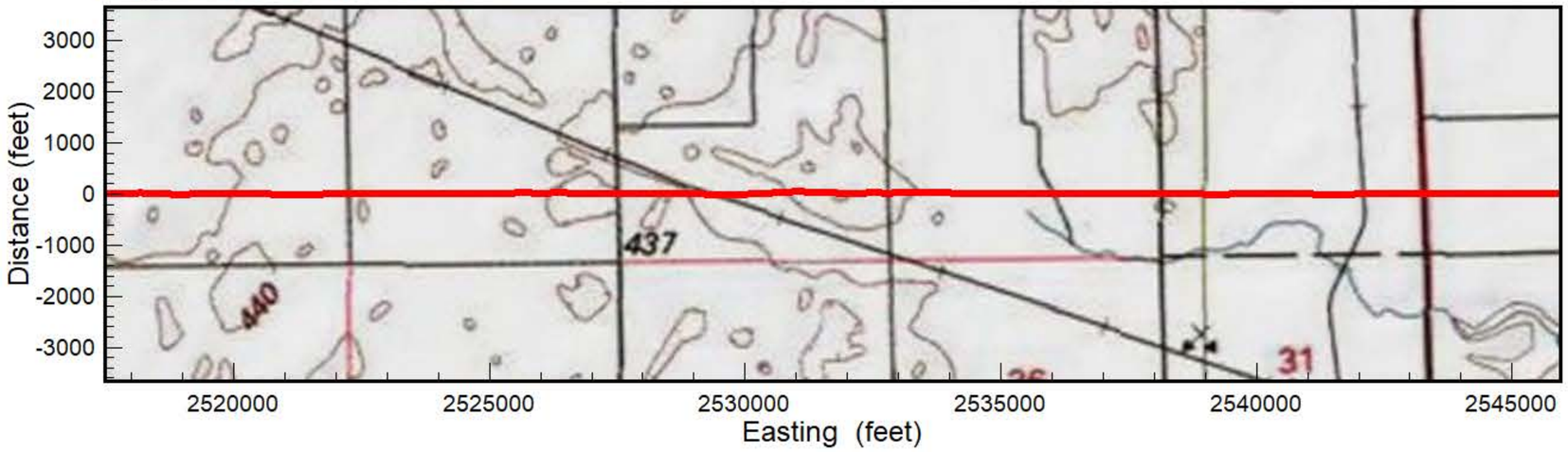




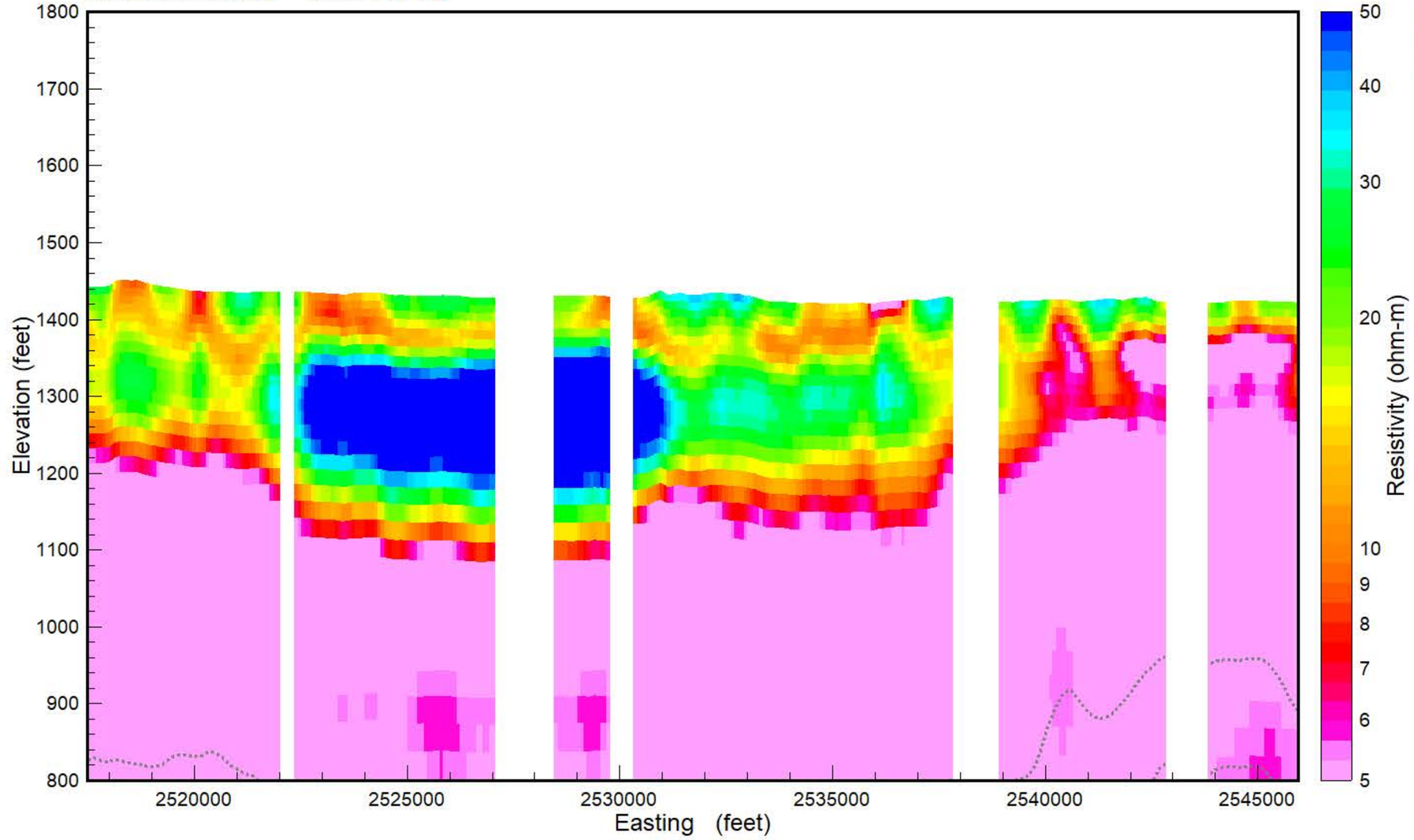
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Flight Path Line L5790

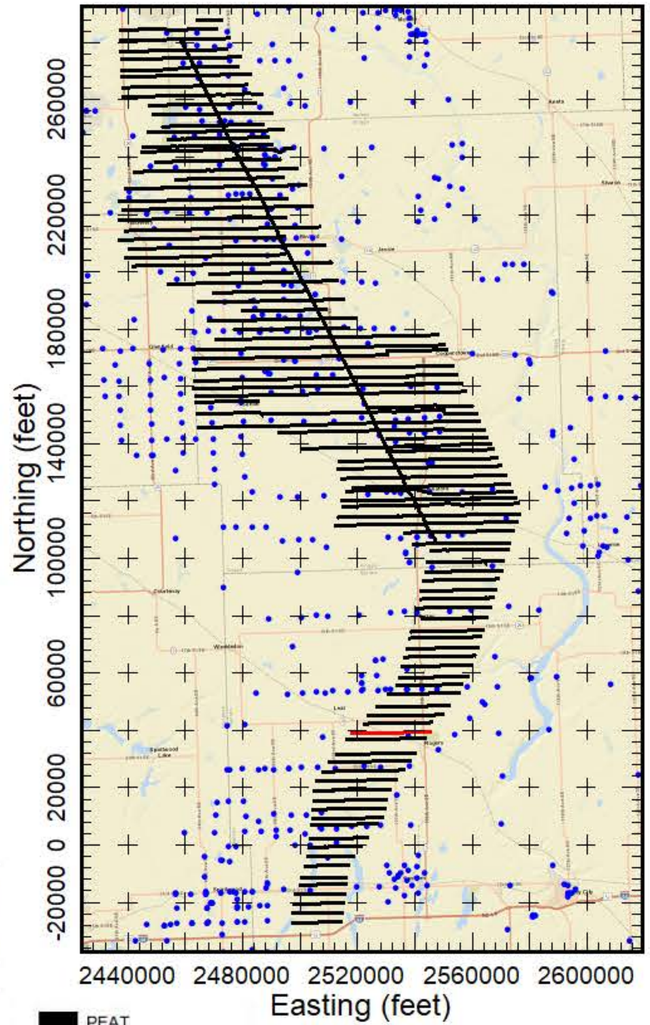


AEM Inversion Line L5790



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Be Legendary.

Flight Area Griggs

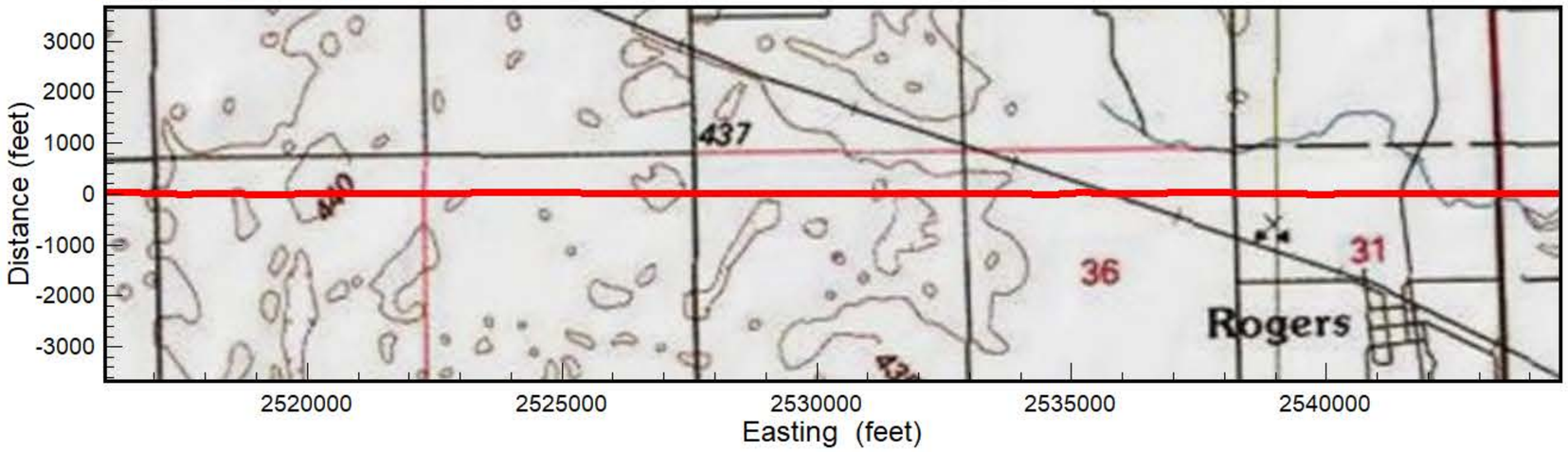


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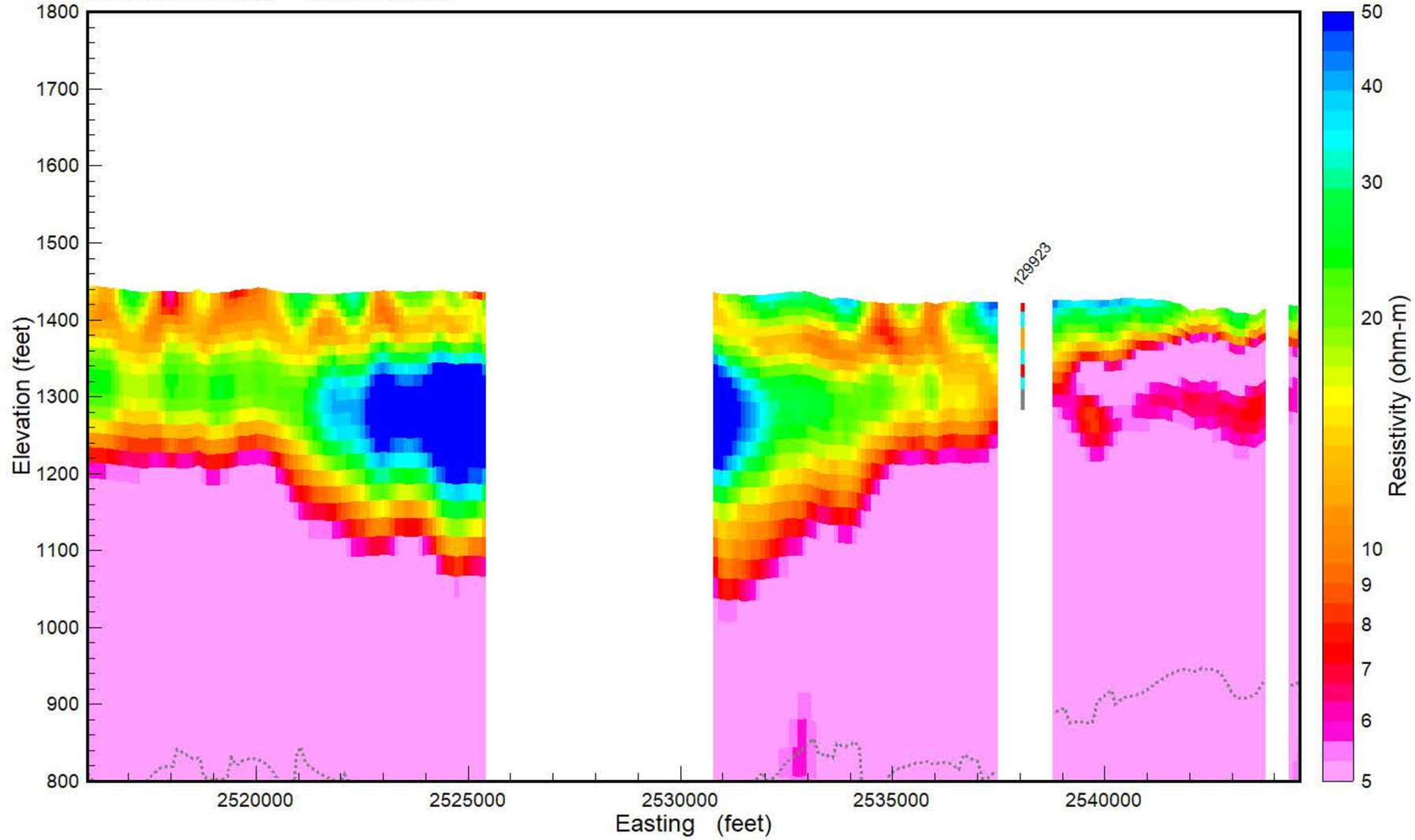
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Flight Path Line L5800

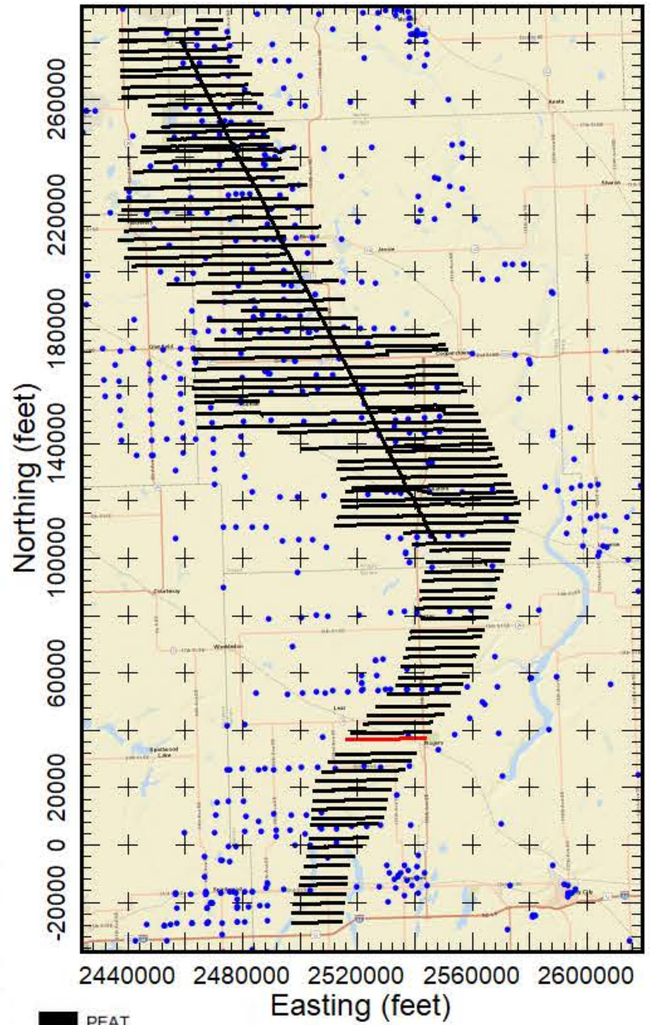


AEM Inversion Line L5800



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Be Legendary.

Flight Area Griggs

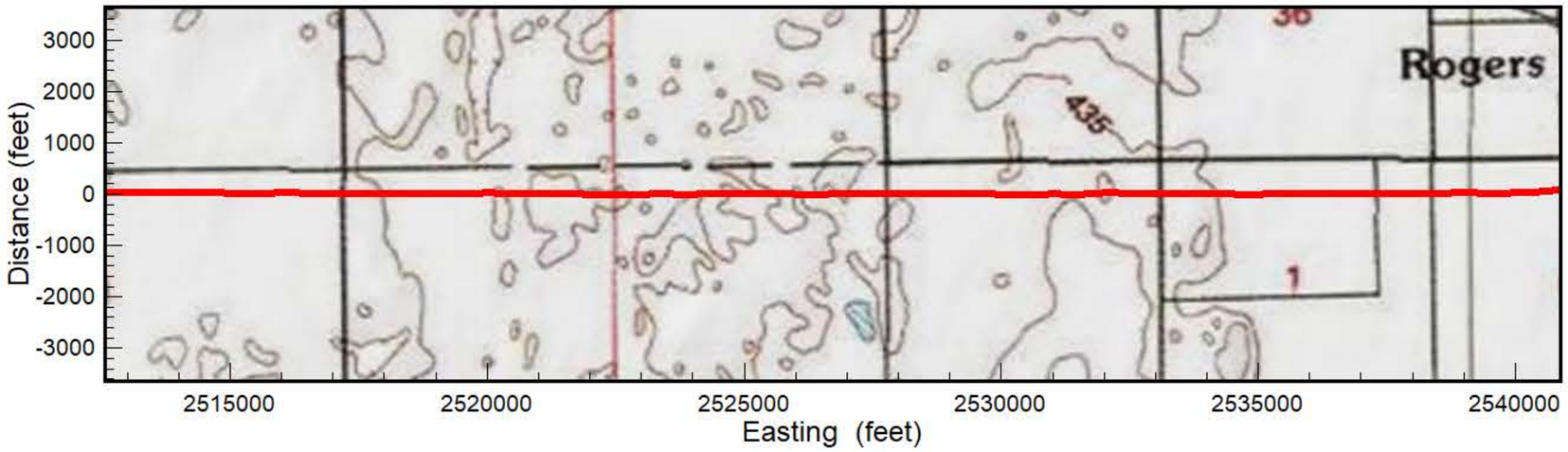


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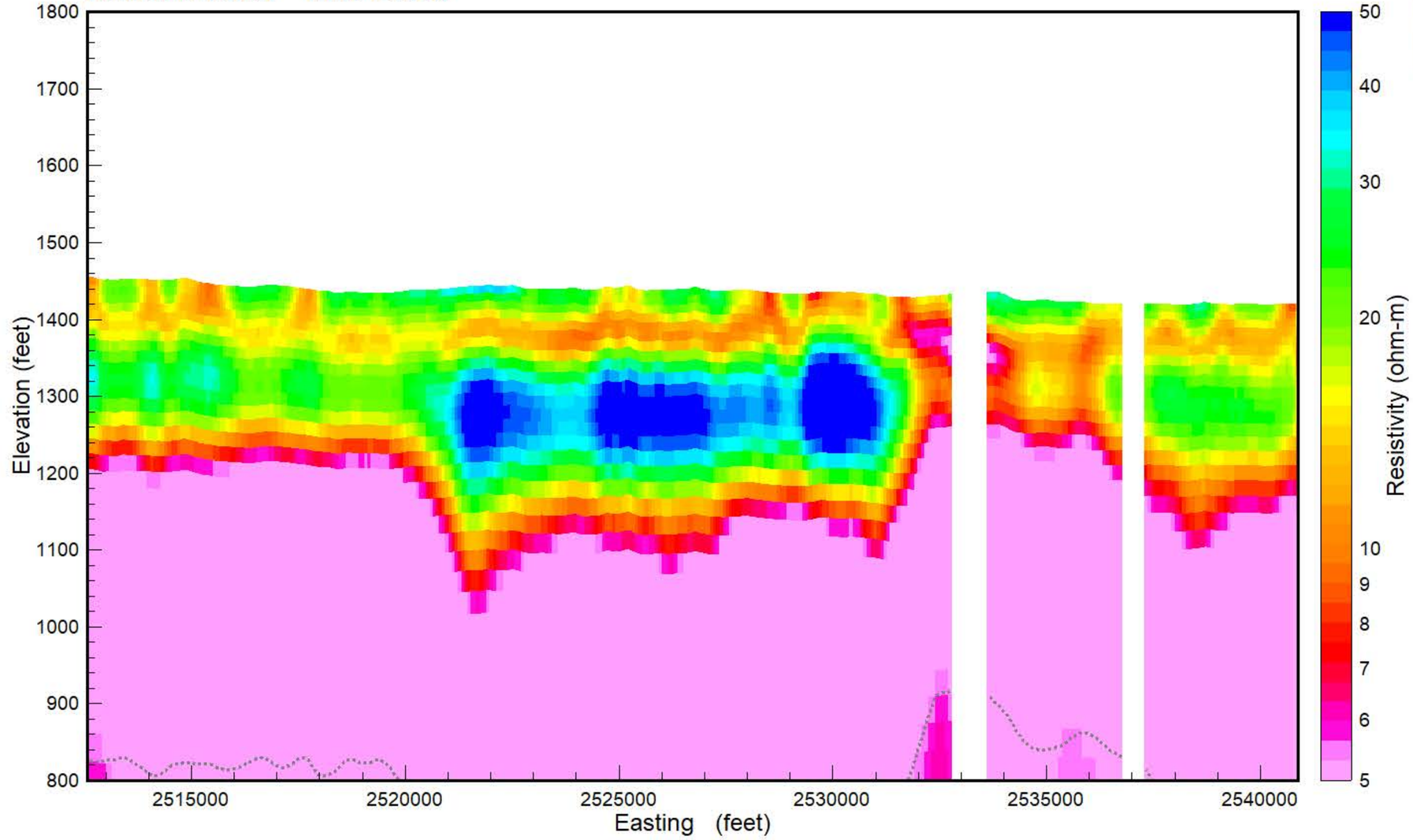
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Flight Path Line L5810

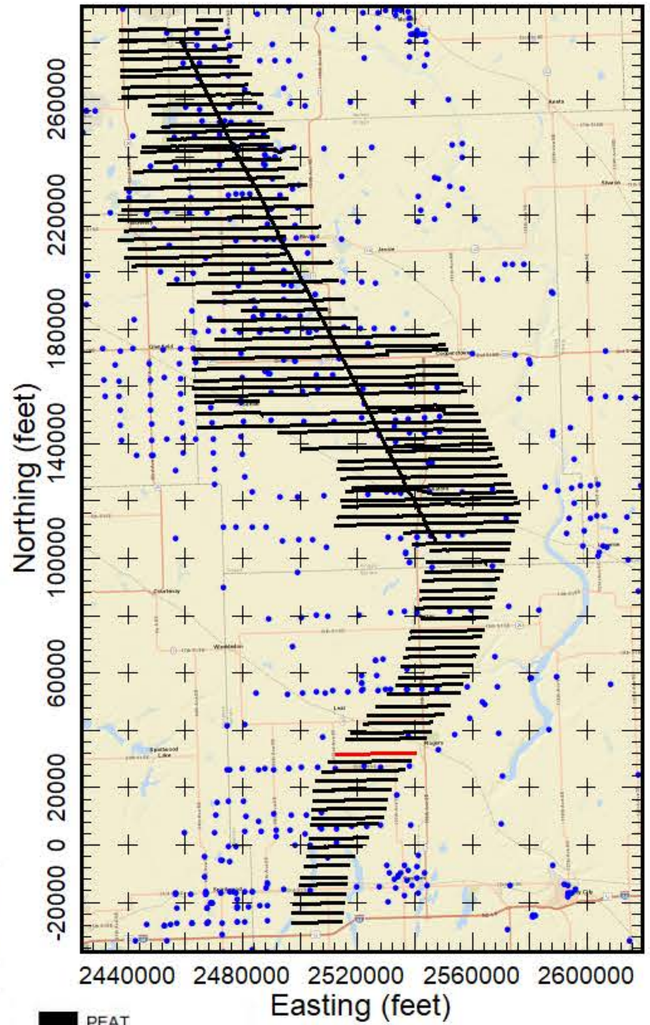


AEM Inversion Line L5810



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Flight Area Griggs

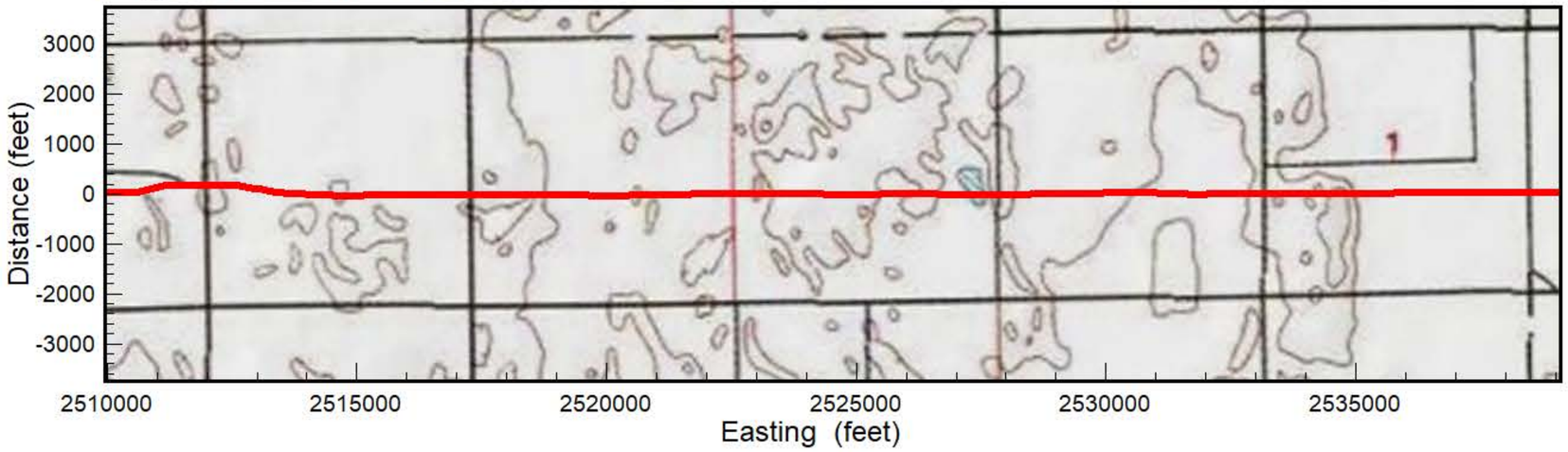


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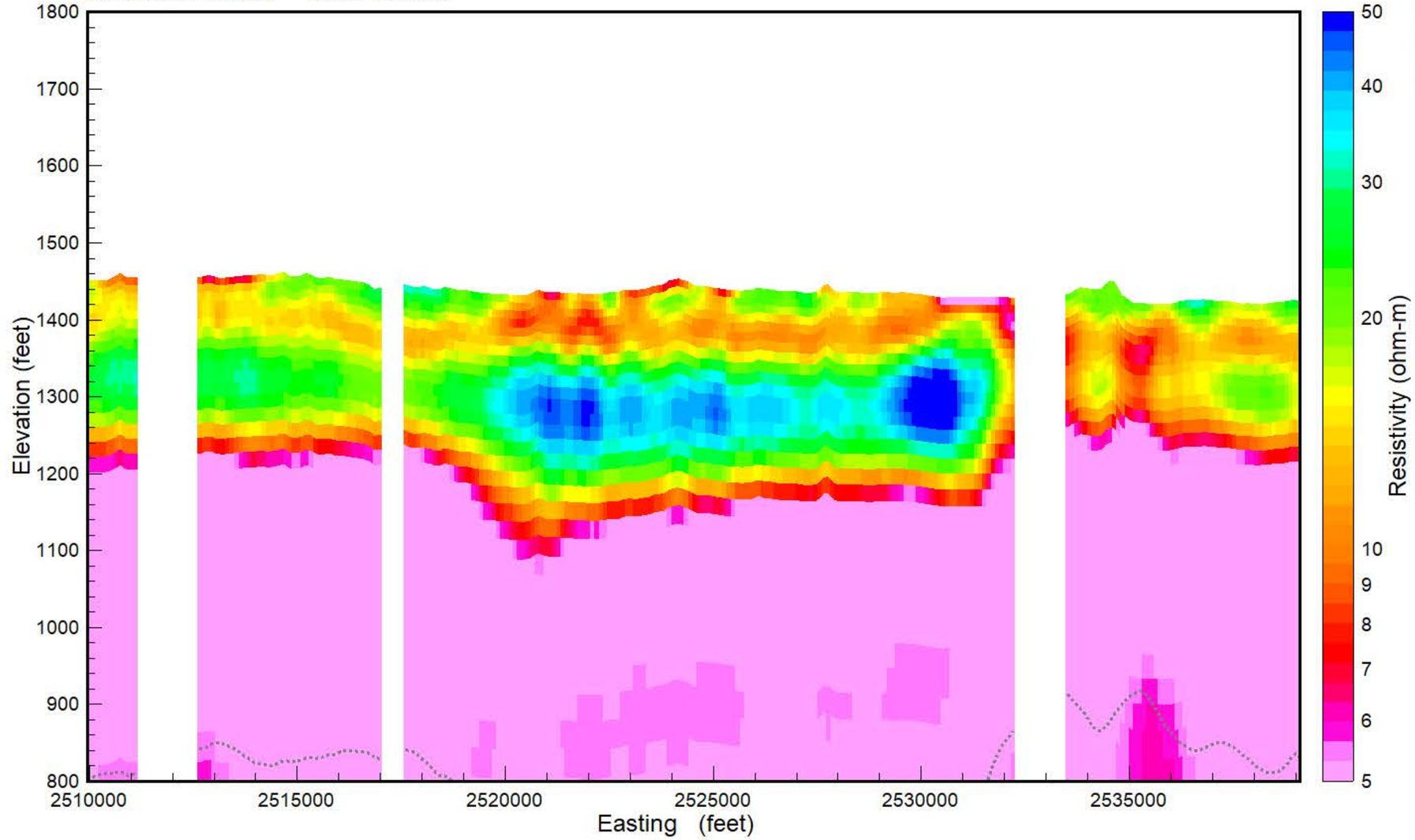
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5820

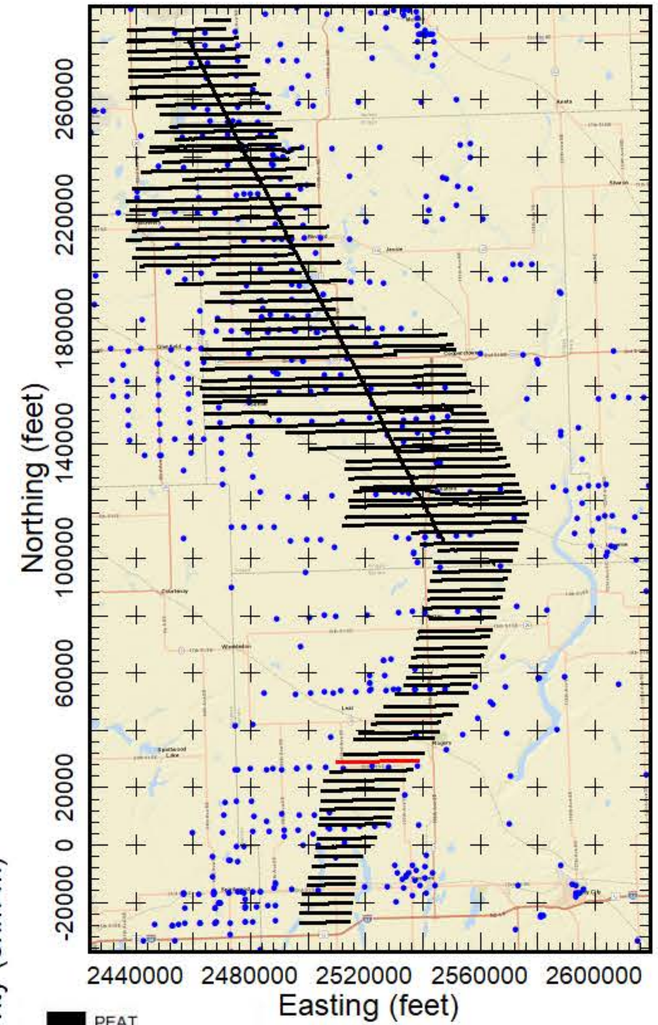


AEM Inversion Line L5820



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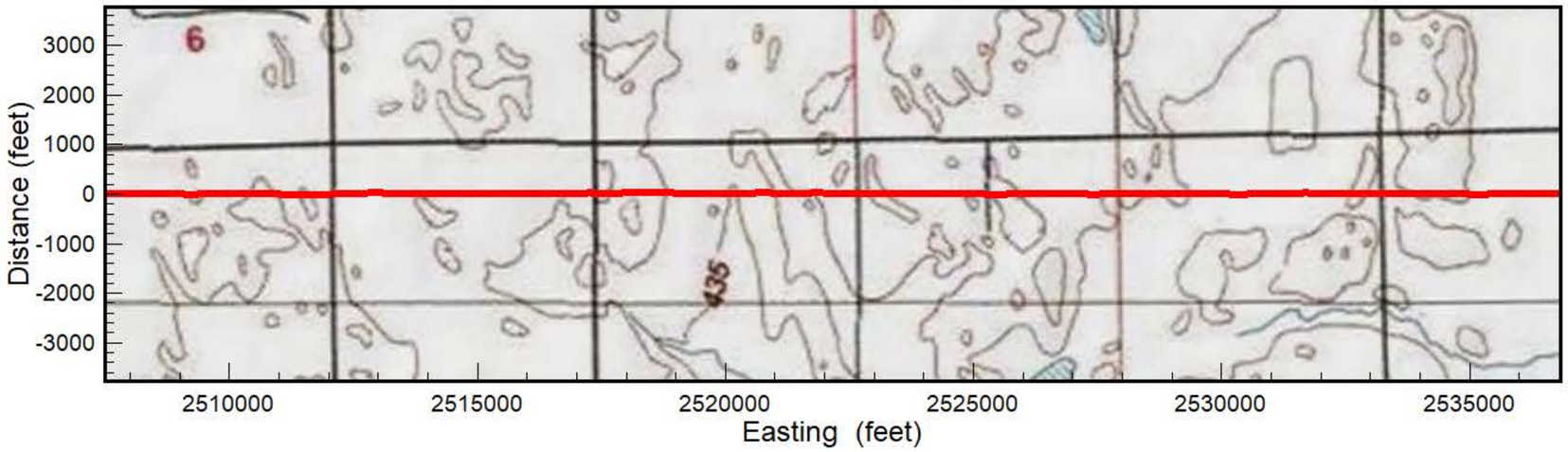


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BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
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NOSAMPLE

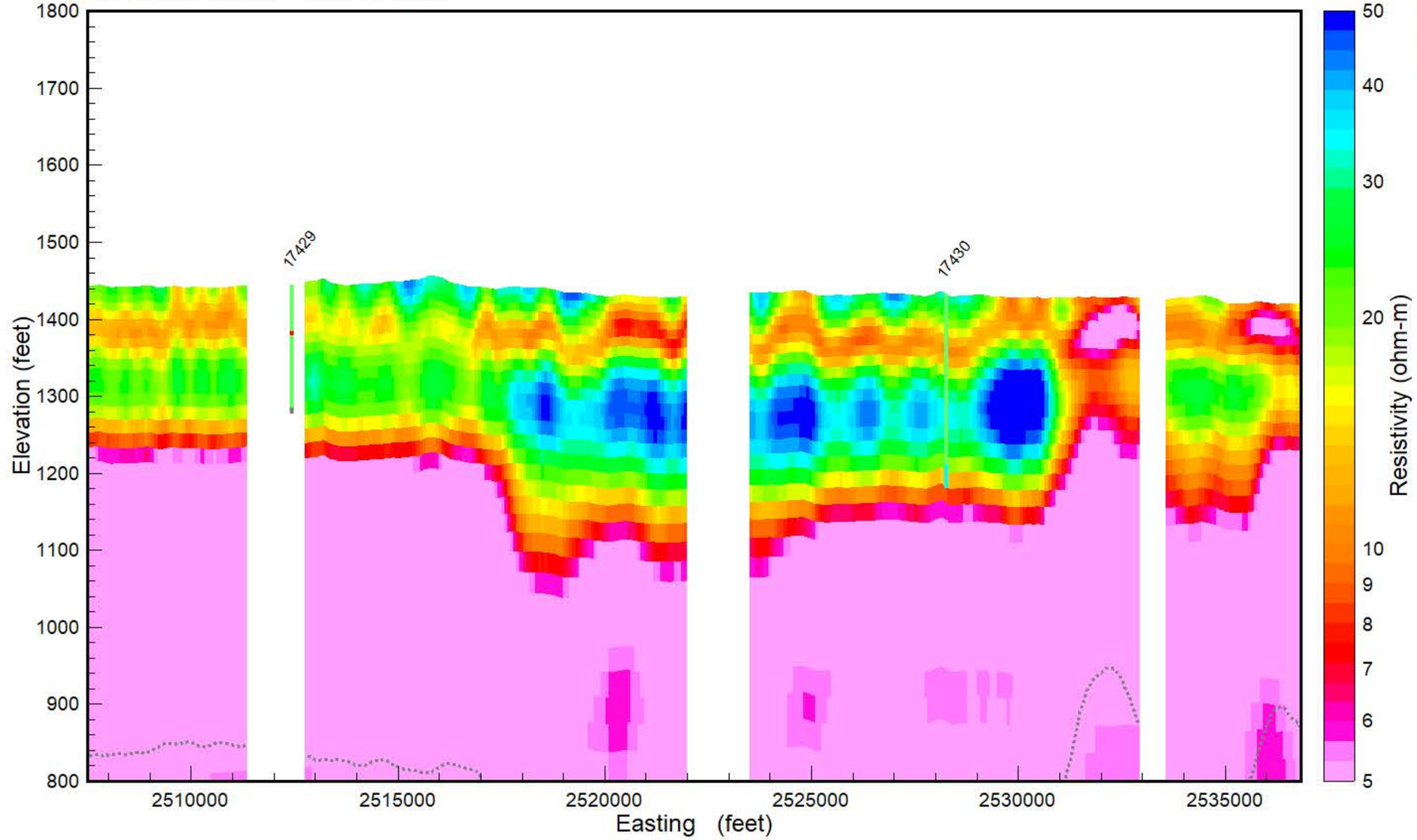
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5830

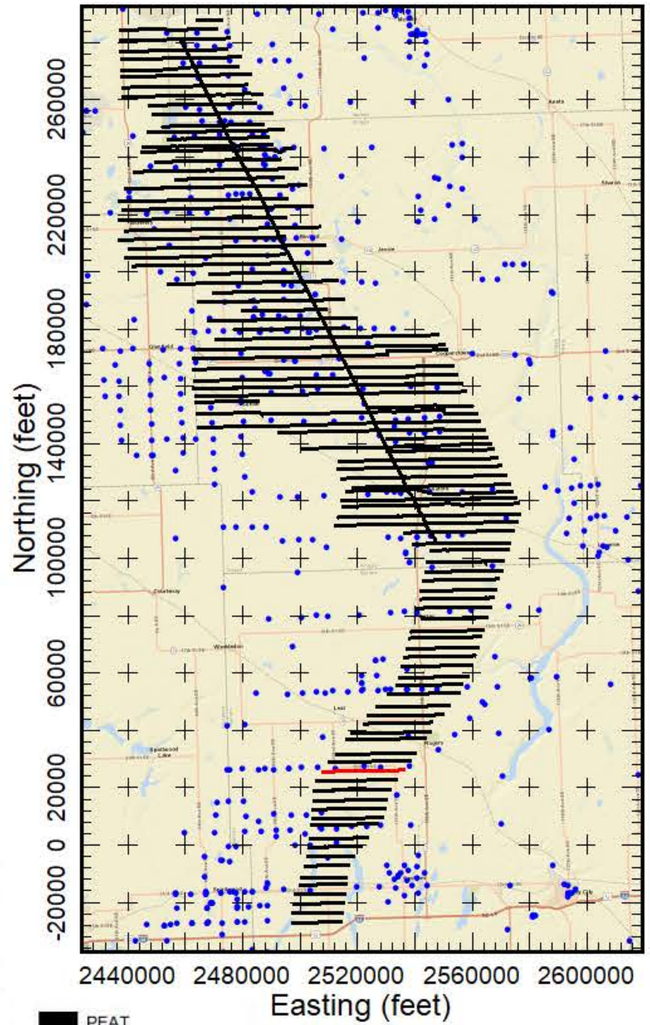


AEM Inversion Line L5830



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Be Legendary.

Flight Area Griggs

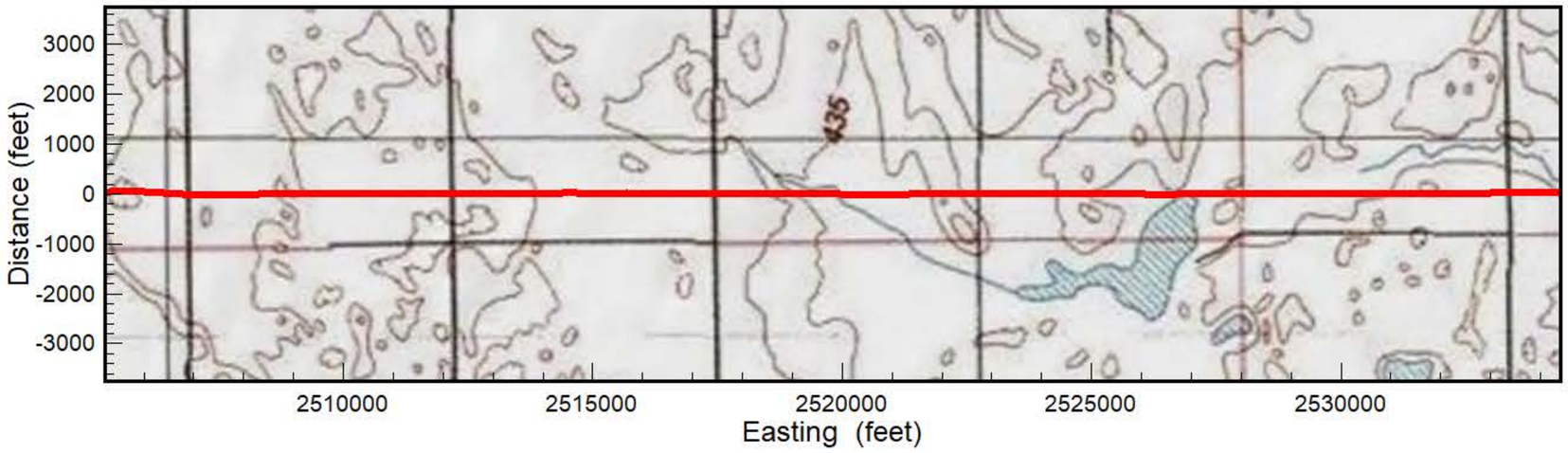


PEAT
LIGNITE
COBBLES
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WEATHERED GRANI
SANDSTONE
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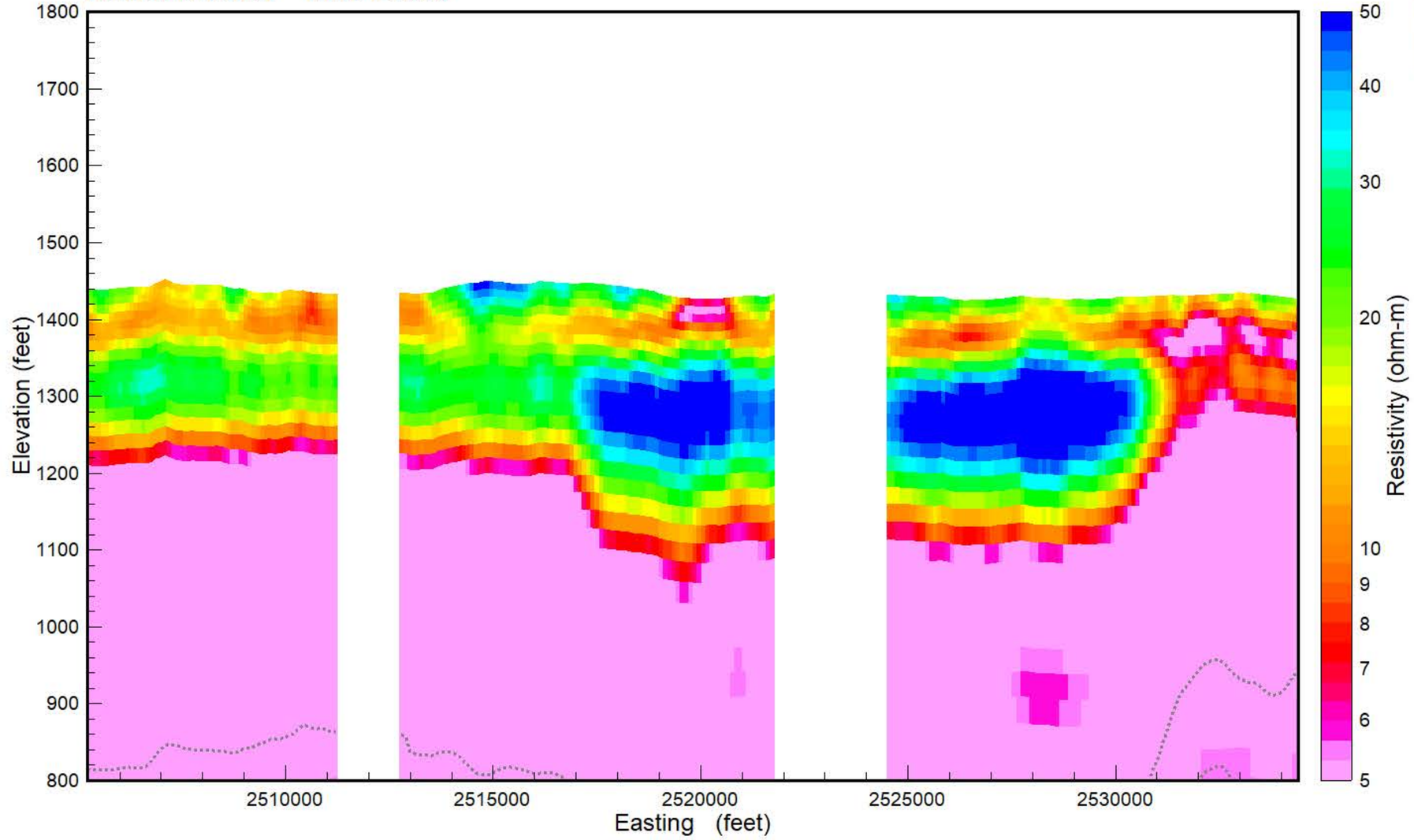
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GEOTECH
AGF Aqua Geo Frameworks

Flight Path Line L5840

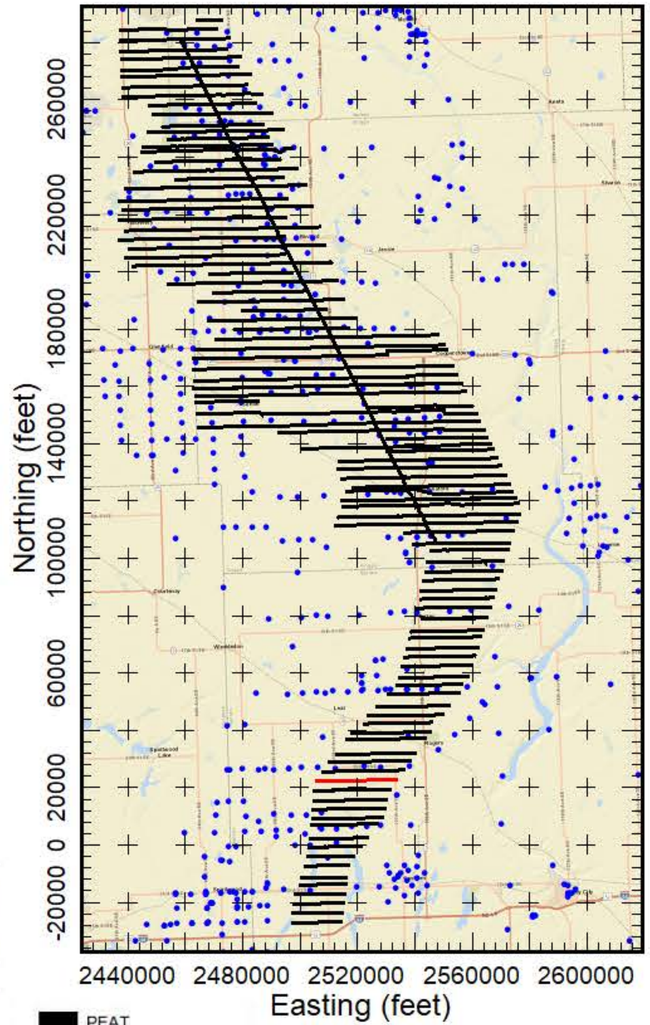


AEM Inversion Line L5840



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Be Legendary.

Flight Area Griggs

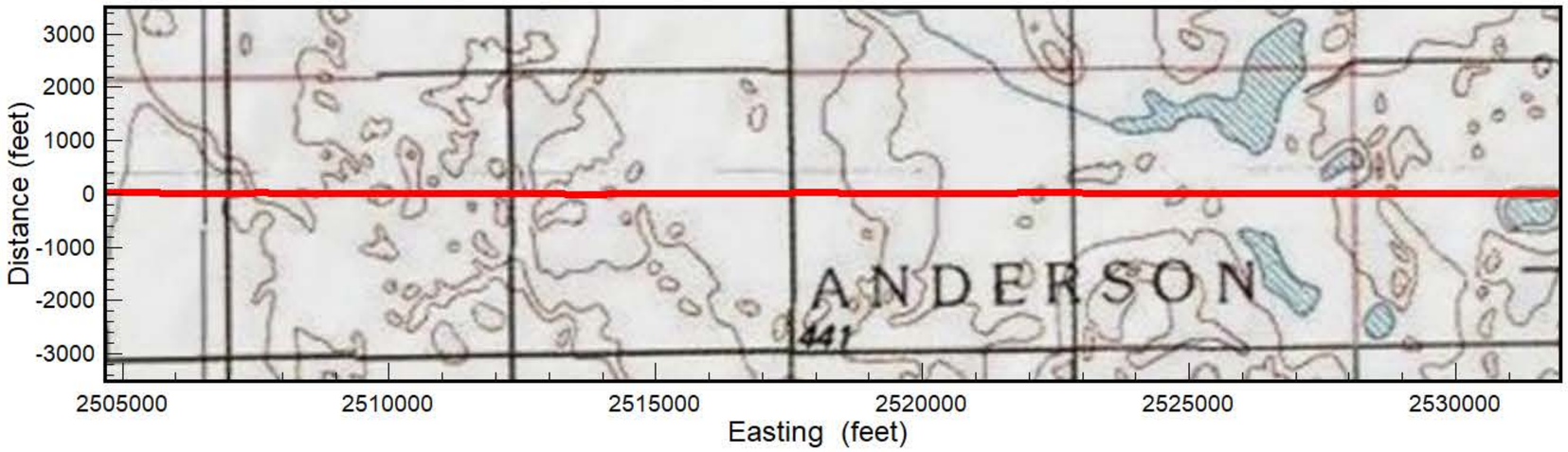


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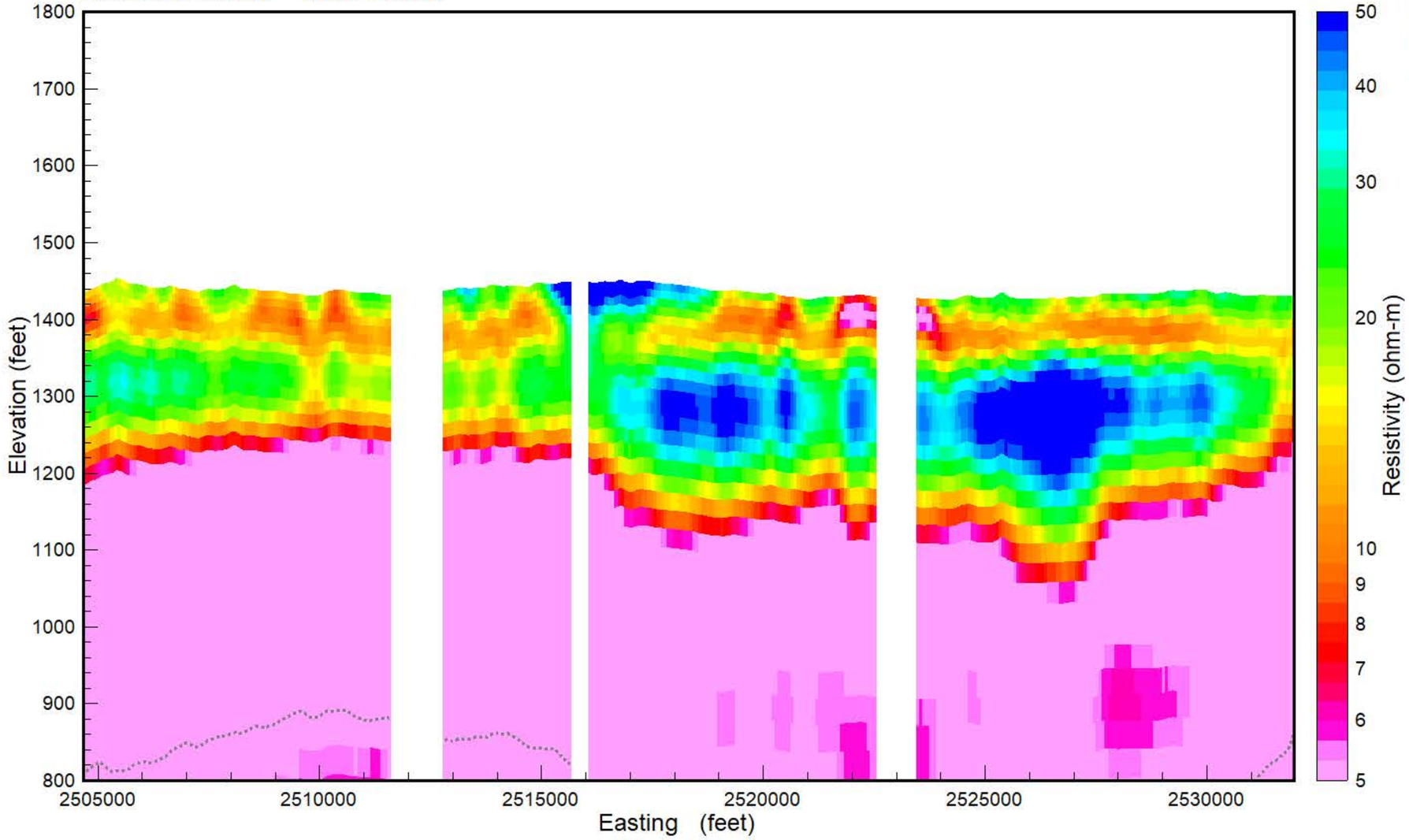
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Flight Path Line L5851

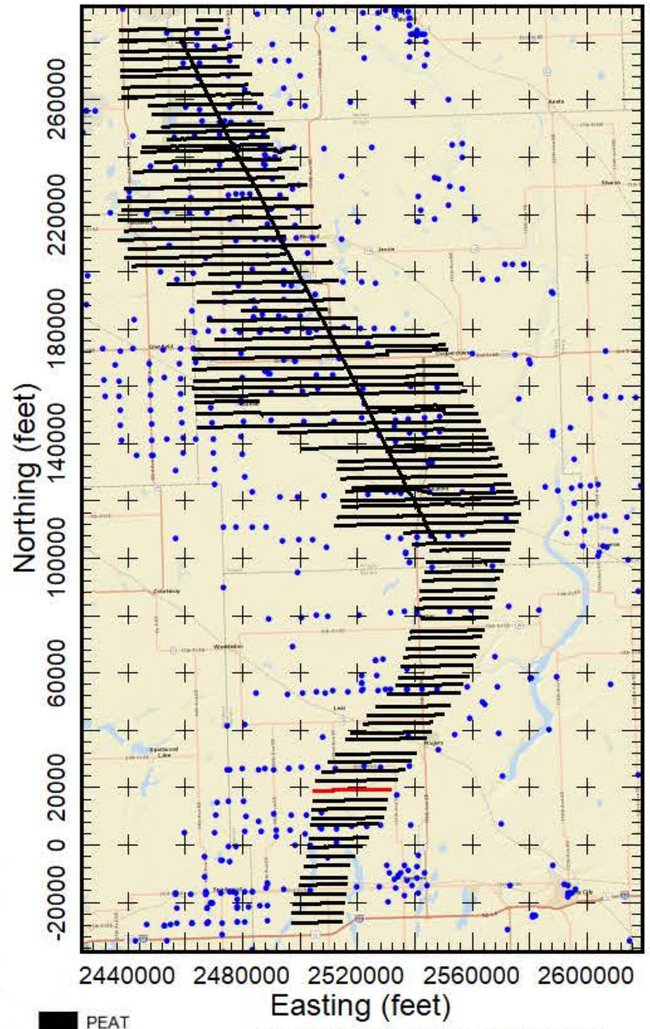


AEM Inversion Line L5851



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Flight Area Griggs

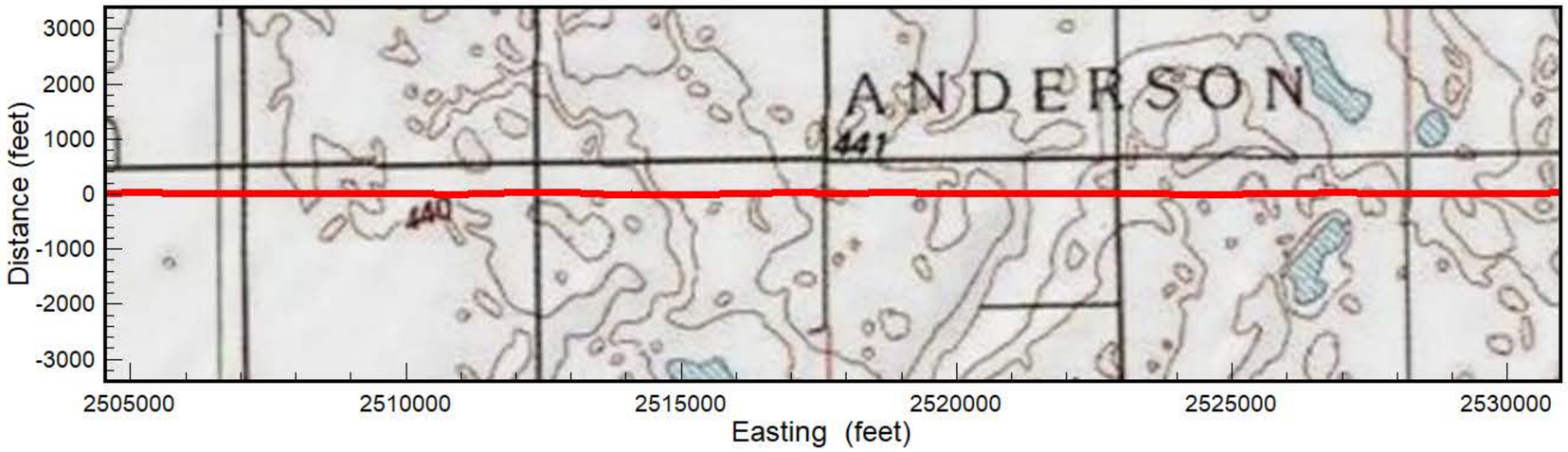




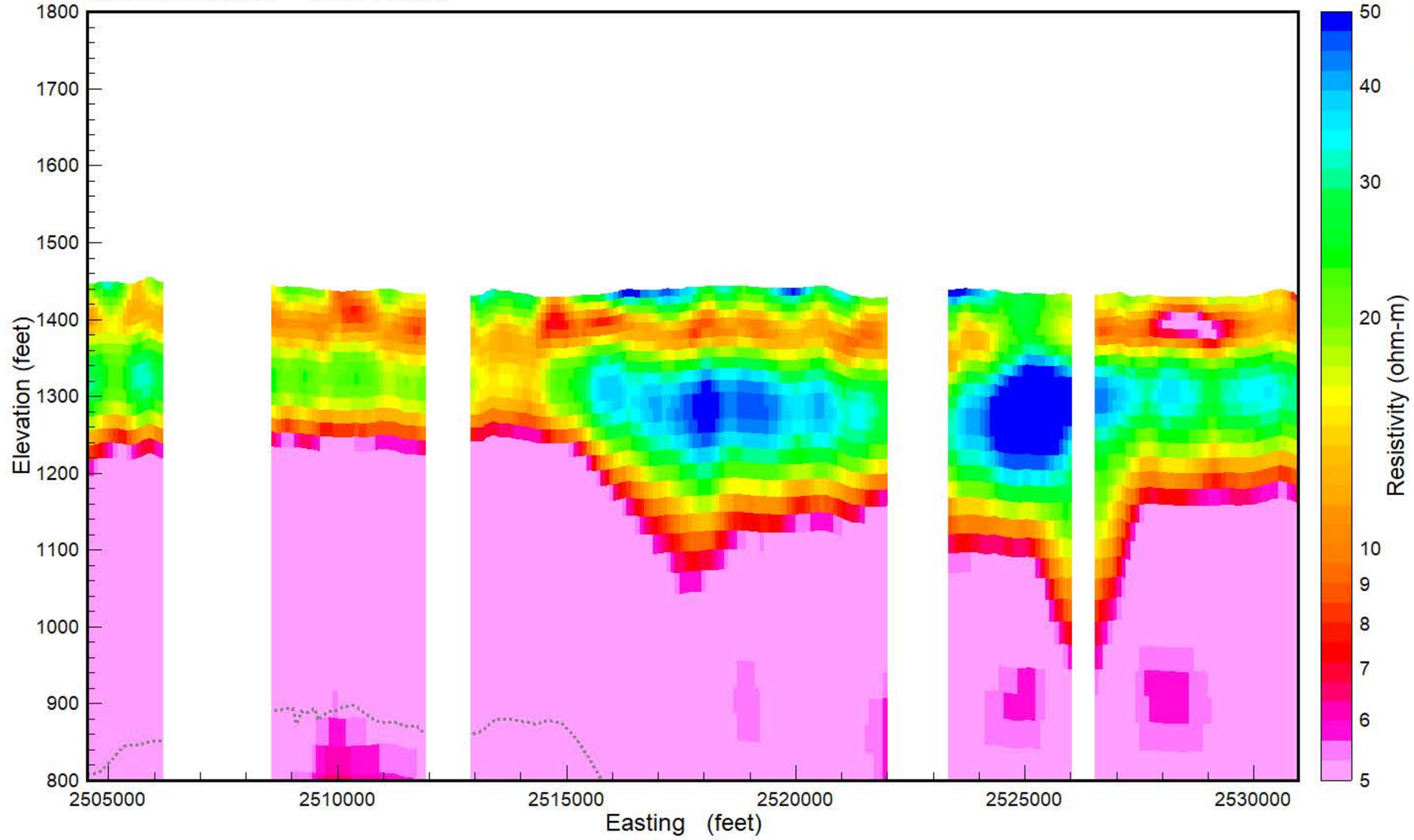
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Flight Path Line L5860

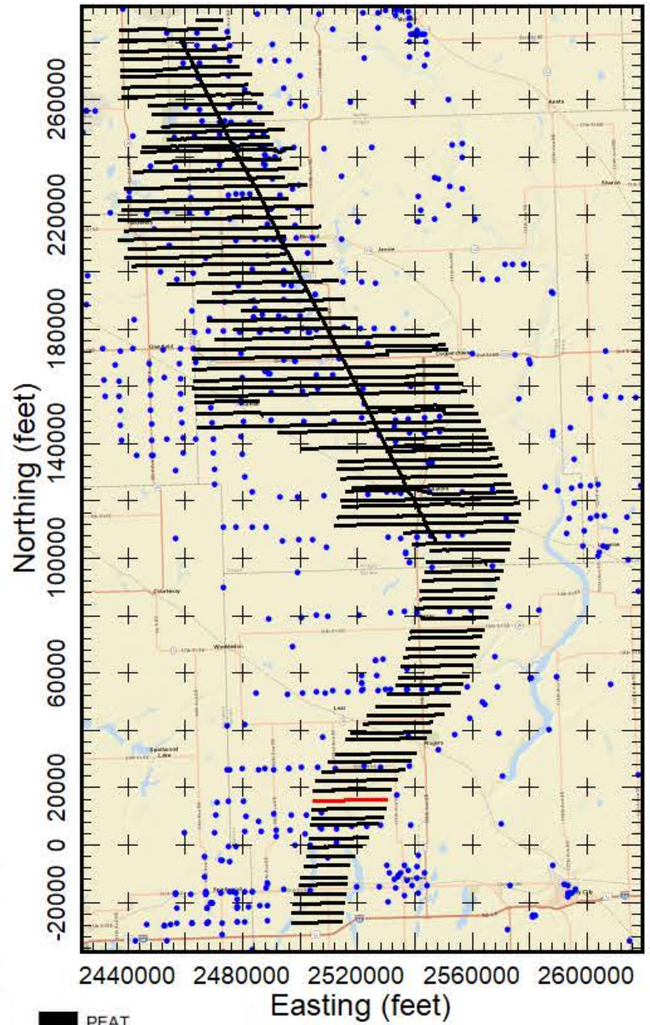


AEM Inversion Line L5860



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Be Legendary.

Flight Area Griggs

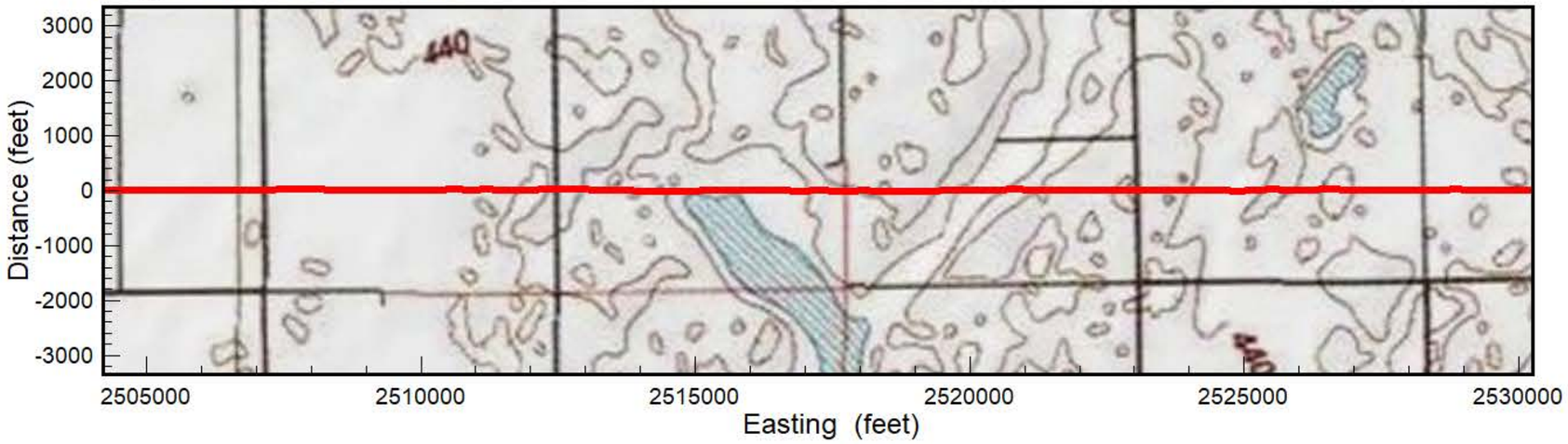


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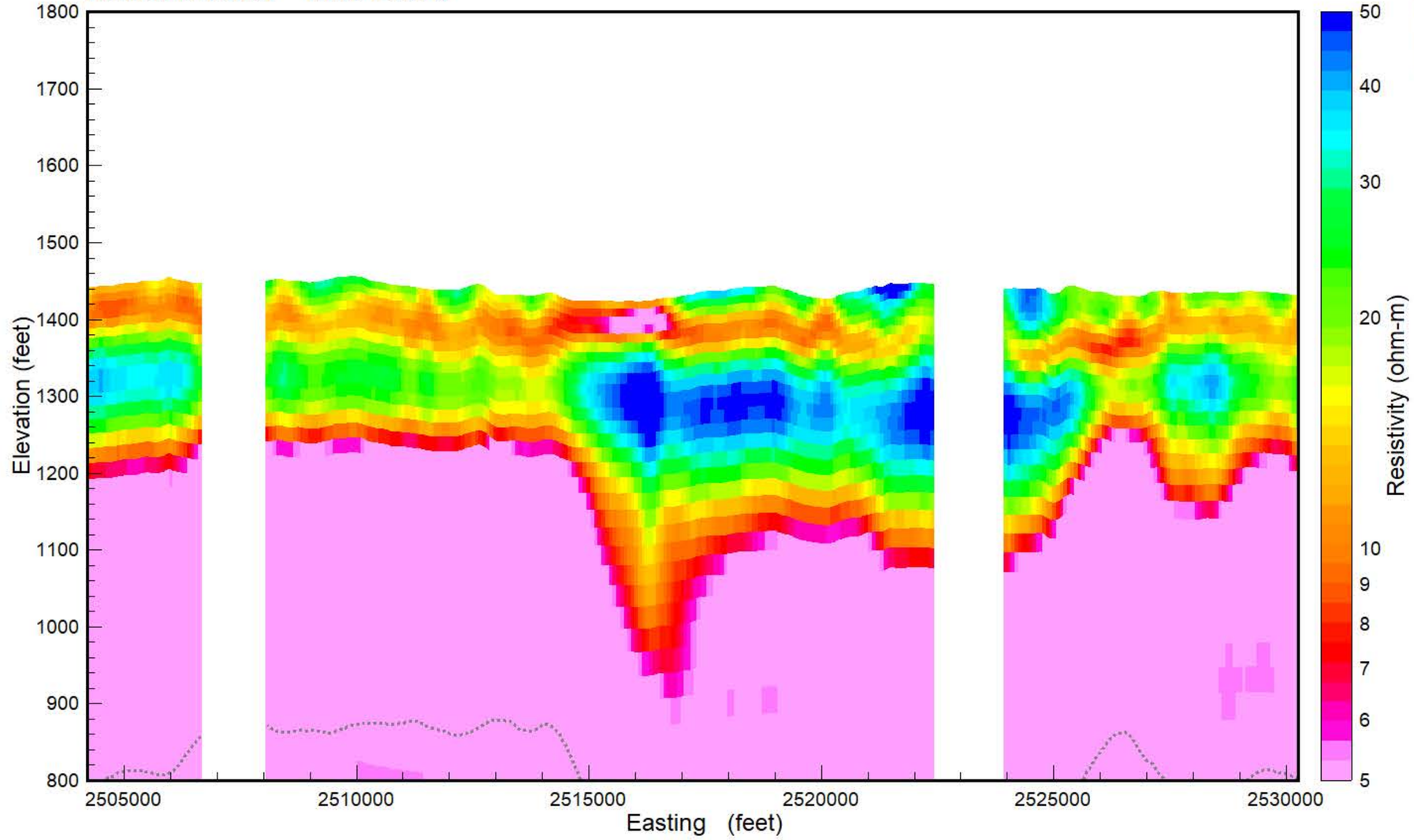
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Flight Path Line L5870

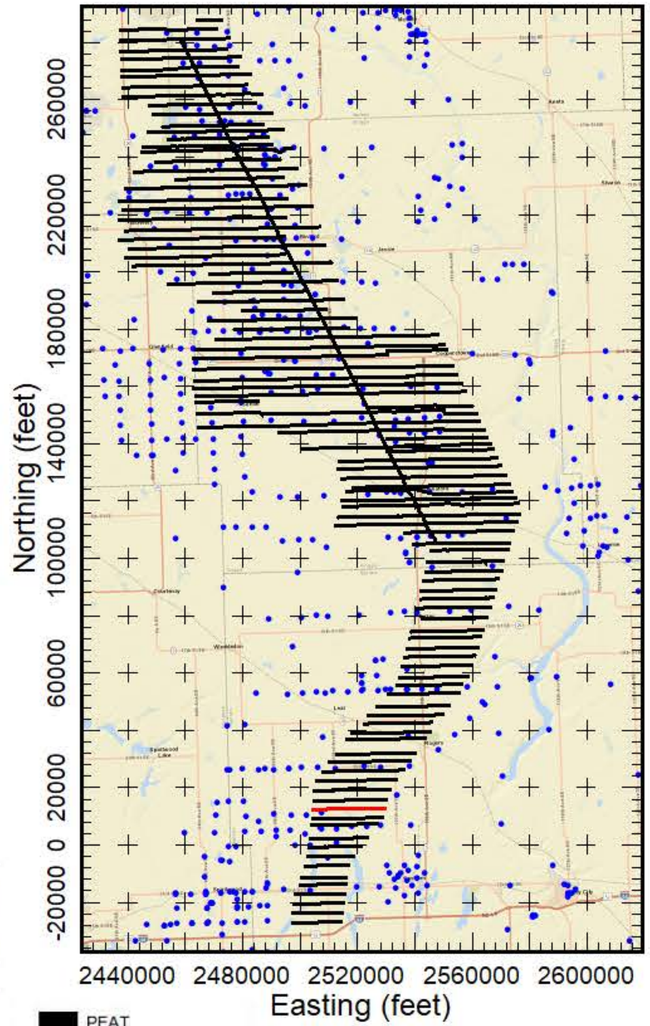


AEM Inversion Line L5870



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Be Legendary.

Flight Area Griggs

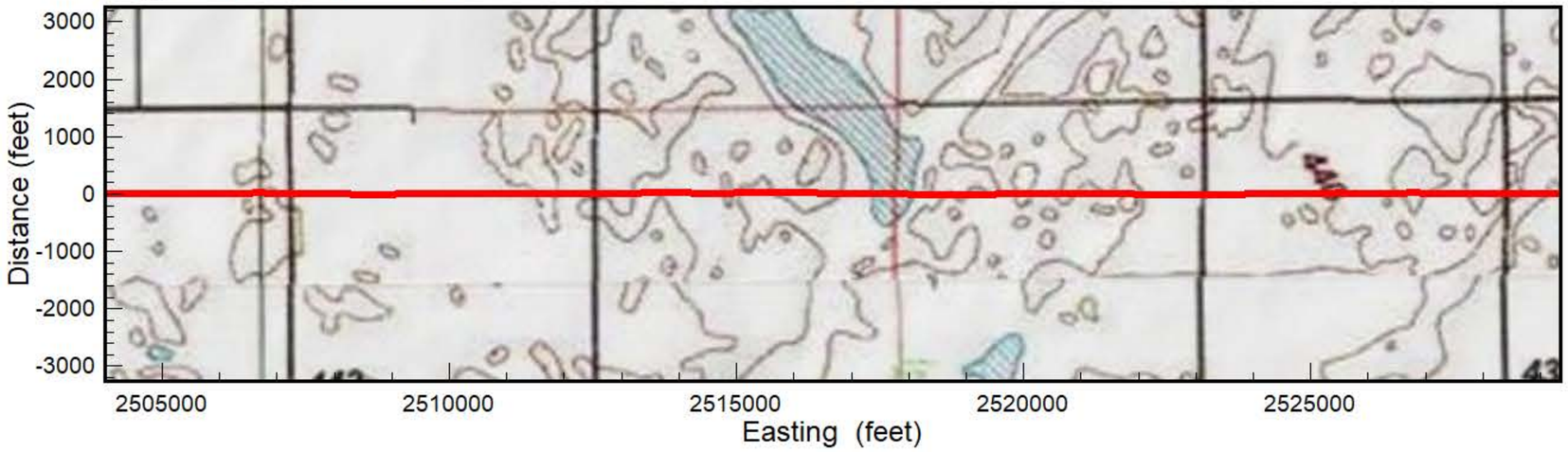


- PEAT
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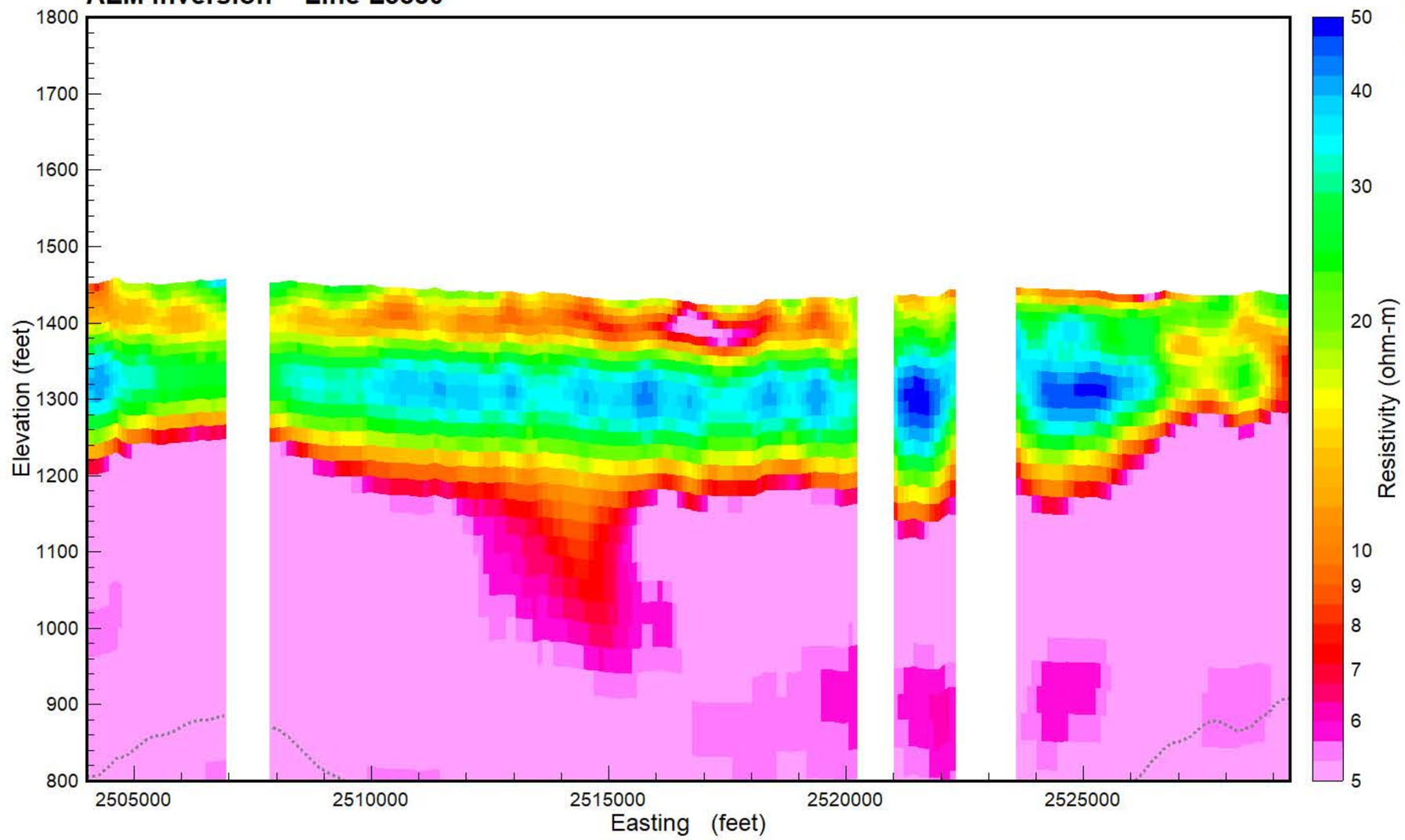
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5880

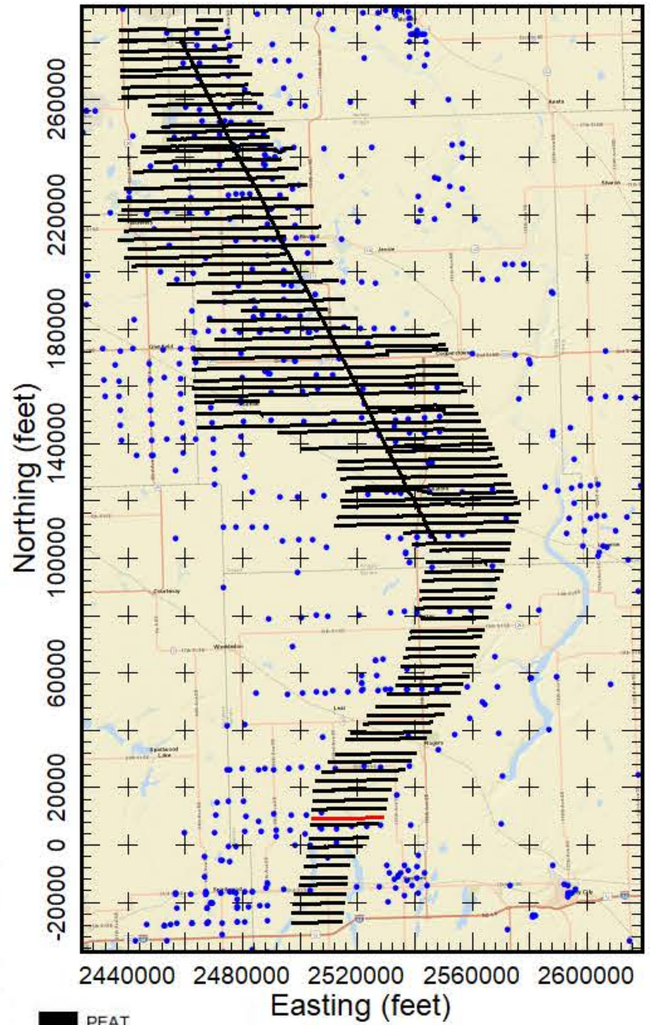


AEM Inversion Line L5880



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Be Legendary.

Flight Area Griggs

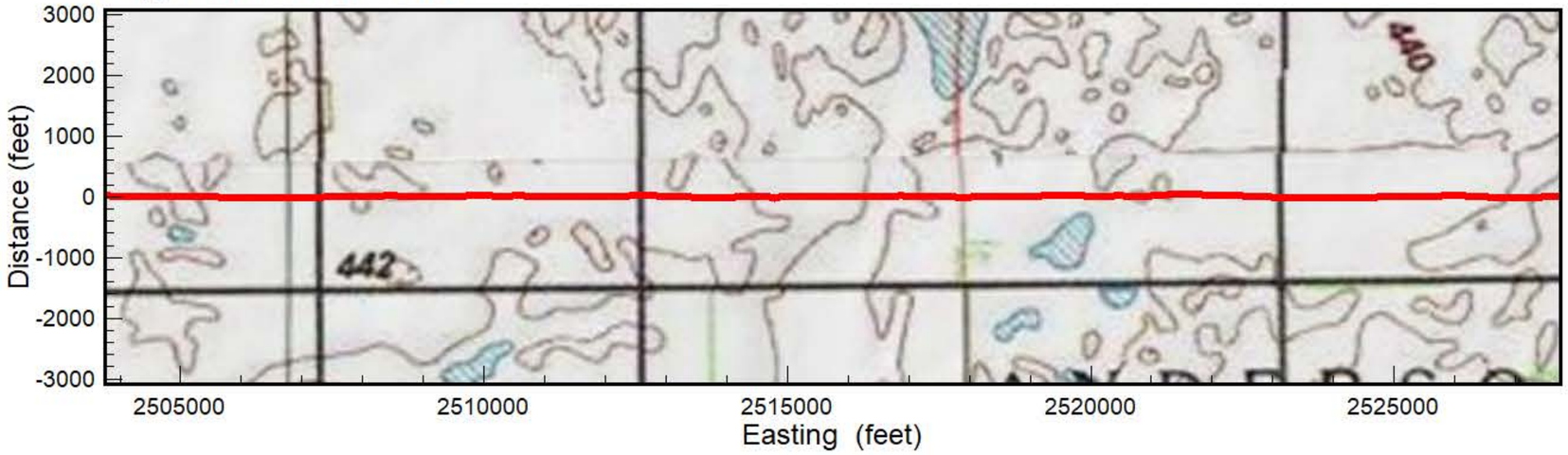


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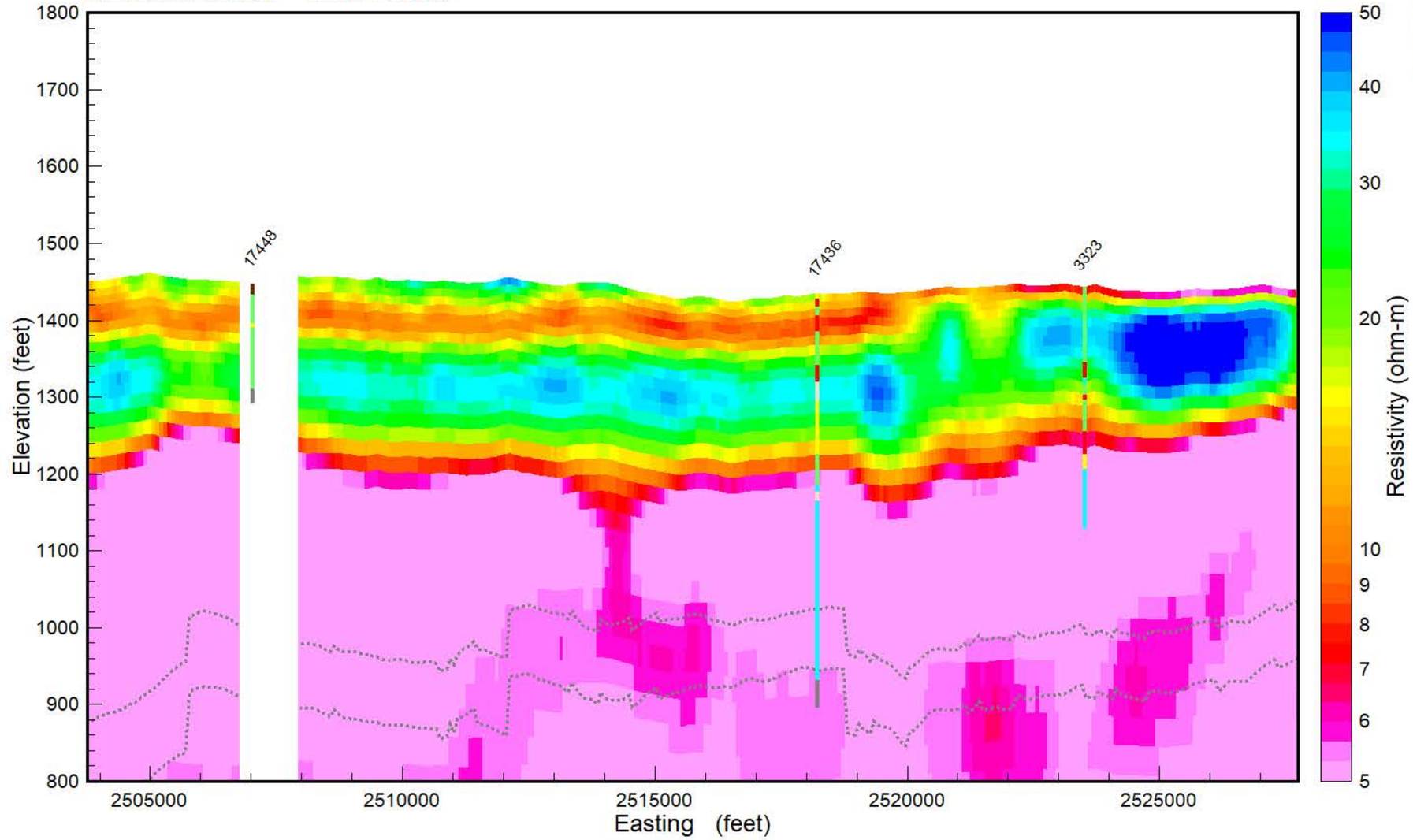
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Flight Path Line L5890

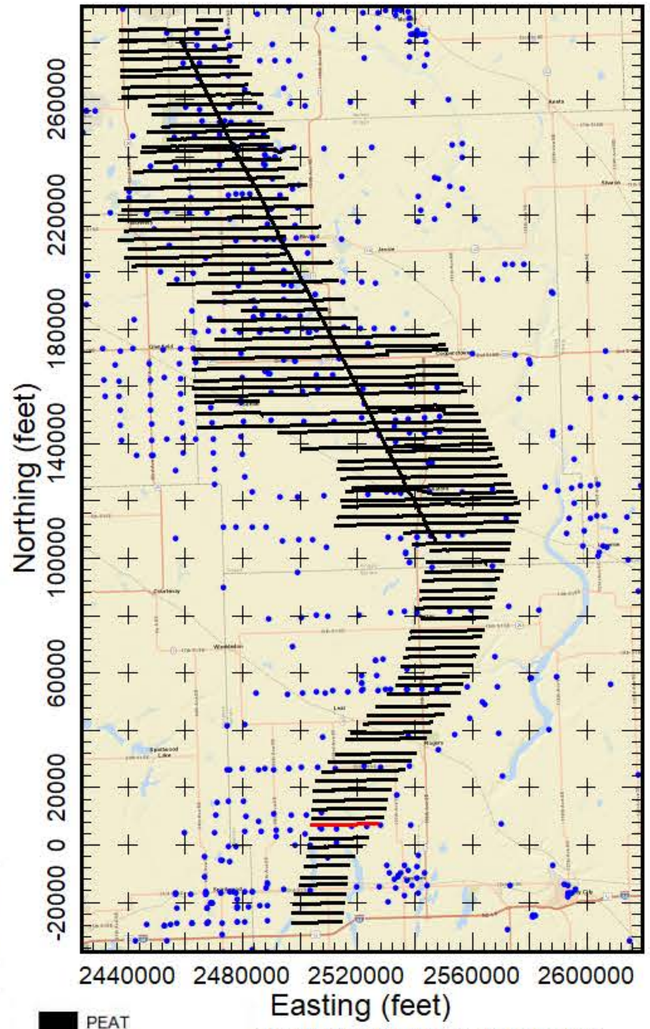


AEM Inversion Line L5890



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Flight Area Griggs

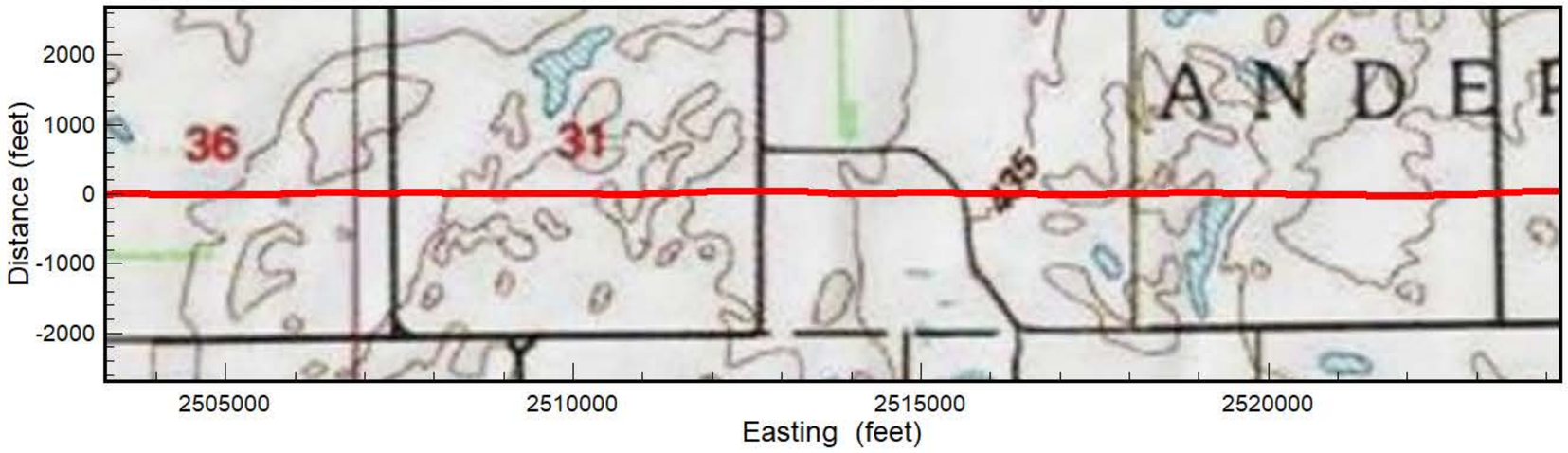


PEAT
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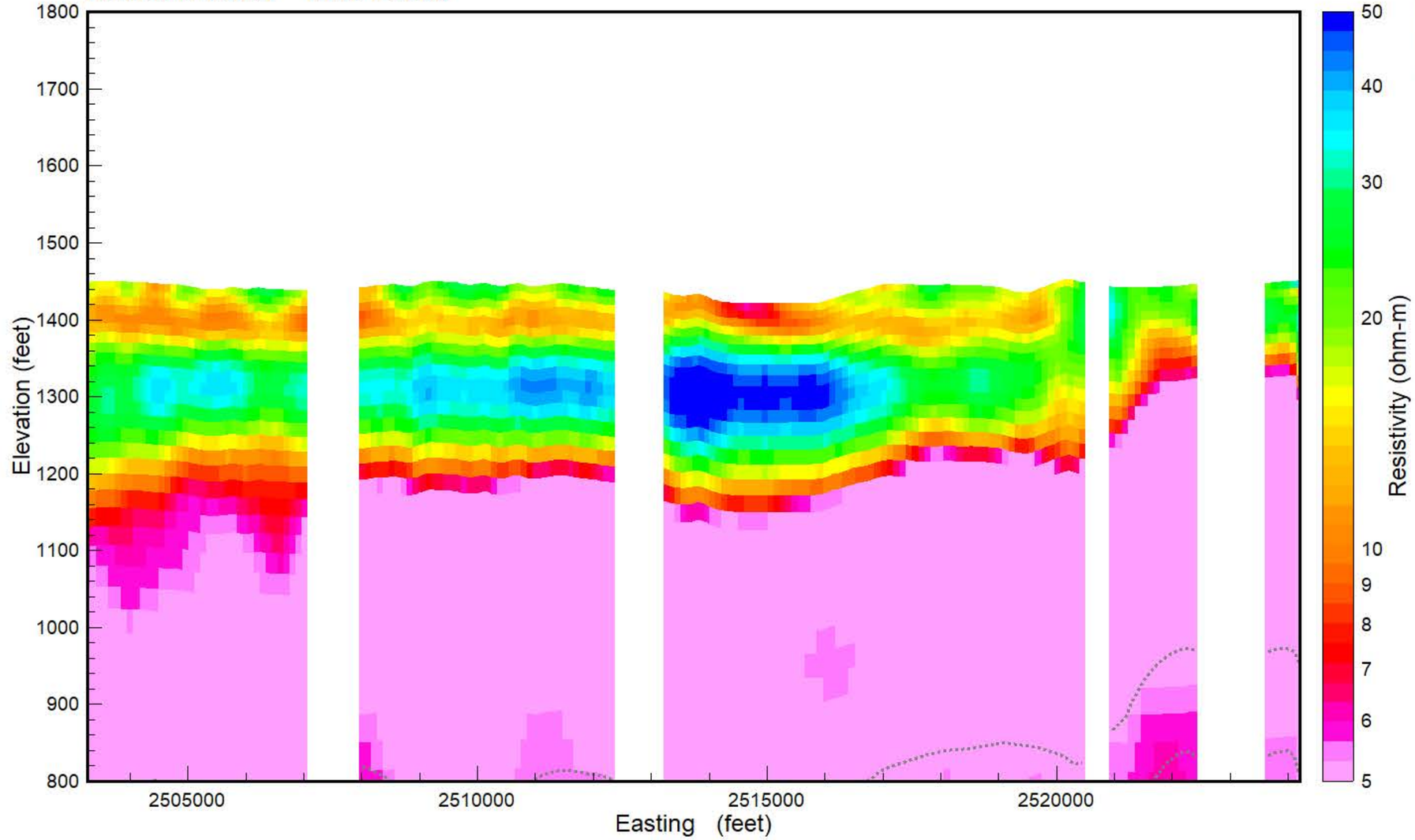
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5900

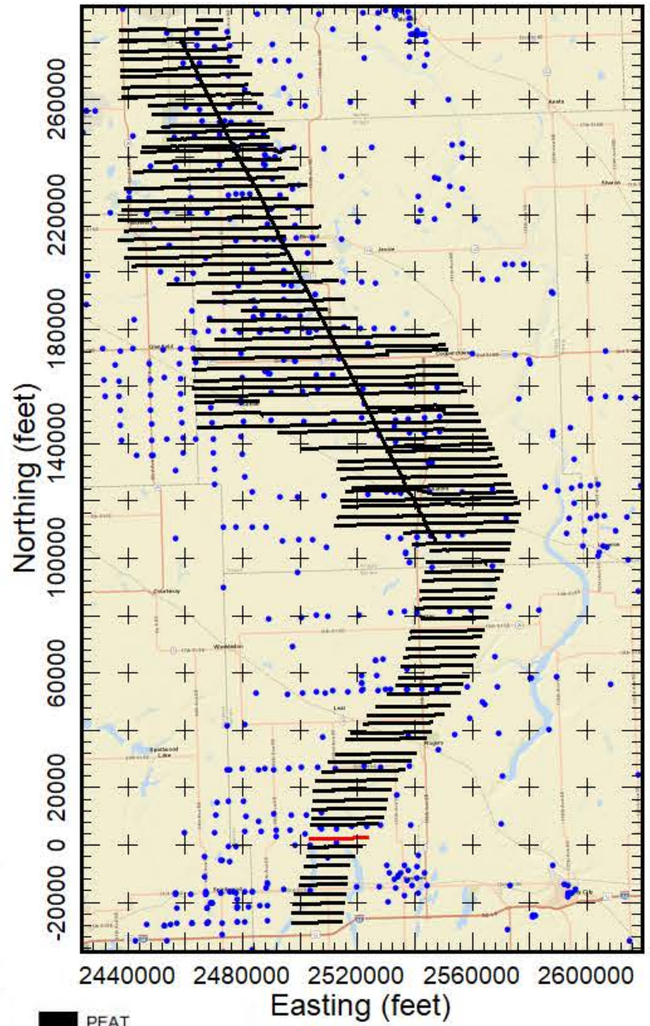


AEM Inversion Line L5900



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Be Legendary.

Flight Area Griggs

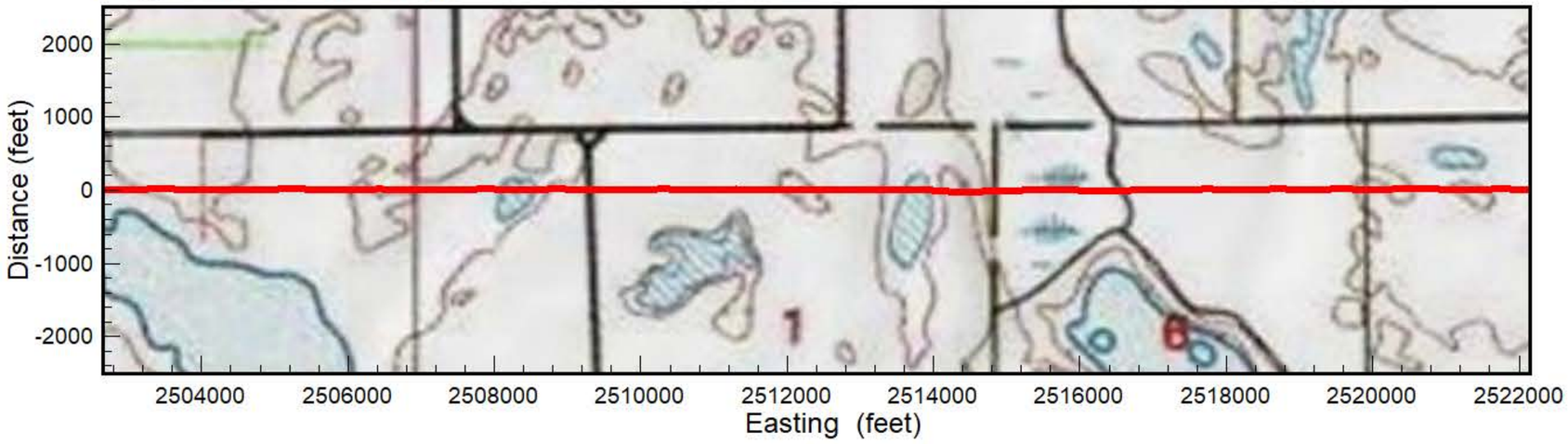


- PEAT
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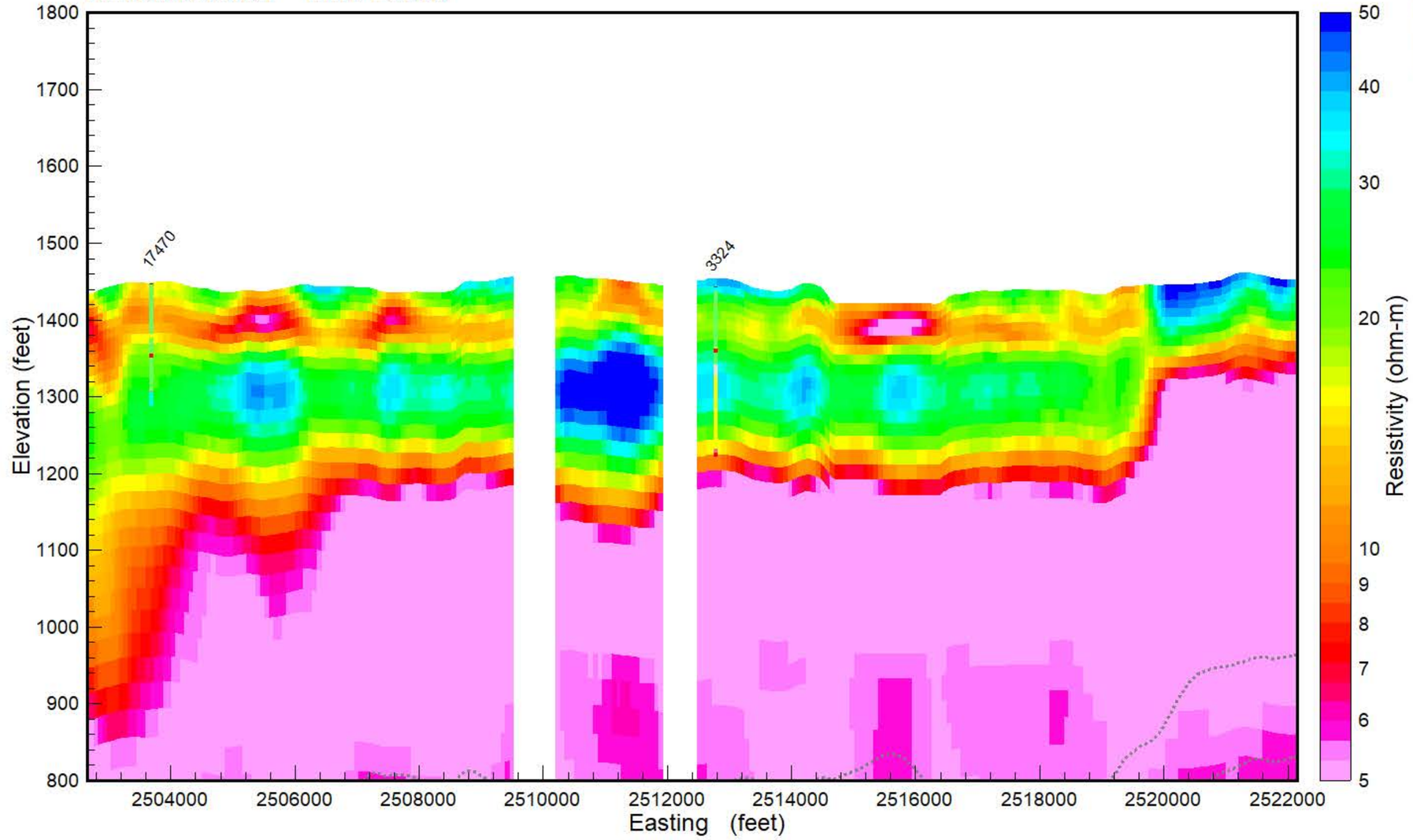
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5910

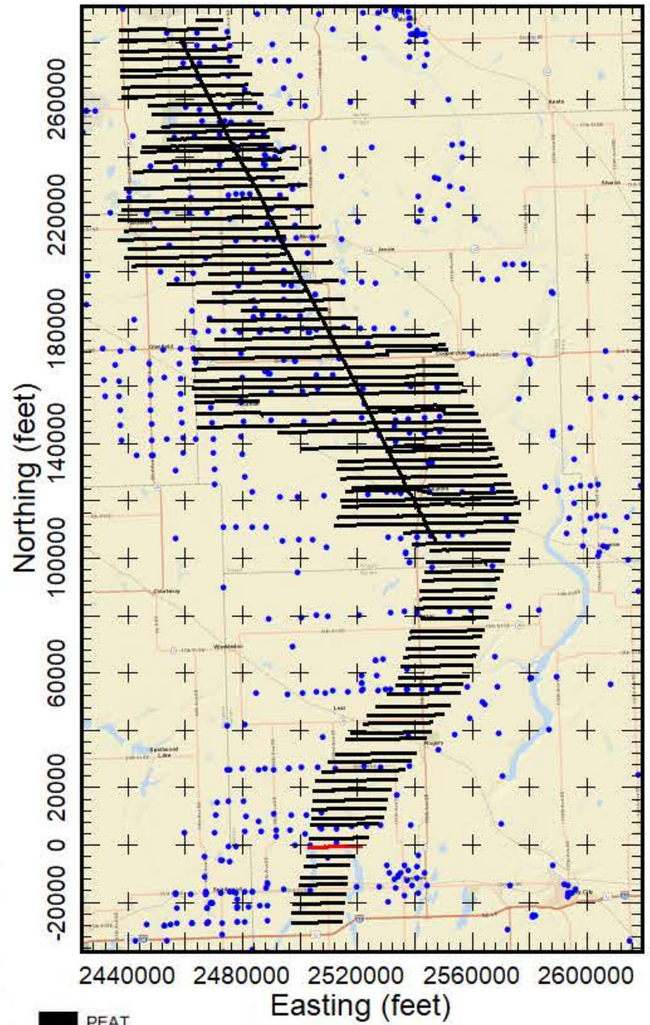


AEM Inversion Line L5910



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Be Legendary.

Flight Area Griggs

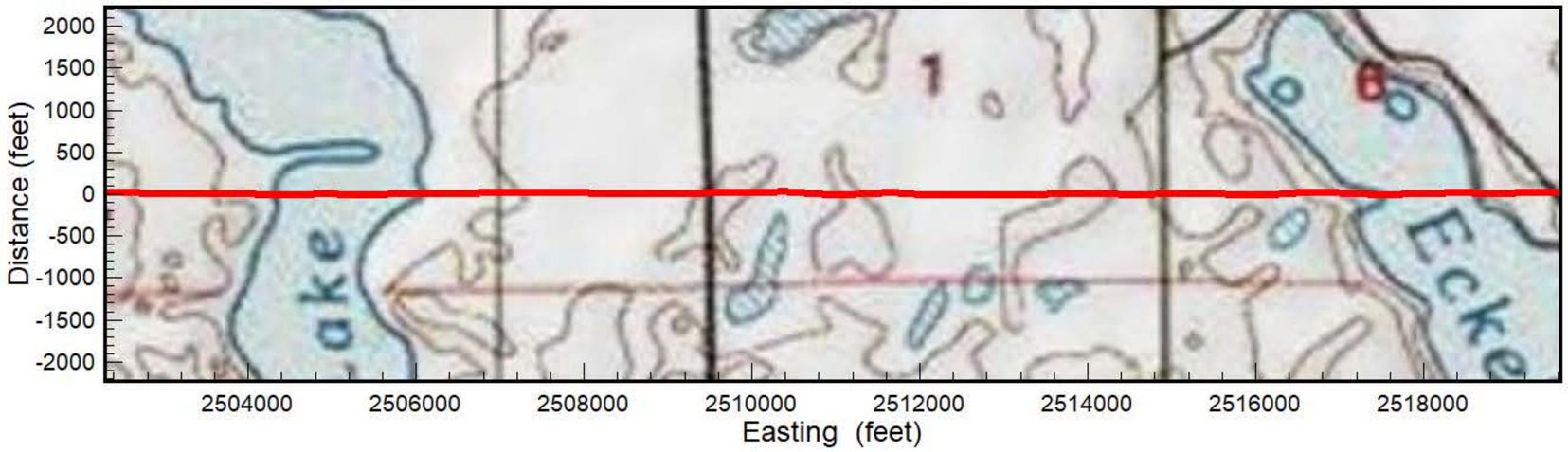


- PEAT
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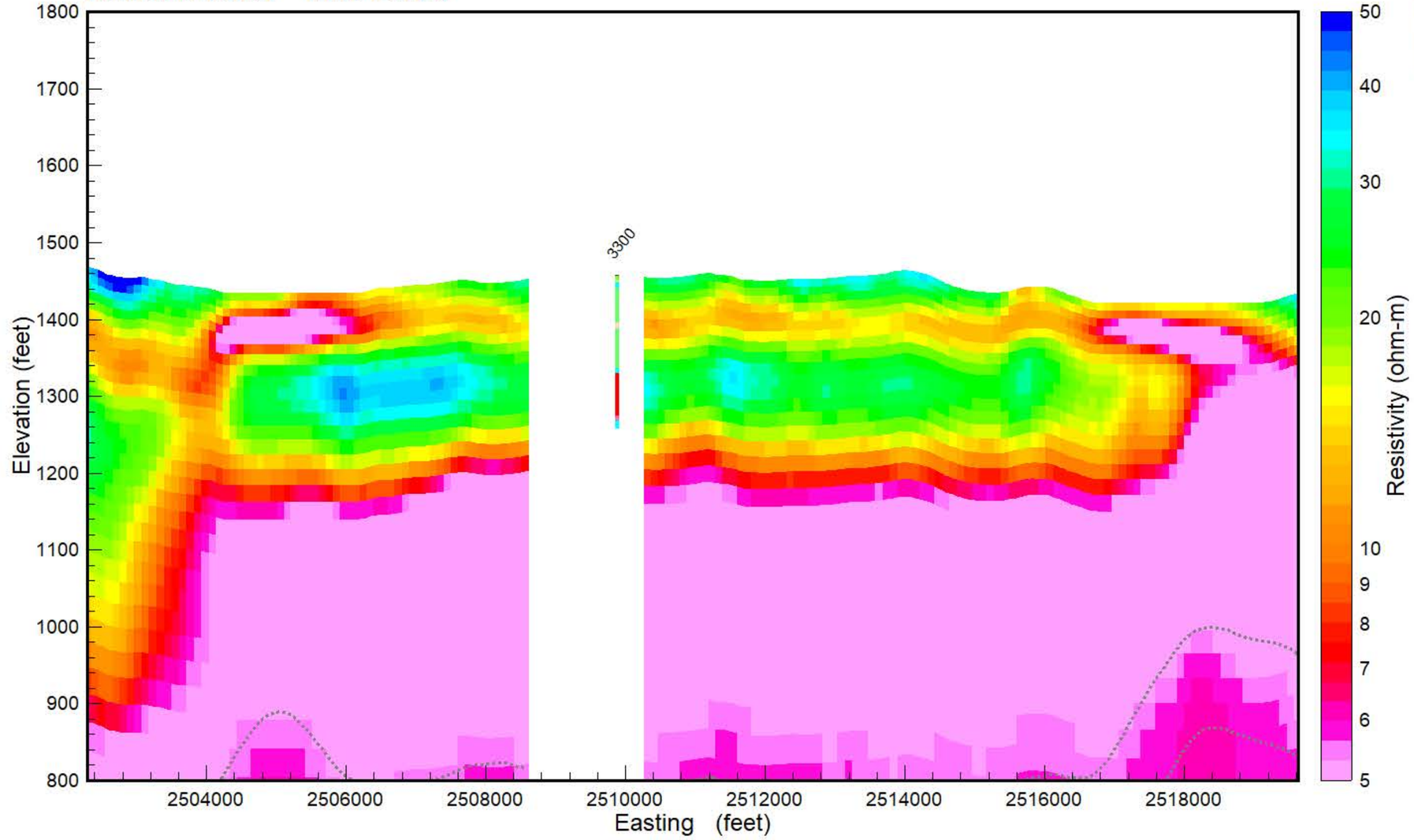
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Flight Path Line L5920

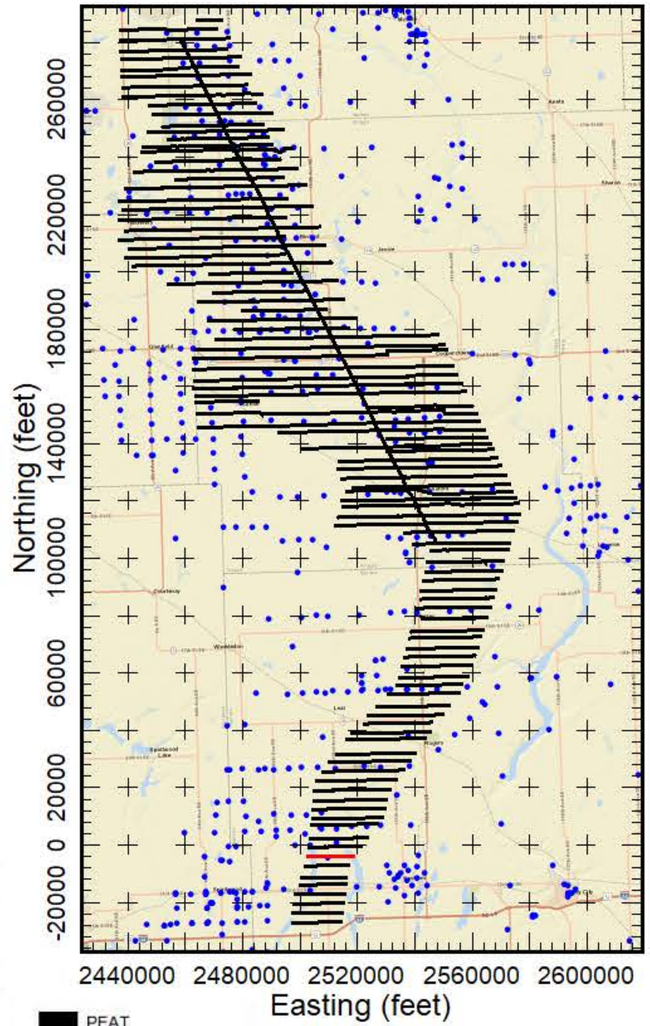


AEM Inversion Line L5920



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Flight Area Griggs

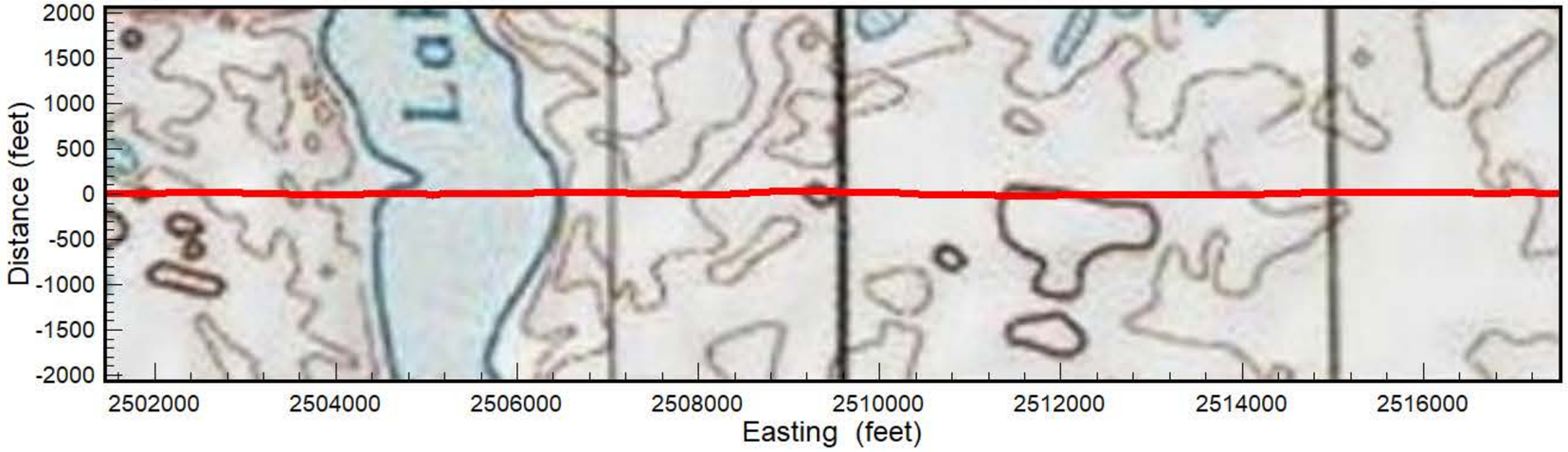


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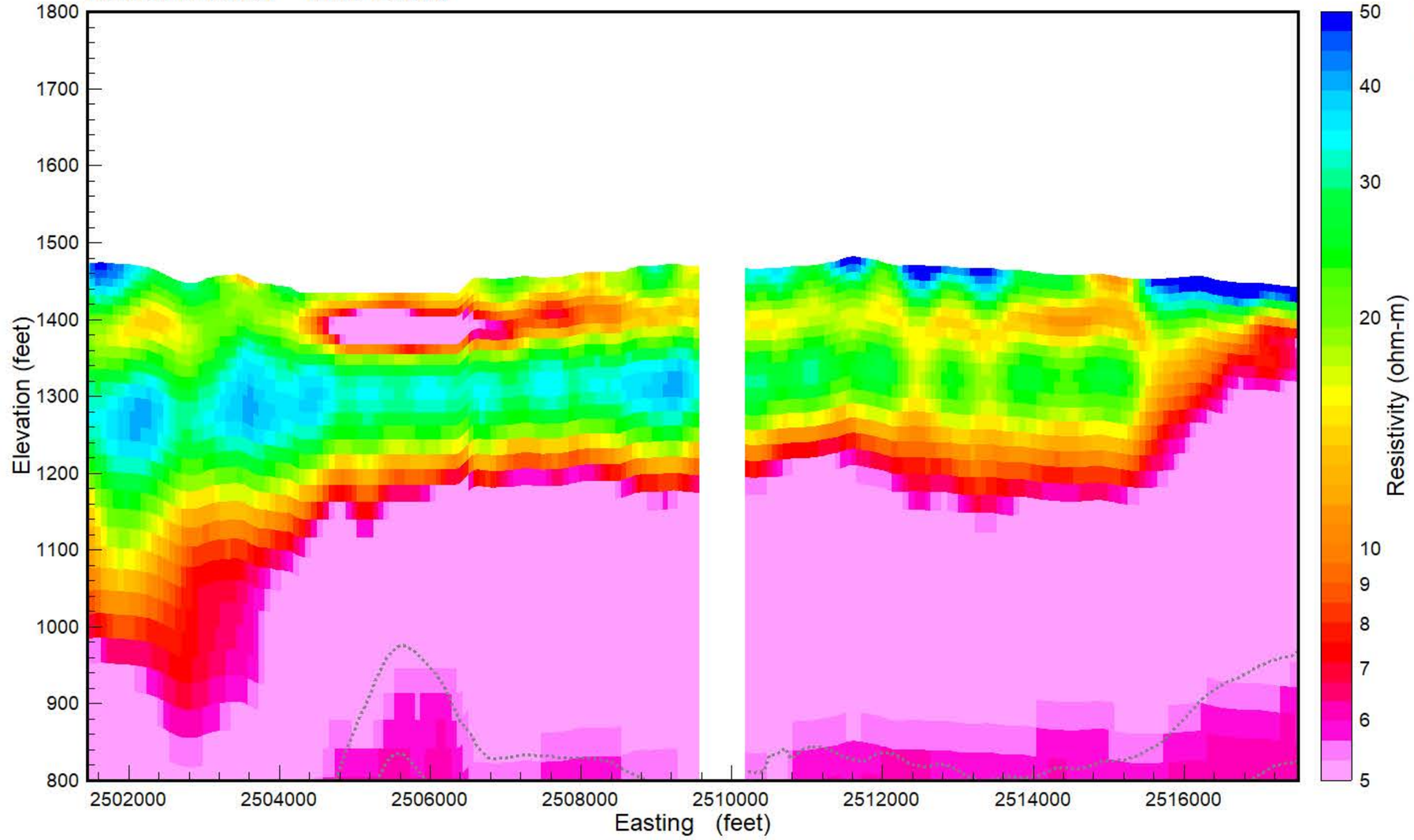
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Flight Path Line L5930

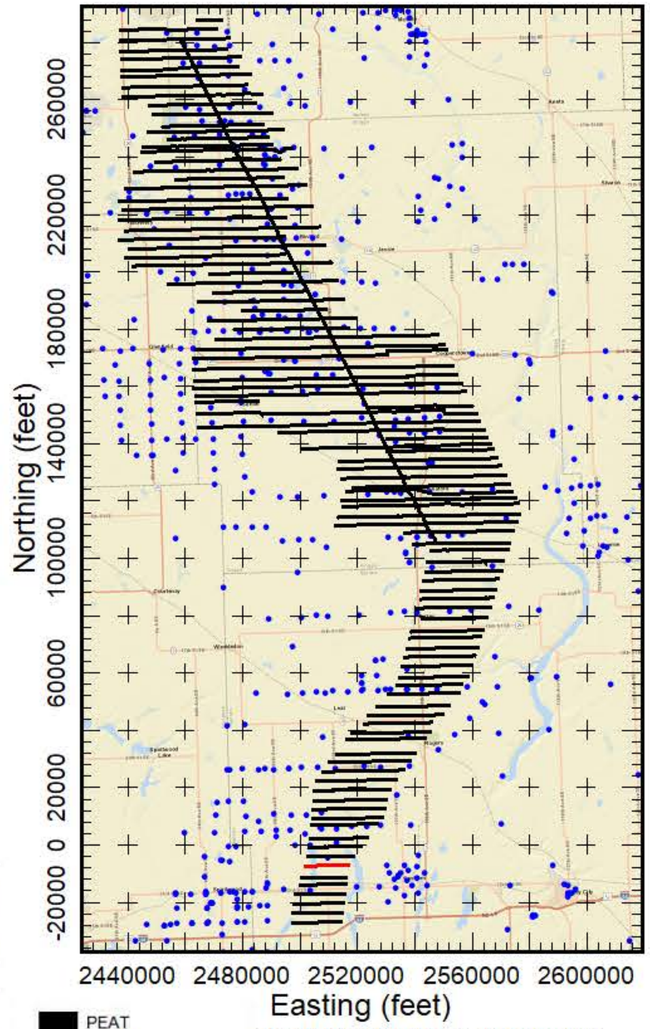


AEM Inversion Line L5930



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Flight Area Griggs

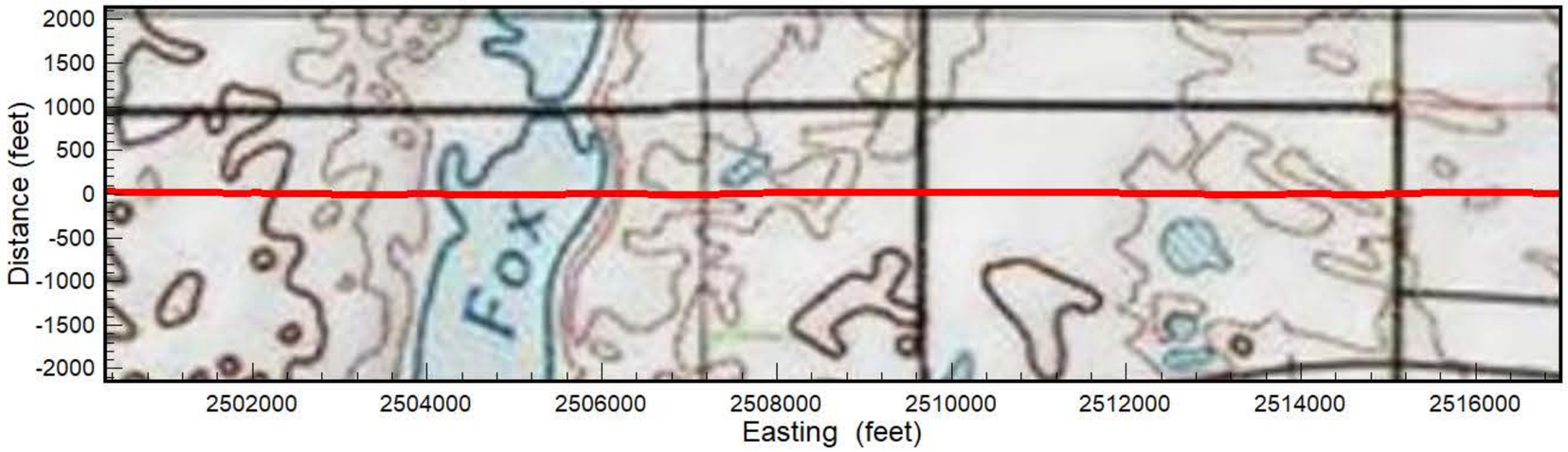


PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

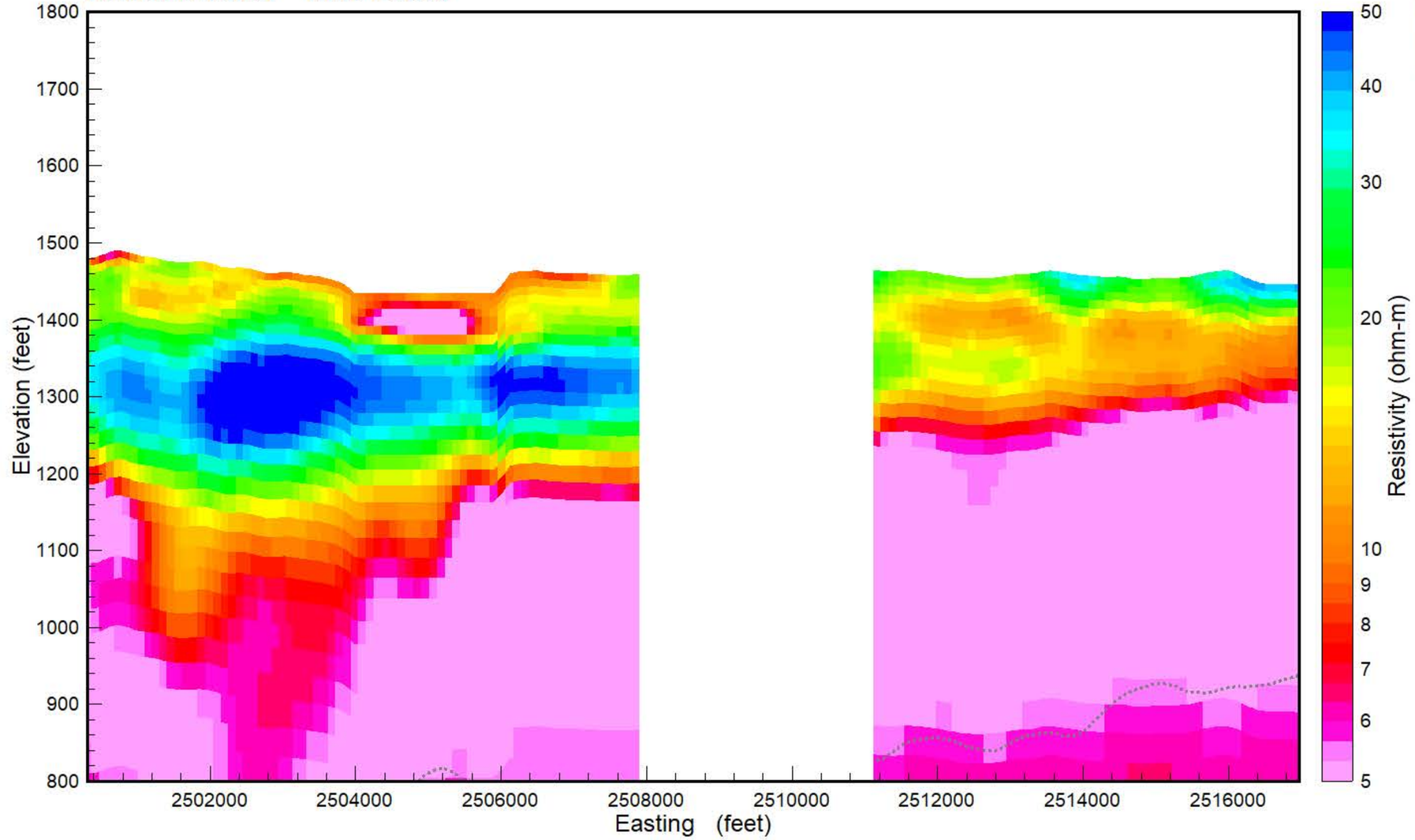
Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5940

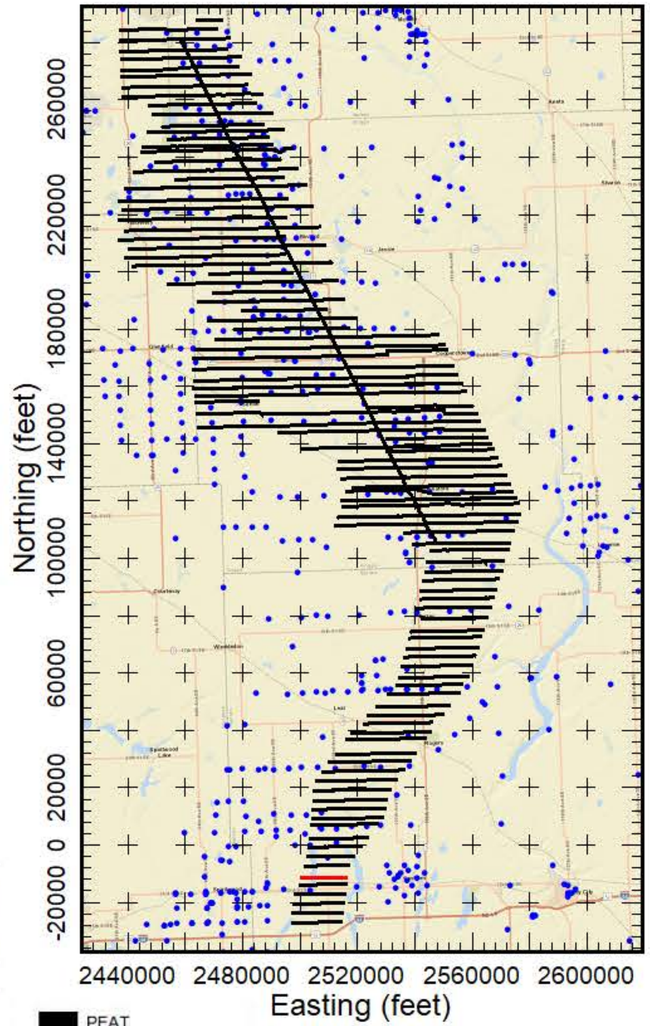


AEM Inversion Line L5940



NORTH Dakota | Water Commission & State Engineer

Flight Area Griggs

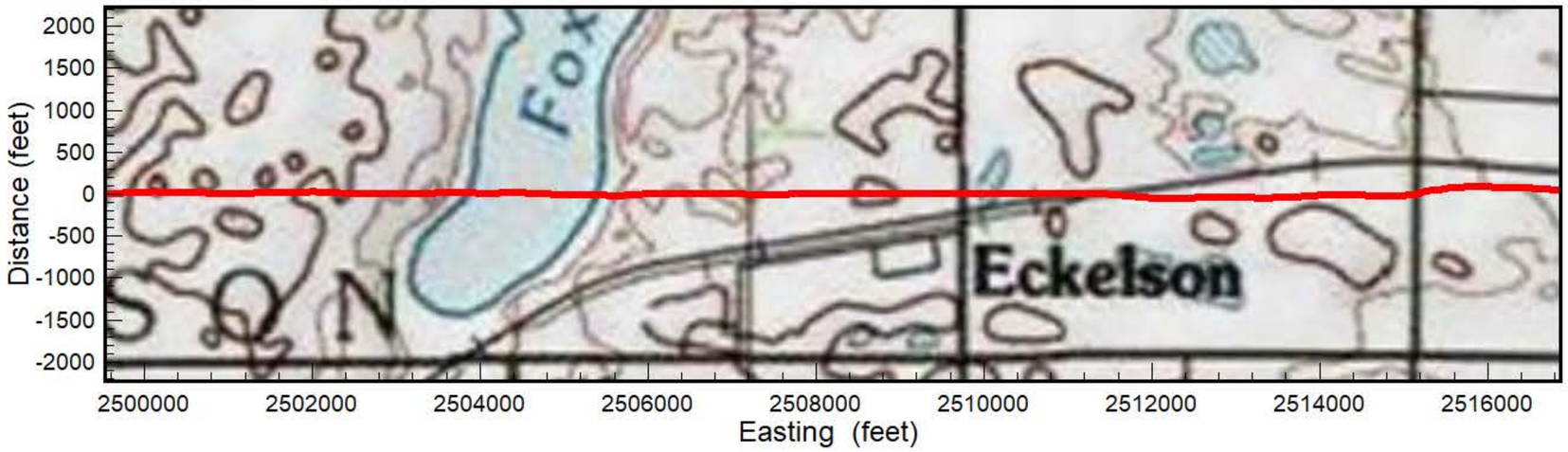


PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

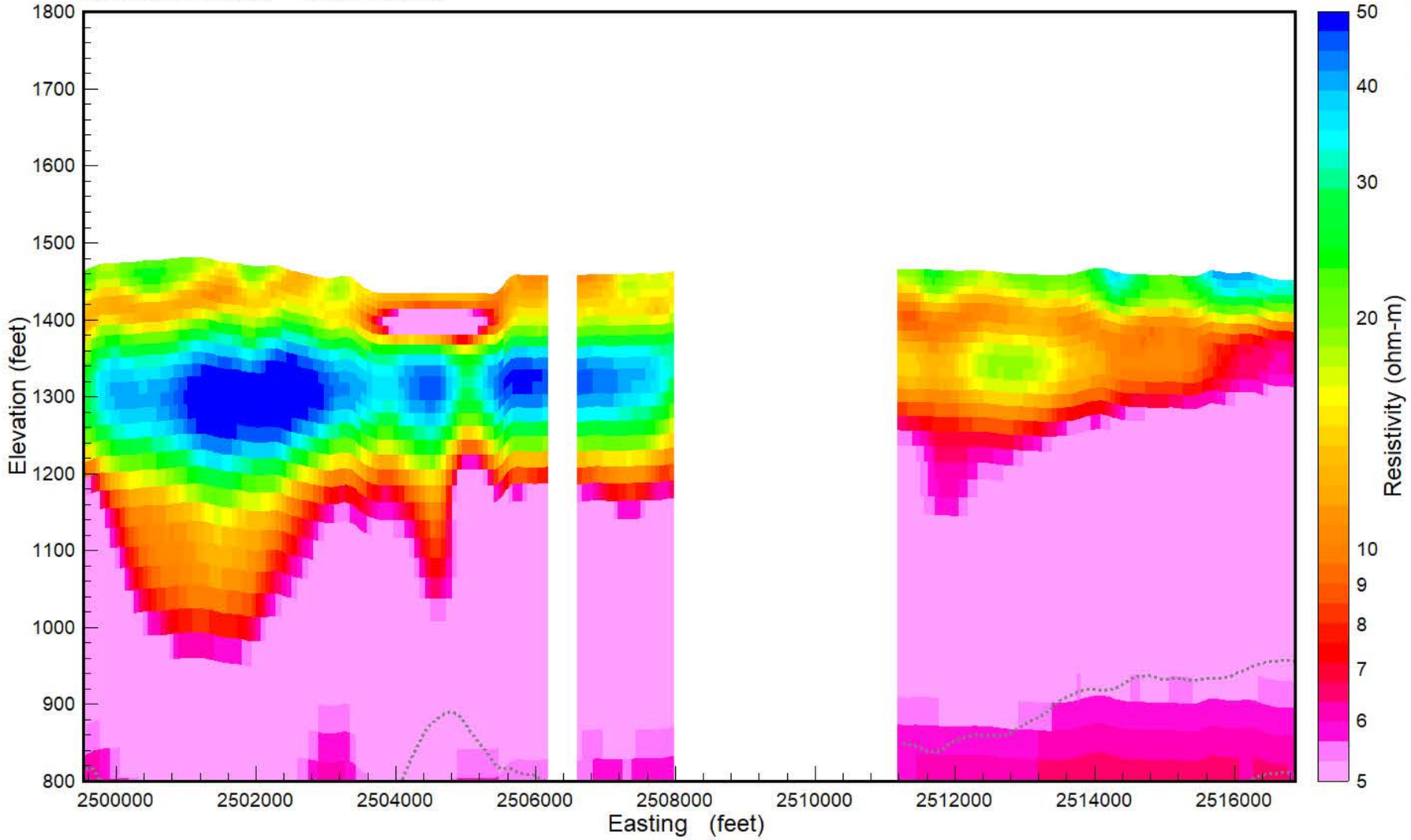
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5950

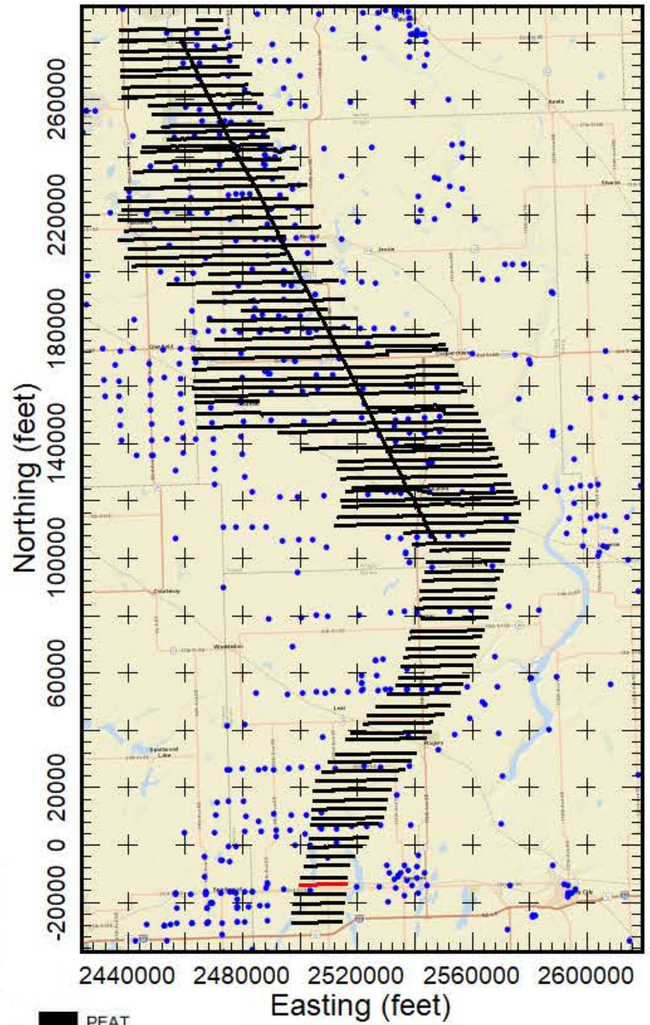


AEM Inversion Line L5950



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

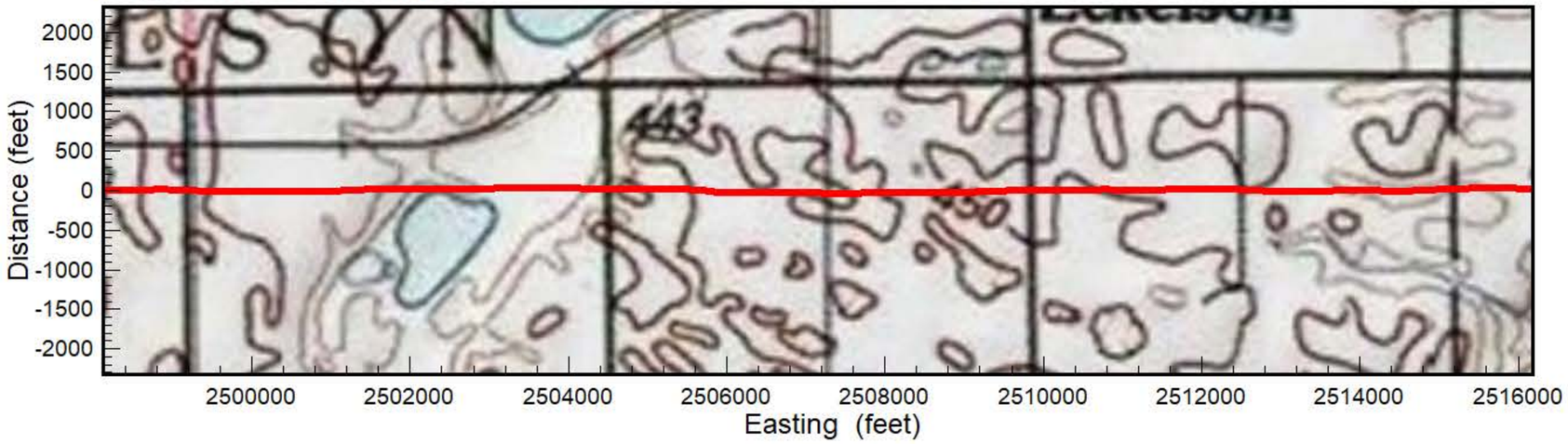


PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

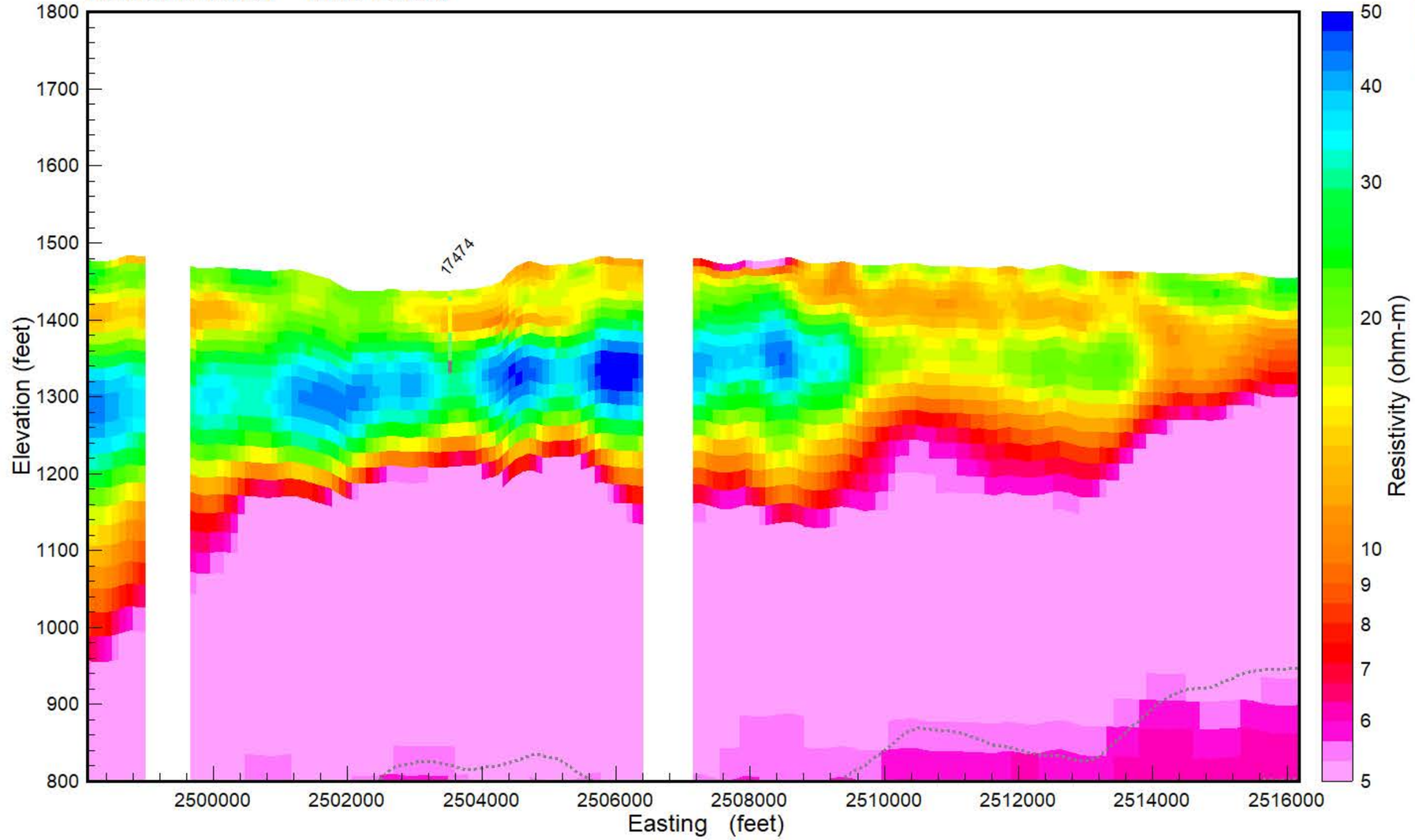
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5960

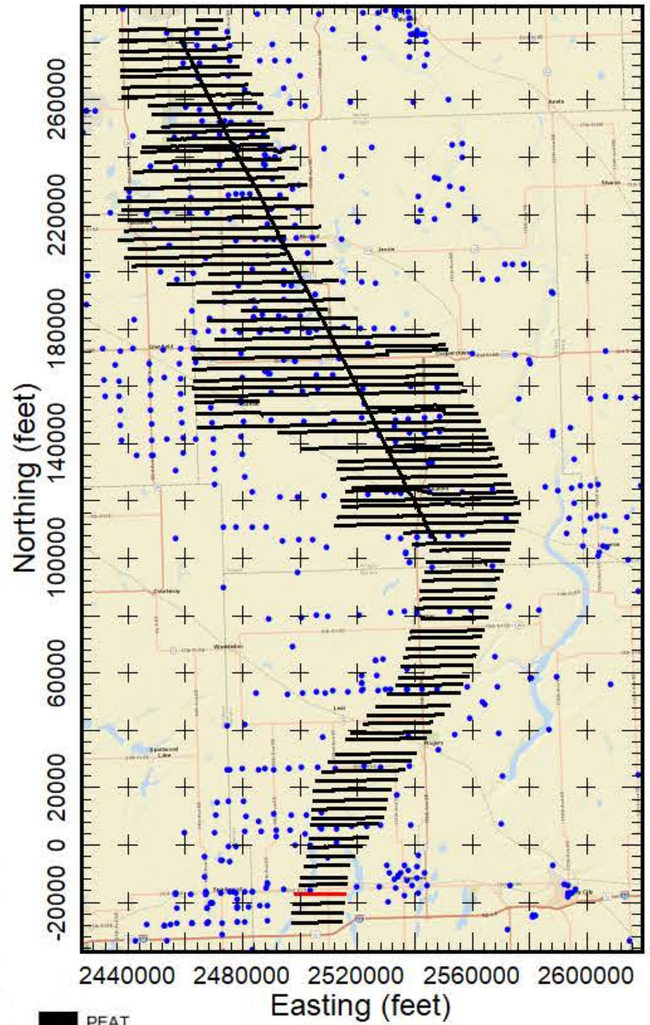


AEM Inversion Line L5960



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

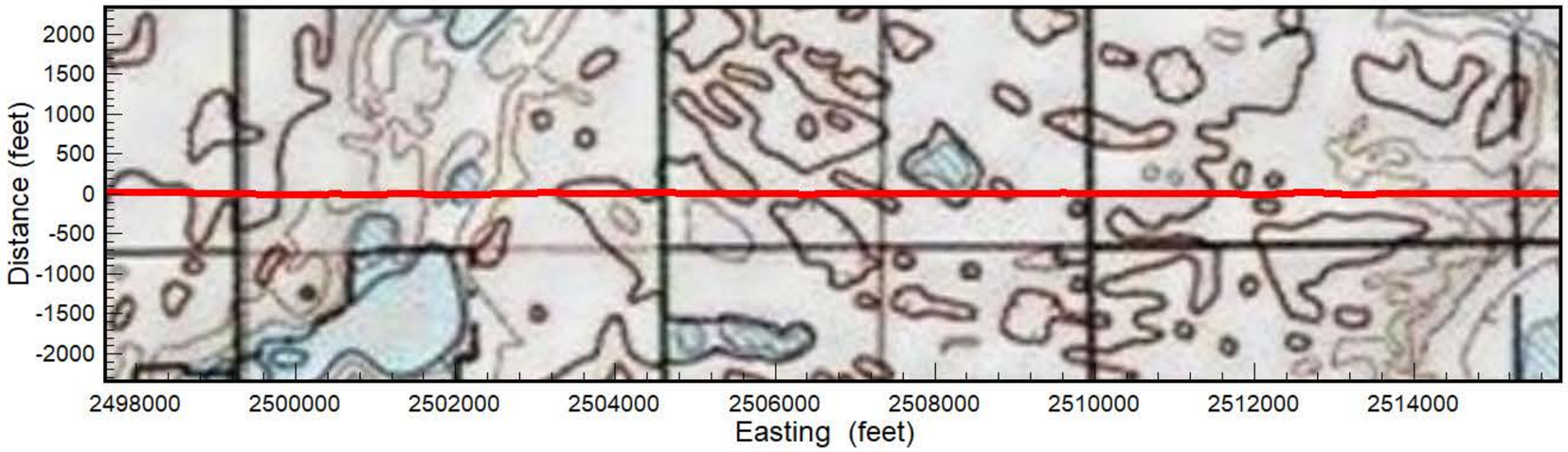


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

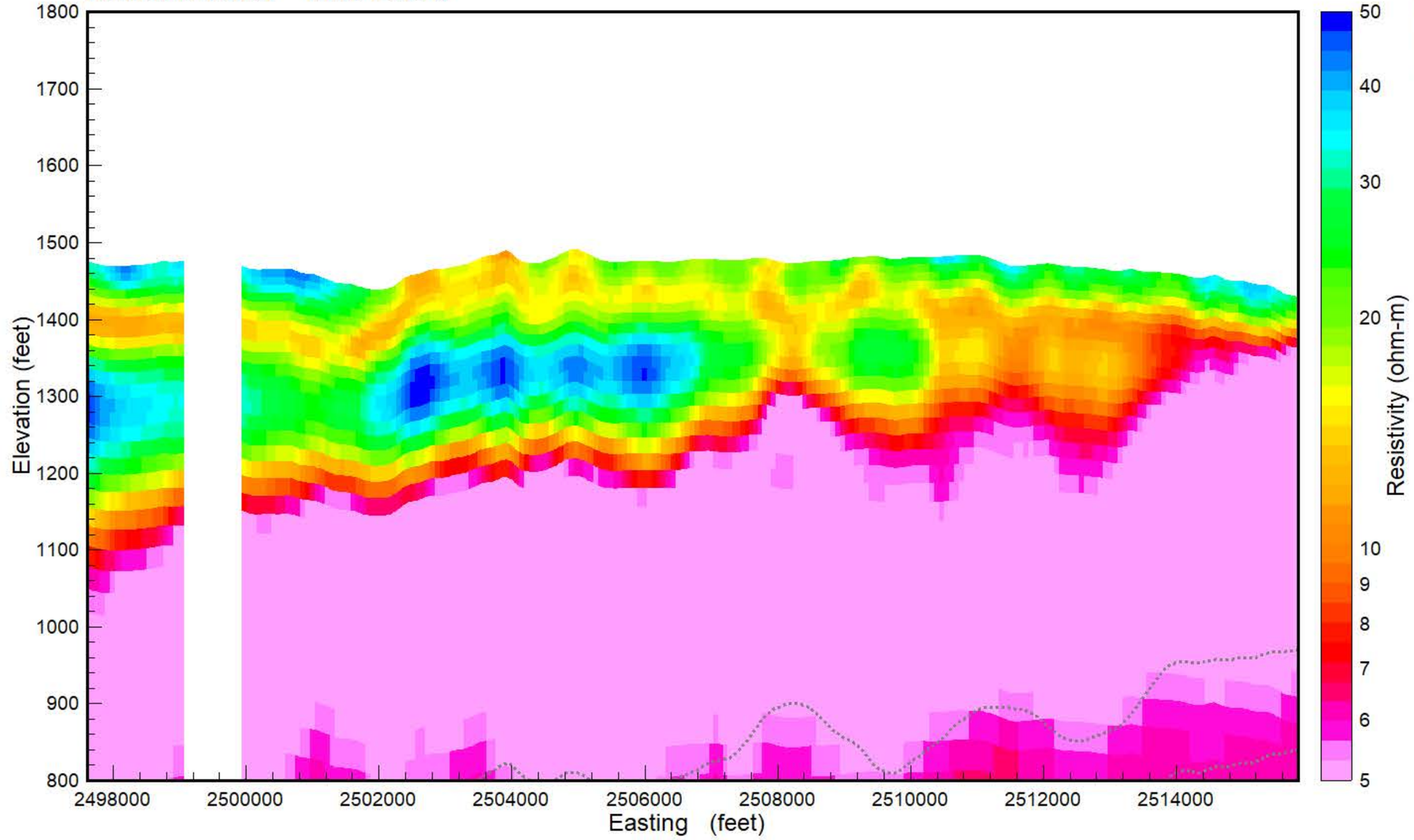
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5970

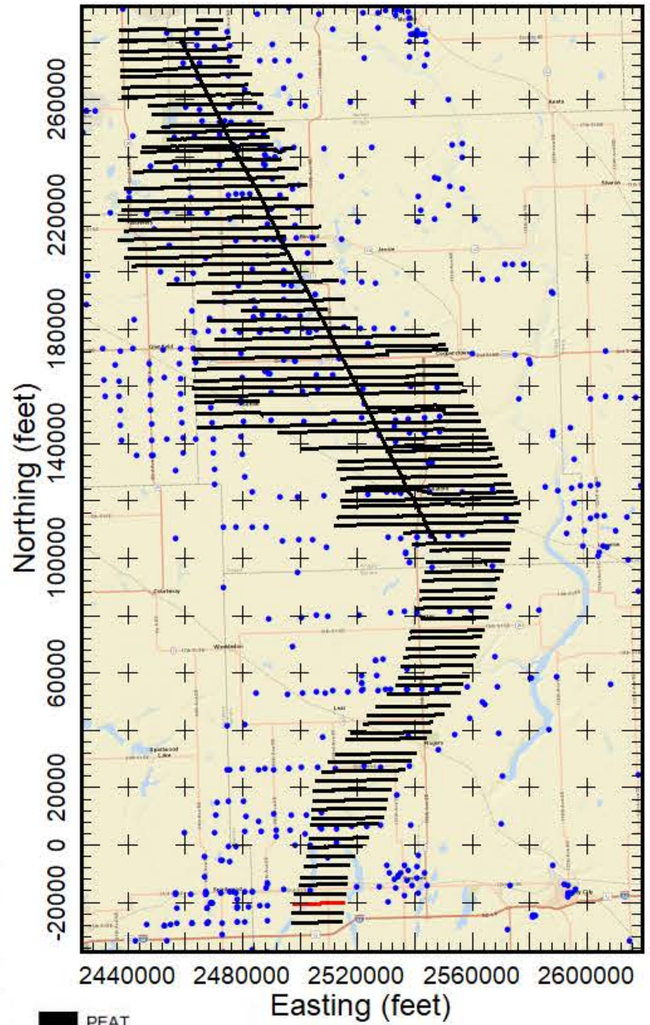


AEM Inversion Line L5970



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

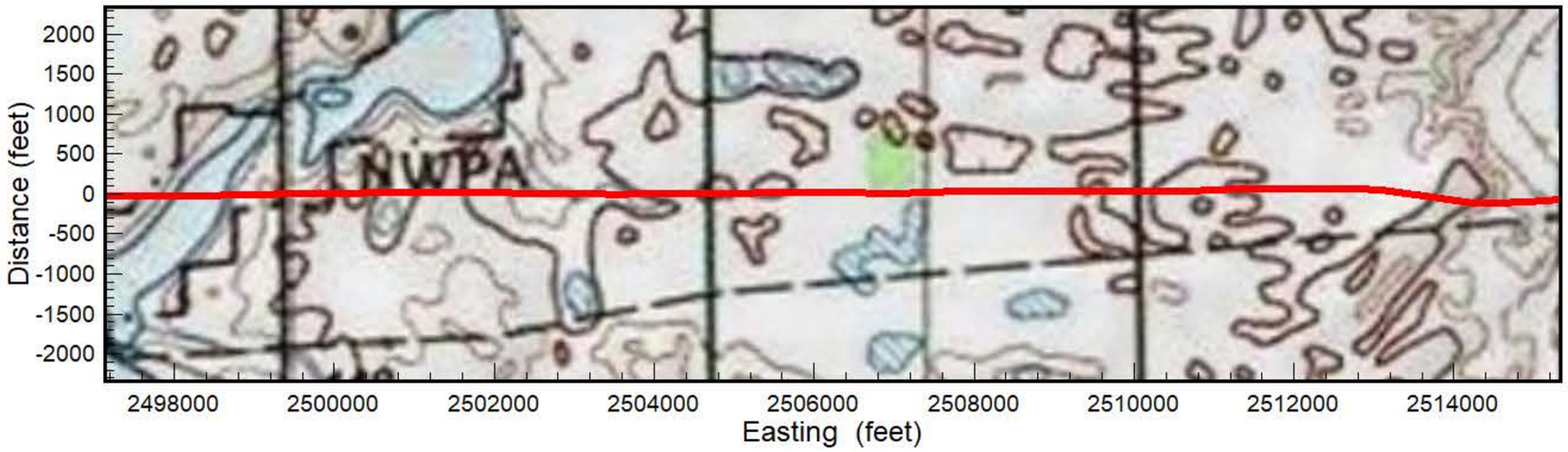


- PEAT
- LIGNITE
- COBBLES
- BOULDER
- ROCK
- PRECAMBRIAN
- WEATHERED GRANI
- SANDSTONE
- LIMESTONE
- SILTSTONE
- CLAYSTONE
- SHALE
- BEDROCK
- GRAVEL
- SAND & GRAVEL
- SAND
- INTERBEDDED
- SILT
- CLAY
- TILL
- FILL
- TOPSOIL
- NOSAMPLE

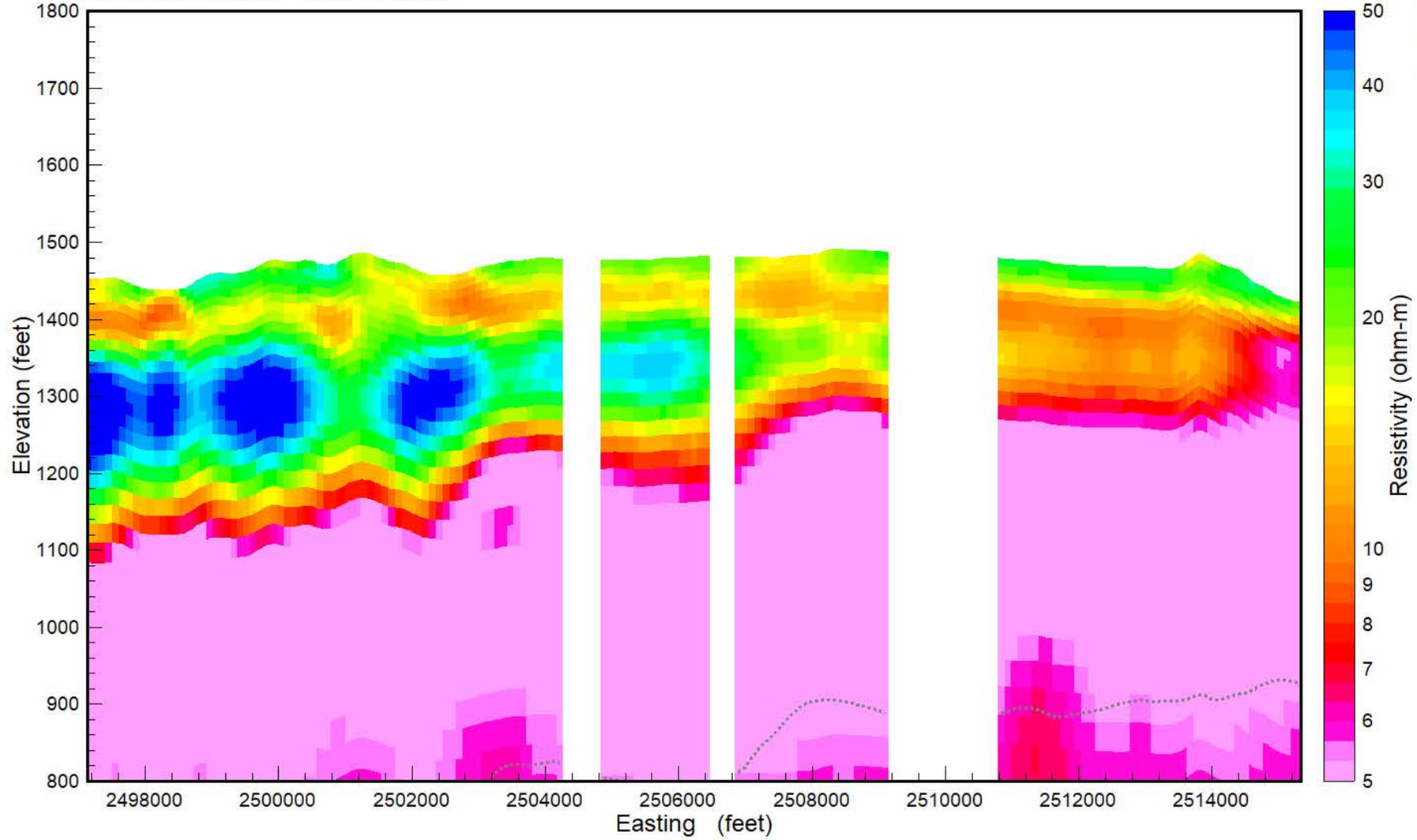
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5980

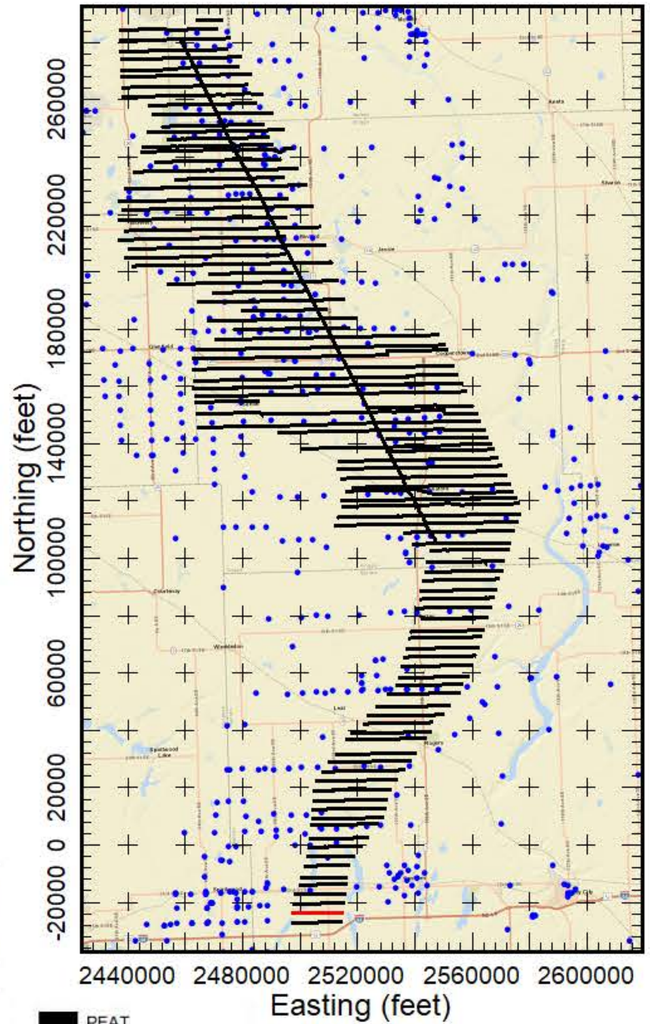


AEM Inversion Line L5980



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs

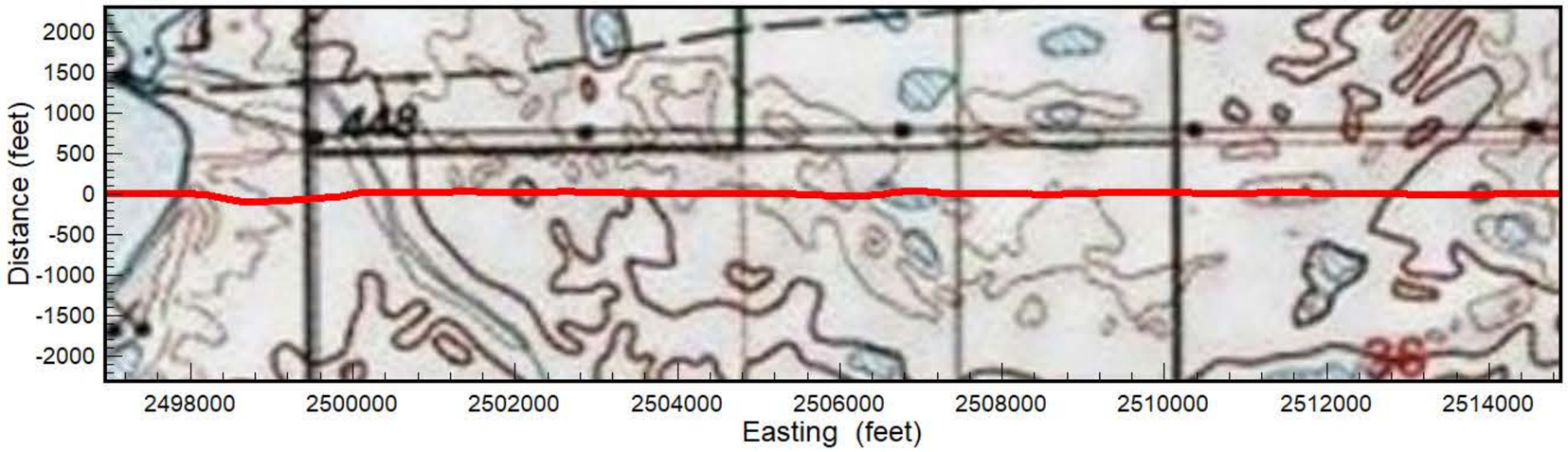


PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

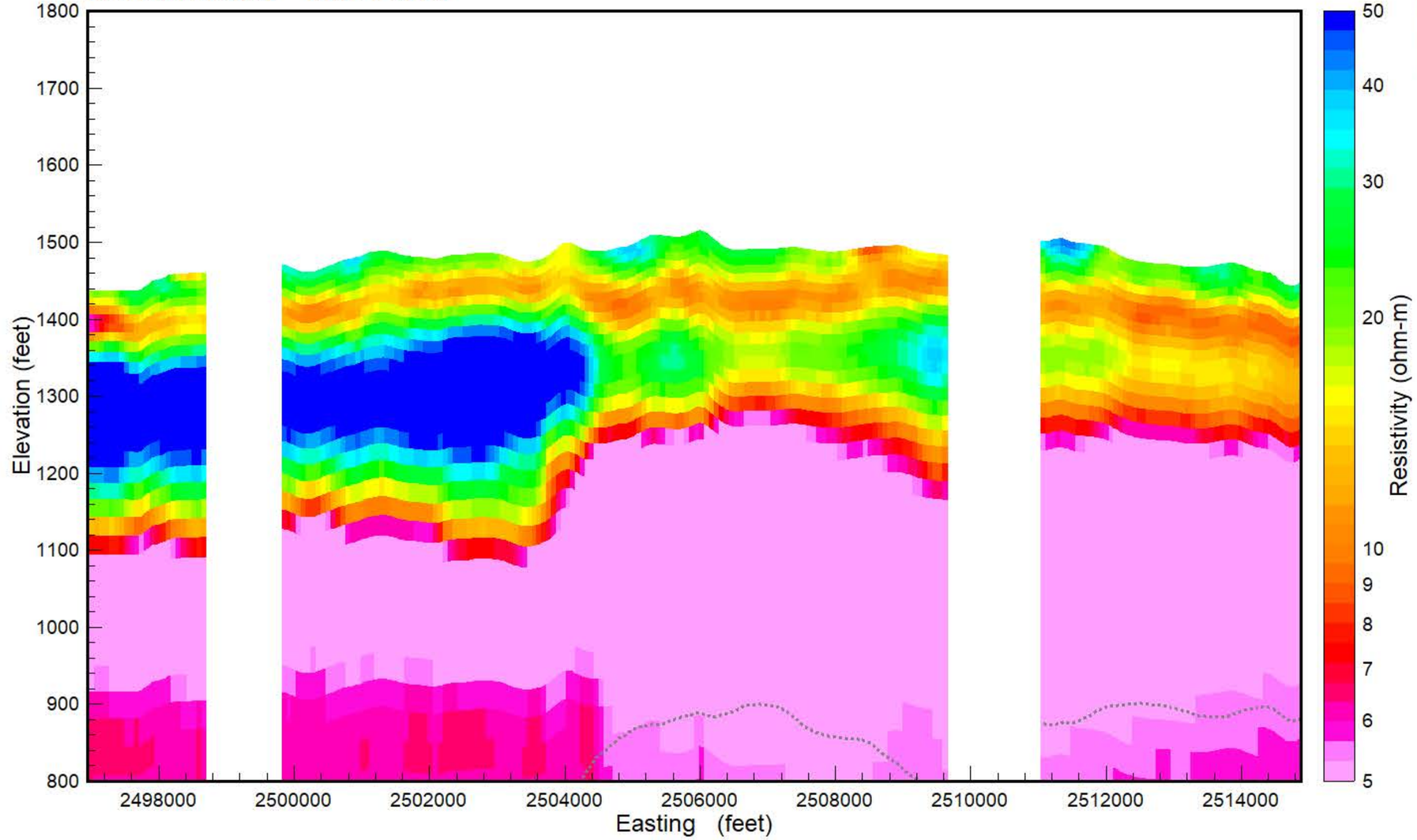
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GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L5990

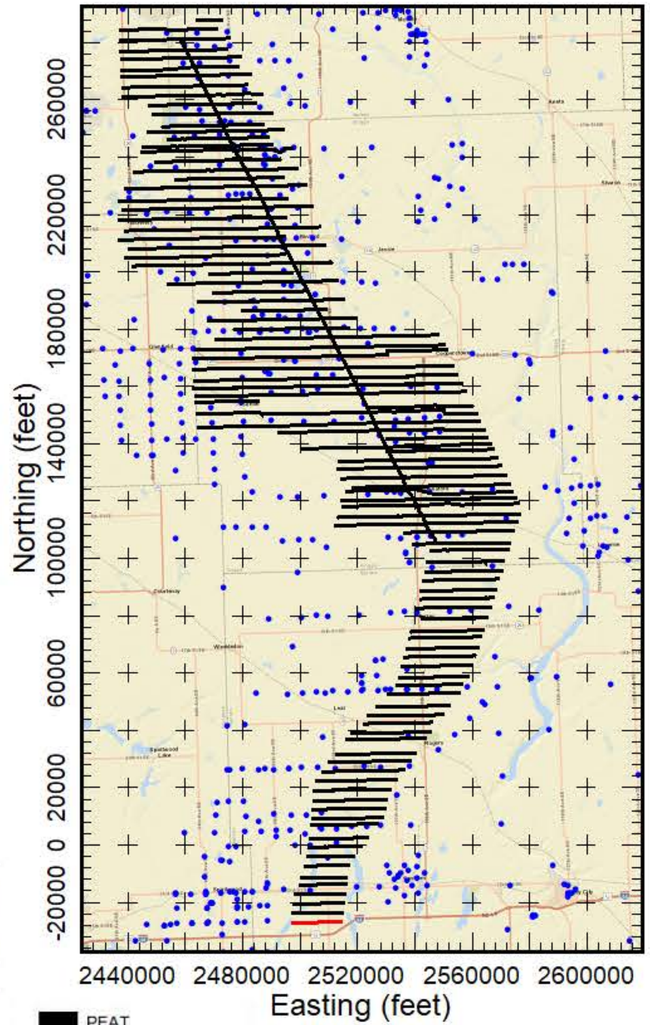


AEM Inversion Line L5990



NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Flight Area Griggs



PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

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Appendix 1:

2D Profiles – 2019 Griggs Block Inverted AEM Resistivities

Page

A1-3 – A1-104

This document contains 2D Profiles of the 2019 Griggs AEM survey area.

Each page has a flight line map at the top and one profile section below which is the inverted resistivity. There is no text on the side describing the genesis of the profile; This may be found the Appendix 1- “Full” 2D Profile.

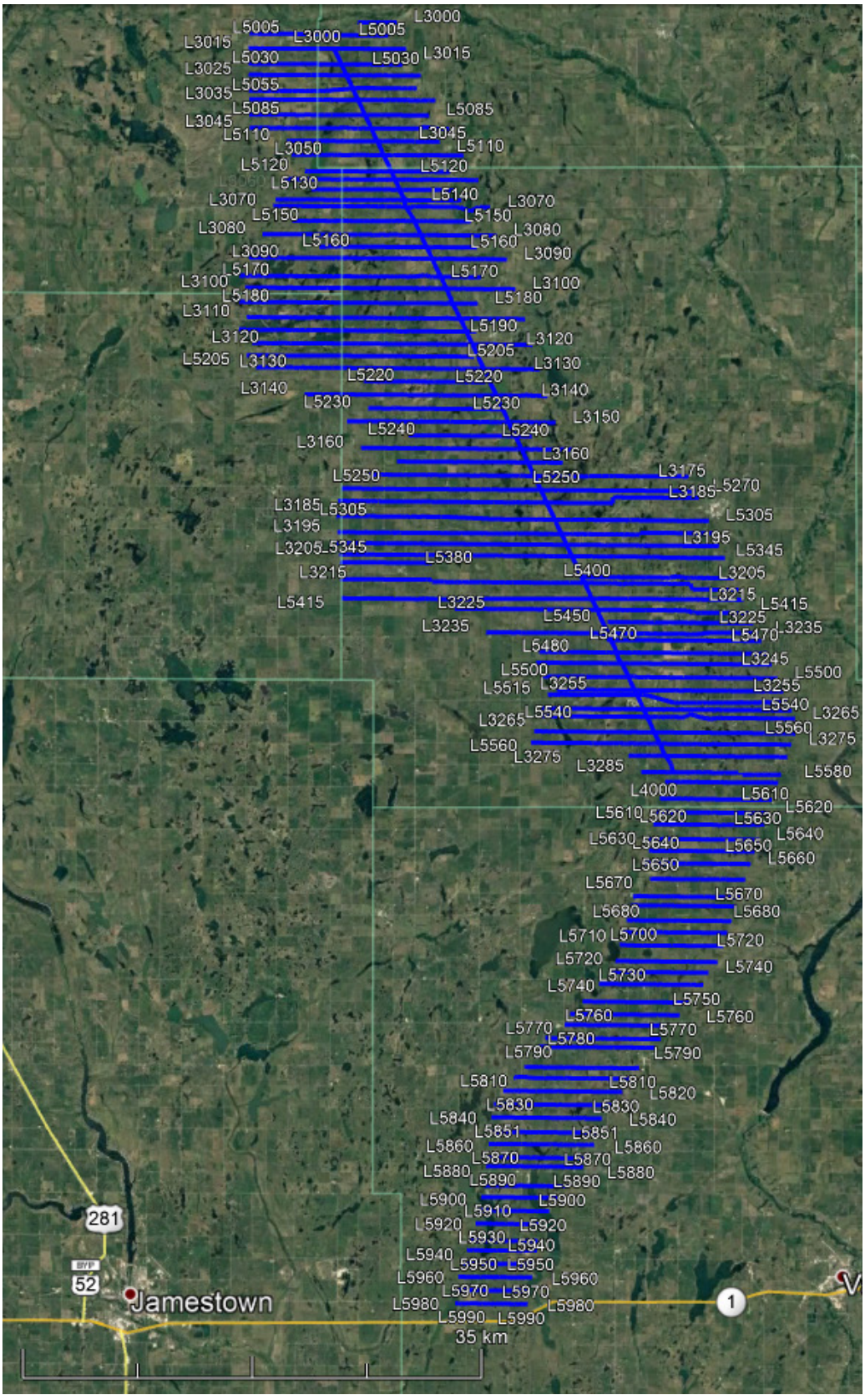
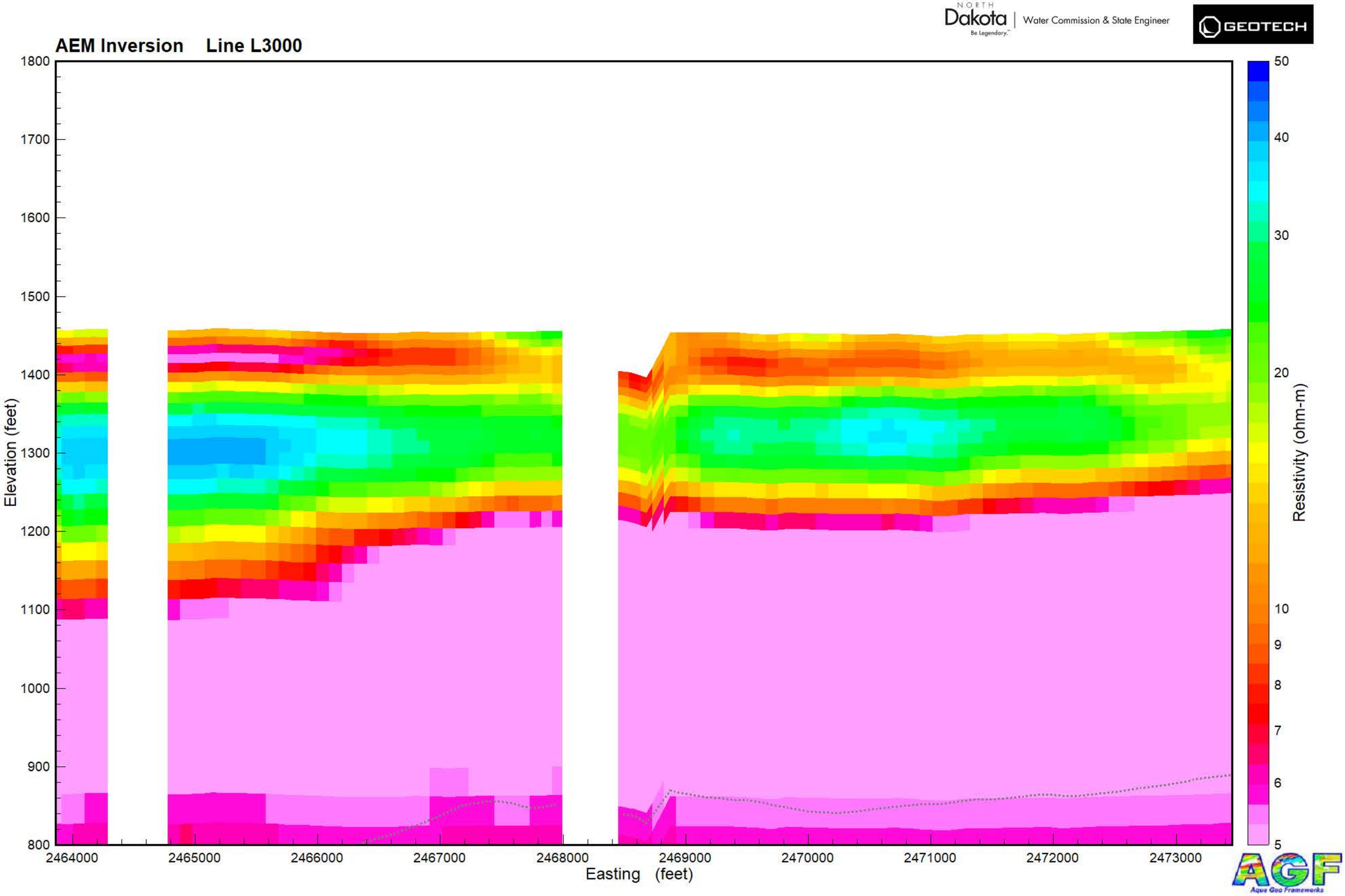
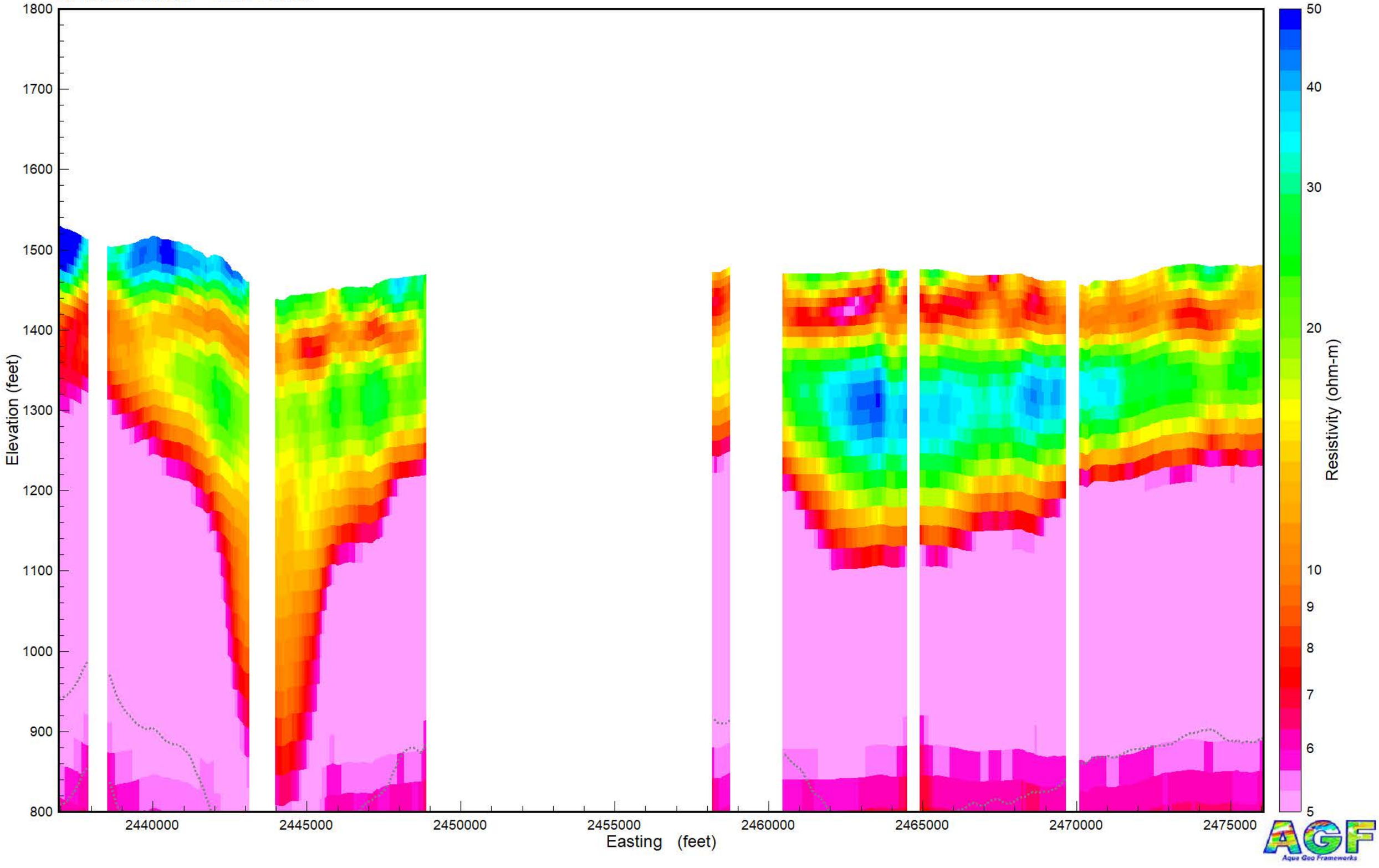


Figure A1-1. Map of the 2019 Griggs AEM survey with flight line labels in Google Earth.

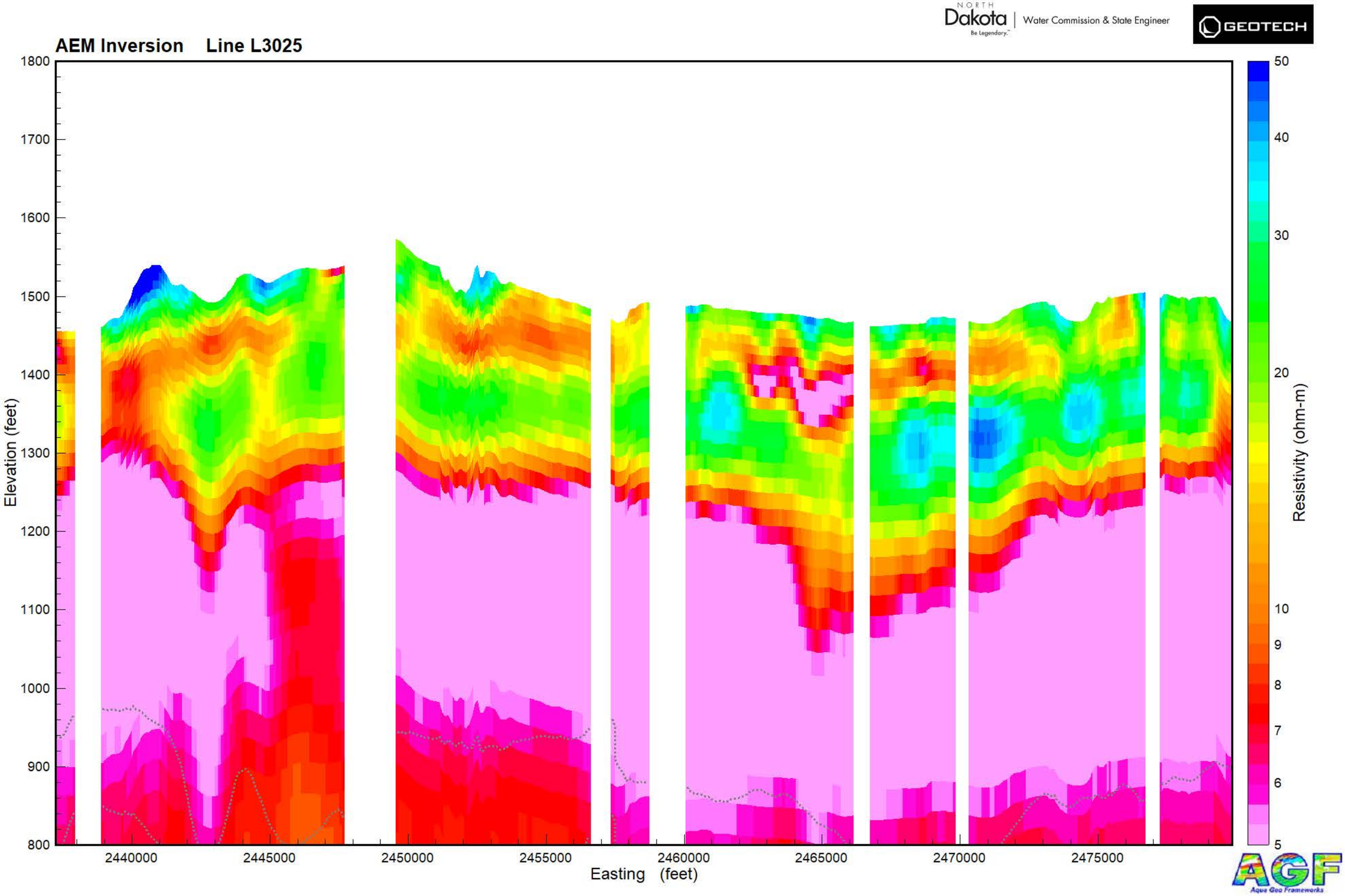

AEM Inversion Line L3000
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2464000
2465000
2466000
2467000
2468000
2469000
2470000
2471000
2472000
2473000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

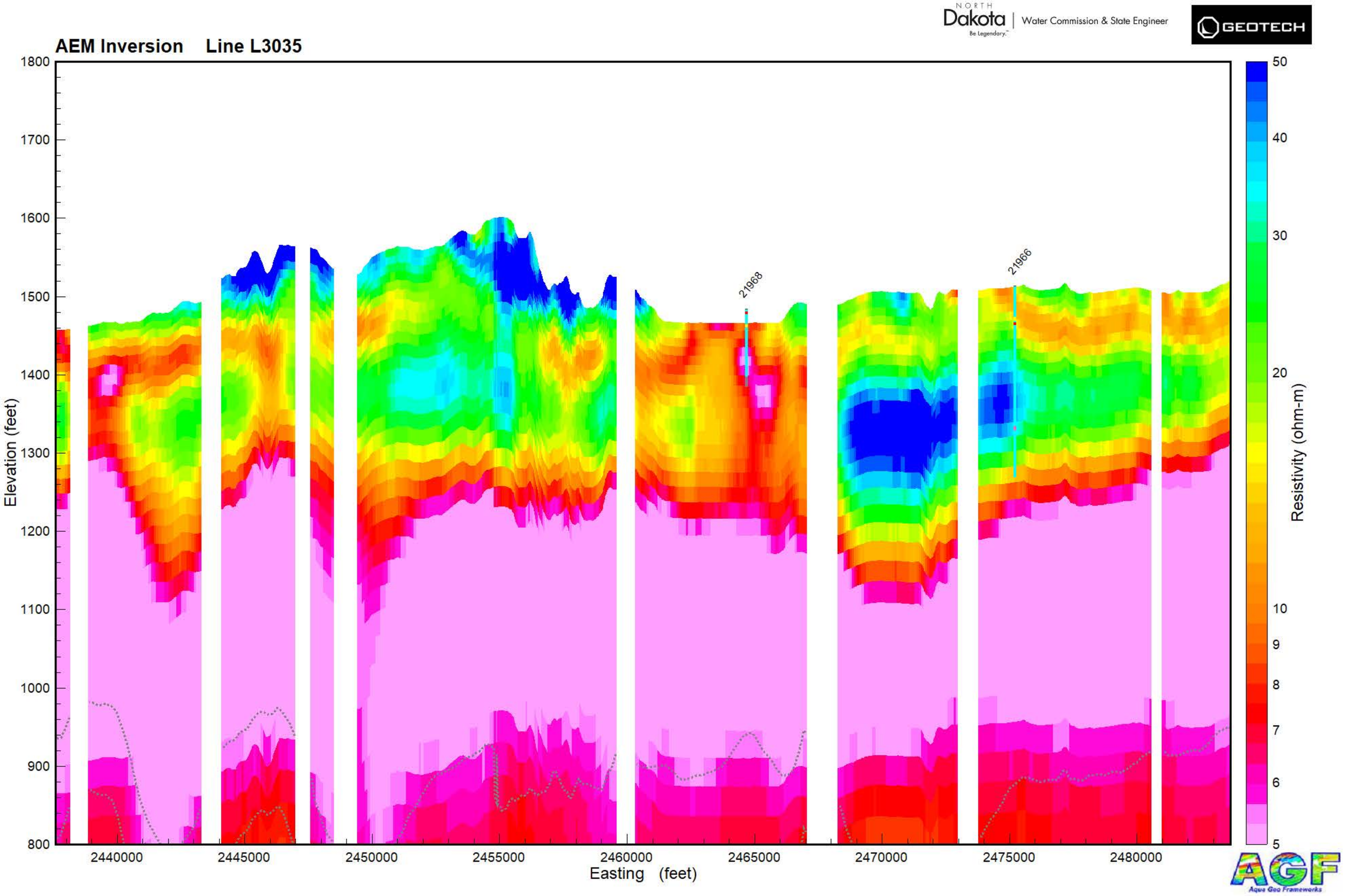
North Dakota Water Commission & State Engineer

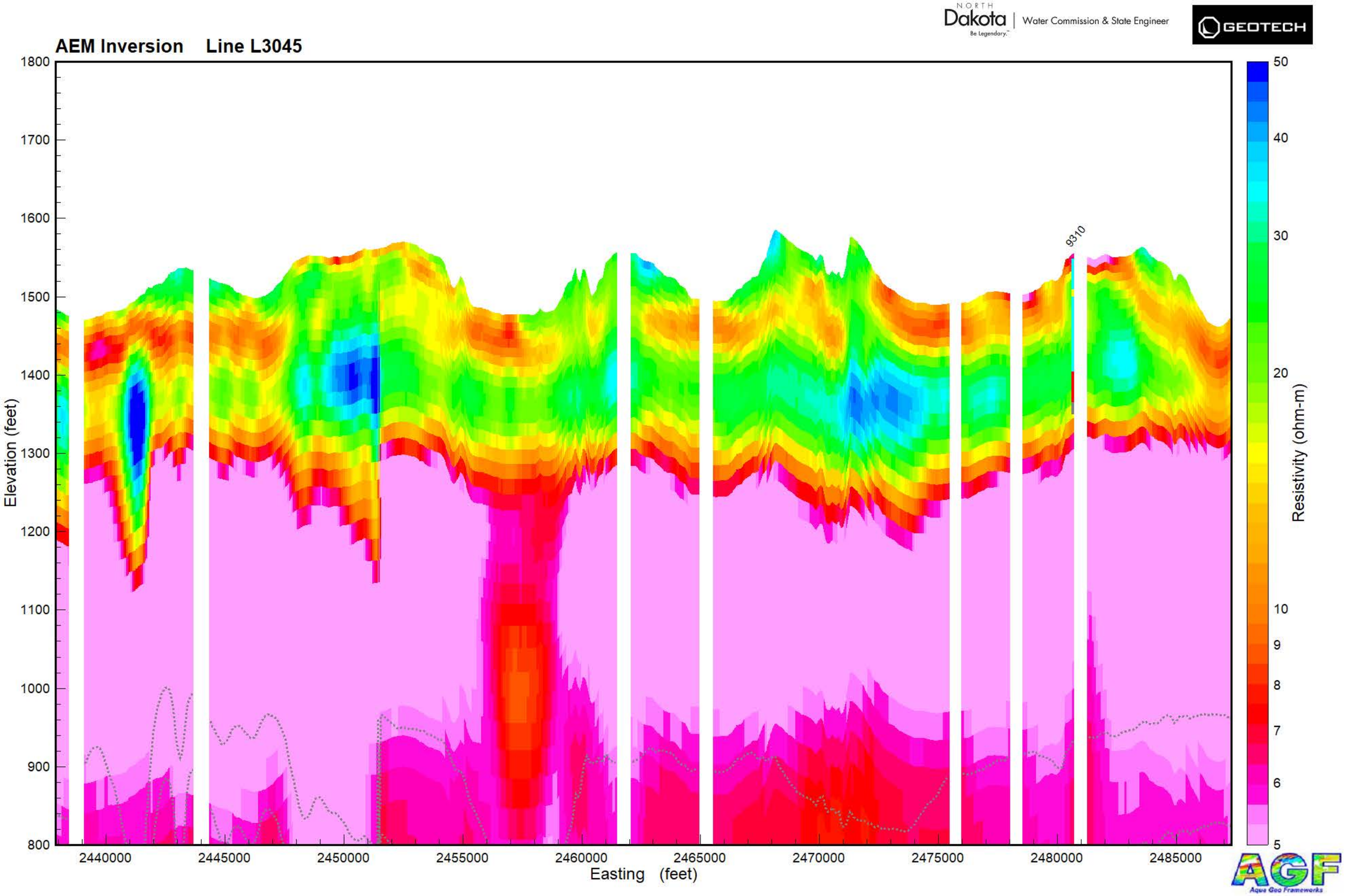
GEOTECH



AGF Aqua Geo Frameworks


AEM Inversion Line L3025
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2445000
2450000
2455000
2460000
2465000
2470000
2475000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

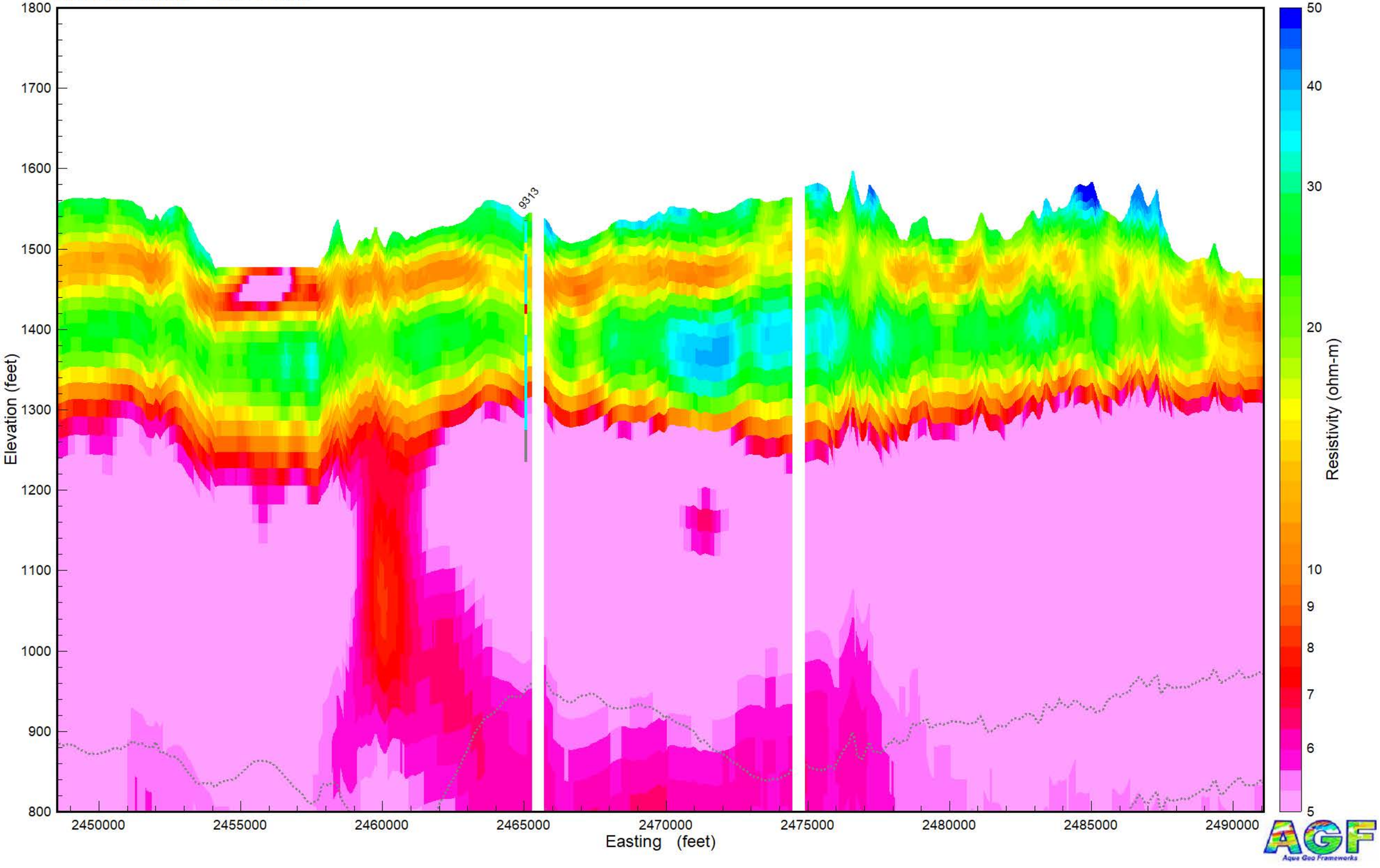

AEM Inversion Line L3035
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
21968
21966
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2445000
2450000
2455000
2460000
2465000
2470000
2475000
2480000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L3045
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
9310
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2445000
2450000
2455000
2460000
2465000
2470000
2475000
2480000
2485000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

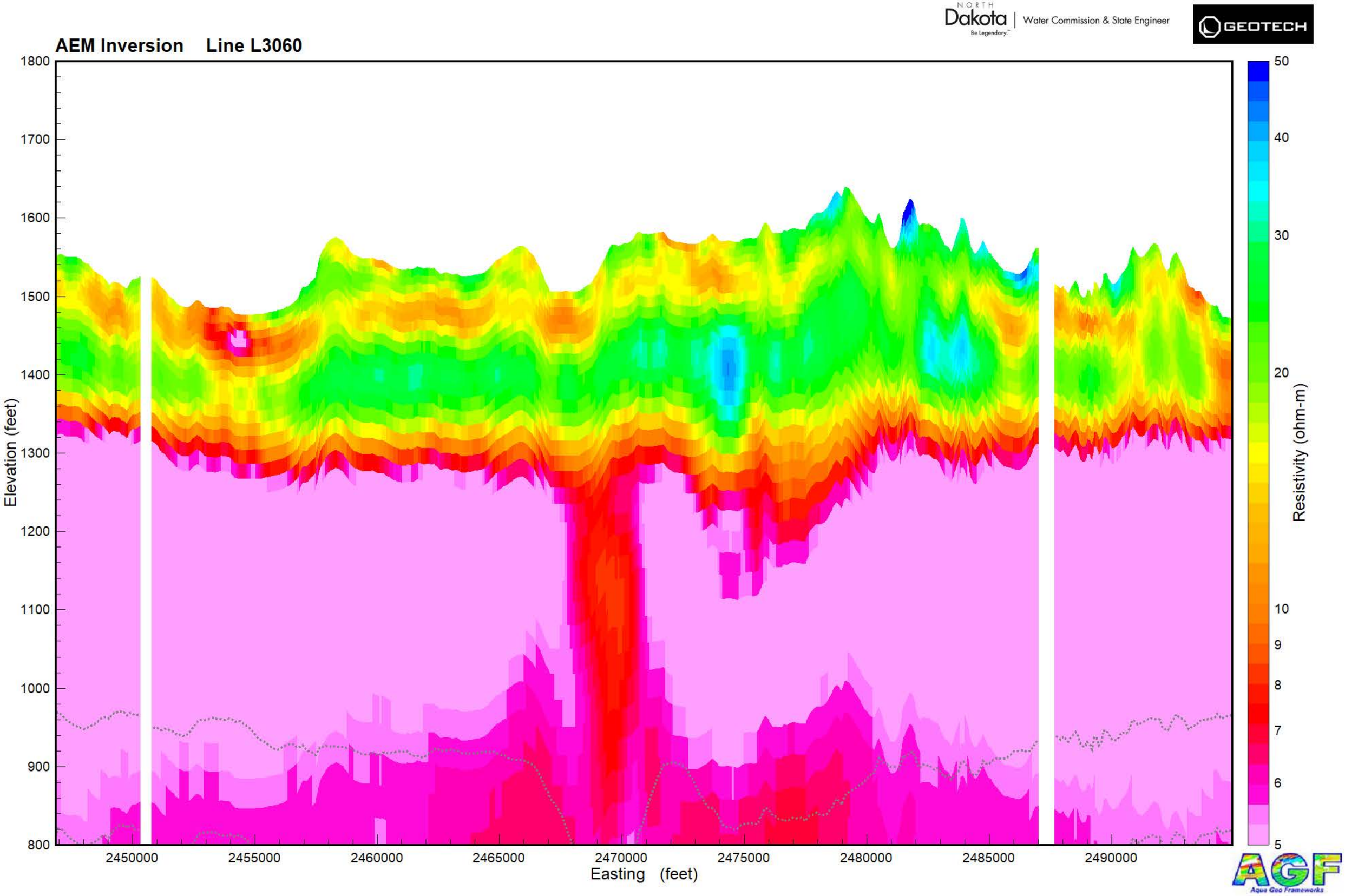
North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L3050

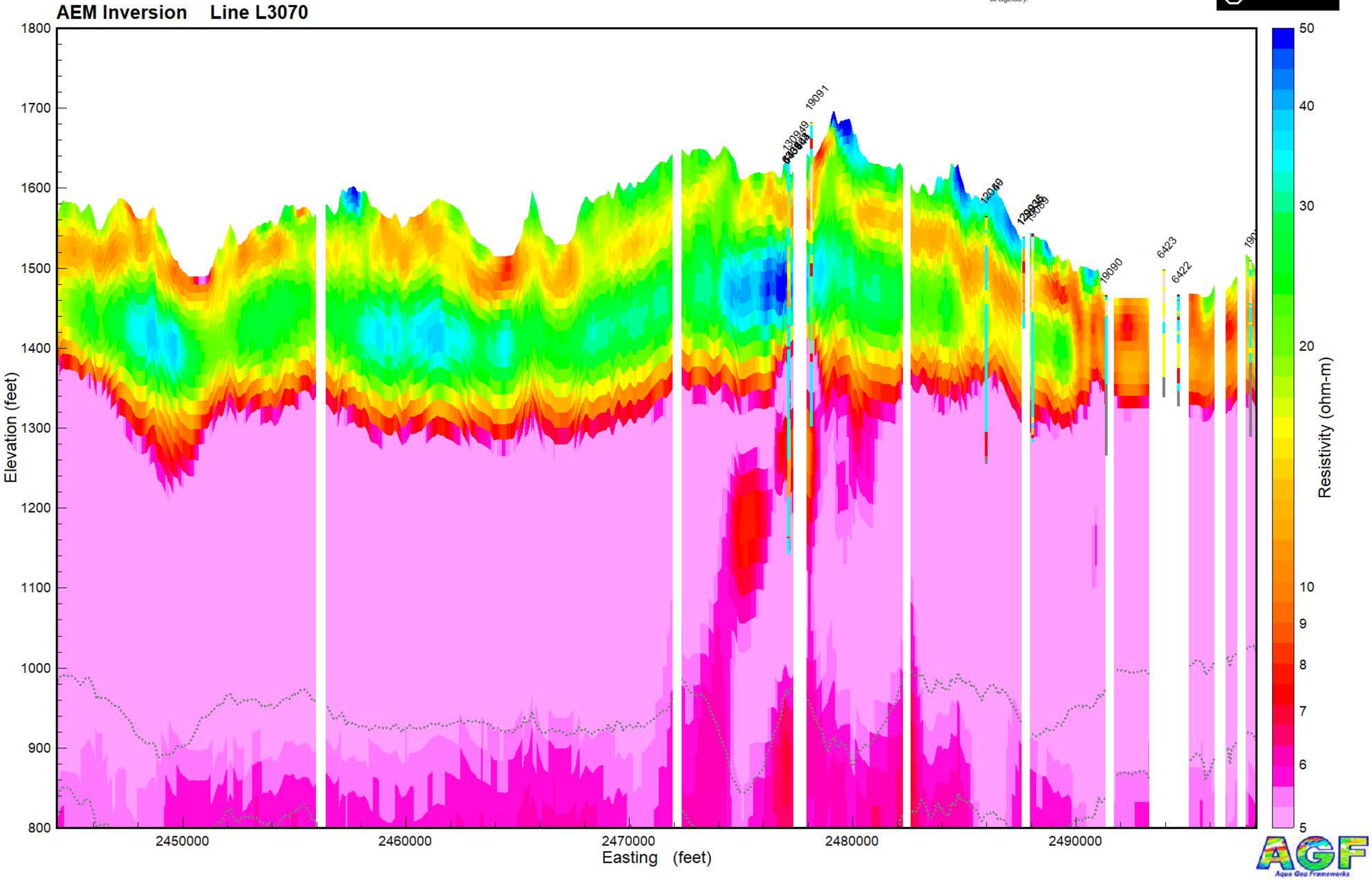


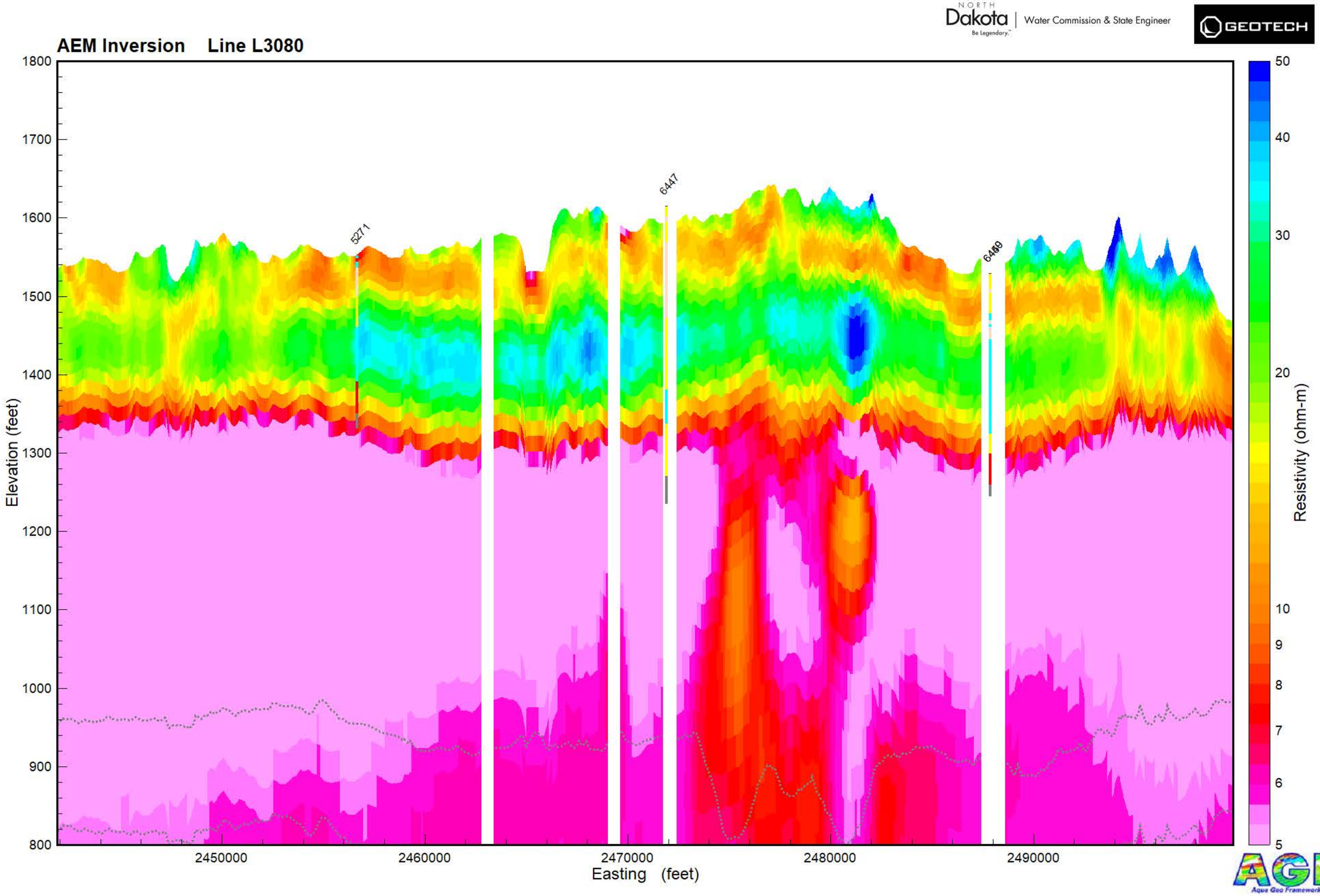
AGF Aqua Geo Frameworks

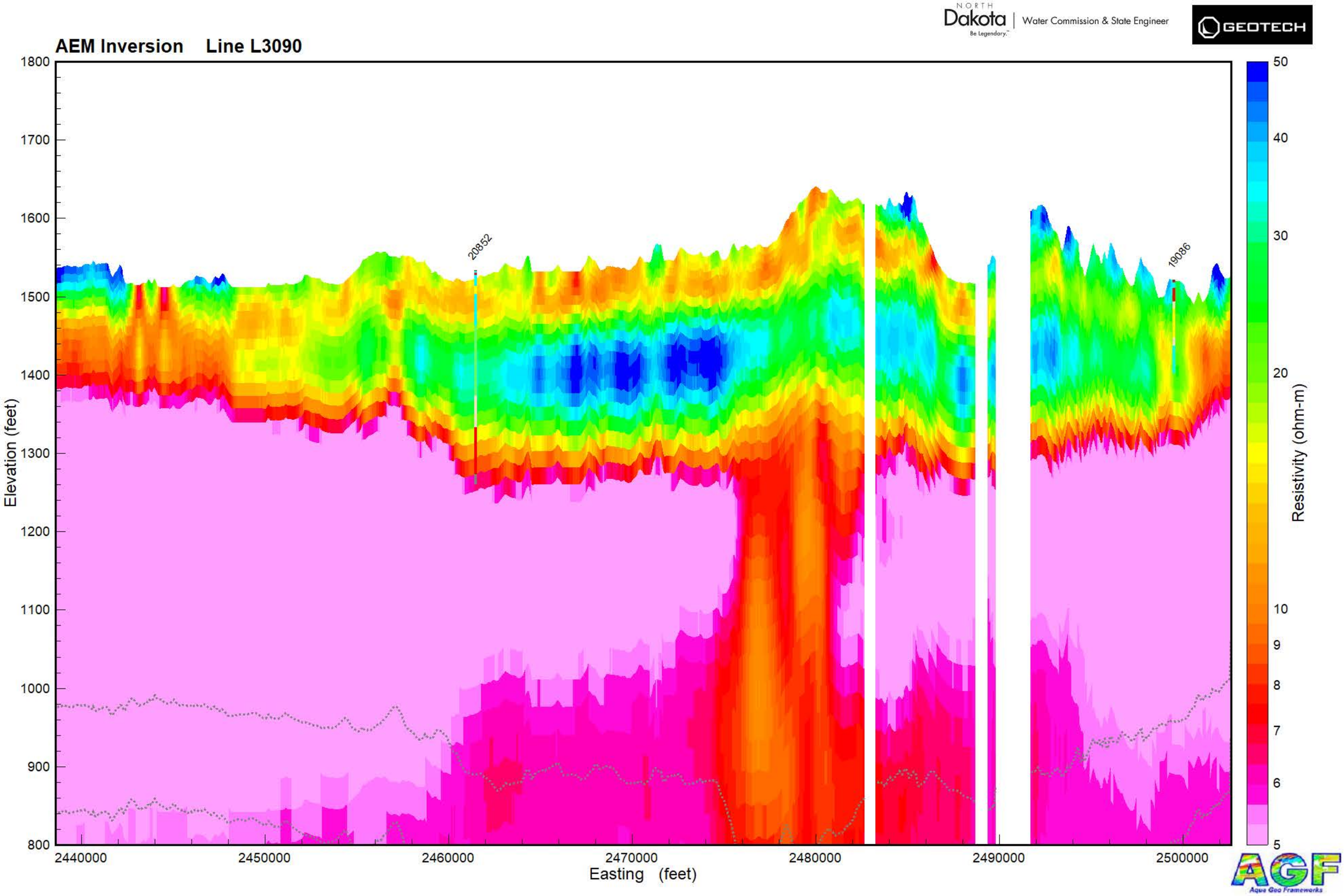

AEM Inversion Line L3060
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2450000
2455000
2460000
2465000
2470000
2475000
2480000
2485000
2490000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

NORTH Dakota Be Legendary. | Water Commission & State Engineer

GEOTECH



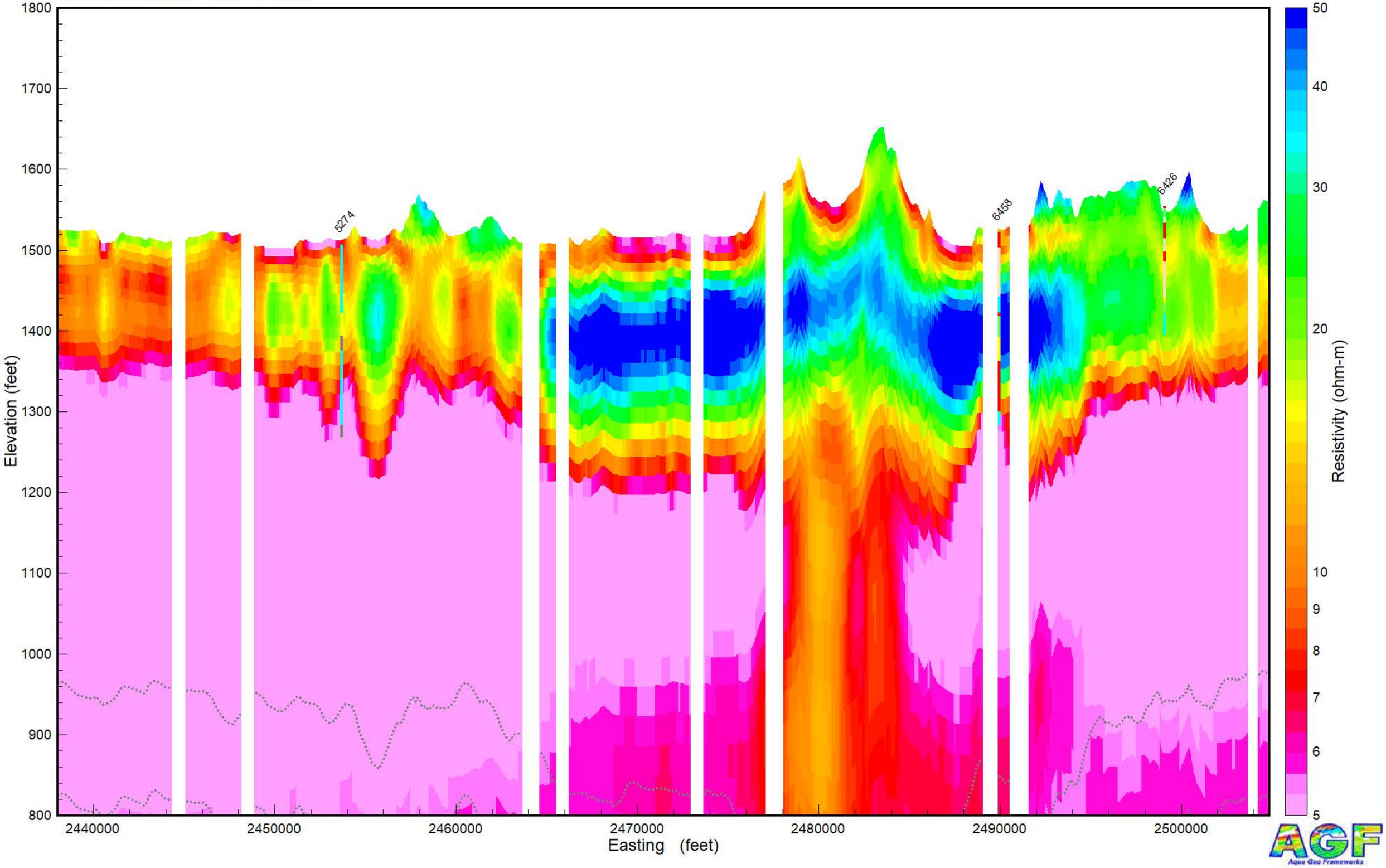

AEM Inversion Line L3080
North Dakota Water Commission & State Engineer
GEOTECH
5271
6447
6459
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2450000
2460000
2470000
2480000
2490000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L3090
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
20852
19086
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2450000
2460000
2470000
2480000
2490000
2500000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L3100

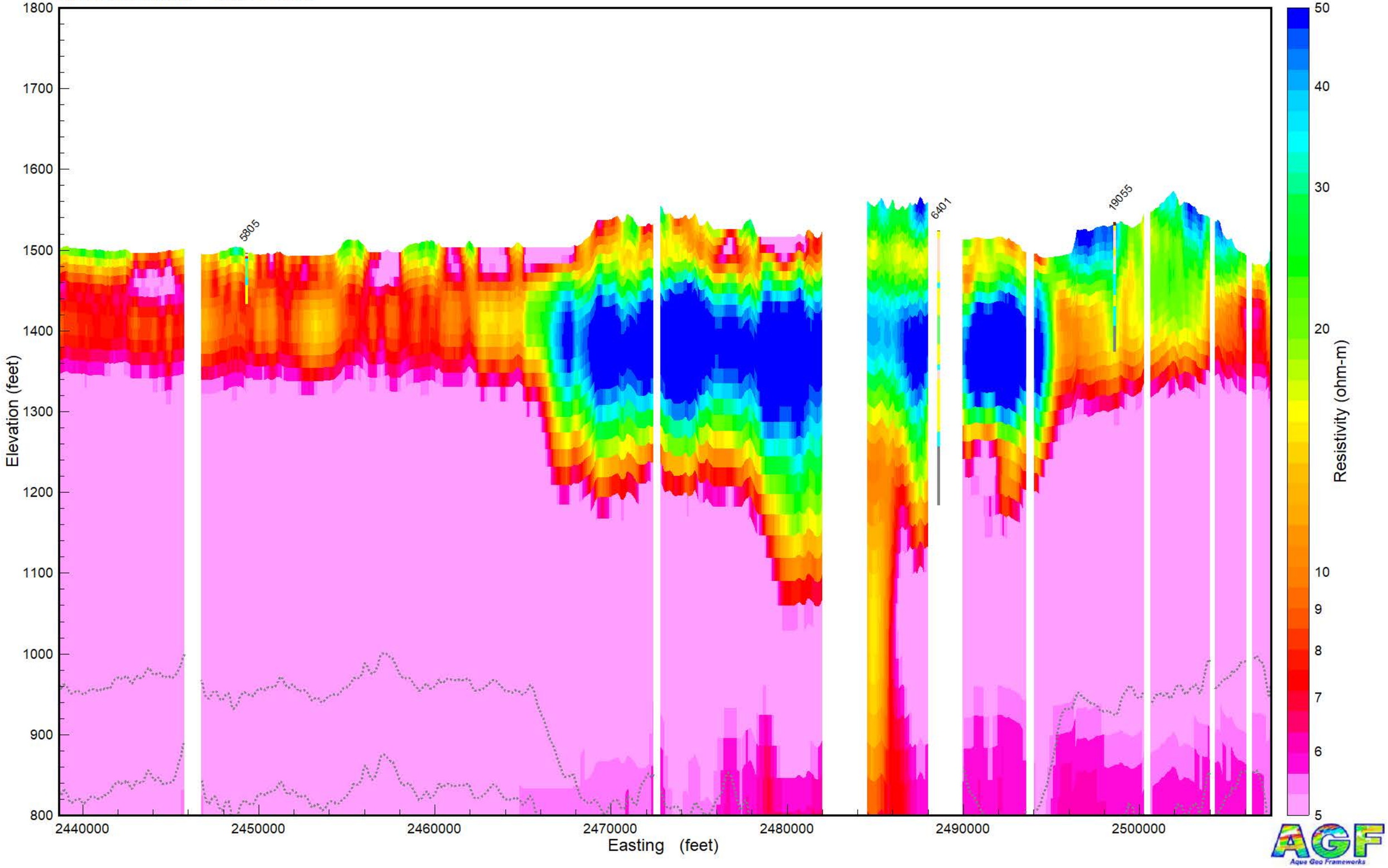


AGF Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

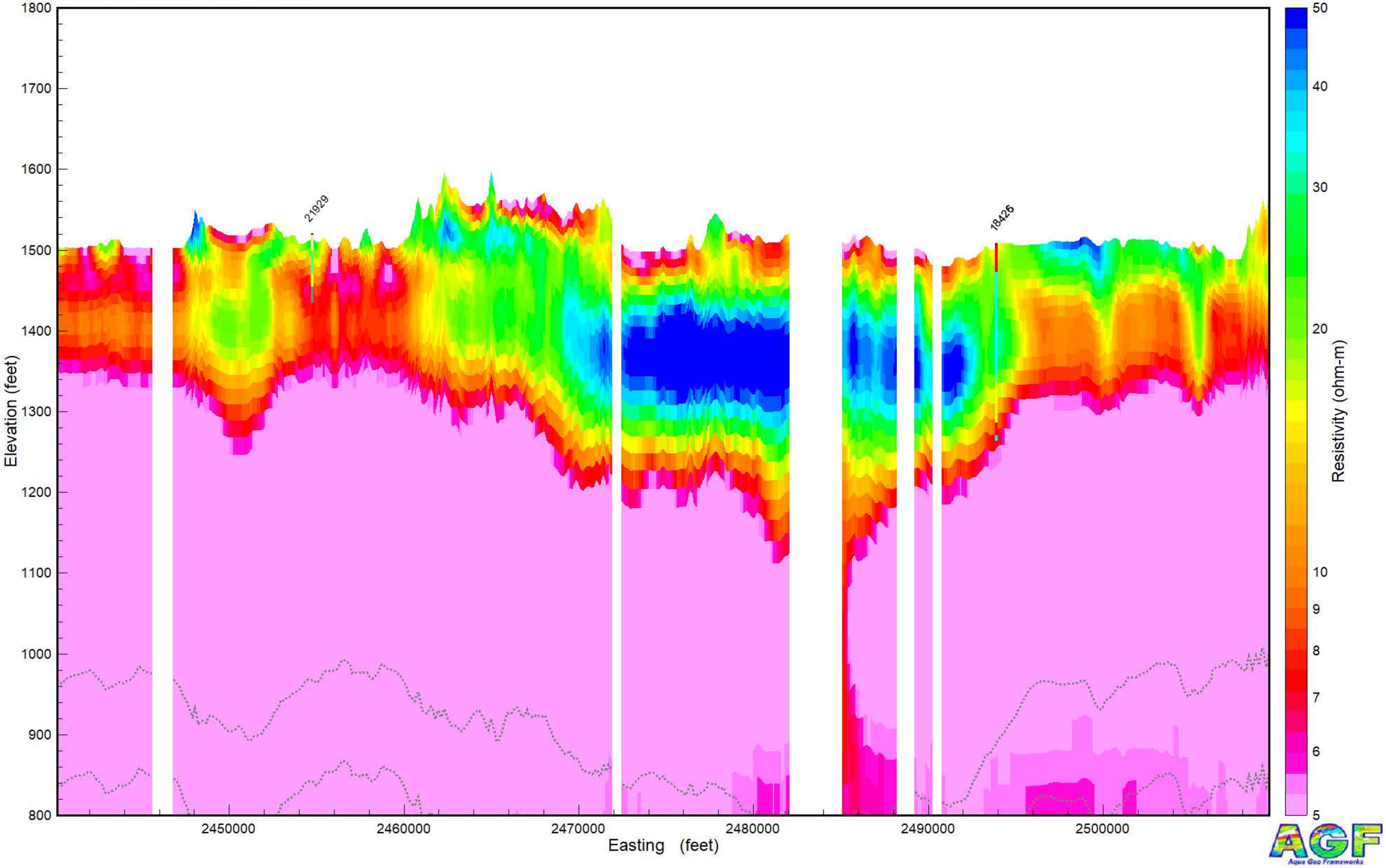
AEM Inversion Line L3110



AGF Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

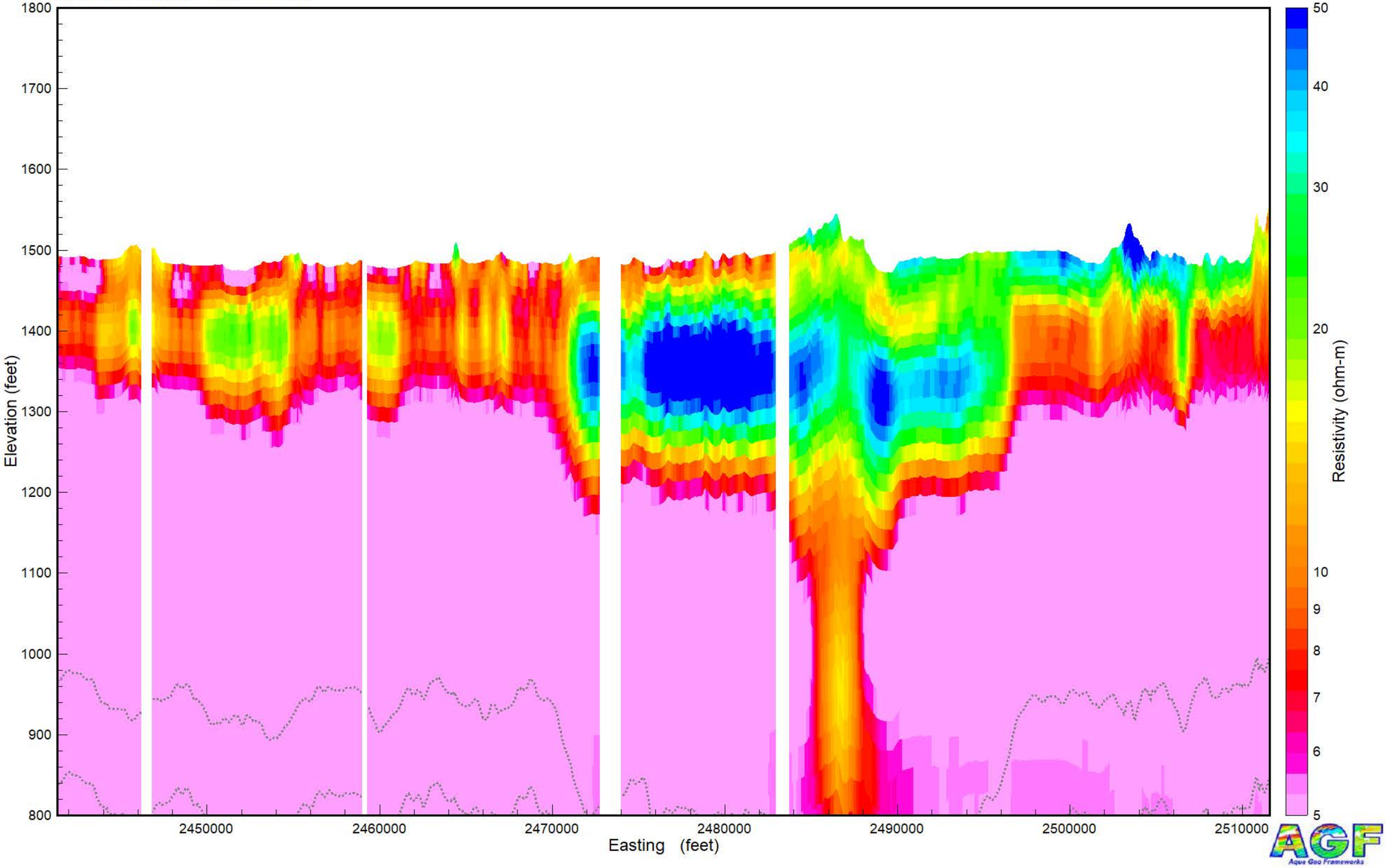


AGF Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L3130

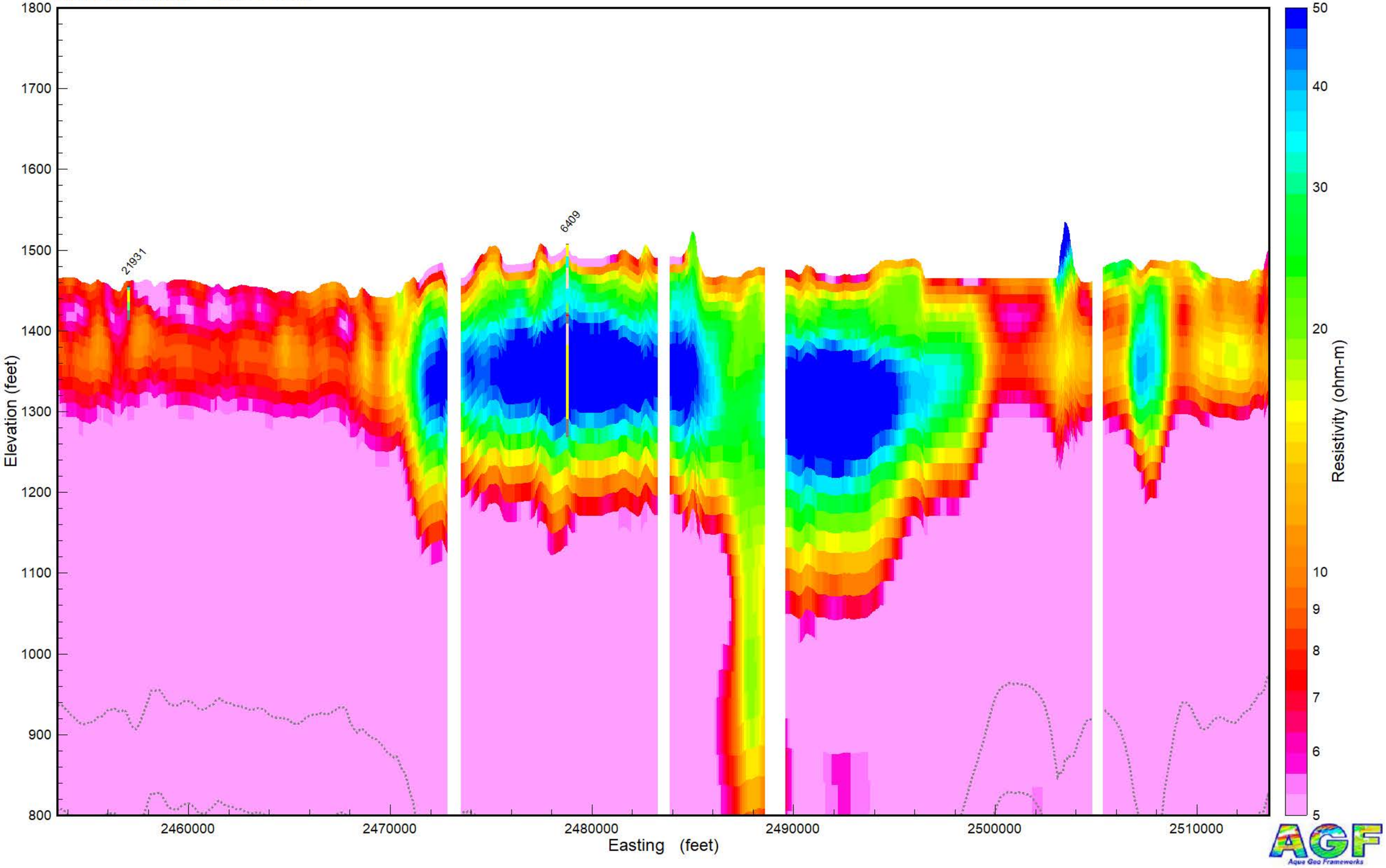


AGF Aqua Geo Frameworks

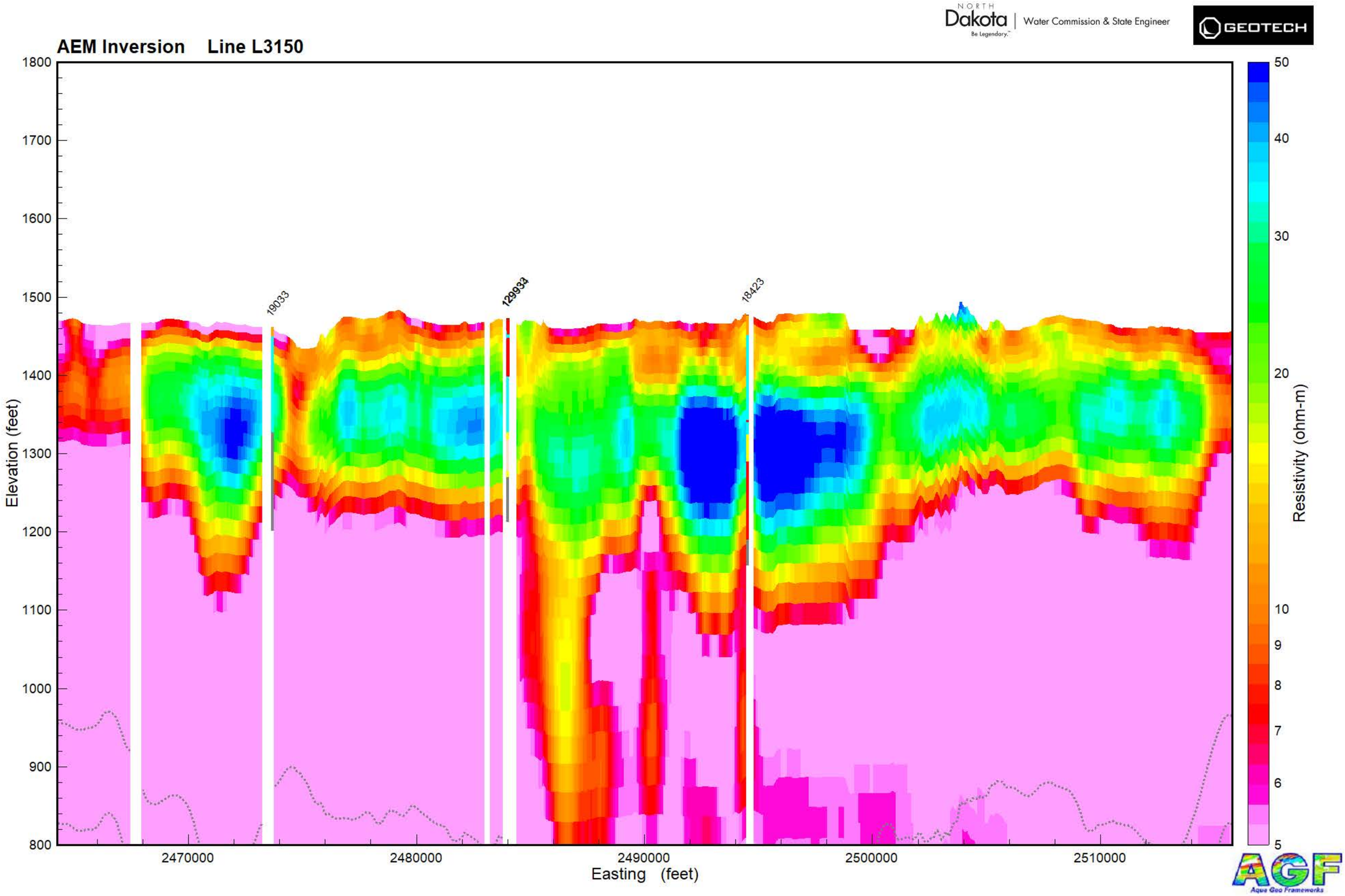
North Dakota Water Commission & State Engineer

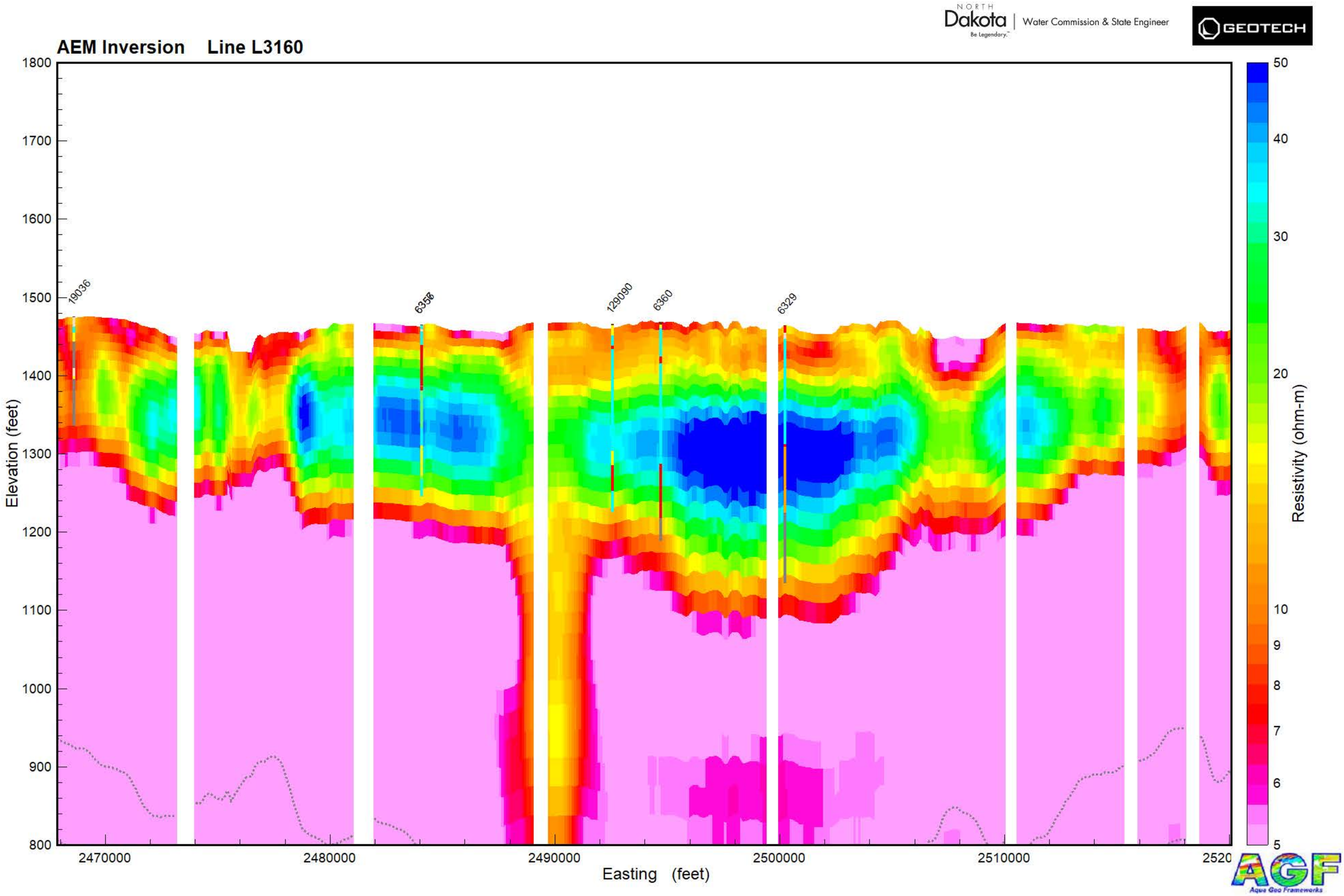
GEOTECH

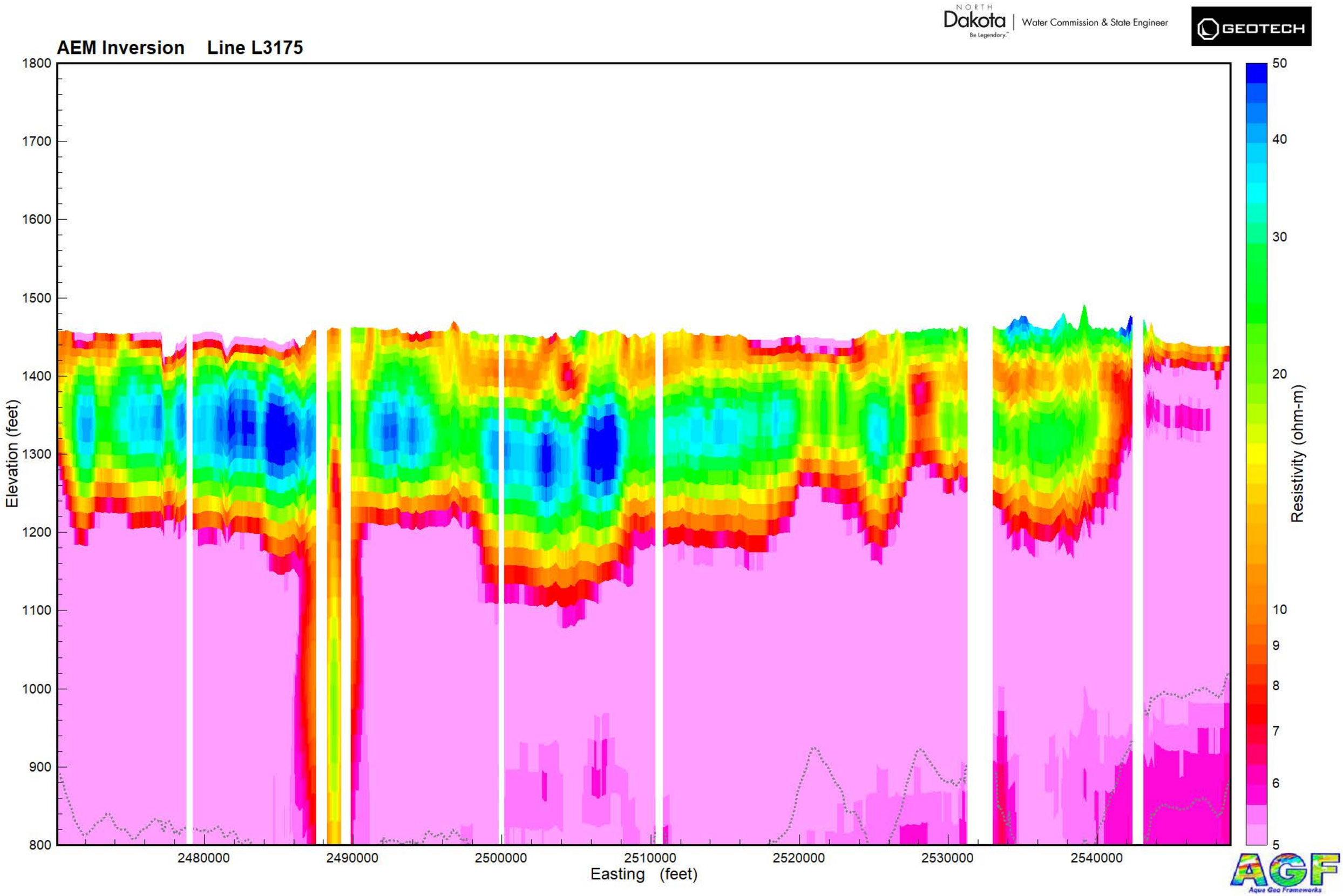
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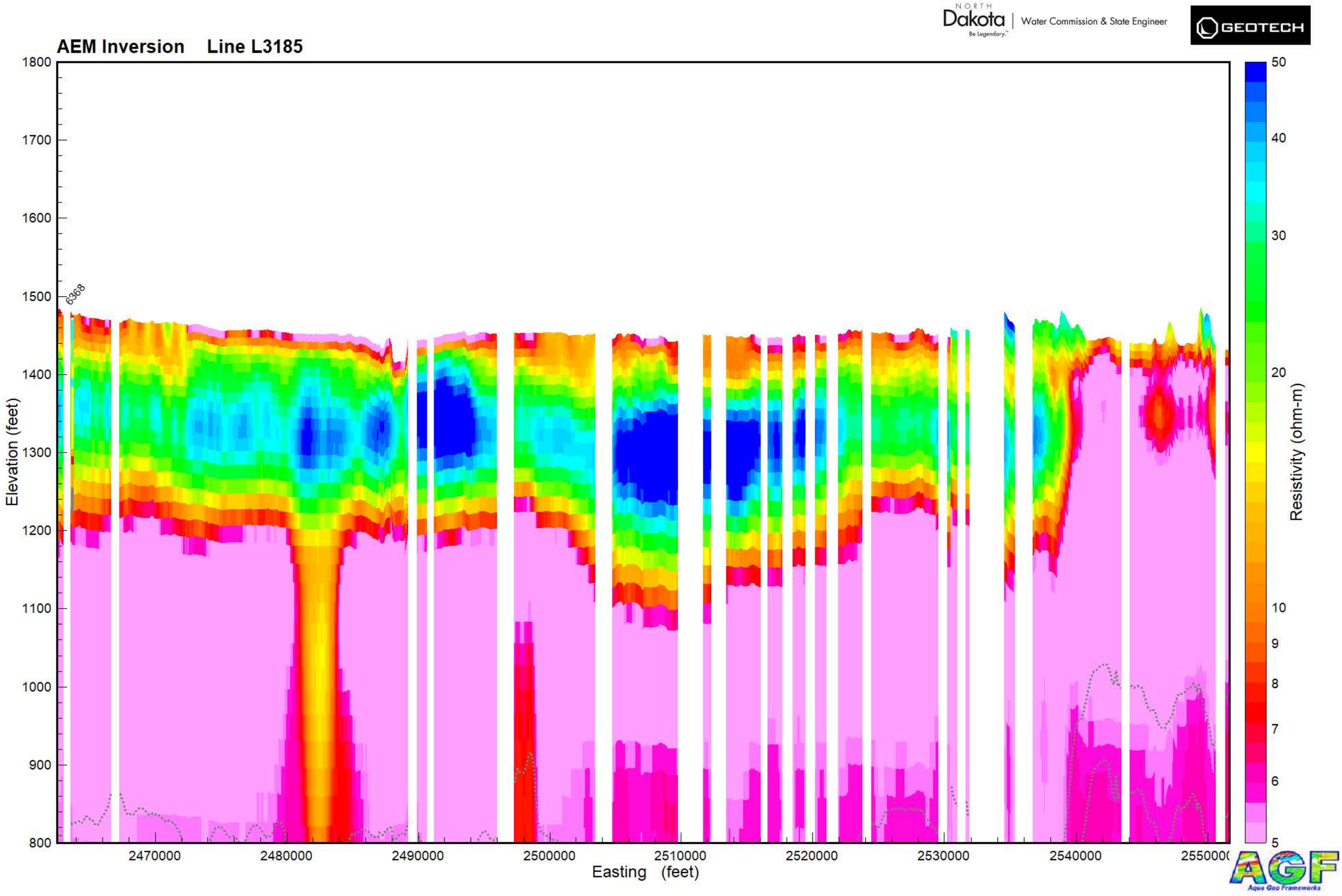


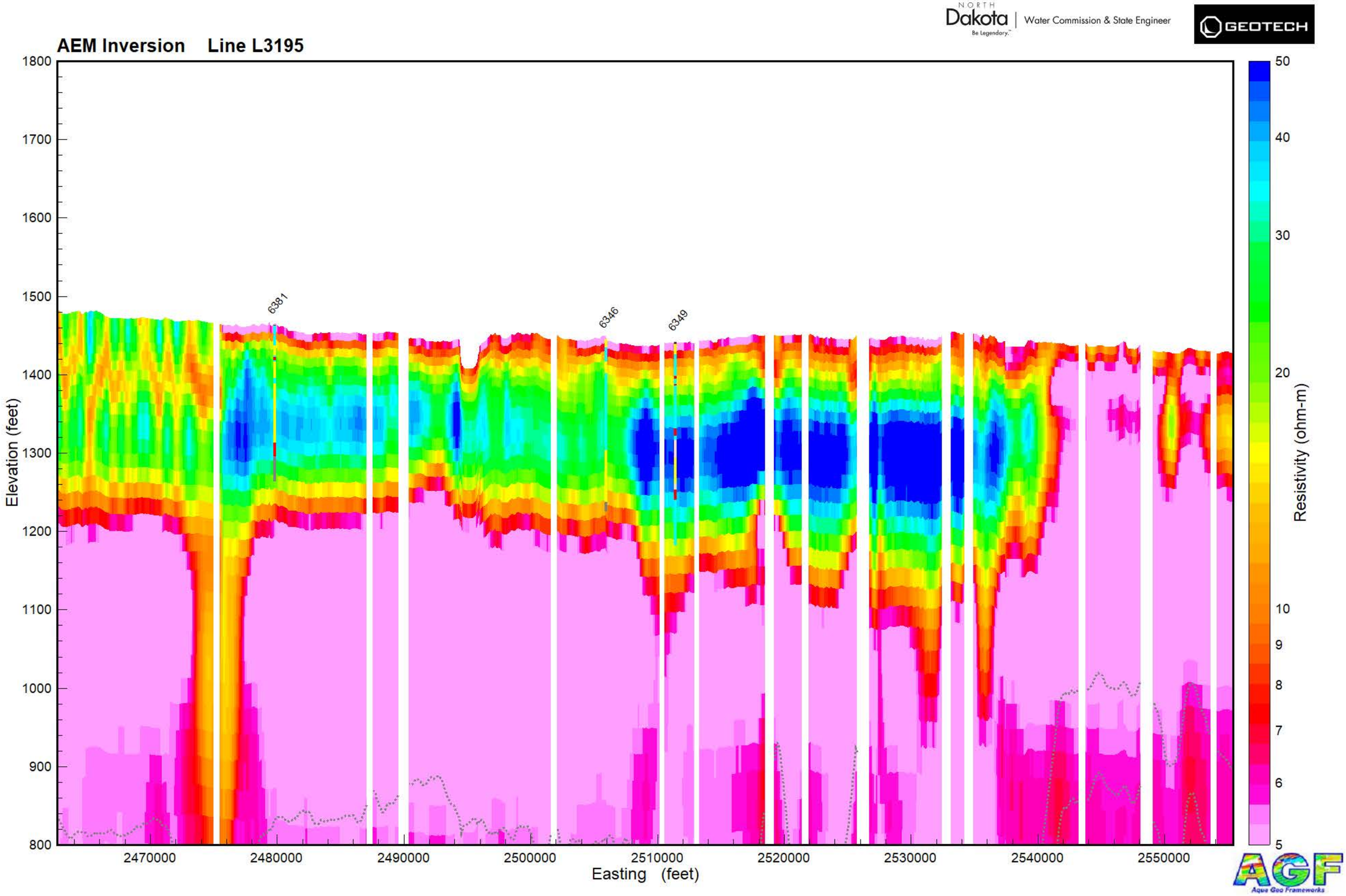
AGF Aqua Geo Frameworks

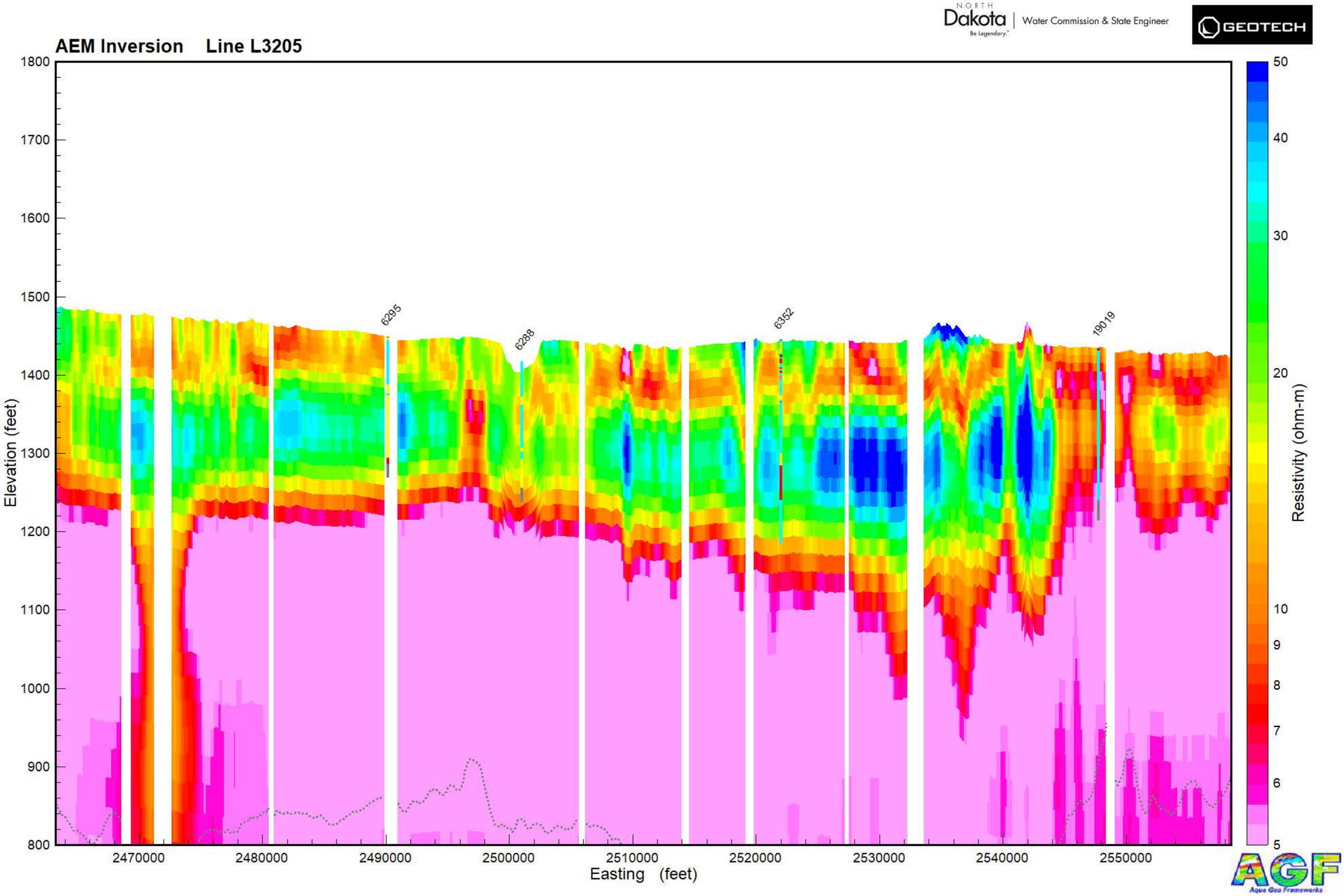

AEM Inversion Line L3150
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
19033
129933
18423
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

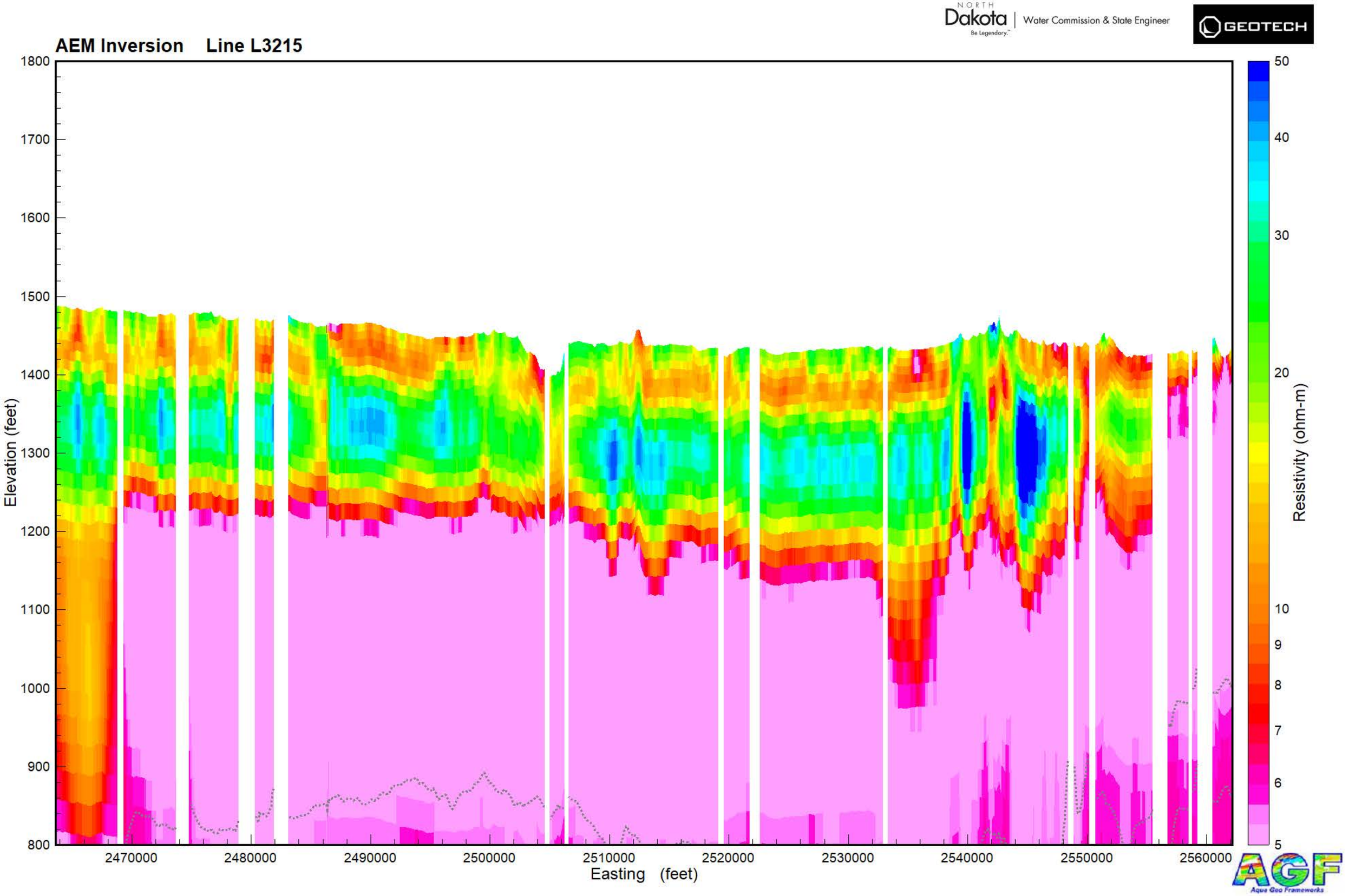

AEM Inversion Line L3160
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
19036
6356
129090
6360
6329
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
2520
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L3175
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2480000
2490000
2500000
2510000
2520000
2530000
2540000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L3185
6368
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
2520000
2530000
2540000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L3195
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
6381
6346
6349
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
2520000
2530000
2540000
2550000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

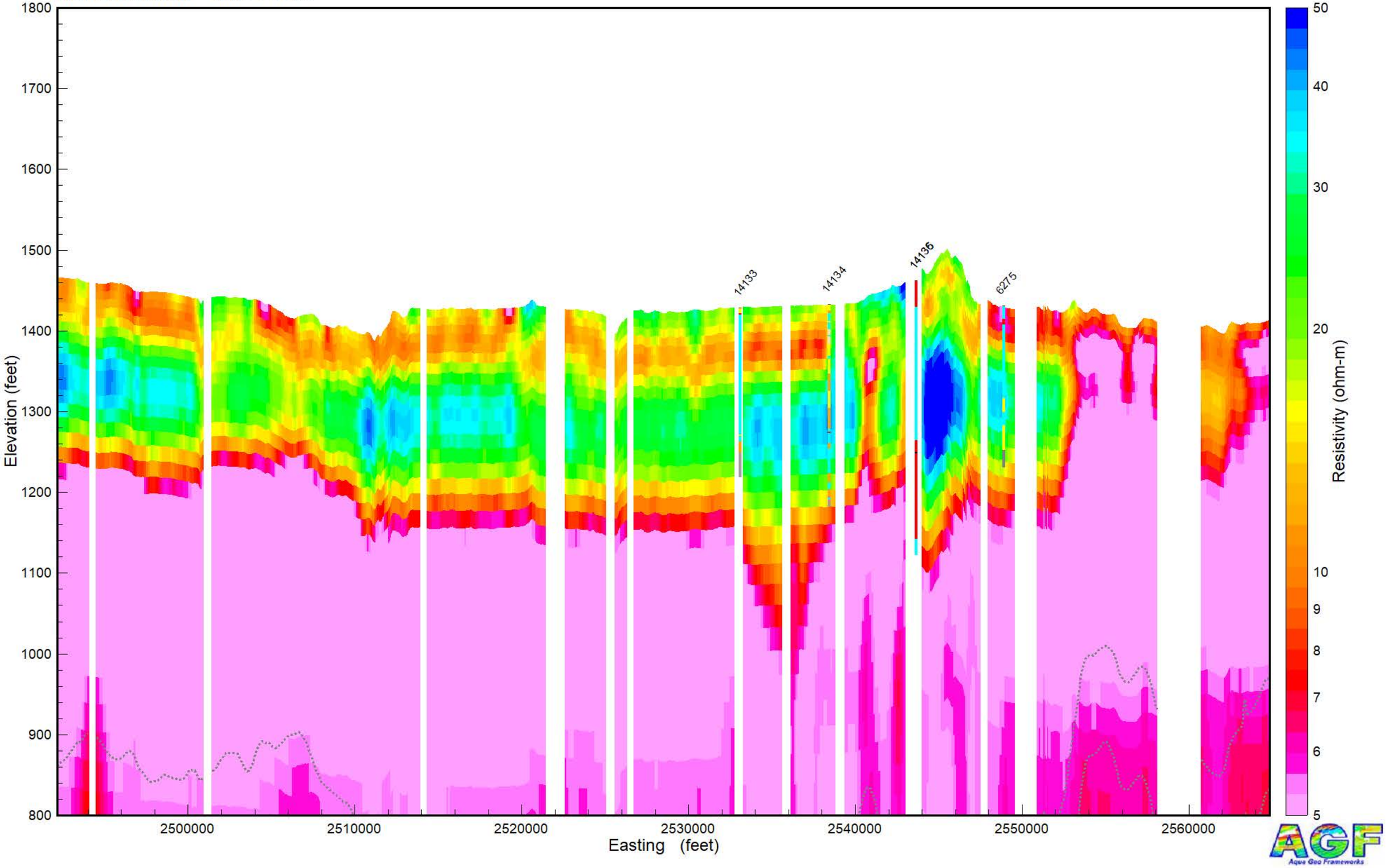

AEM Inversion Line L3205
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
6295
6288
6352
19019
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
2520000
2530000
2540000
2550000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L3215
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
2520000
2530000
2540000
2550000
2560000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

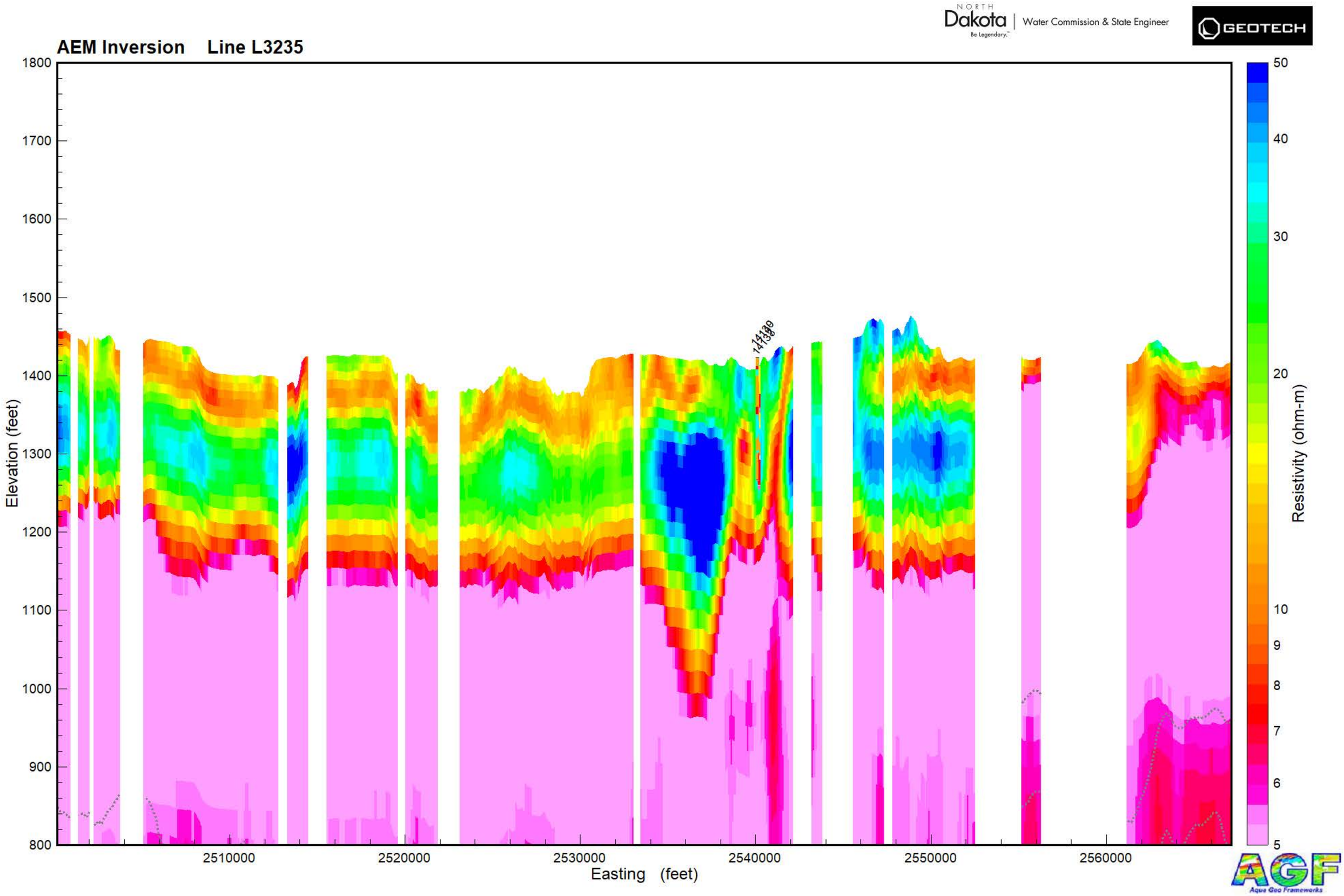
North Dakota Water Commission & State Engineer

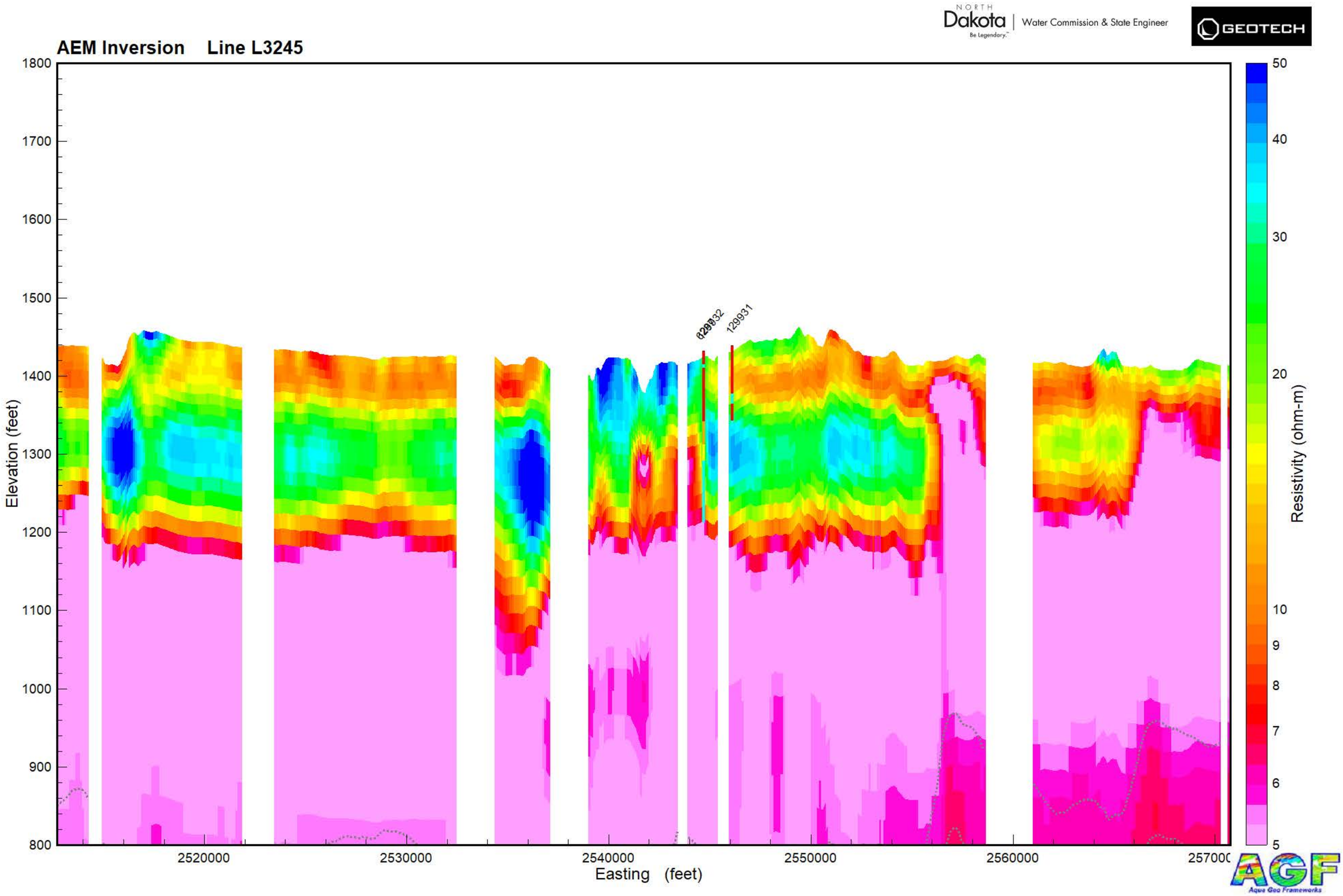
GEOTECH

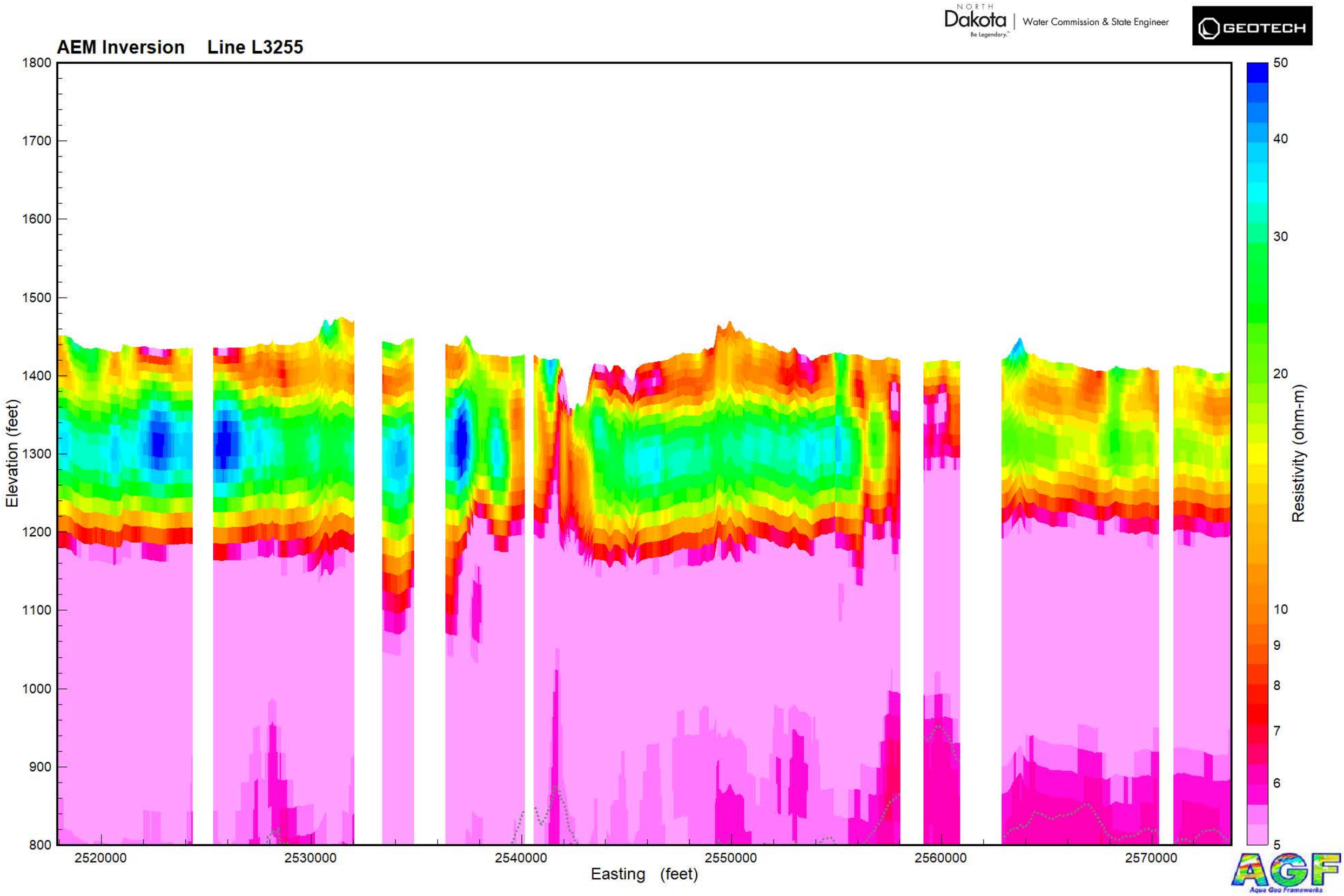
AEM Inversion Line L3225

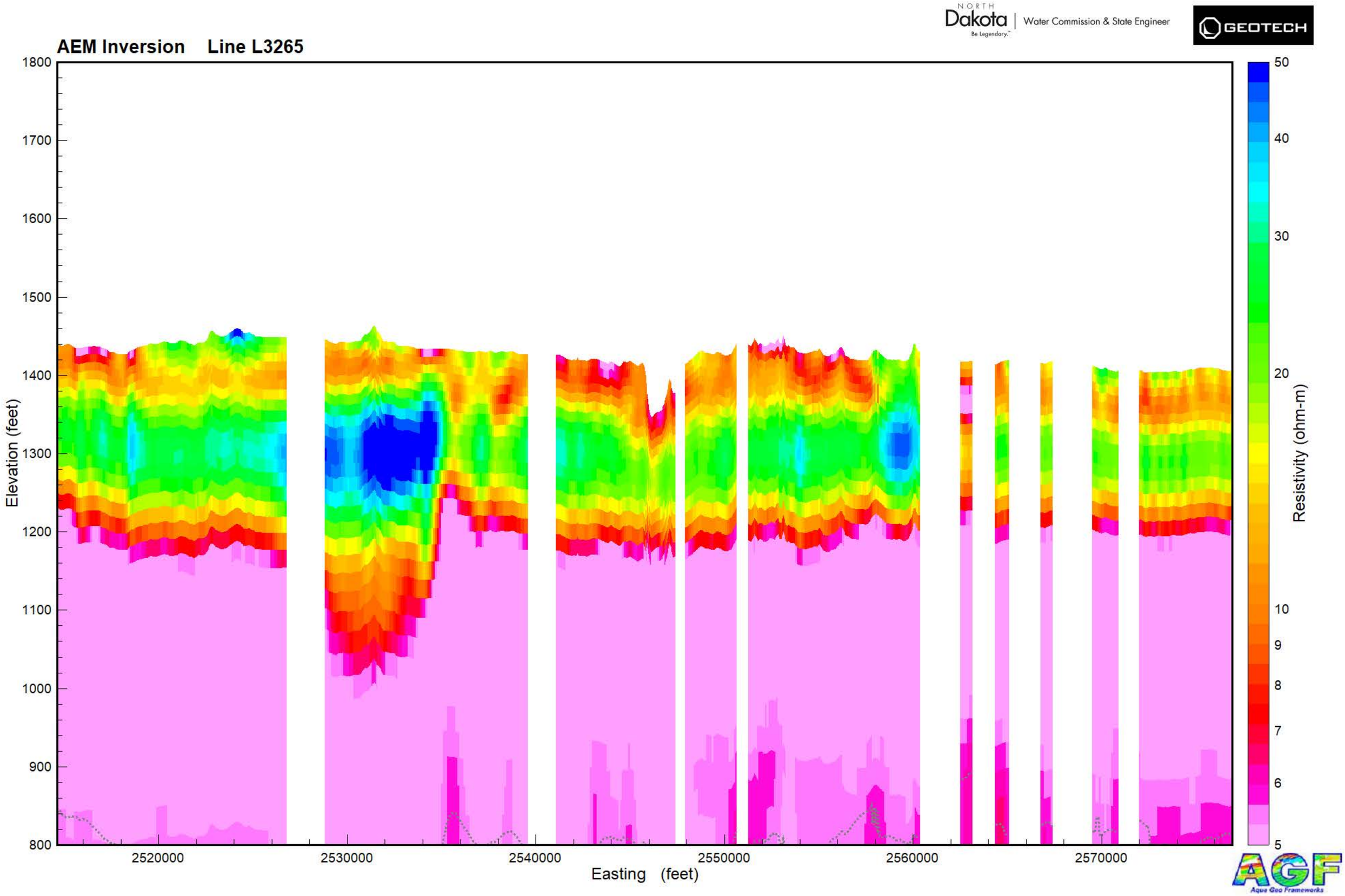


AGF Aqua Geo Frameworks

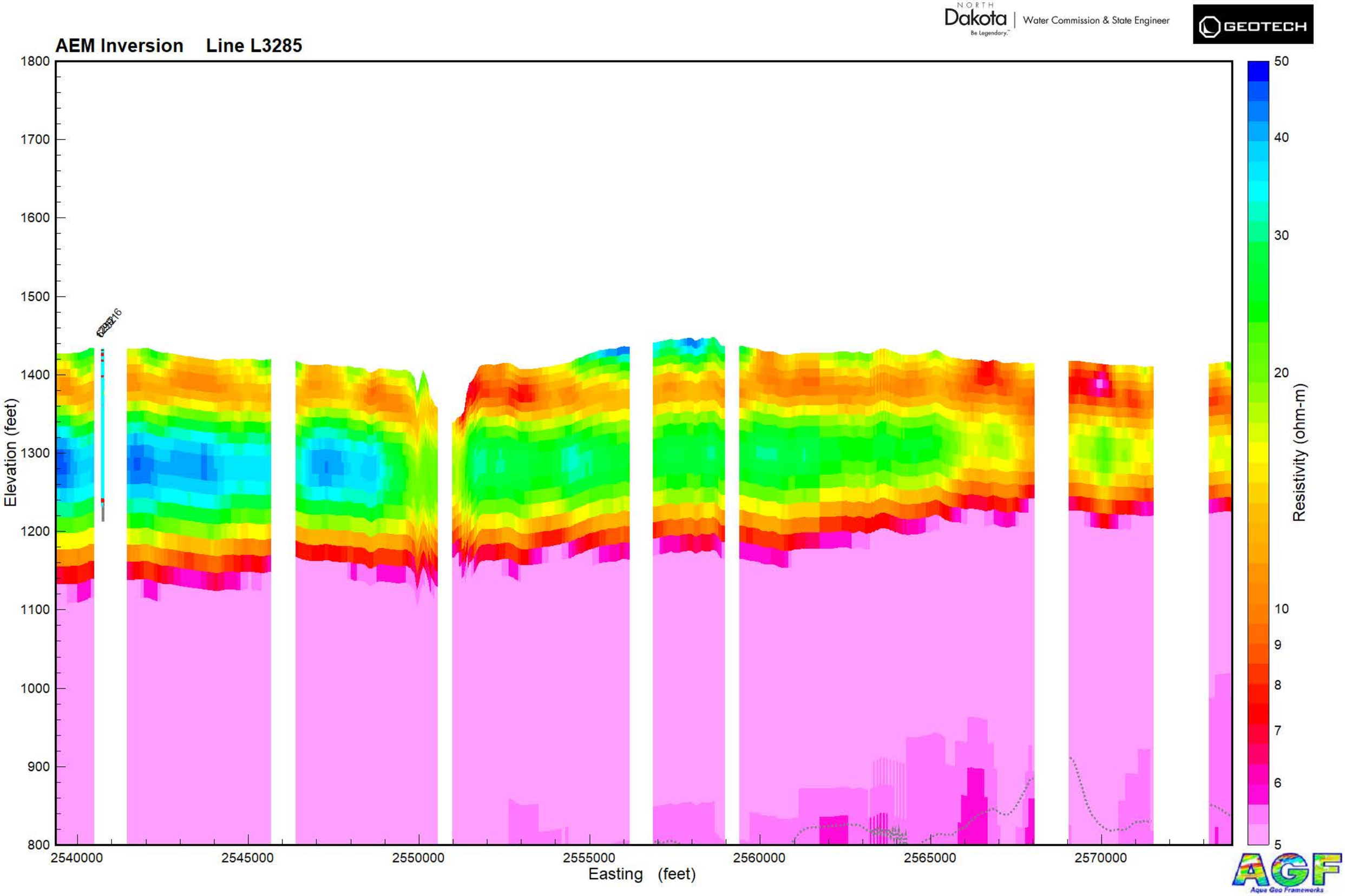

AEM Inversion Line L3235
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2510000
2520000
2530000
2540000
2550000
2560000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L3245
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
Elevation (feet)
129932
129931
2520000
2530000
2540000
2550000
2560000
257000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L3255
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2520000
2530000
2540000
2550000
2560000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L3265
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2520000
2530000
2540000
2550000
2560000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

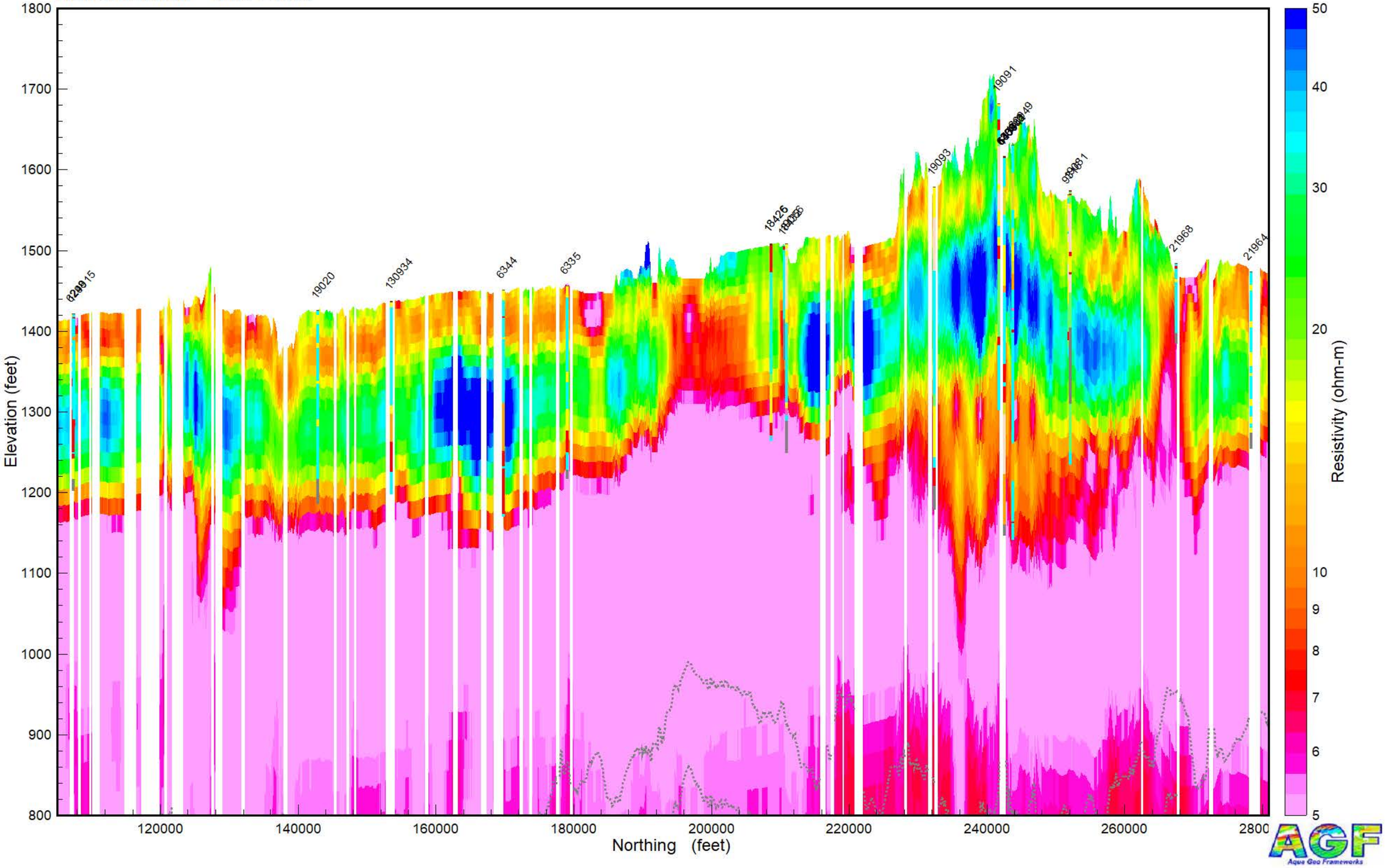

AEM Inversion Line L3275
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2520000
2530000
2540000
2550000
2560000
2570000
Easting (feet)
18996
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L3285
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2540000
2545000
2550000
2555000
2560000
2565000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

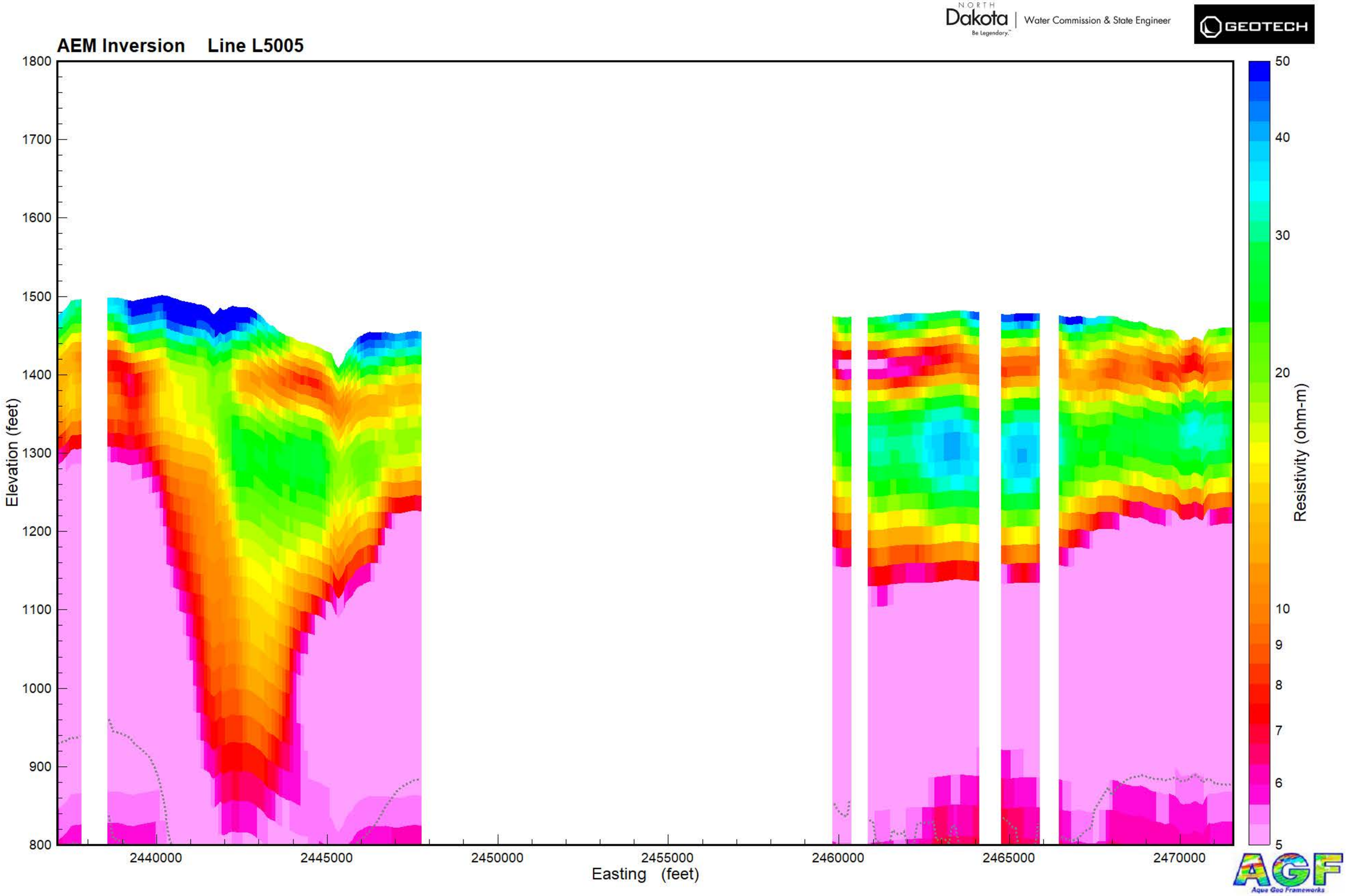
North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L4000



AGF Aqua Geo Frameworks

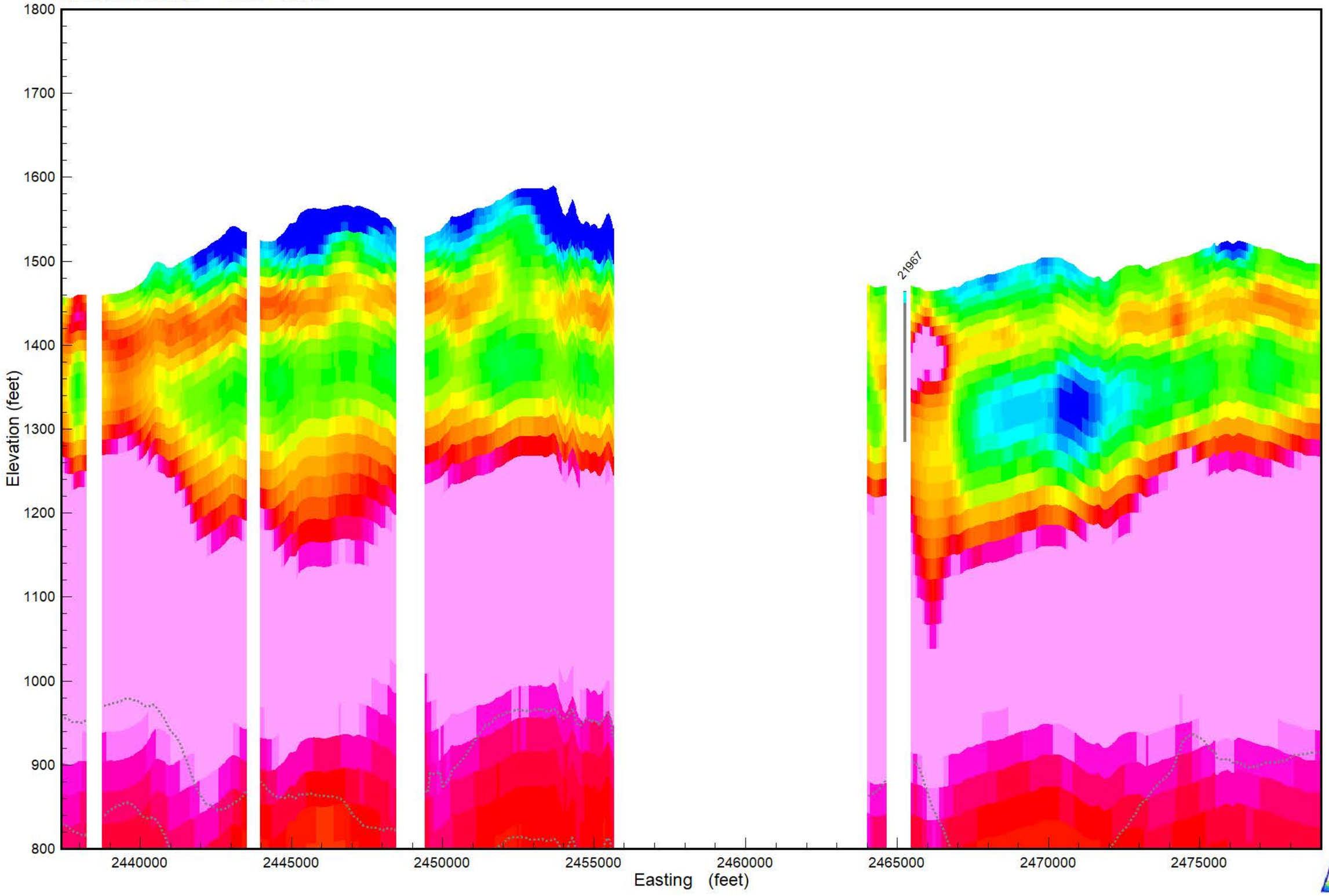

AEM Inversion Line L5005
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2445000
2450000
2455000
2460000
2465000
2470000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5030
21964
9307
21965
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2445000
2450000
2455000
2460000
2465000
2470000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

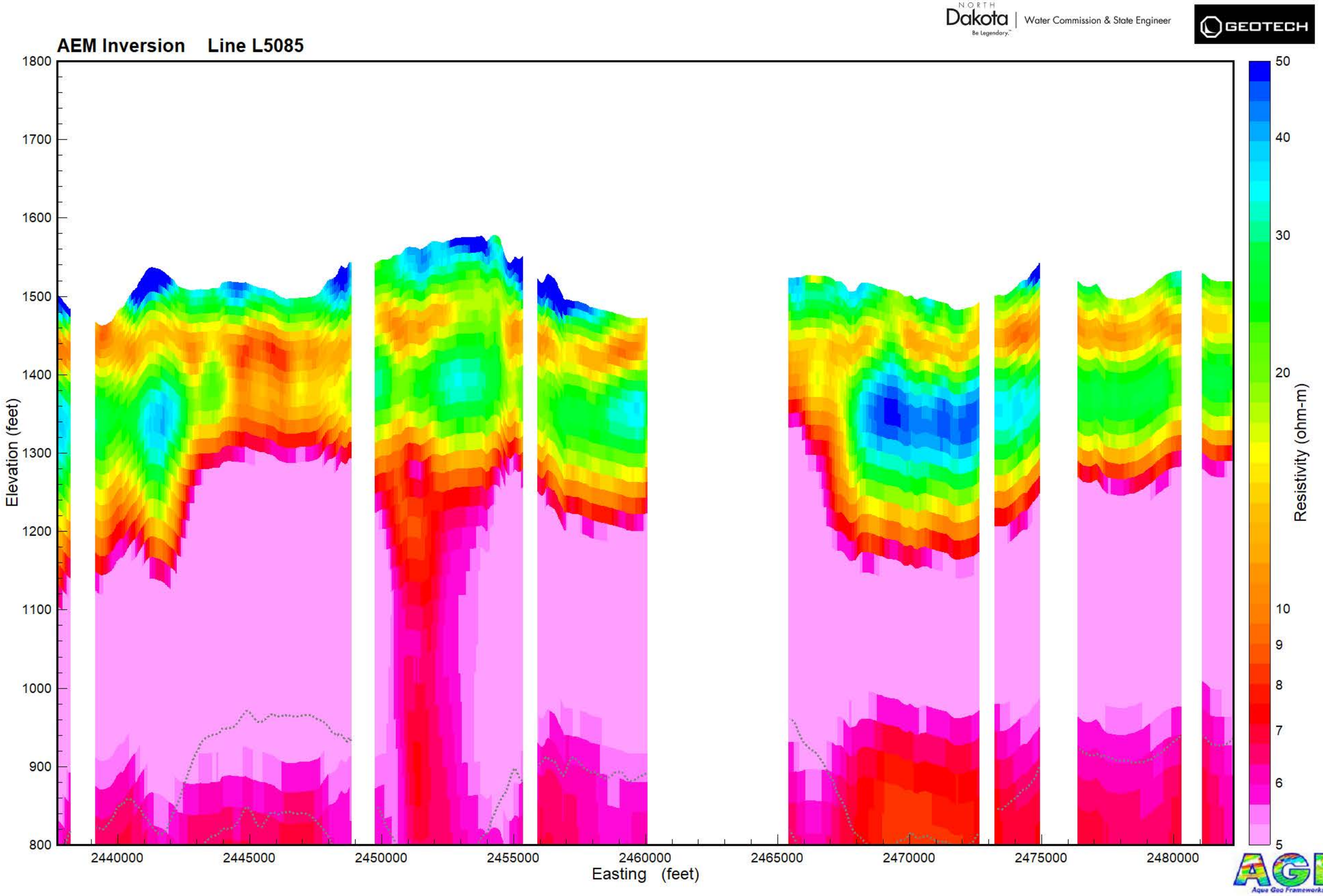
North Dakota Water Commission & State Engineer

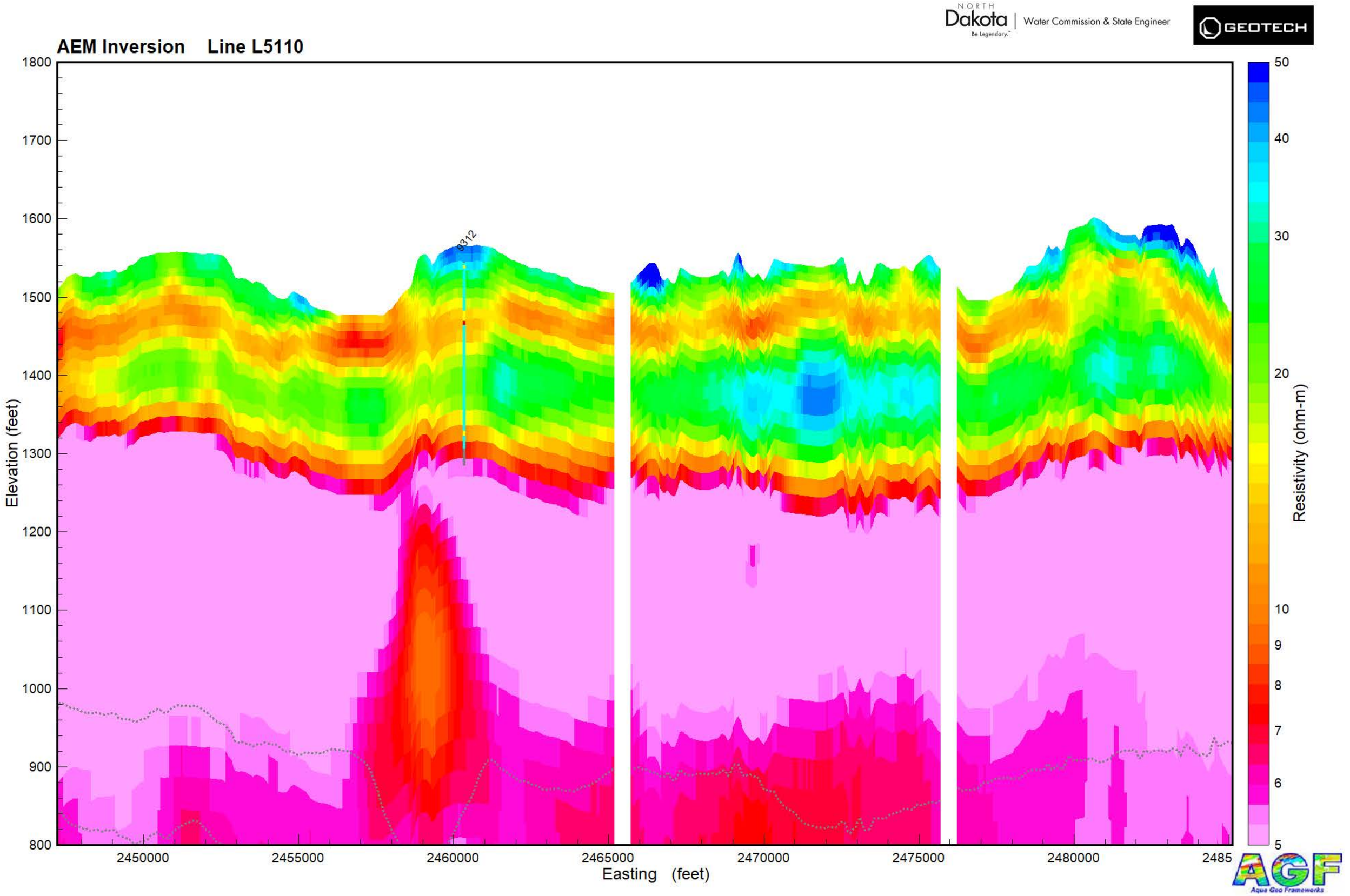
GEOTECH

AEM Inversion Line L5055



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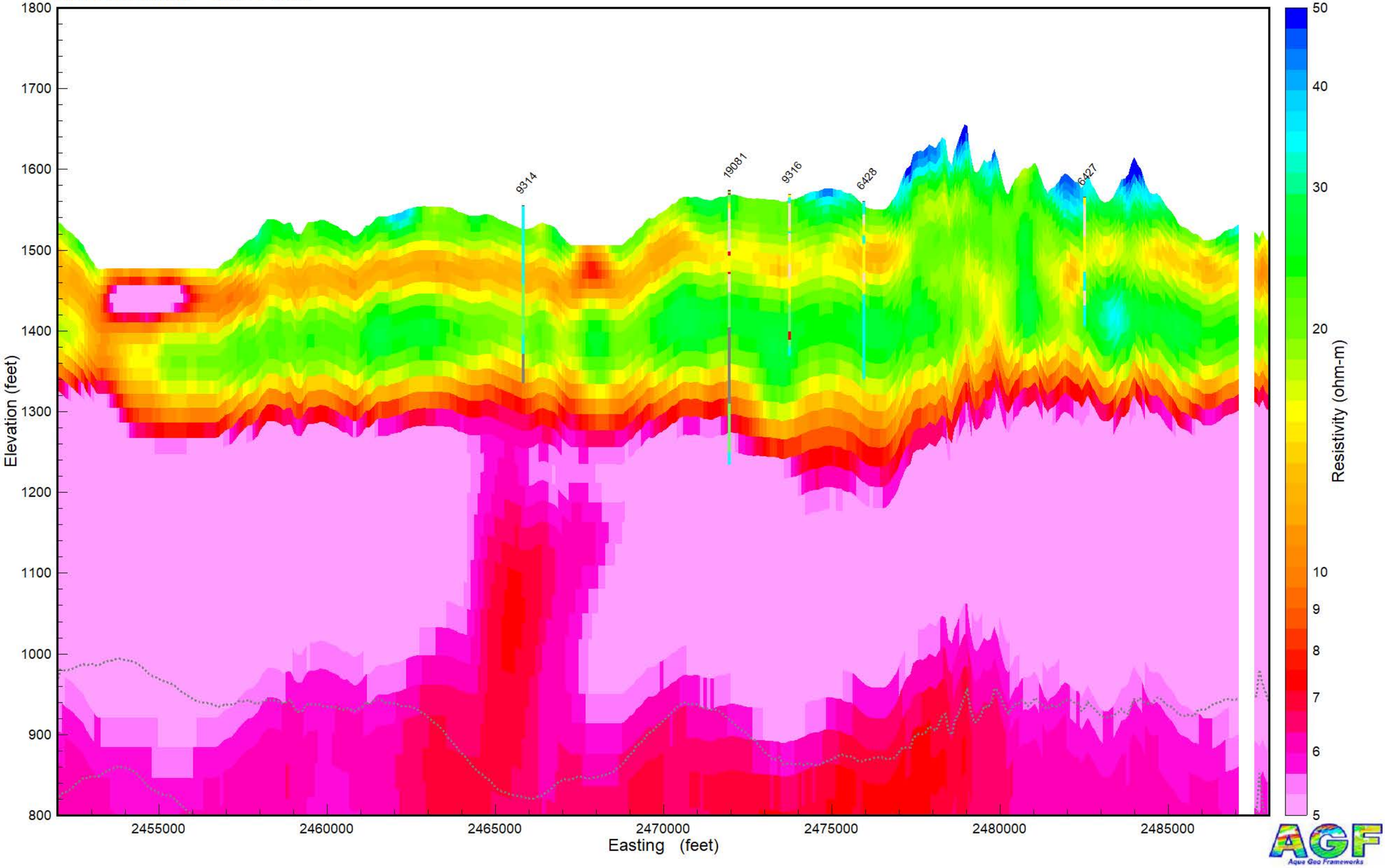

AEM Inversion Line L5085
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2445000
2450000
2455000
2460000
2465000
2470000
2475000
2480000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5110
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
9312
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2450000
2455000
2460000
2465000
2470000
2475000
2480000
2485
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

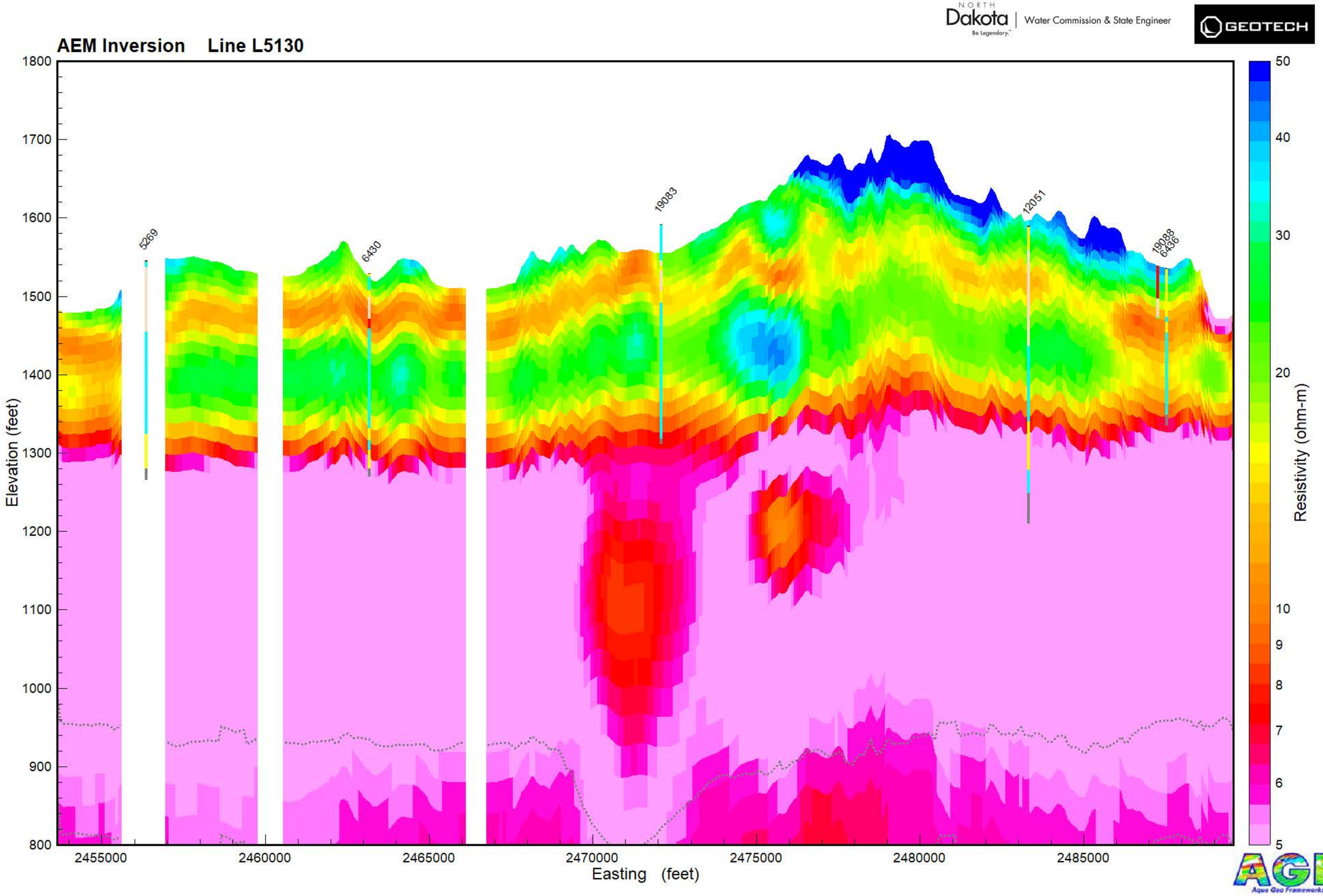
North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5120



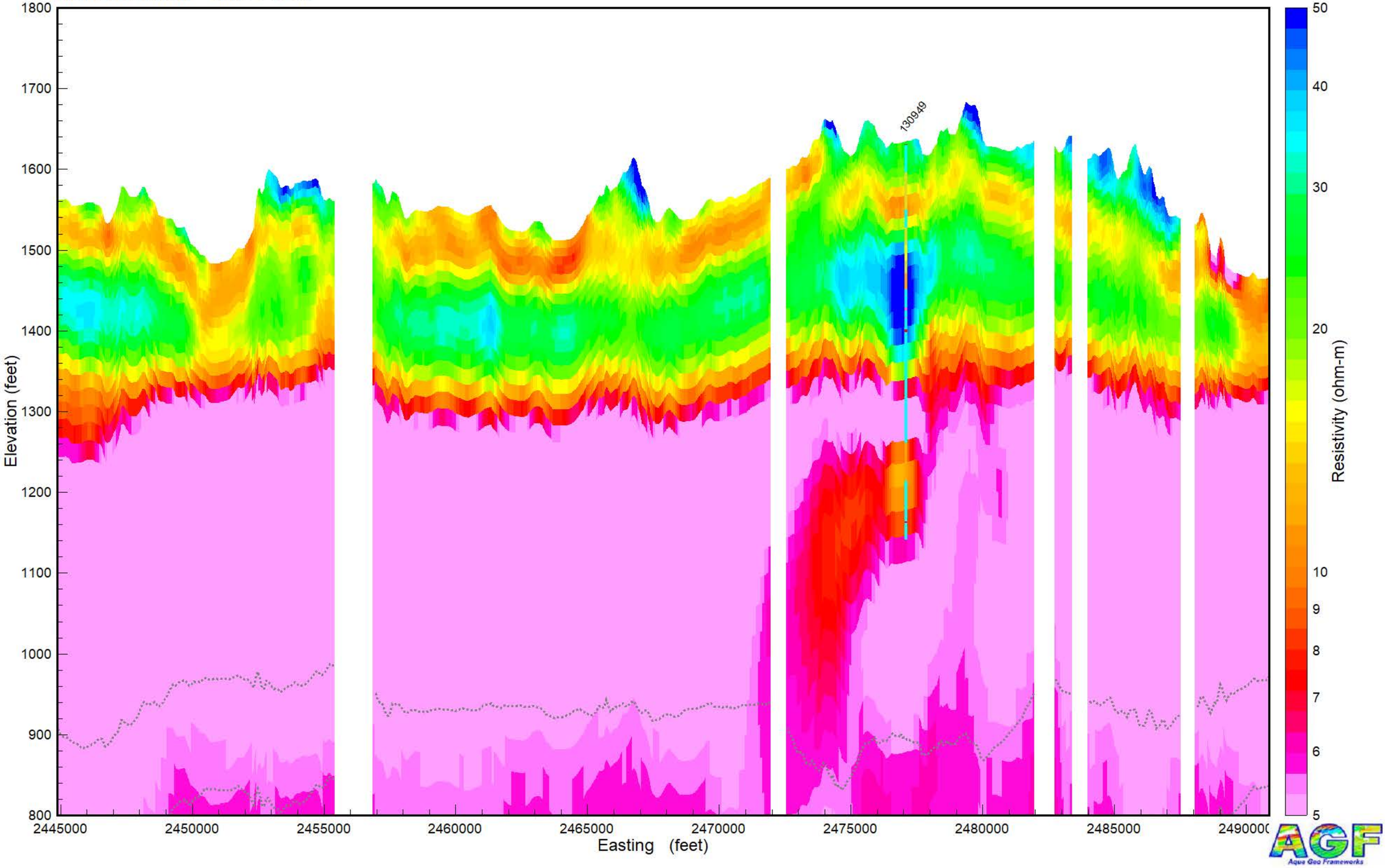
AGF Aqua Geo Frameworks


AEM Inversion Line L5130
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
5269
6430
19083
12051
19088
6436
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2455000
2460000
2465000
2470000
2475000
2480000
2485000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5140

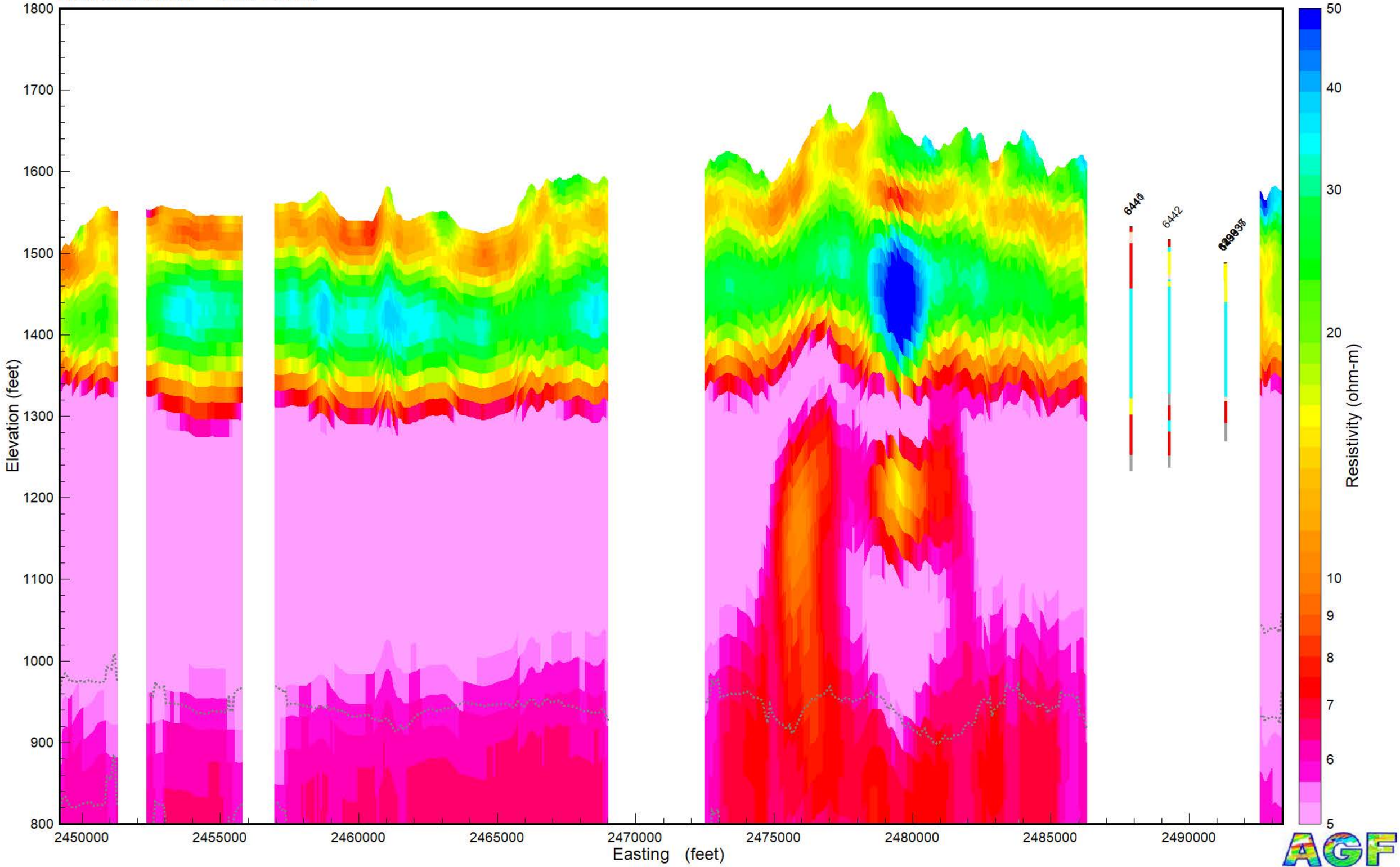


AGF Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

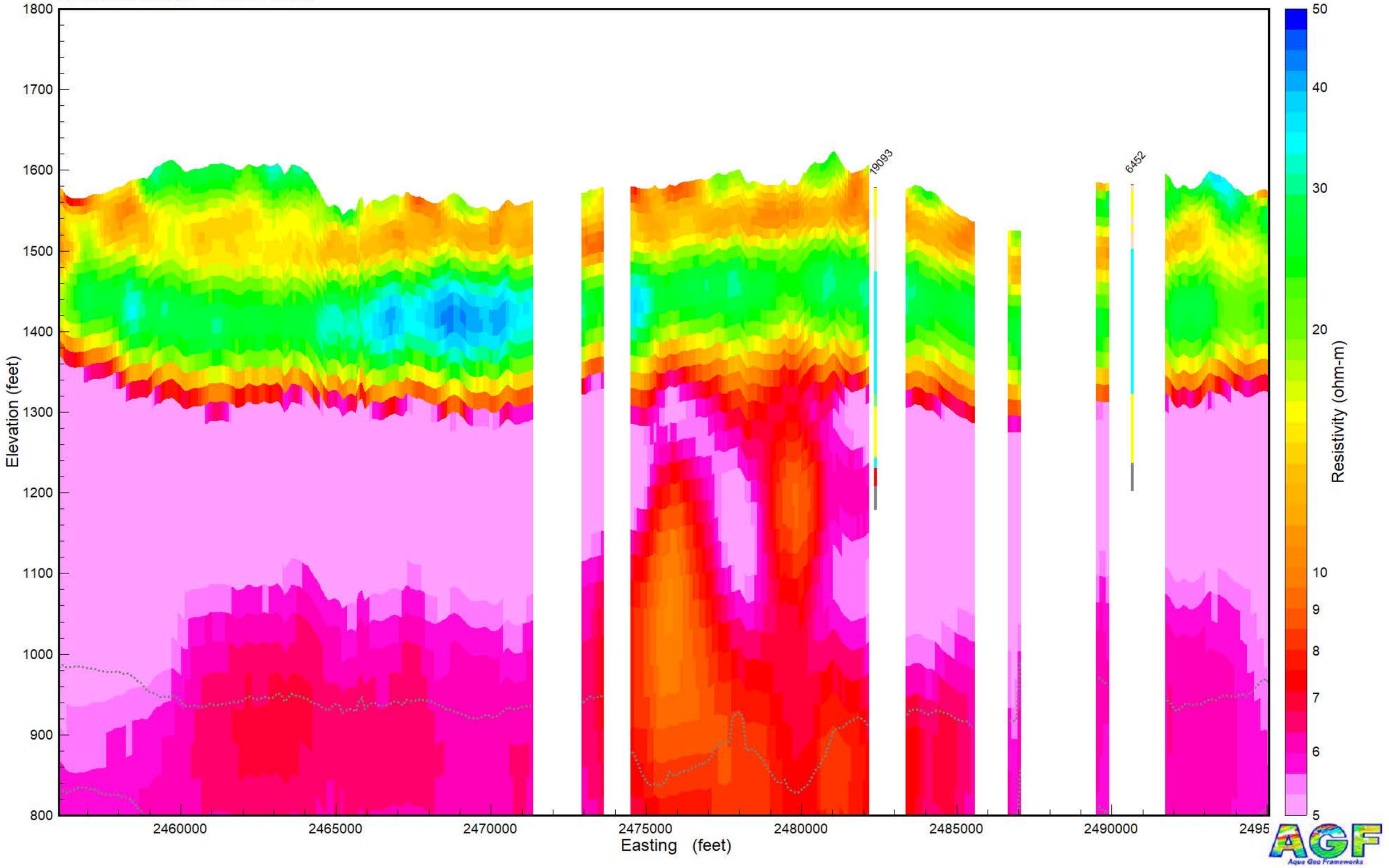
AEM Inversion Line L5150



AGF Aqua Geo Frameworks

NORTH Dakota Be Legendary. | Water Commission & State Engineer

GEOTECH

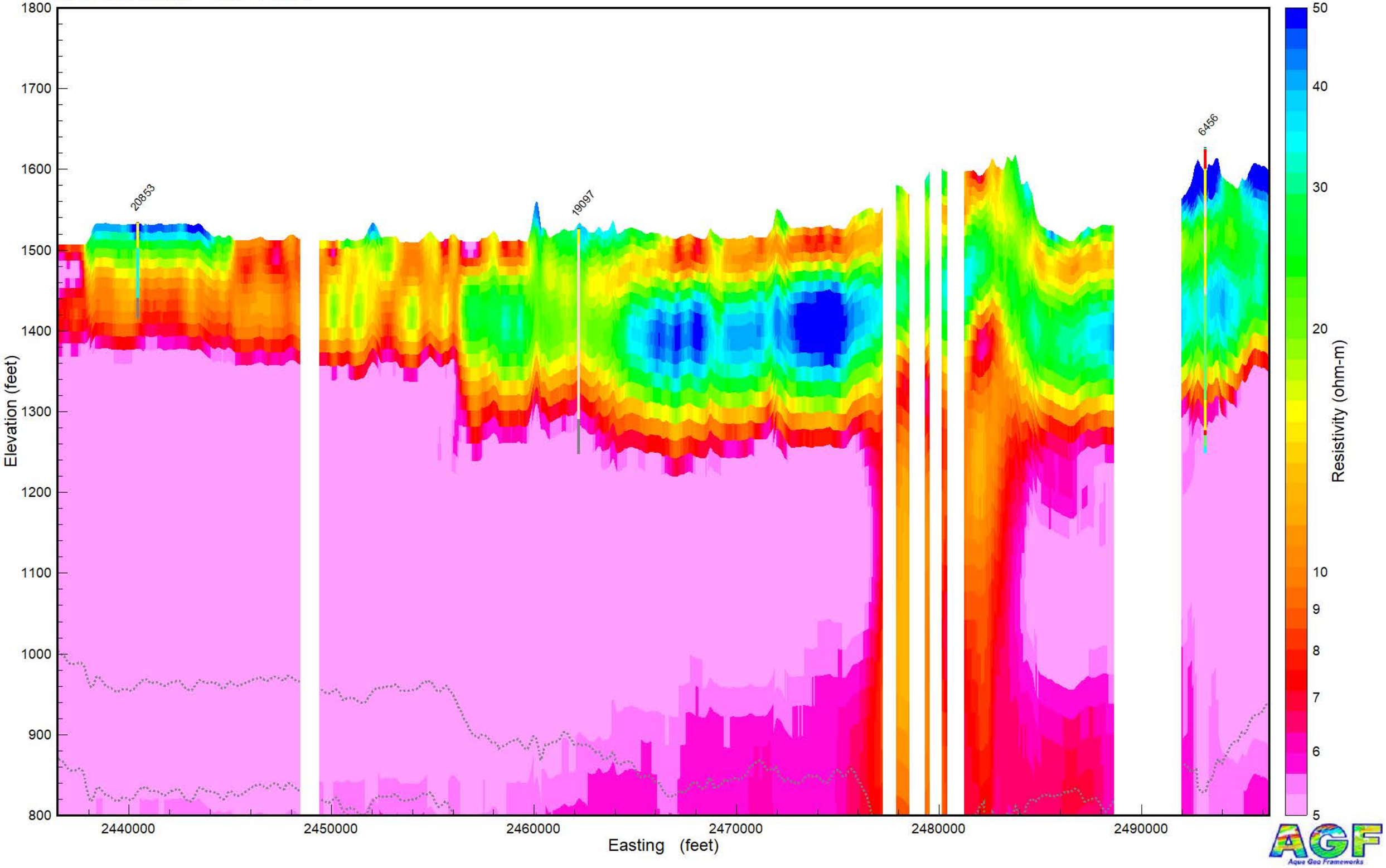


AGF Aqua Geo Frameworks

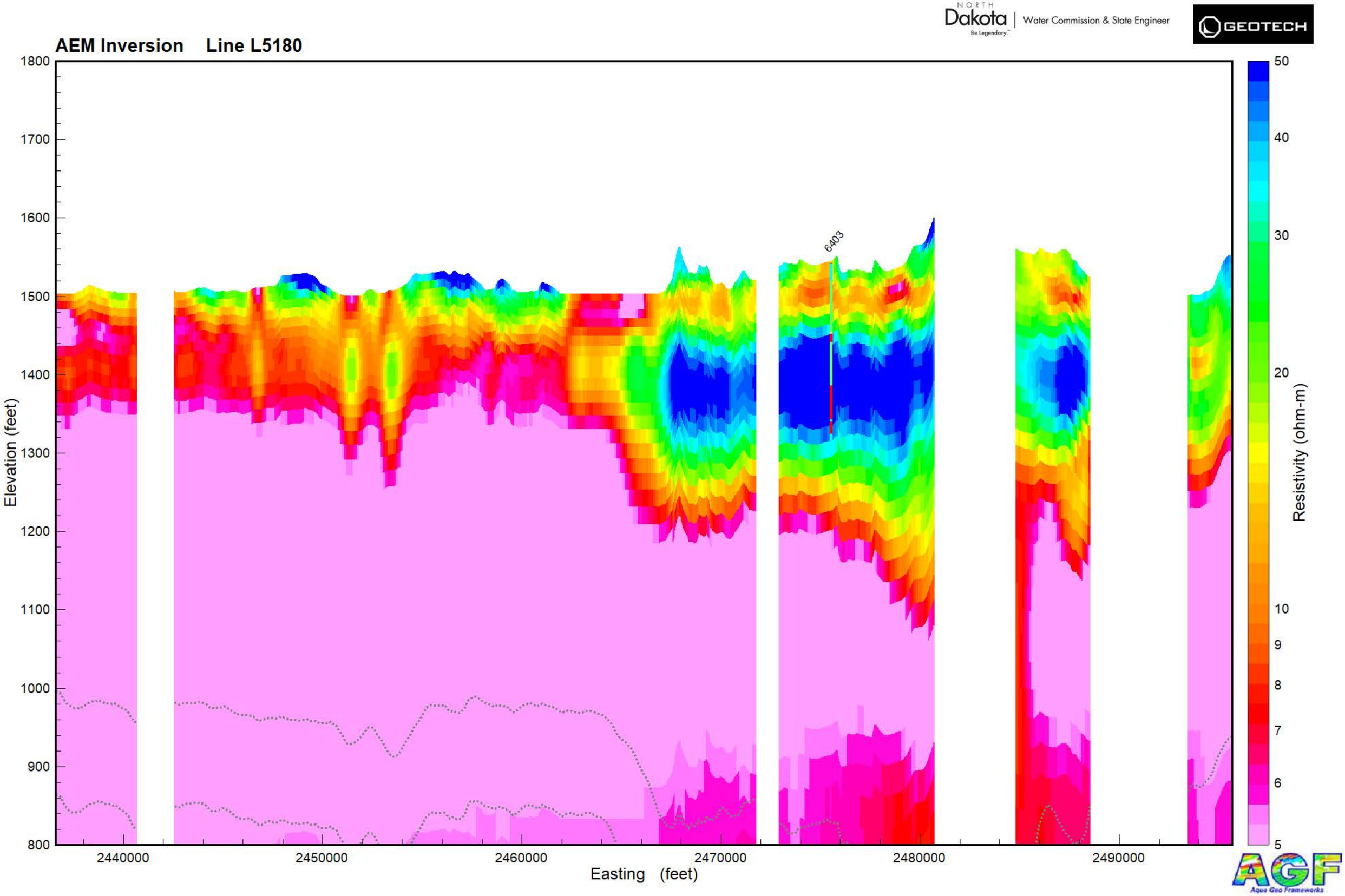
North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5170



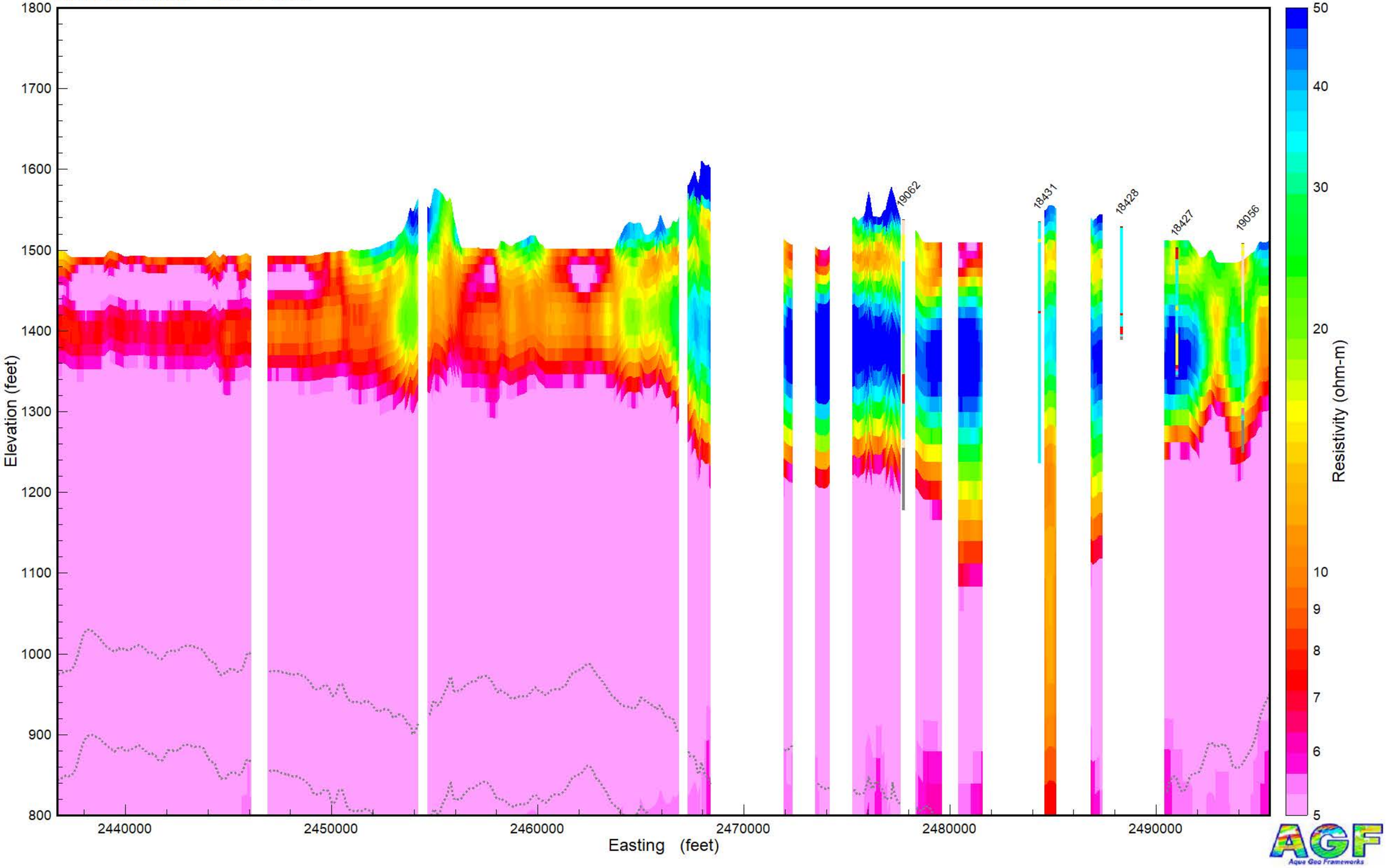
AGF Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5180
6403
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2440000
2450000
2460000
2470000
2480000
2490000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

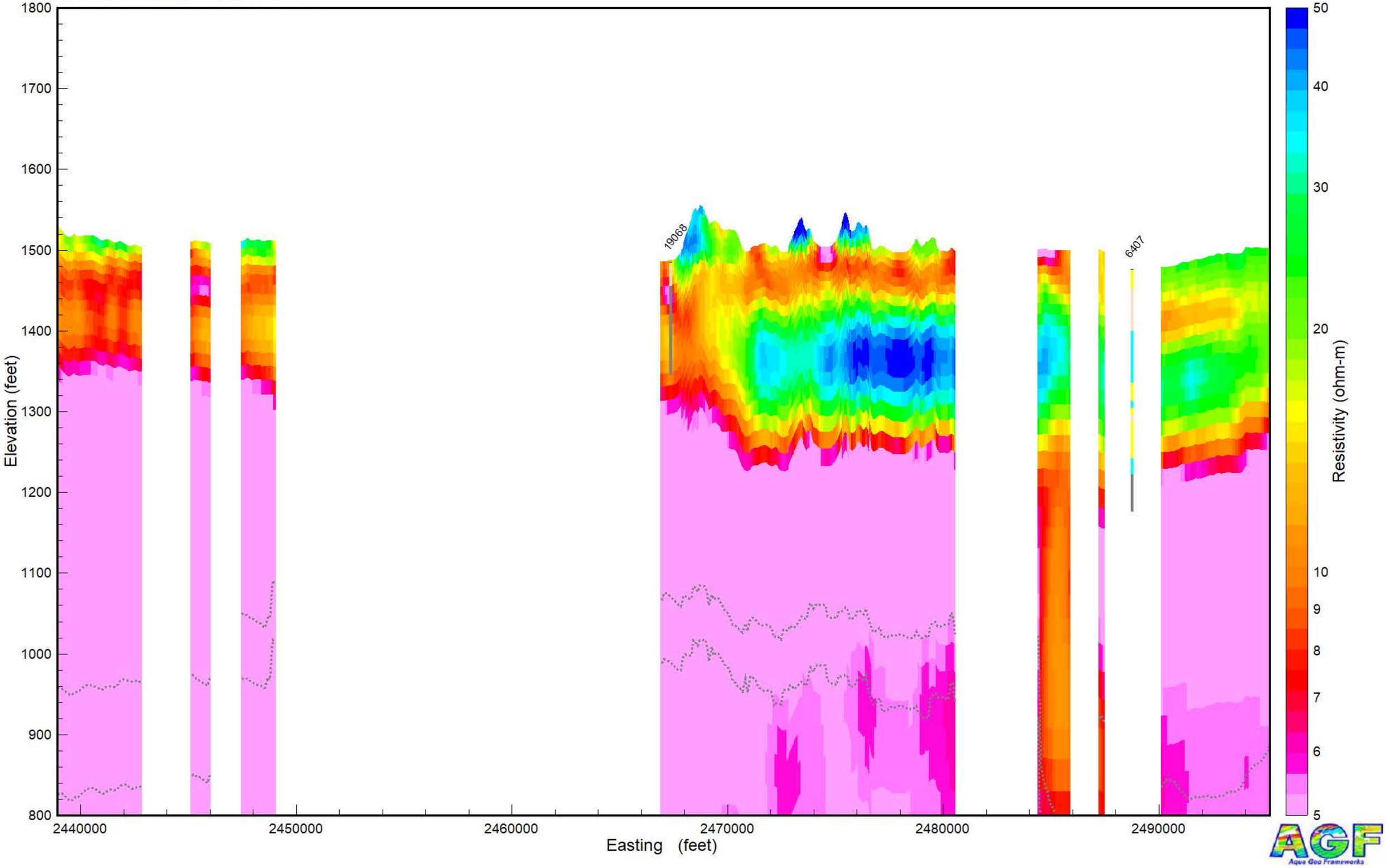
AEM Inversion Line L5190



AGF Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

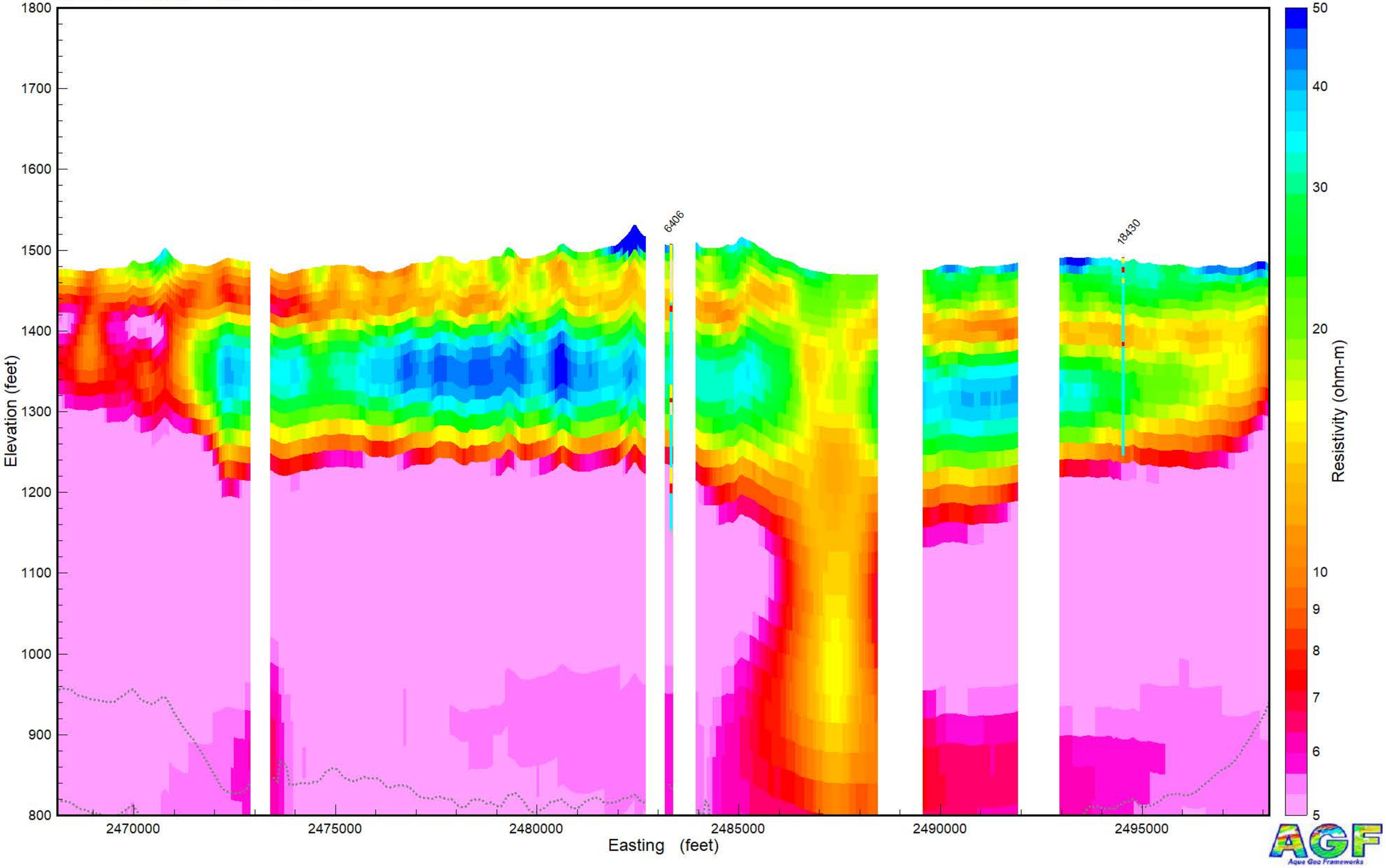


AGF Aqua Geo Frameworks

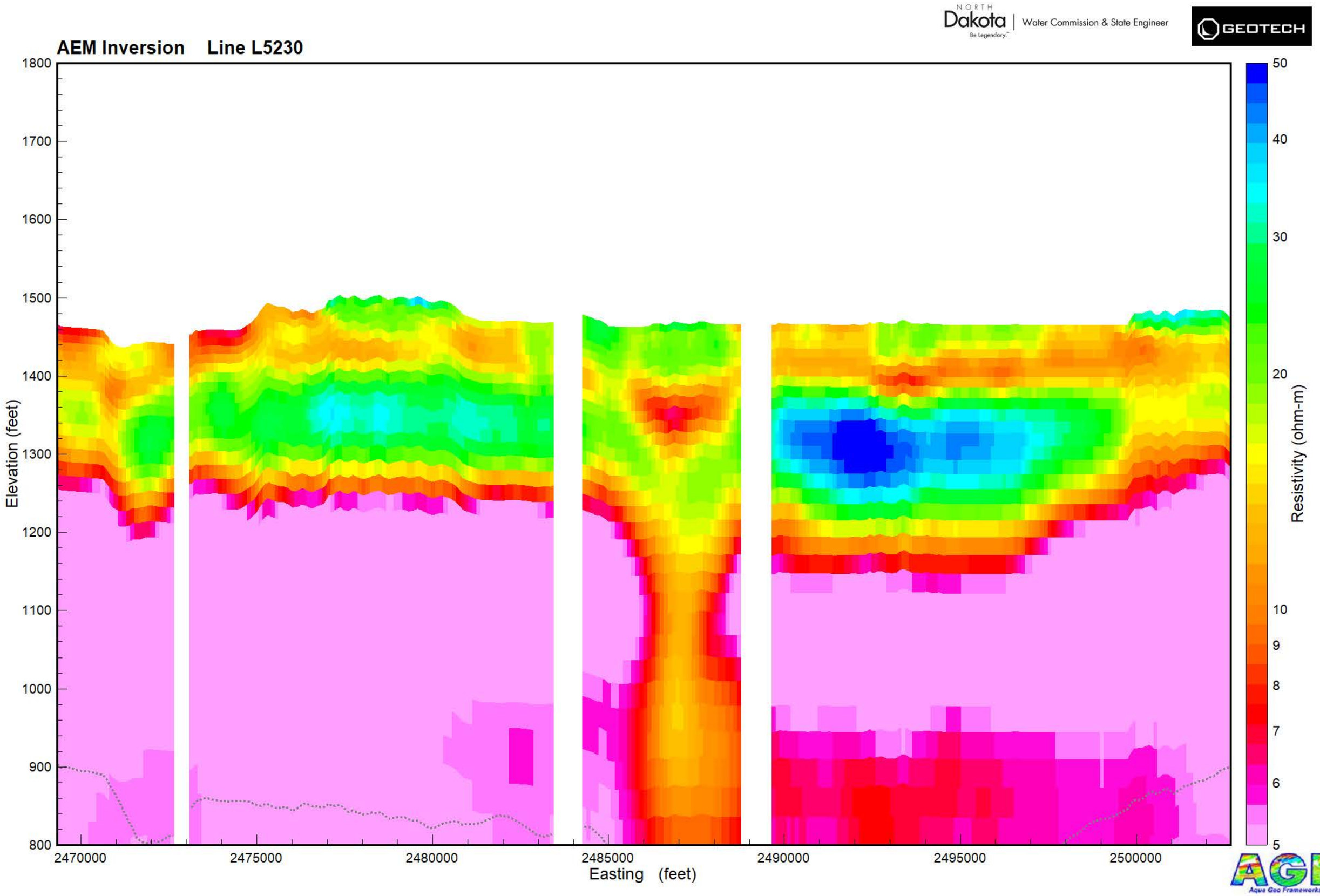
North Dakota Water Commission & State Engineer

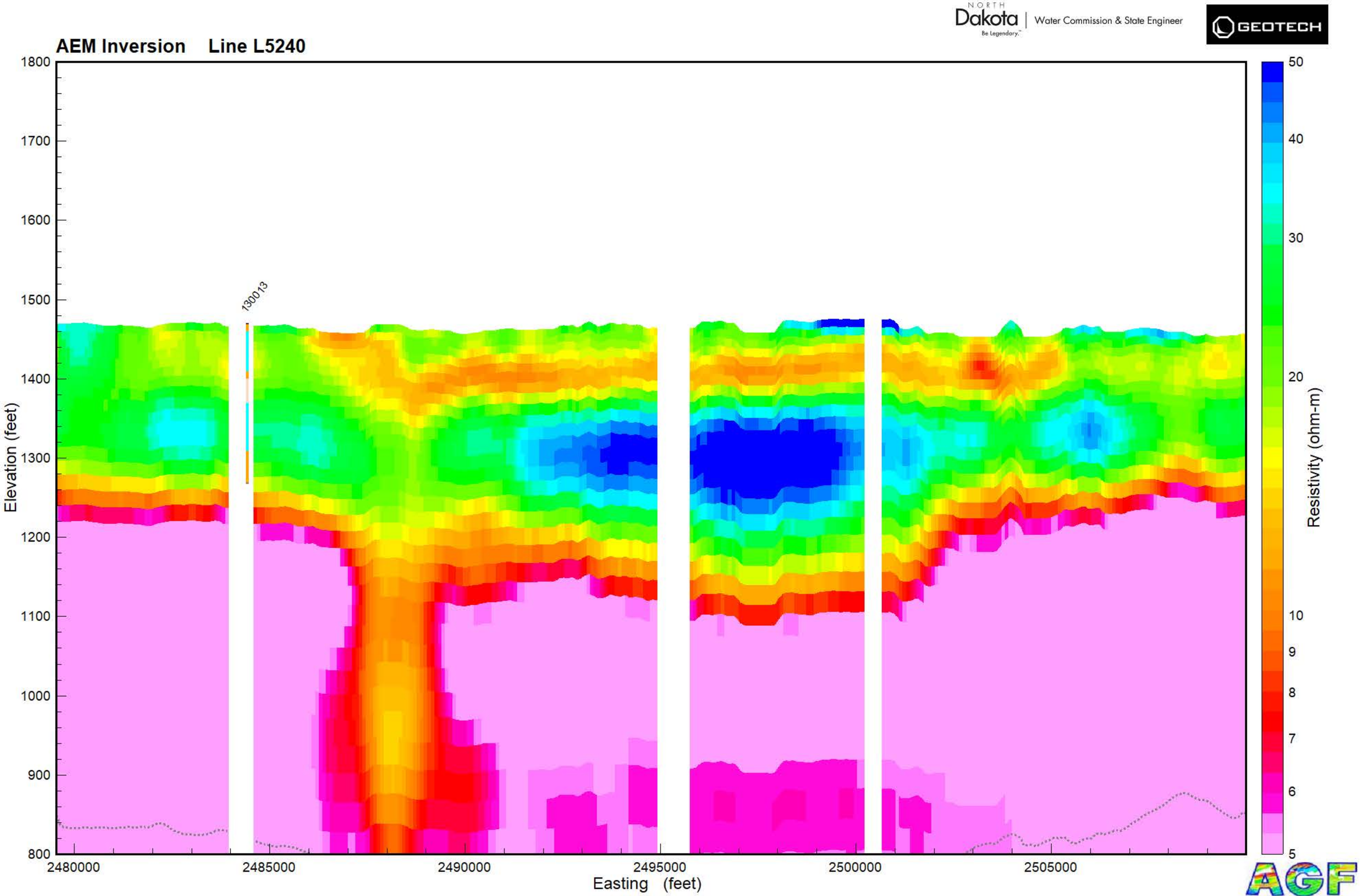
GEOTECH

AEM Inversion Line L5220



AGF Aqua Geo Frameworks

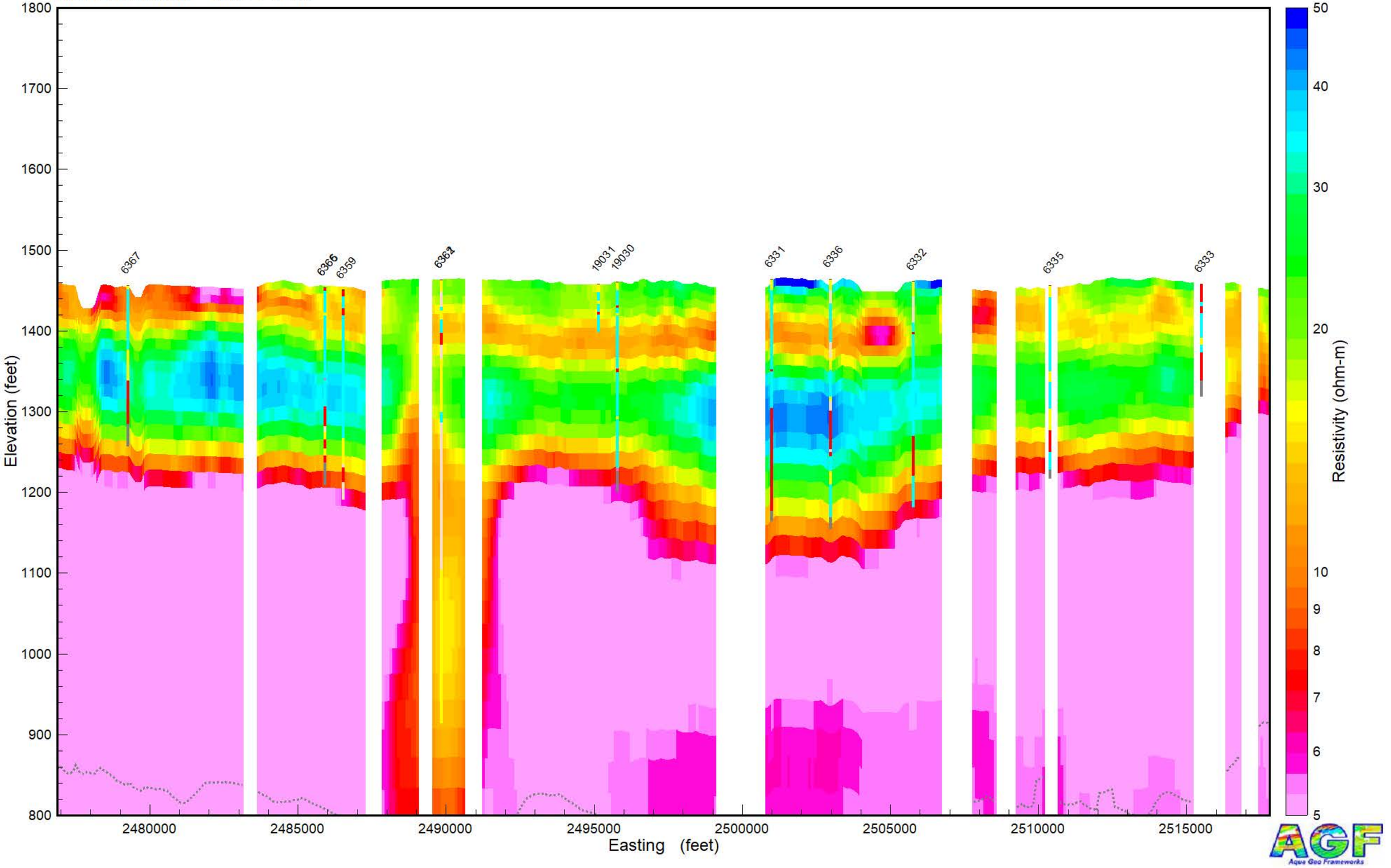

AEM Inversion Line L5230
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2475000
2480000
2485000
2490000
2495000
2500000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5240
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
130013
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2480000
2485000
2490000
2495000
2500000
2505000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5250

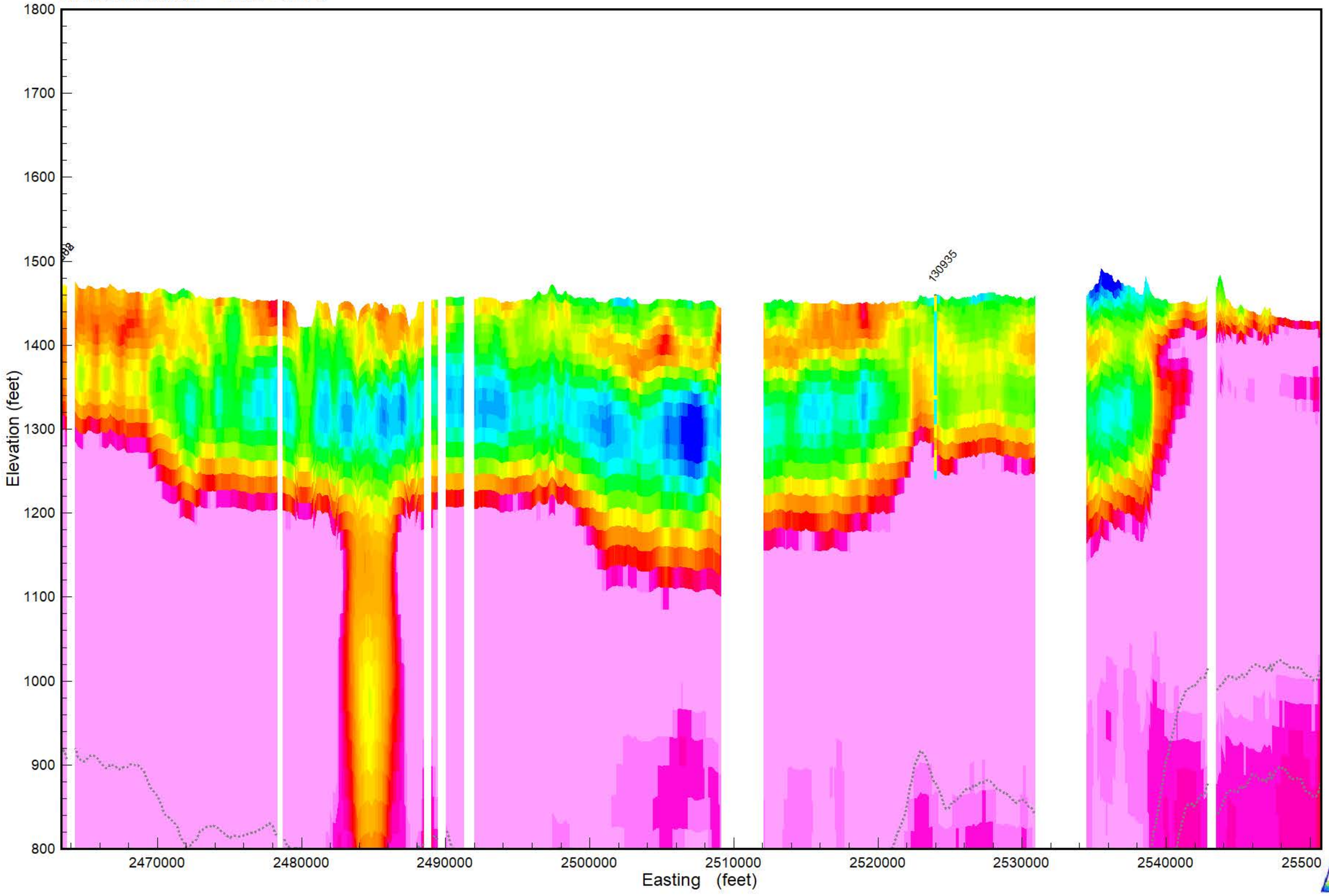


AGF Aqua Geo Frameworks

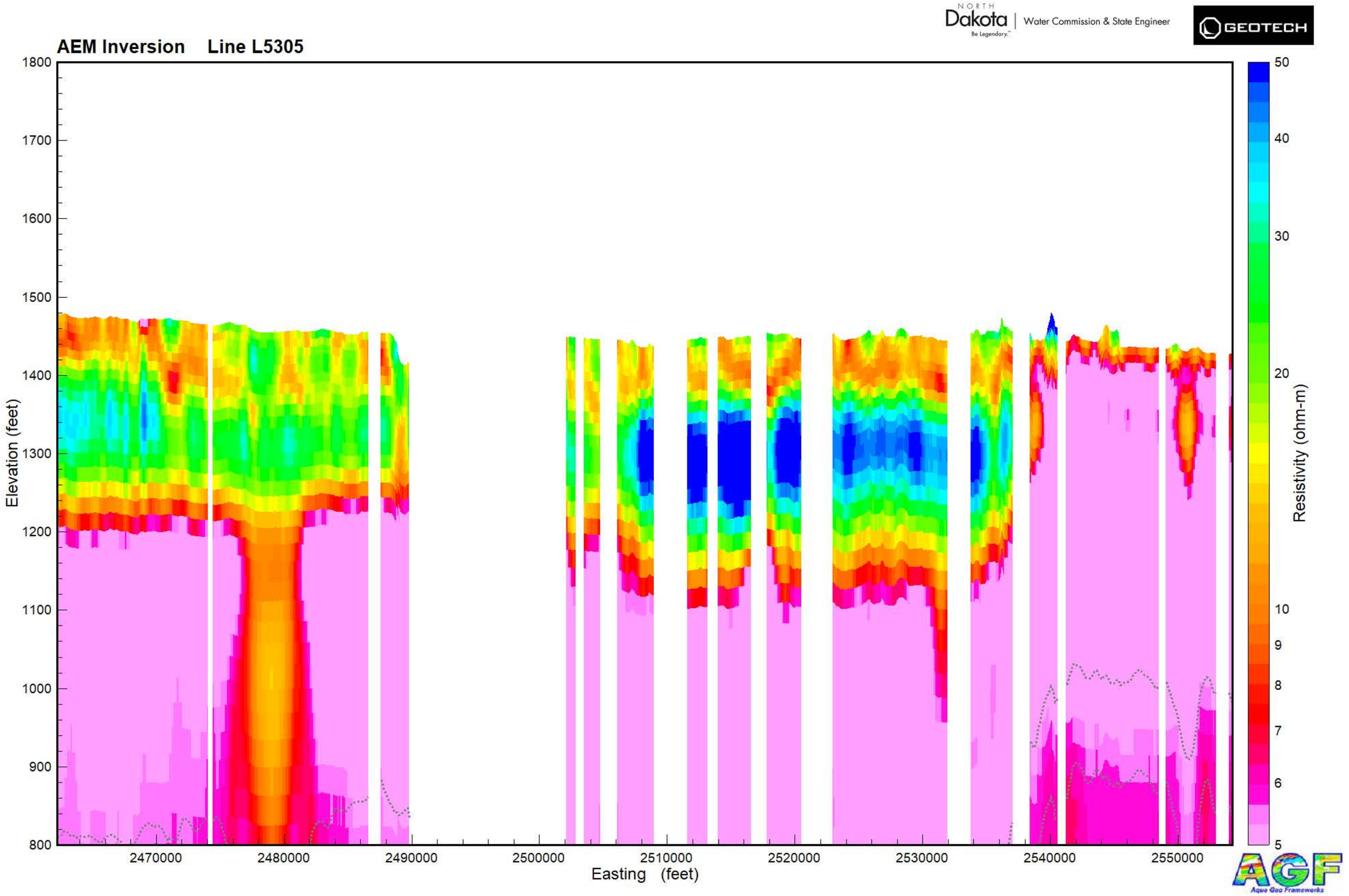
North Dakota Water Commission & State Engineer

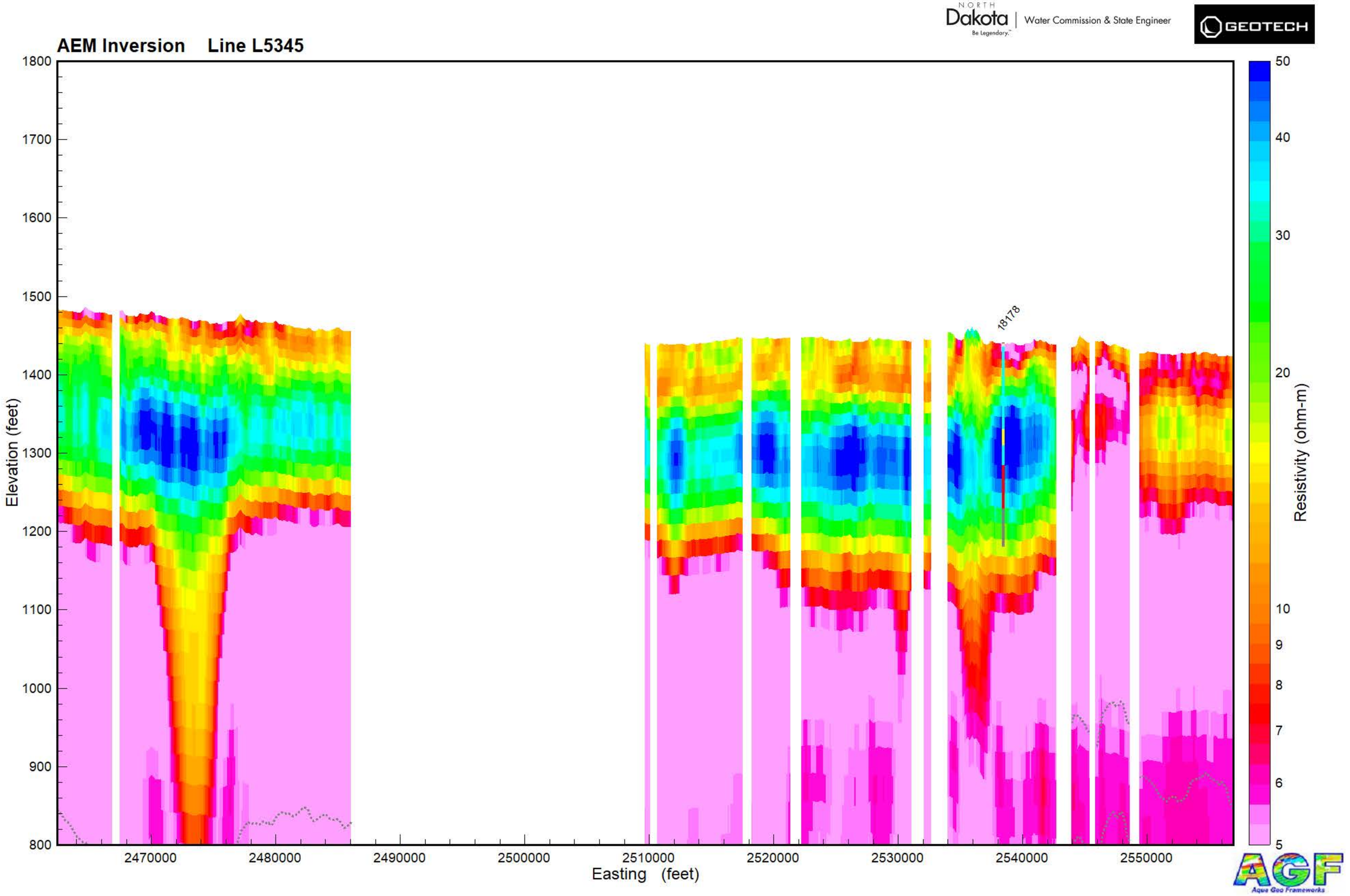
GEOTECH

AEM Inversion Line L5270



AGF Aqua Geo Frameworks

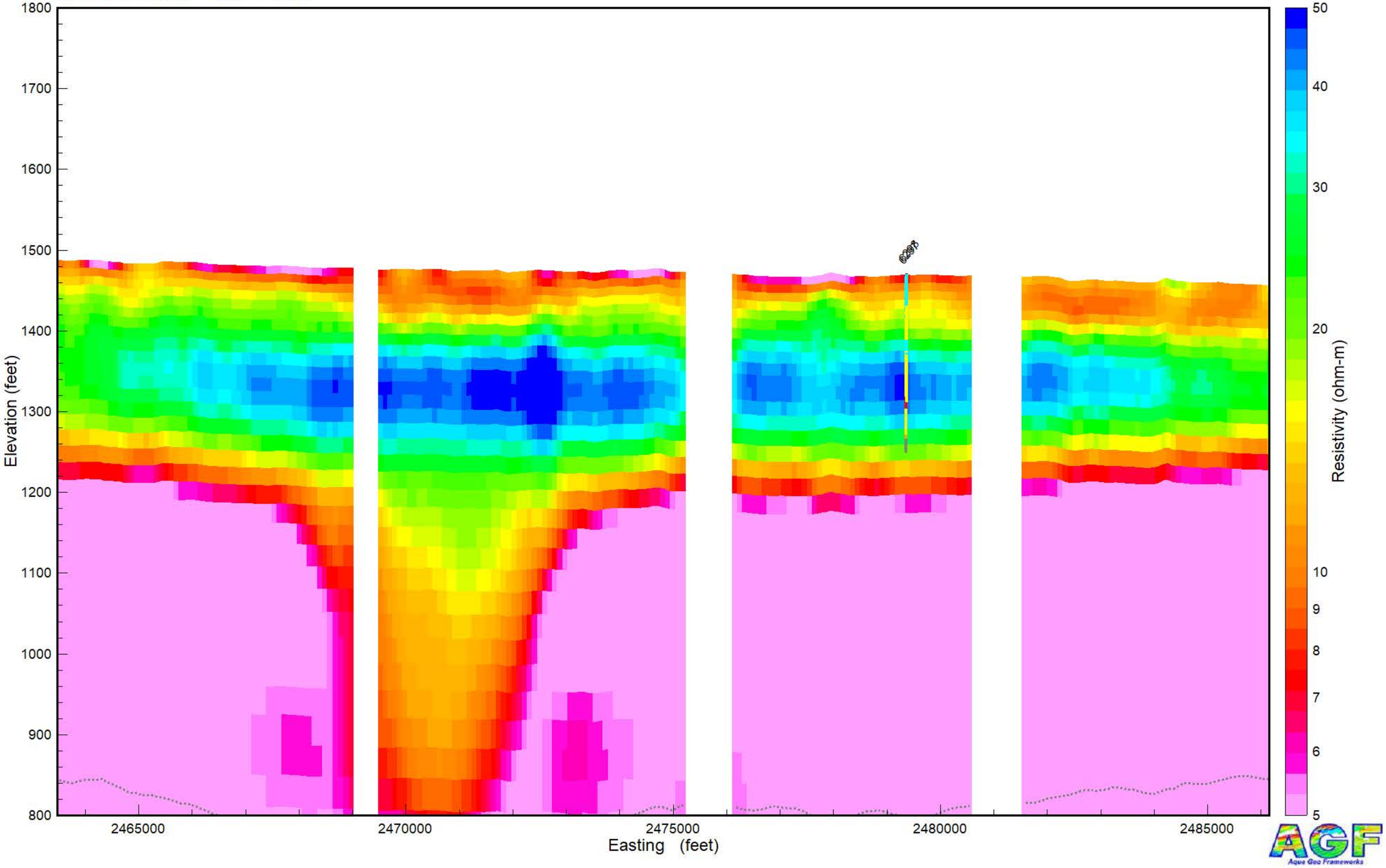

AEM Inversion Line L5305
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
2520000
2530000
2540000
2550000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5345
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
18178
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2470000
2480000
2490000
2500000
2510000
2520000
2530000
2540000
2550000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

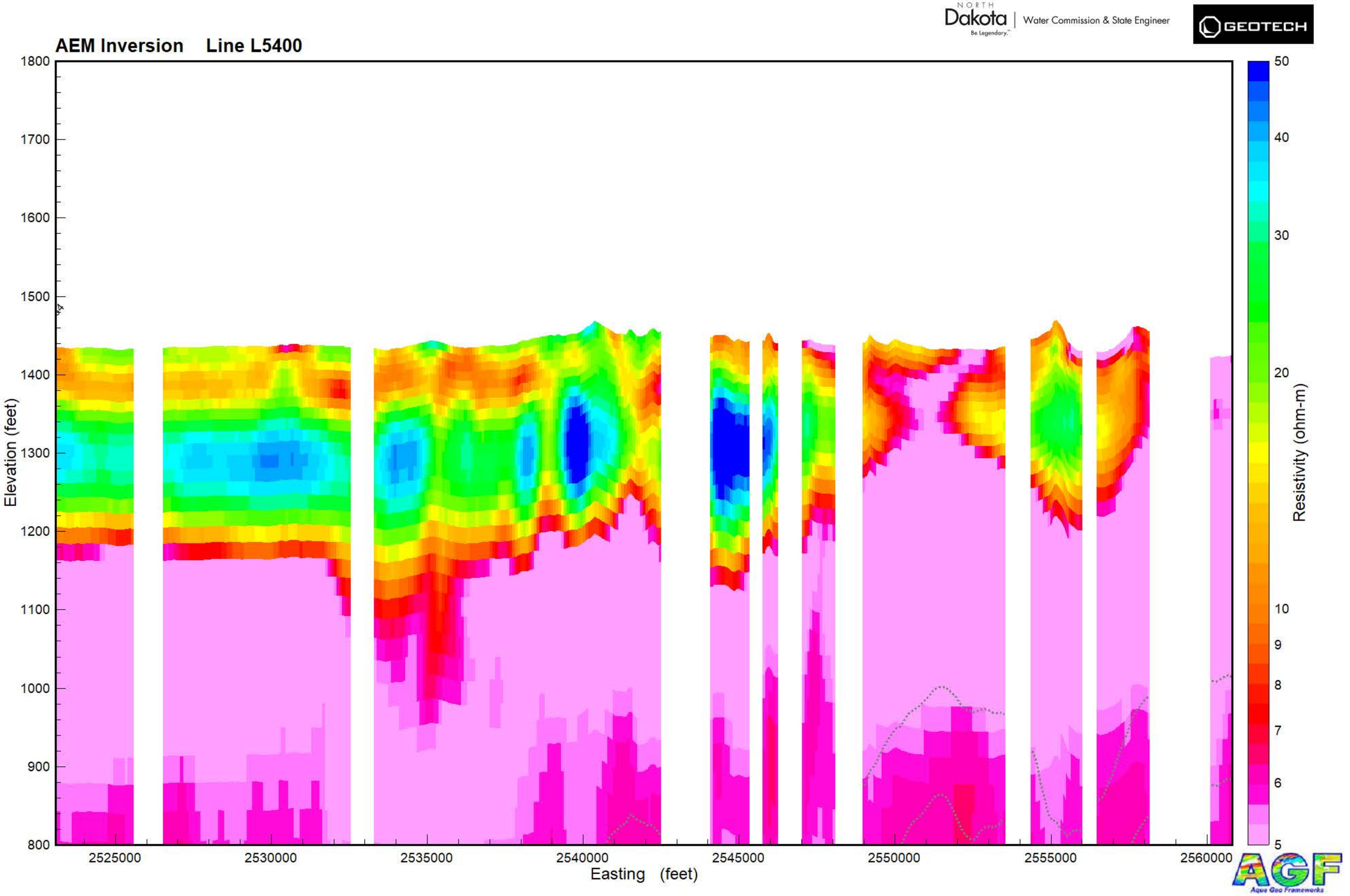
North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5380



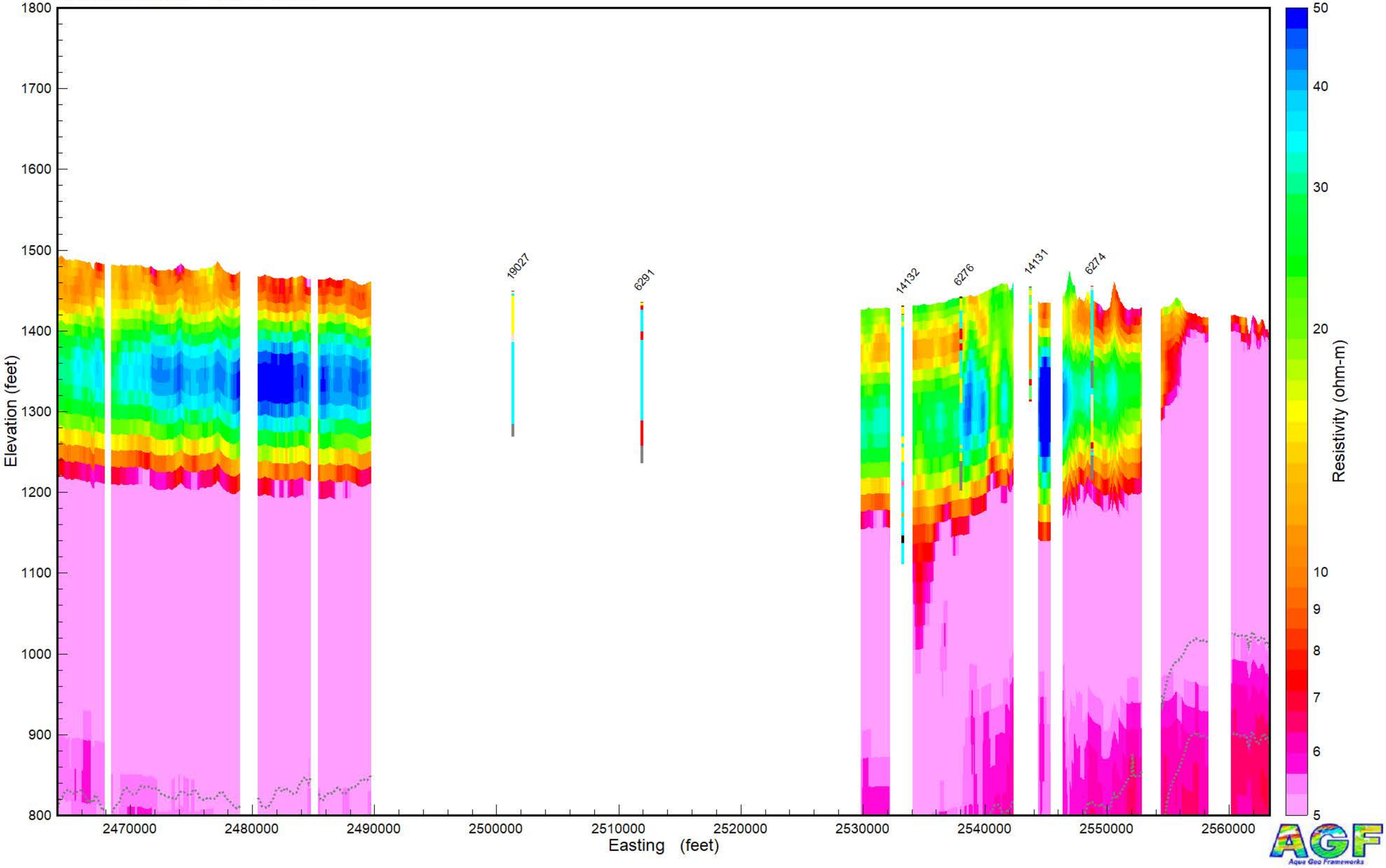
AGF Aqua Geo Frameworks


AEM Inversion Line L5400
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2525000
2530000
2535000
2540000
2545000
2550000
2555000
2560000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5415

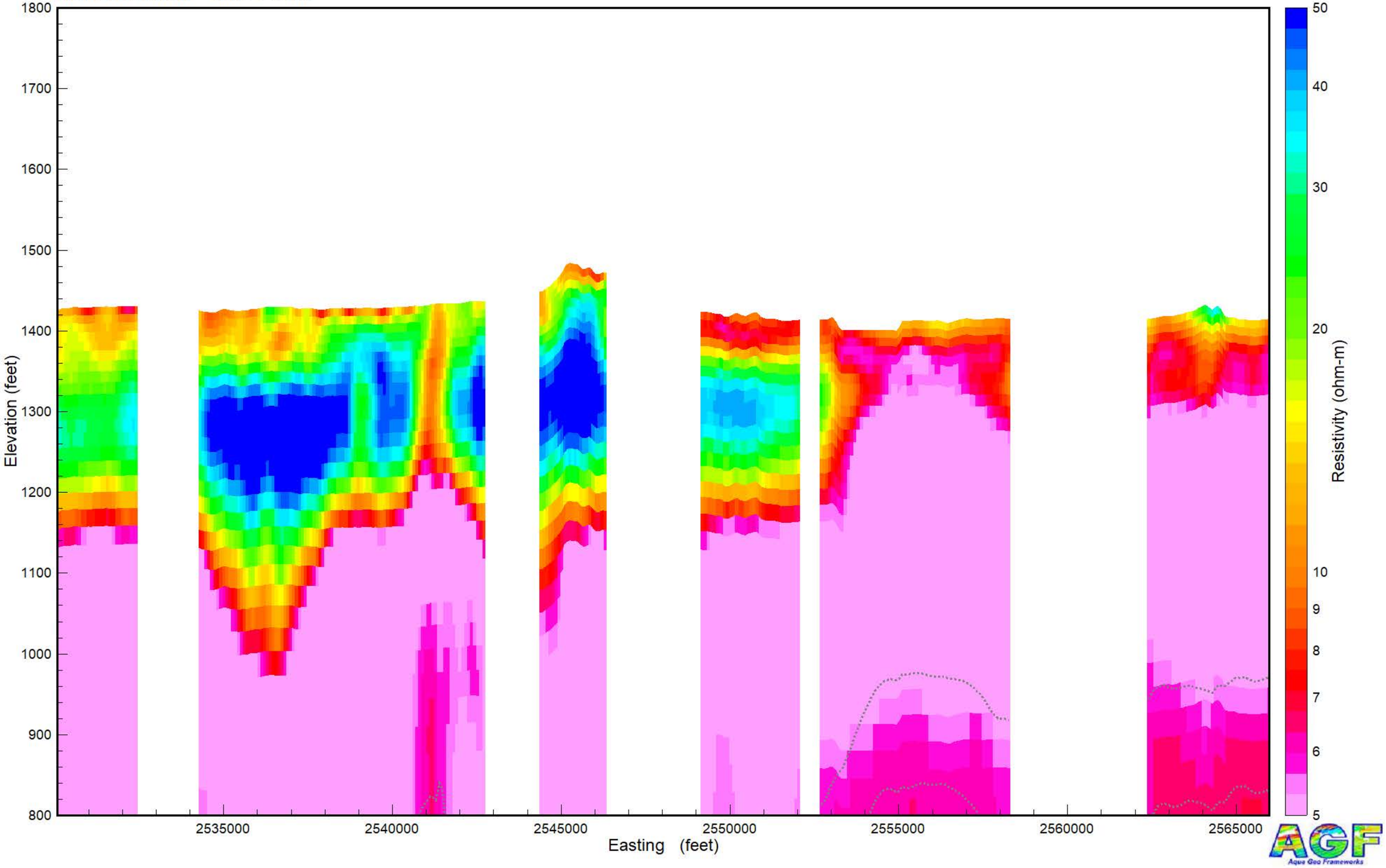


AGF Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5450

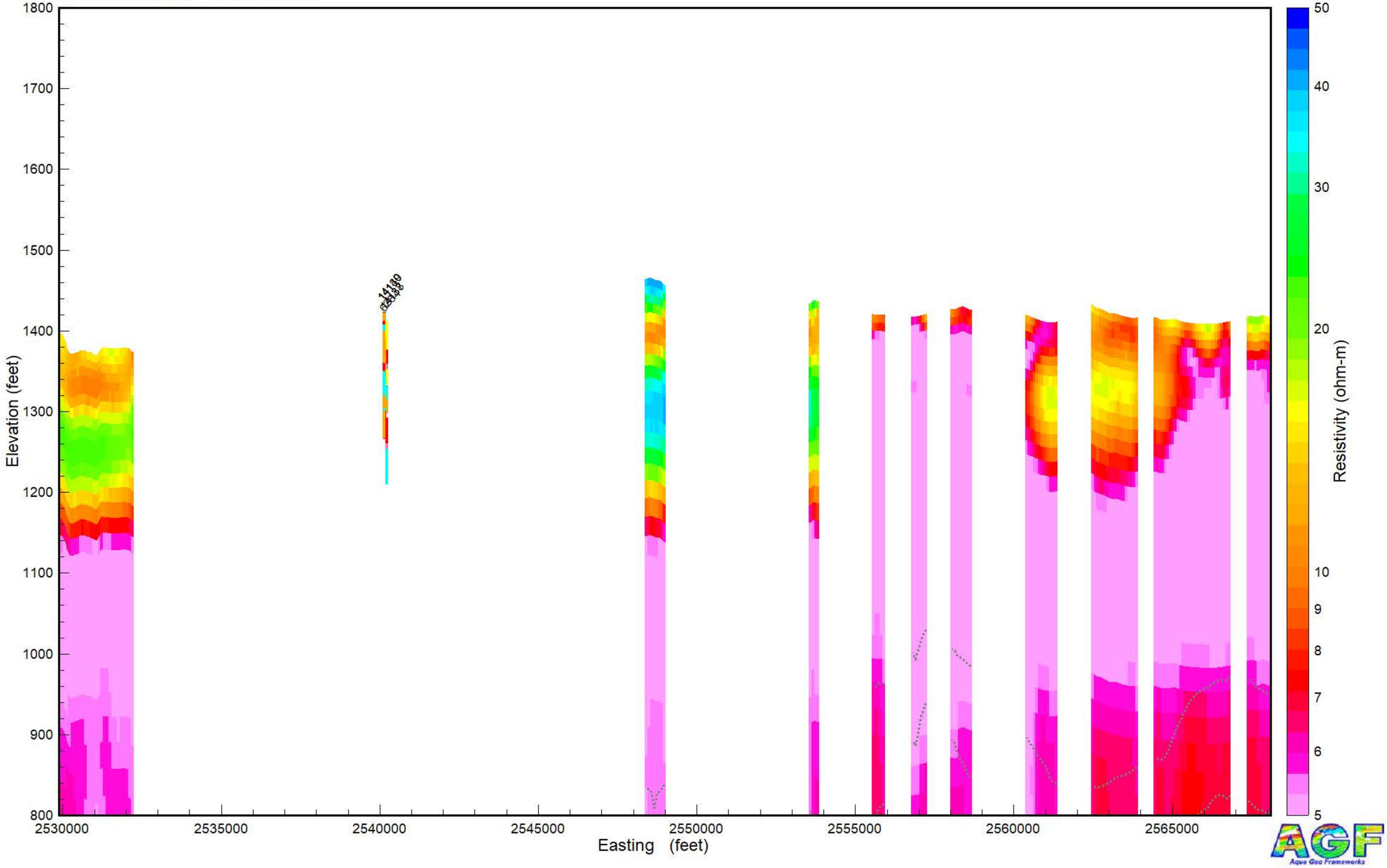


AGF Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5470

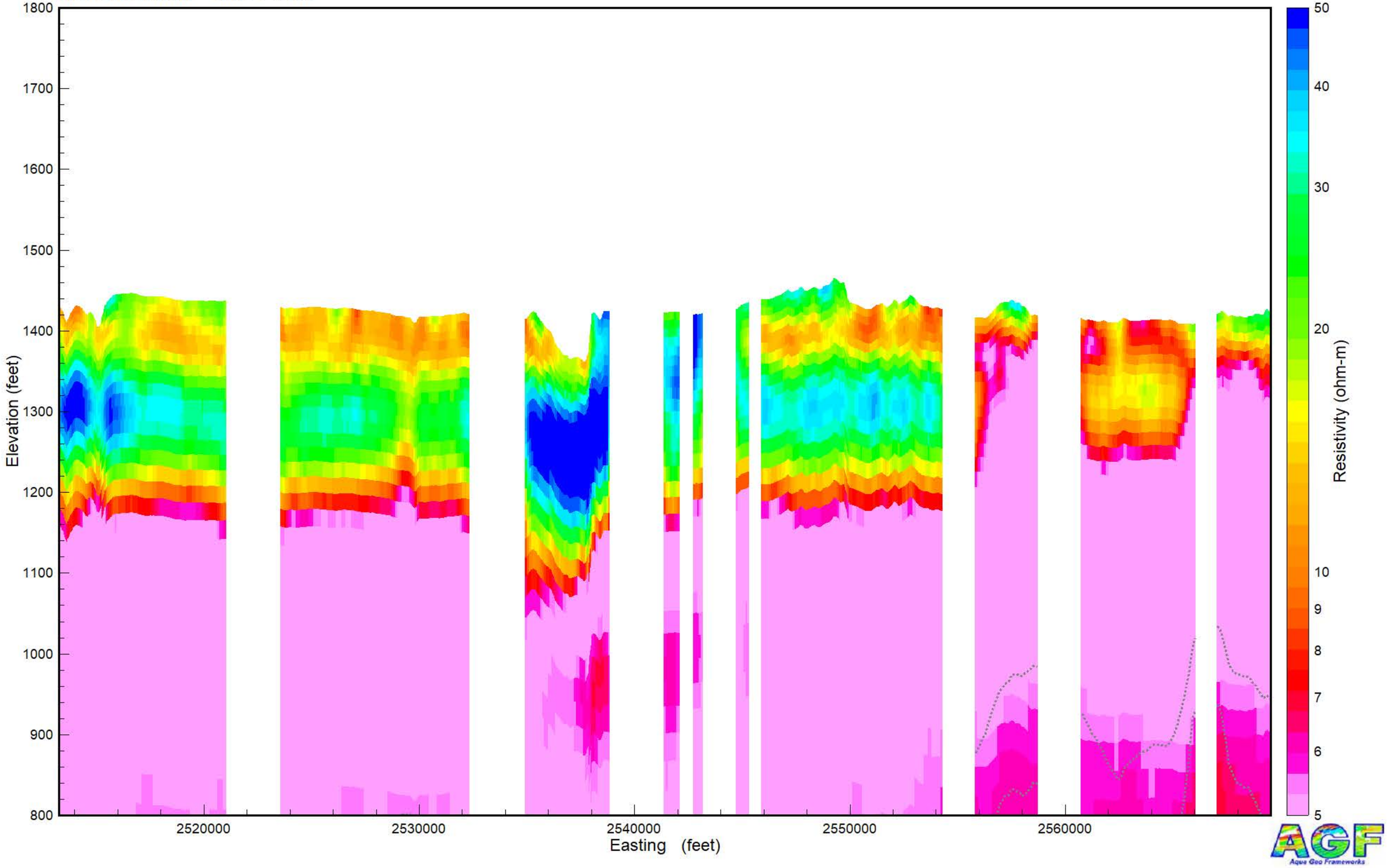


AGF Aqua Geo Frameworks

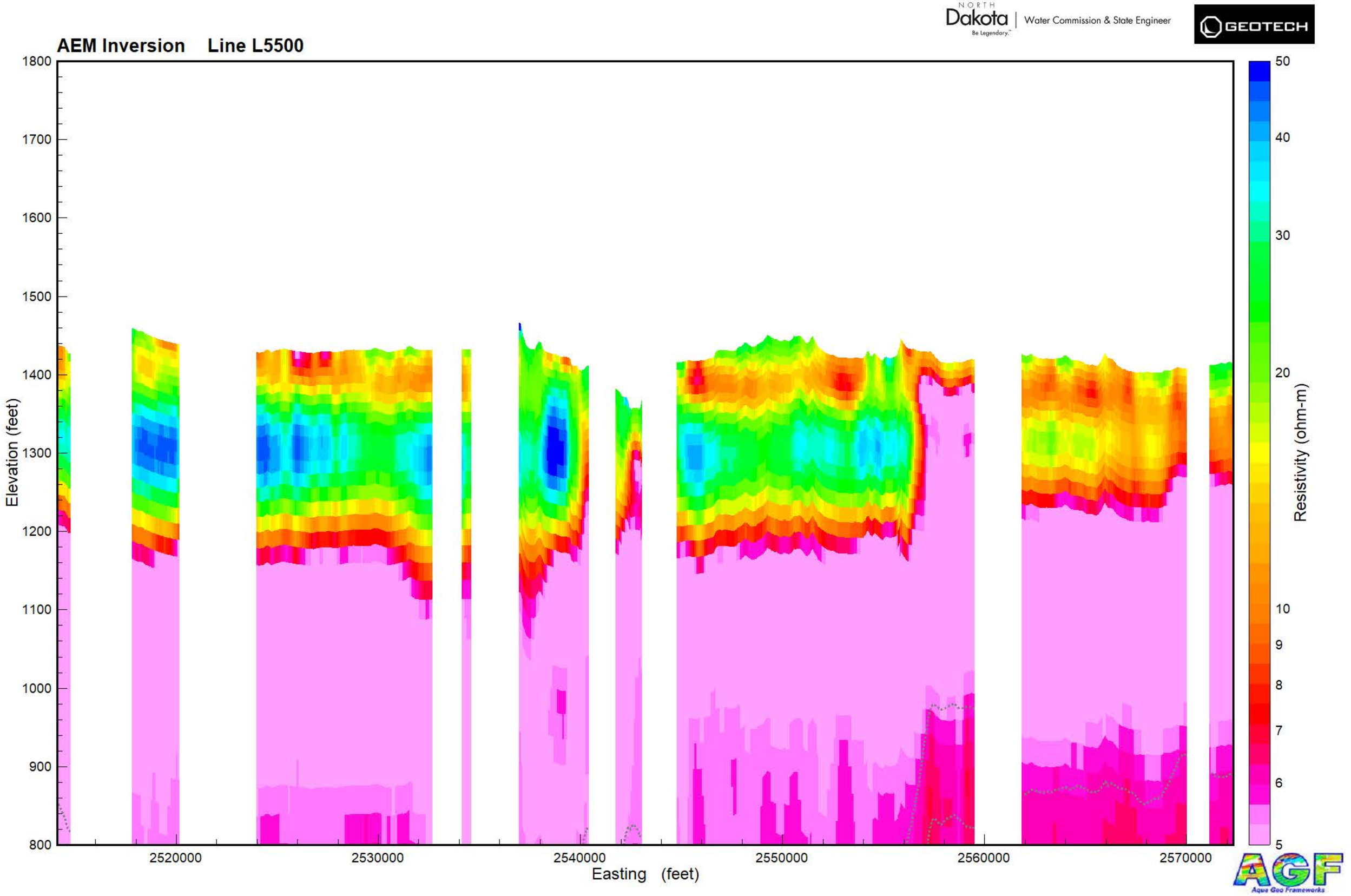
North Dakota Water Commission & State Engineer

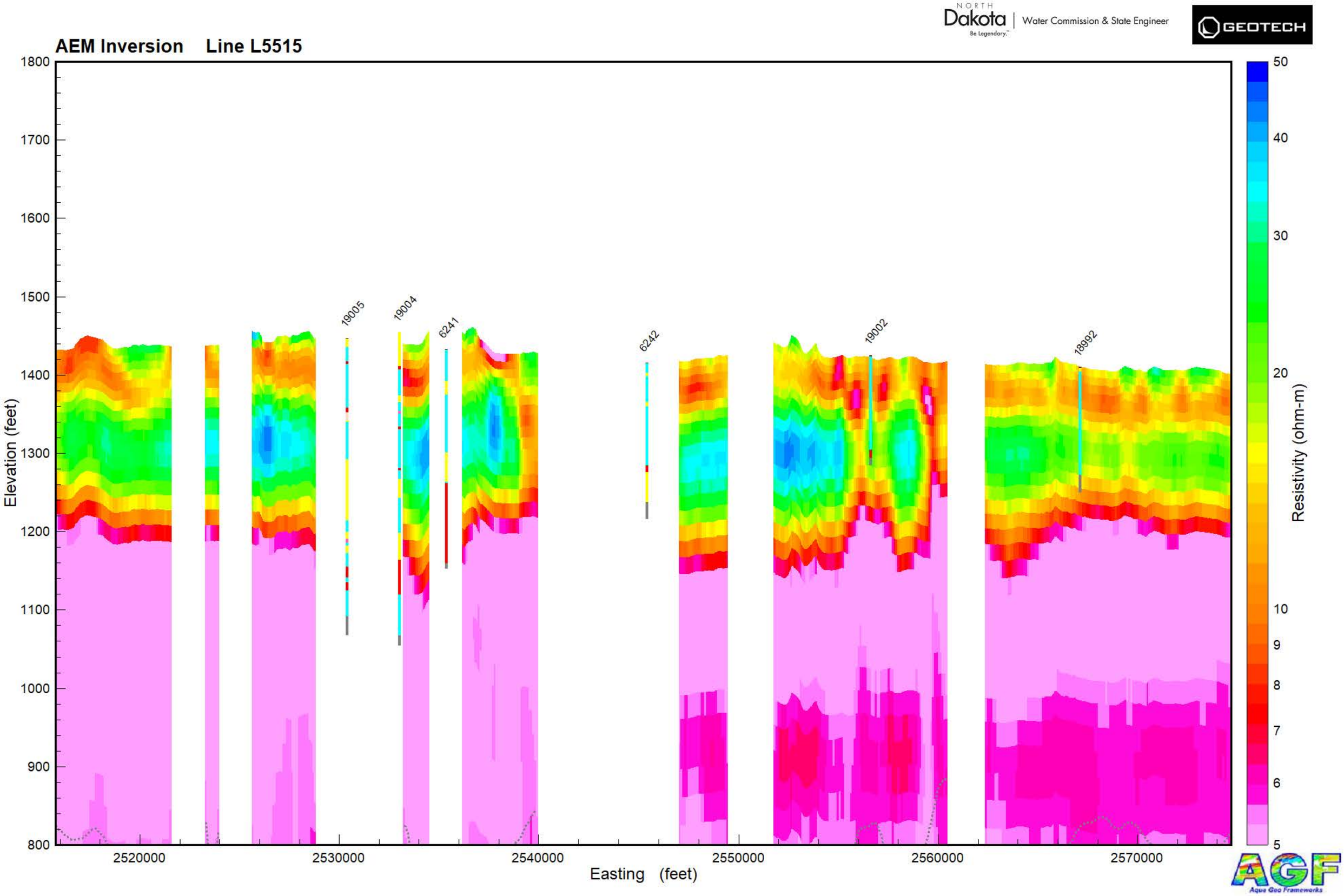
GEOTECH

AEM Inversion Line L5480



AGF Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5500
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2520000
2530000
2540000
2550000
2560000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5515
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
19005
19004
6241
6242
19002
18992
2520000
2530000
2540000
2550000
2560000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5540

Elevation (feet)

1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800

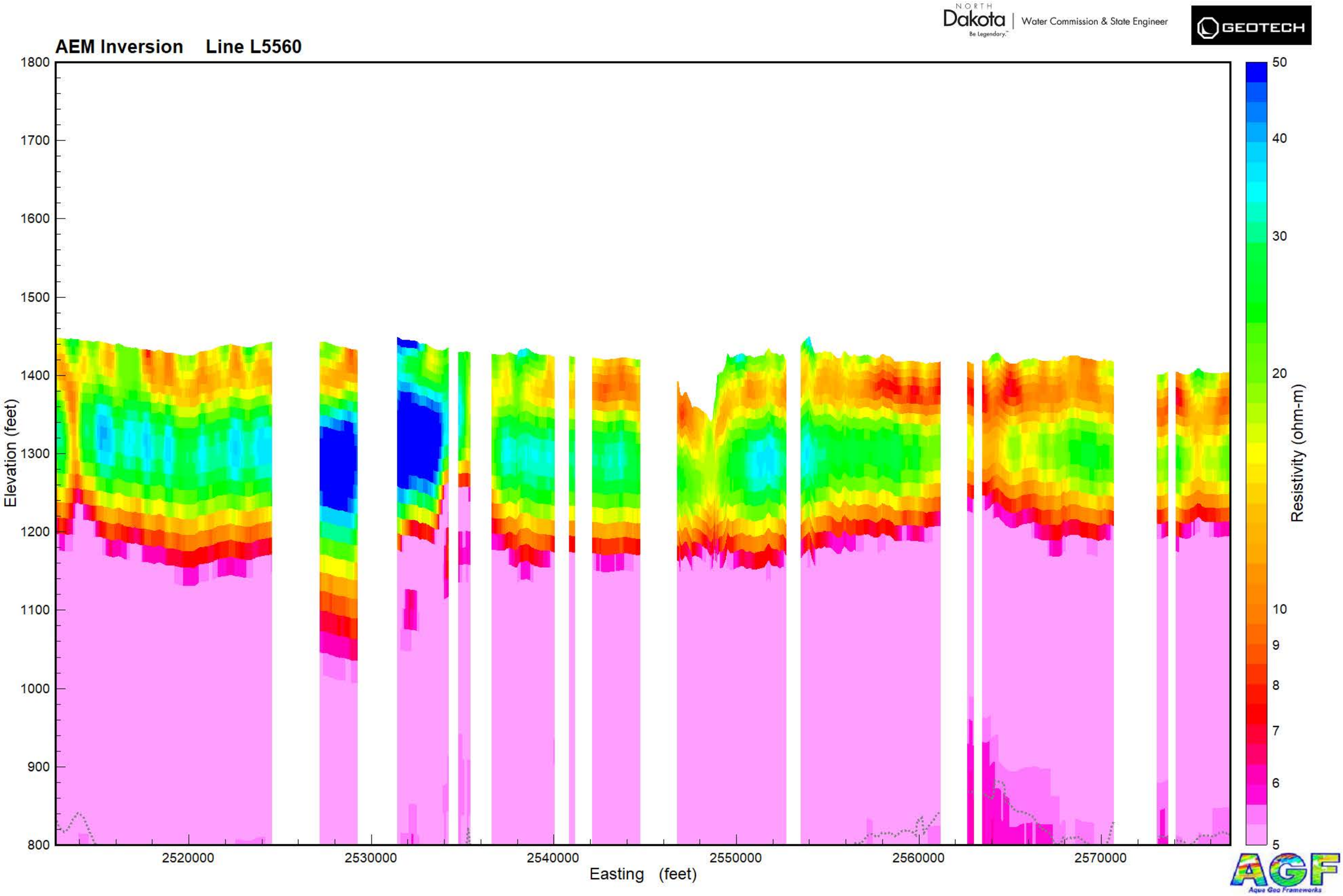
2520000
2530000
2540000
2550000
2560000
2570000

Easting (feet)

Resistivity (ohm-m)

50
40
30
20
10
9
8
7
6
5

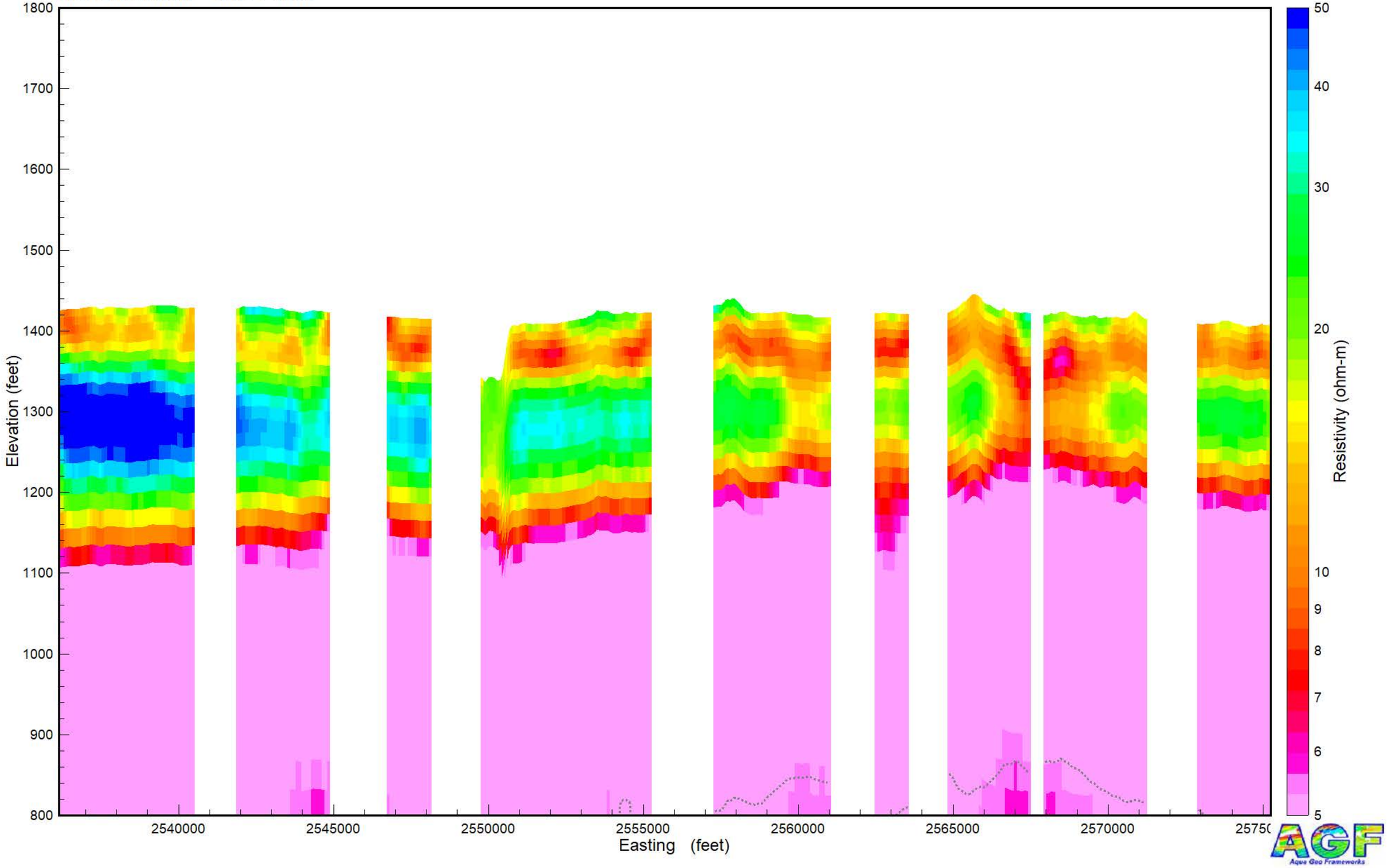
AGF Aqua Geo Frameworks


AEM Inversion Line L5560
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2520000
2530000
2540000
2550000
2560000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5

North Dakota | Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5580

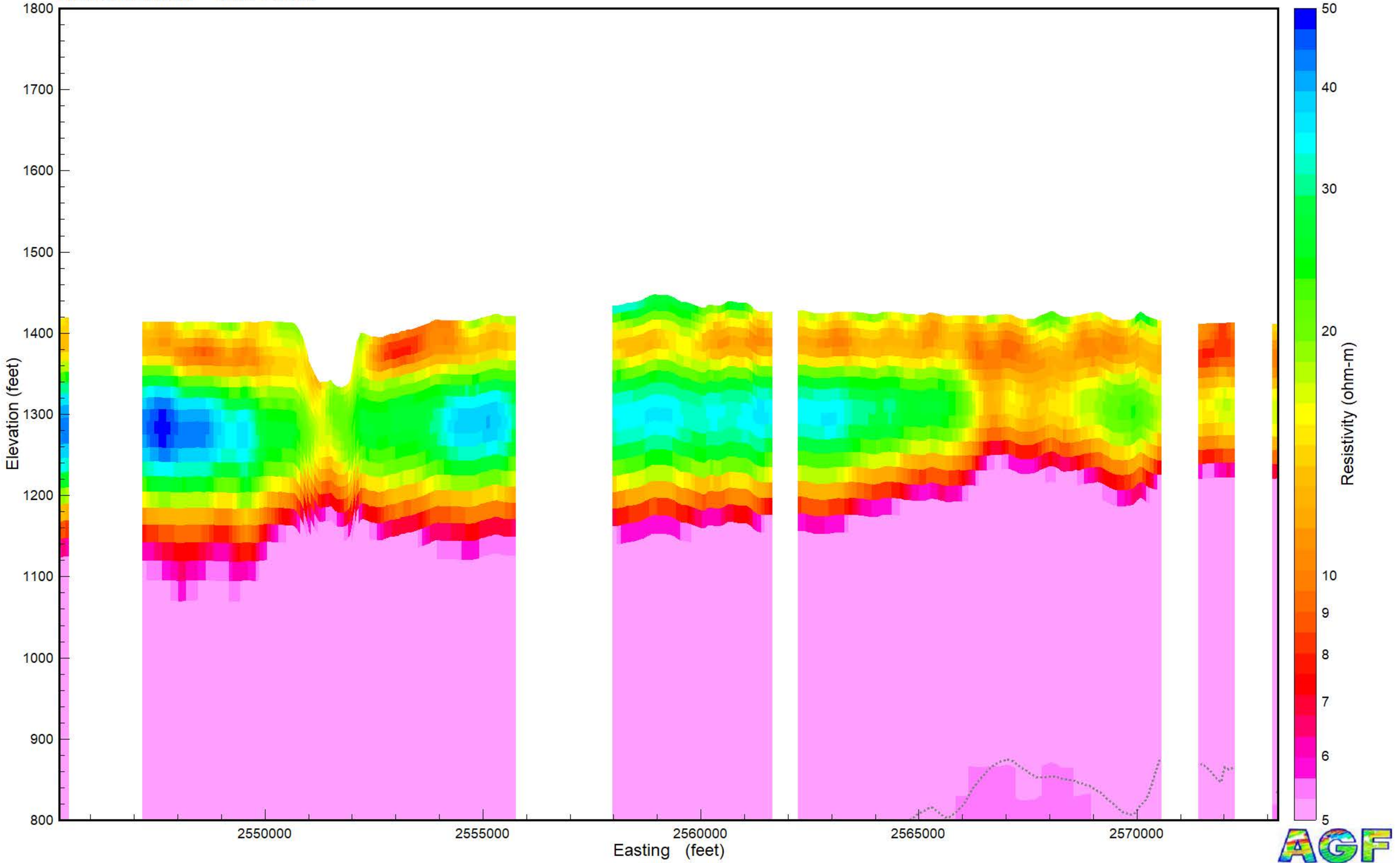


AGF Aqua Geo Frameworks

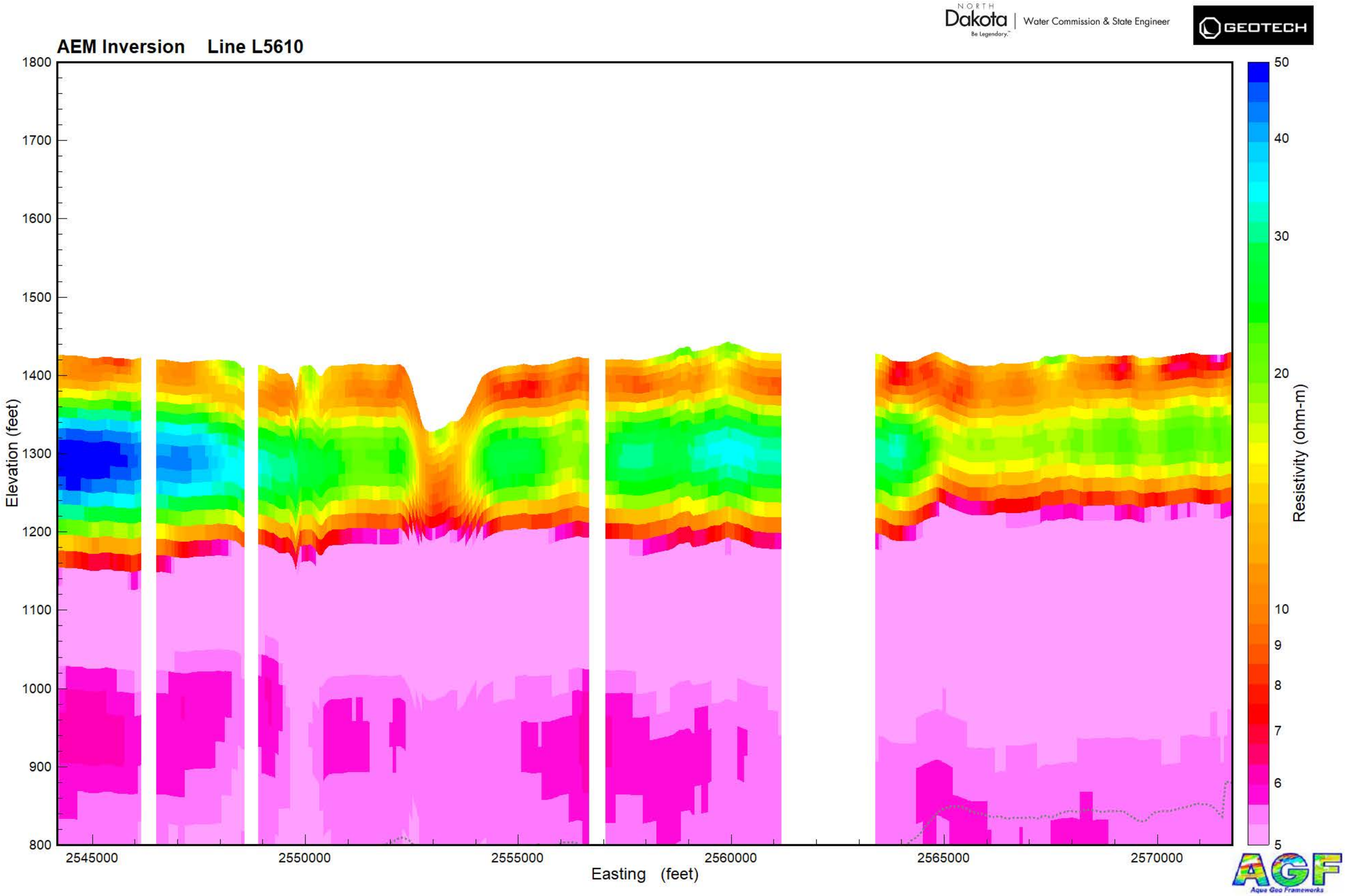
North Dakota | Water Commission & State Engineer

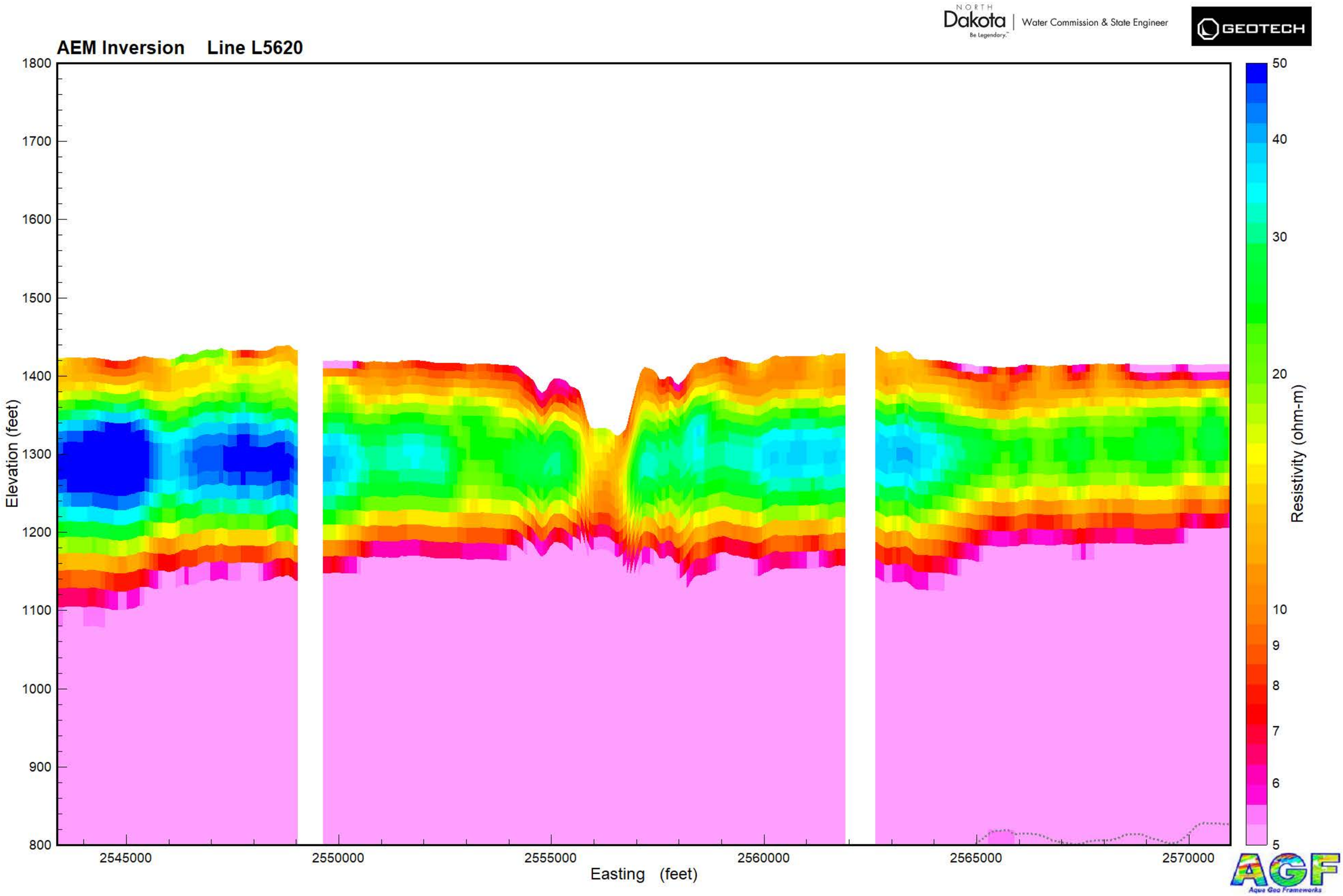
GEOTECH

AEM Inversion Line L5600



AGF Aqua Geo Frameworks

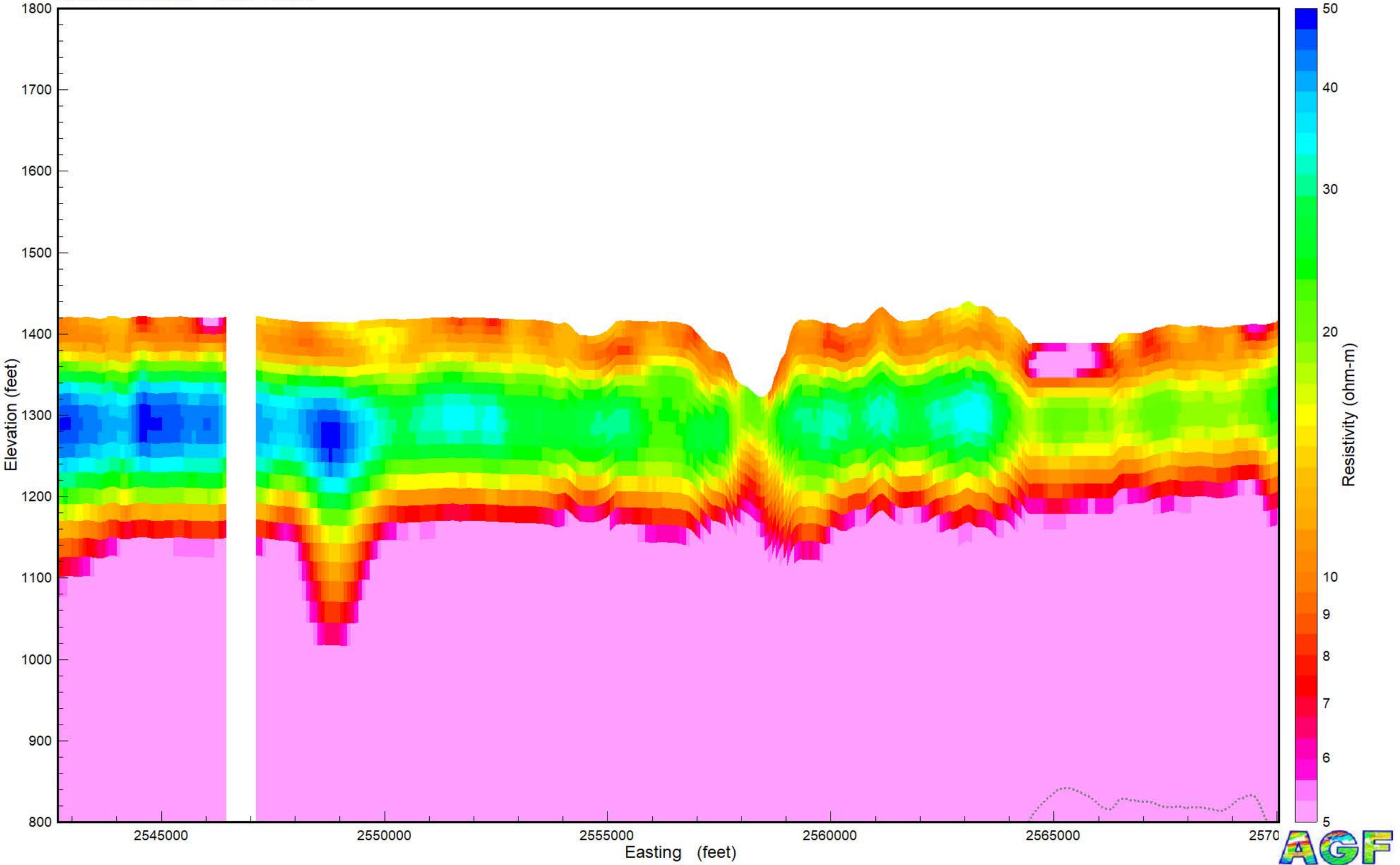

AEM Inversion Line L5610
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2545000
2550000
2555000
2560000
2565000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5620
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2545000
2550000
2555000
2560000
2565000
2570000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

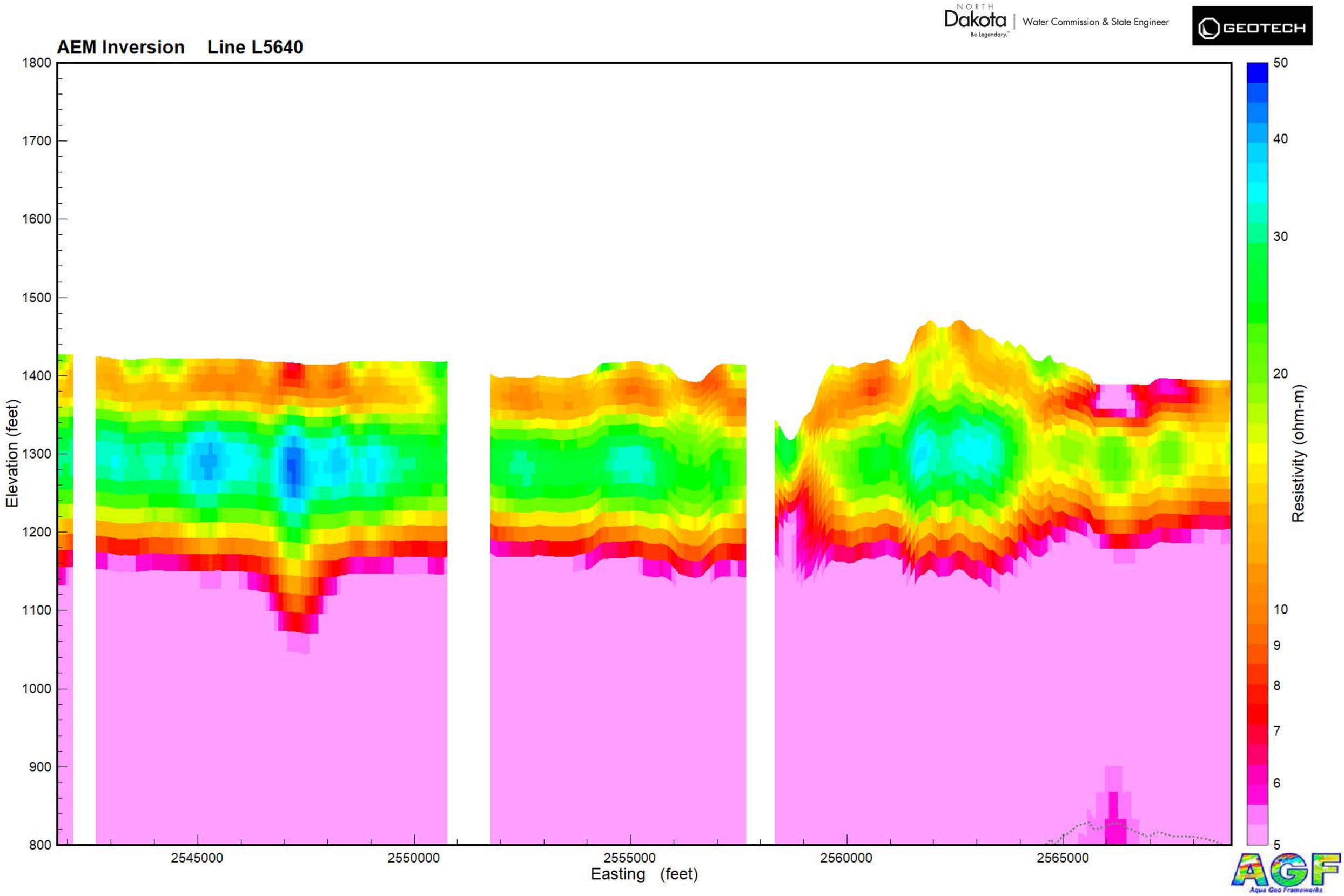
North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5630

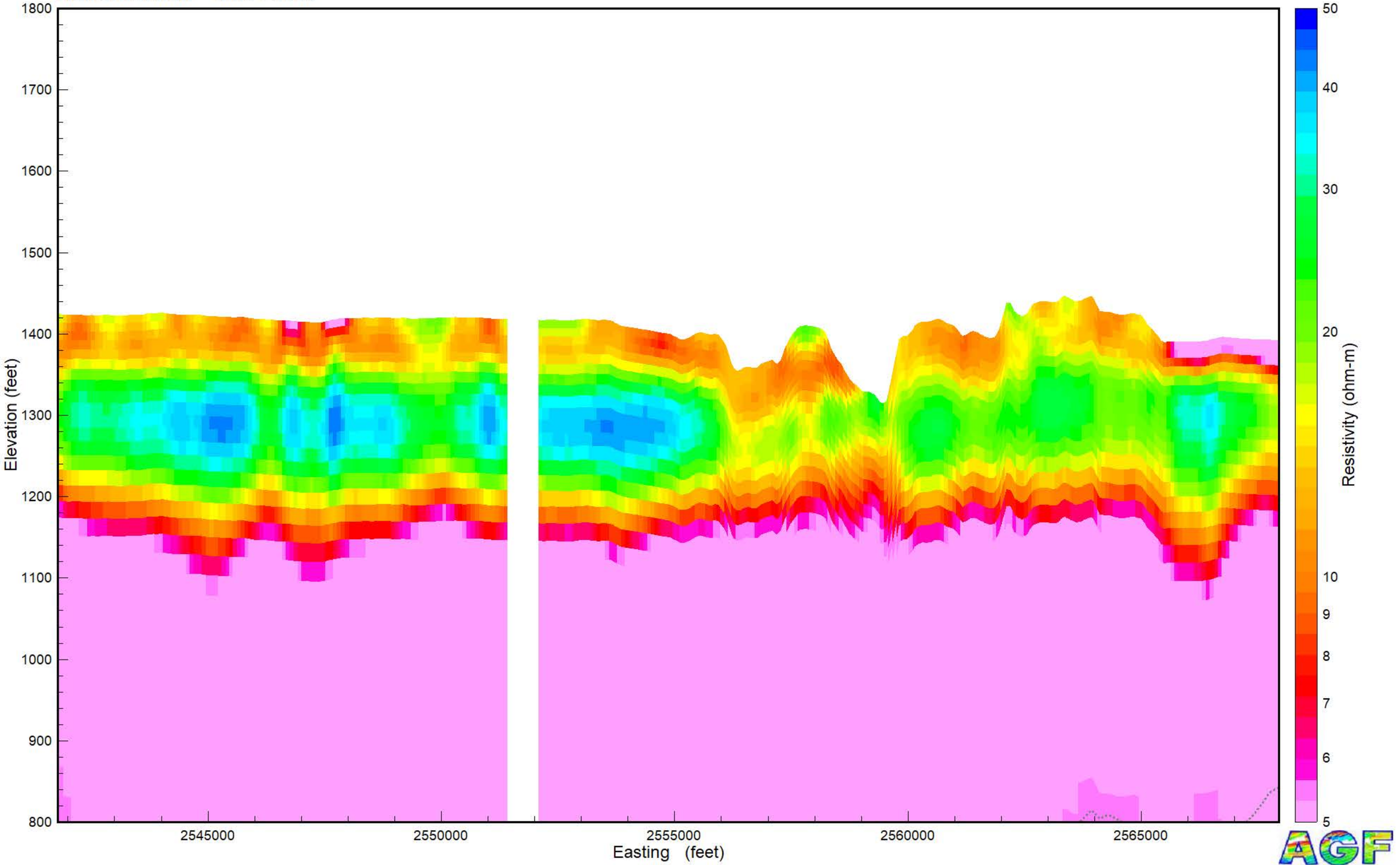


AGF Aqua Geo Frameworks

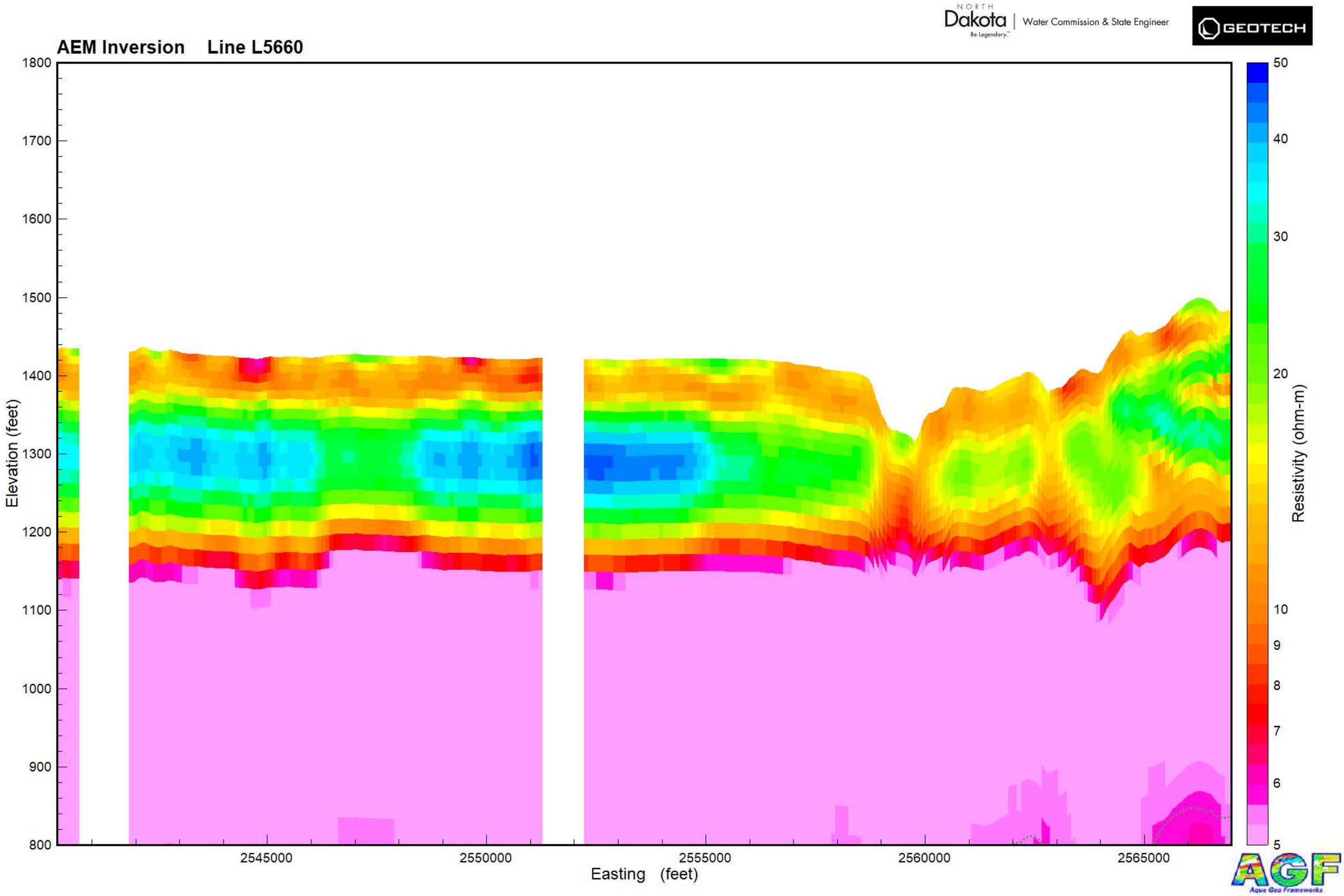

NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5640
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2545000
2550000
2555000
2560000
2565000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

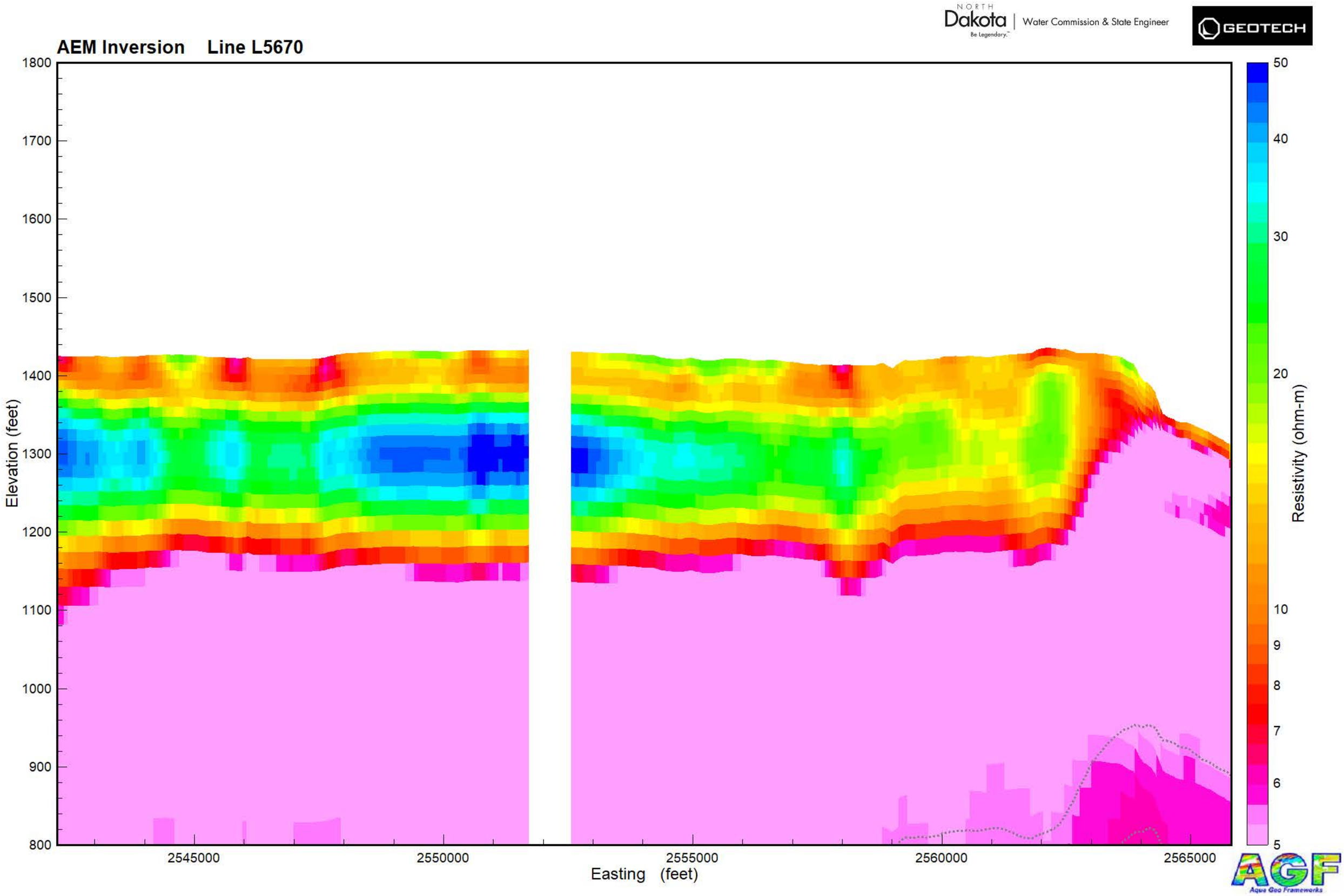
North Dakota Be Legendary. | Water Commission & State Engineer

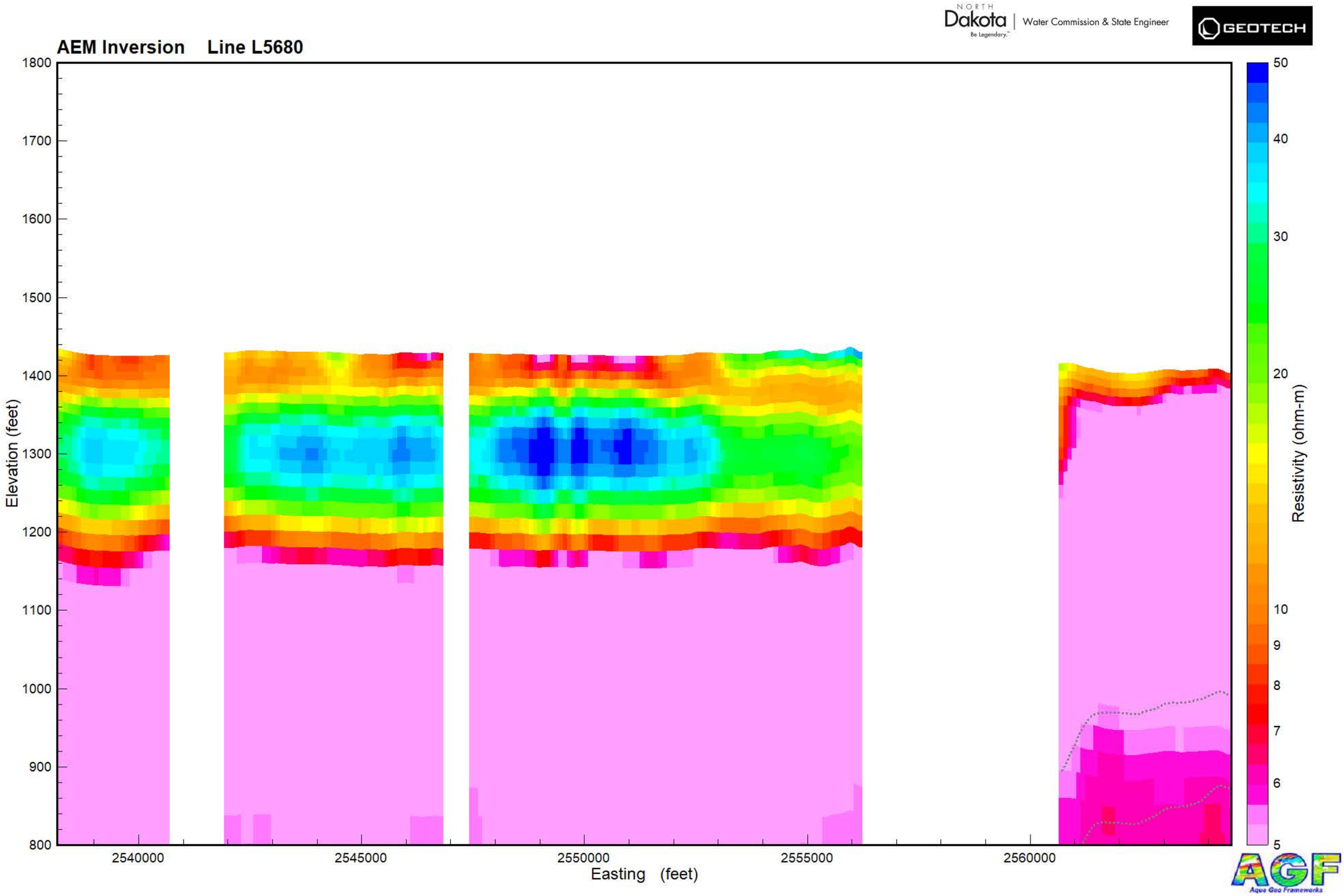
GEOTECH



AGF Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5660
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2545000
2550000
2555000
2560000
2565000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

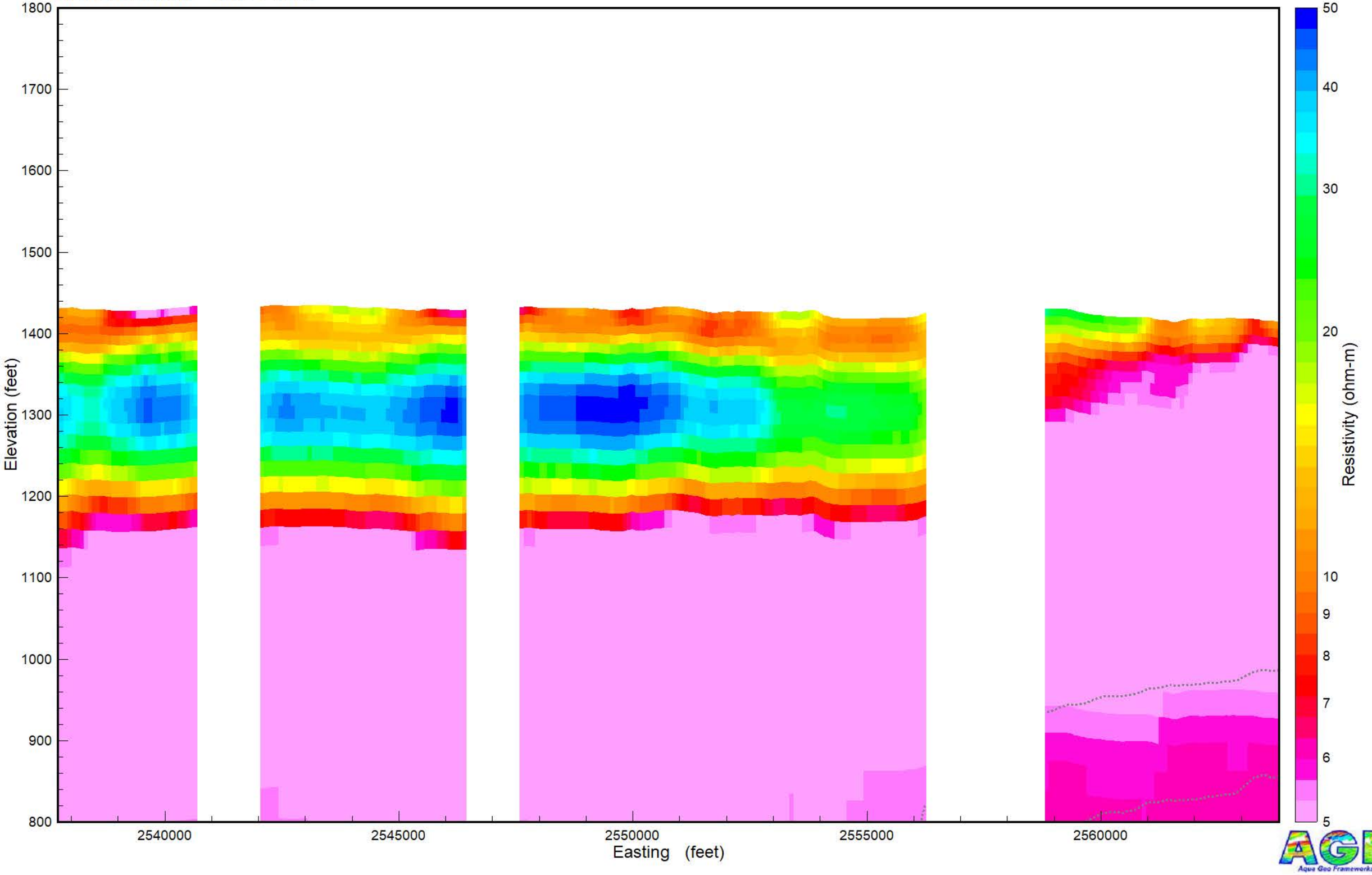

NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5670
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2545000
2550000
2555000
2560000
2565000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5680
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2540000
2545000
2550000
2555000
2560000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5690

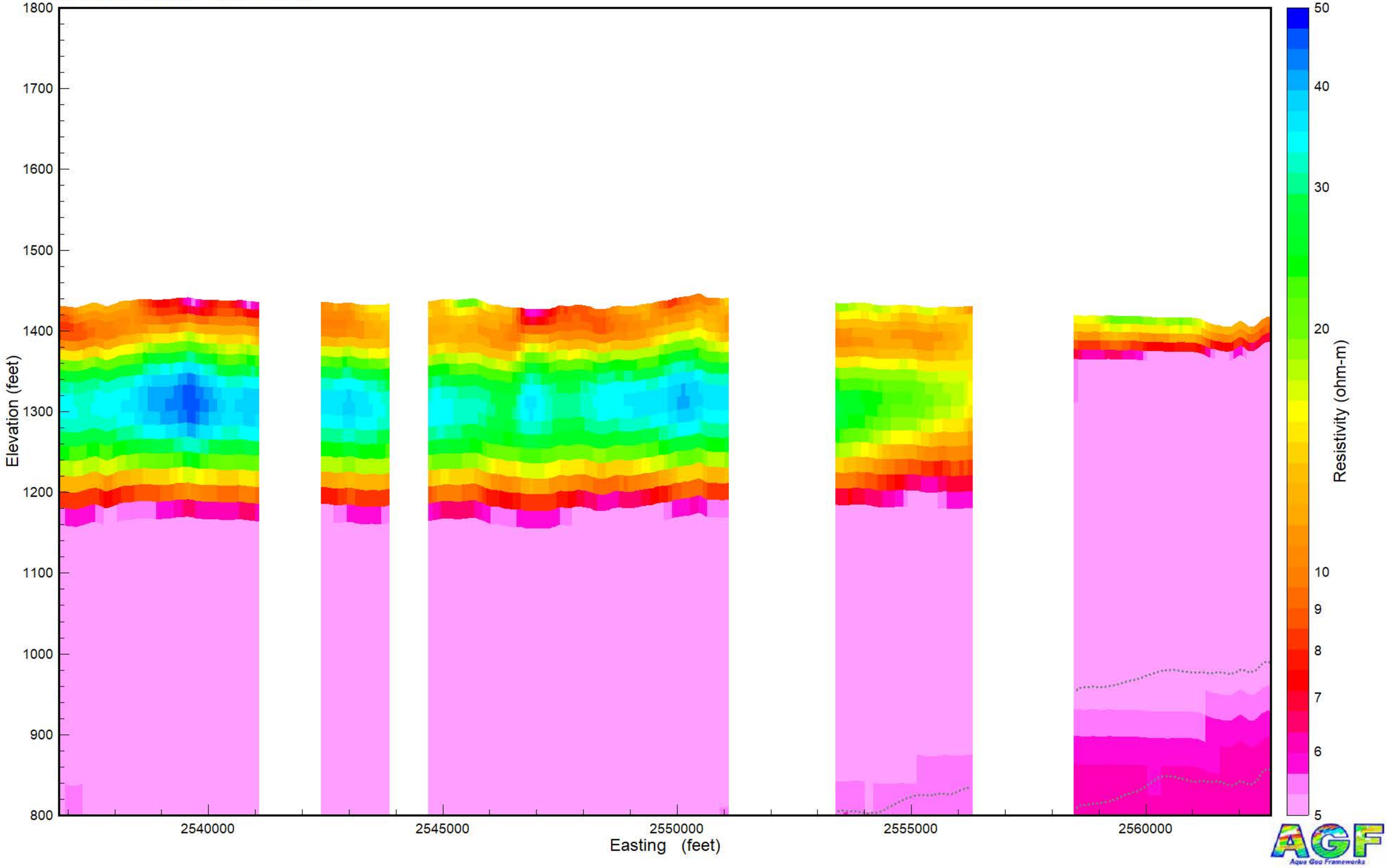


AGF Aqua Geo Frameworks

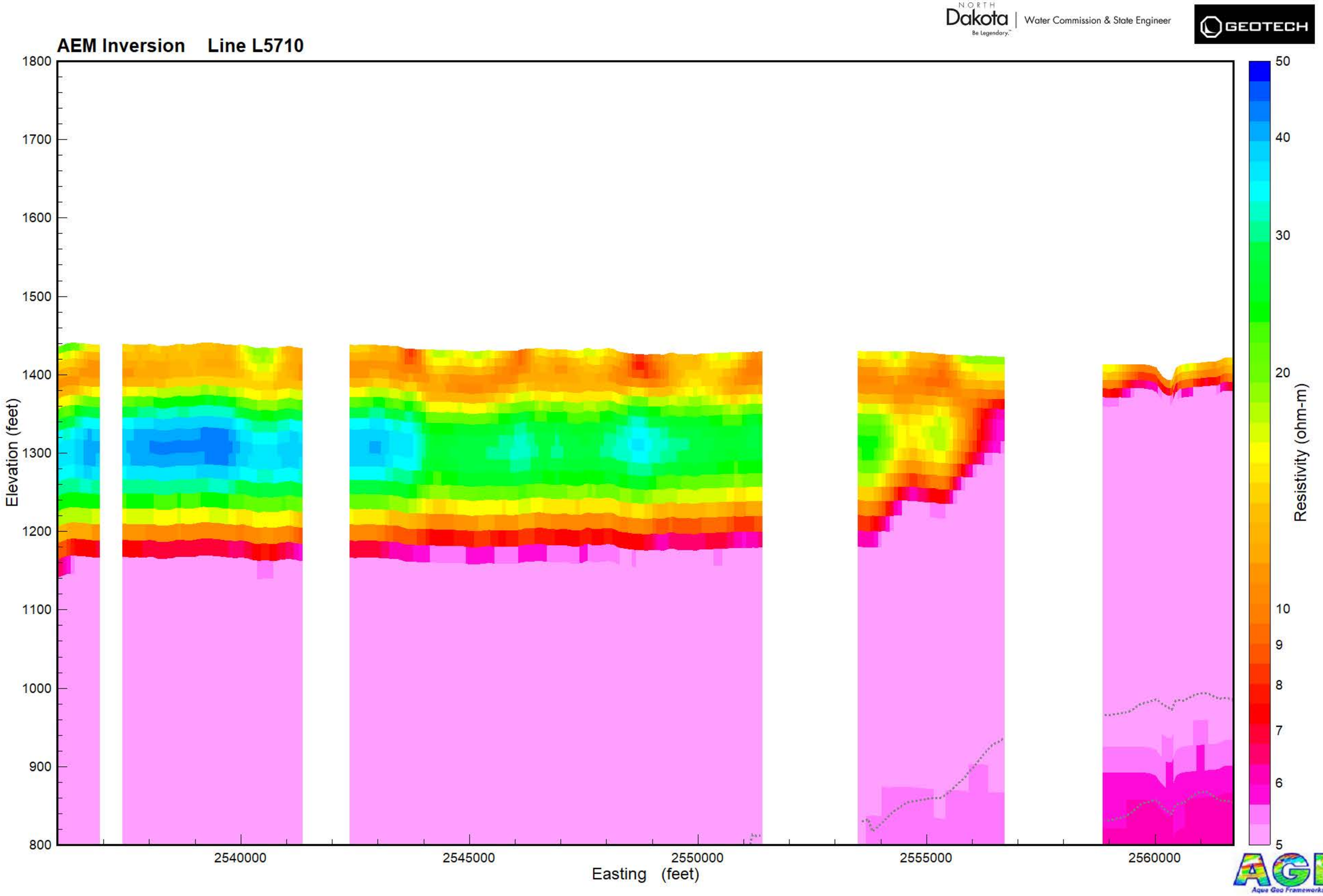
North Dakota Water Commission & State Engineer

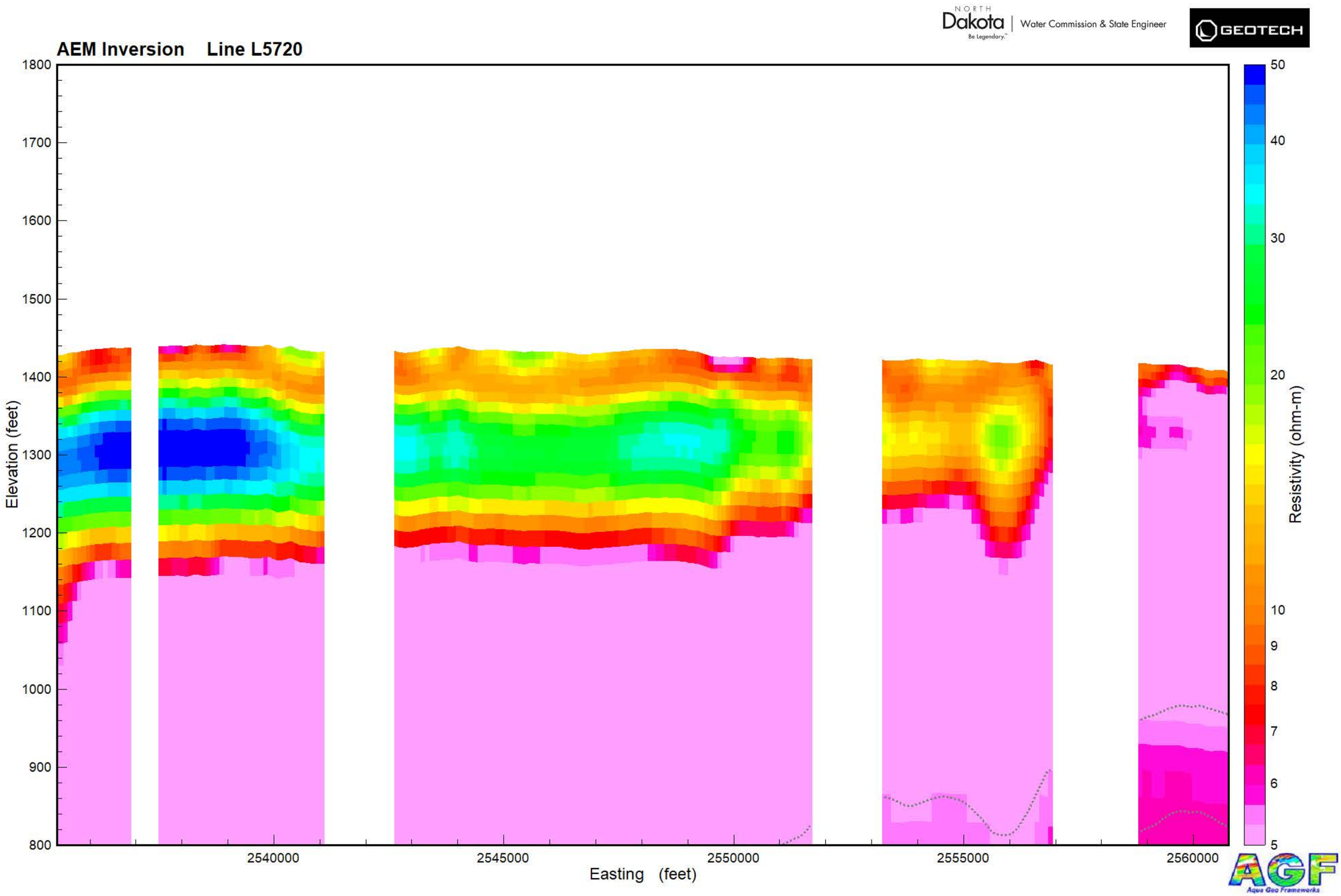
GEOTECH

AEM Inversion Line L5700



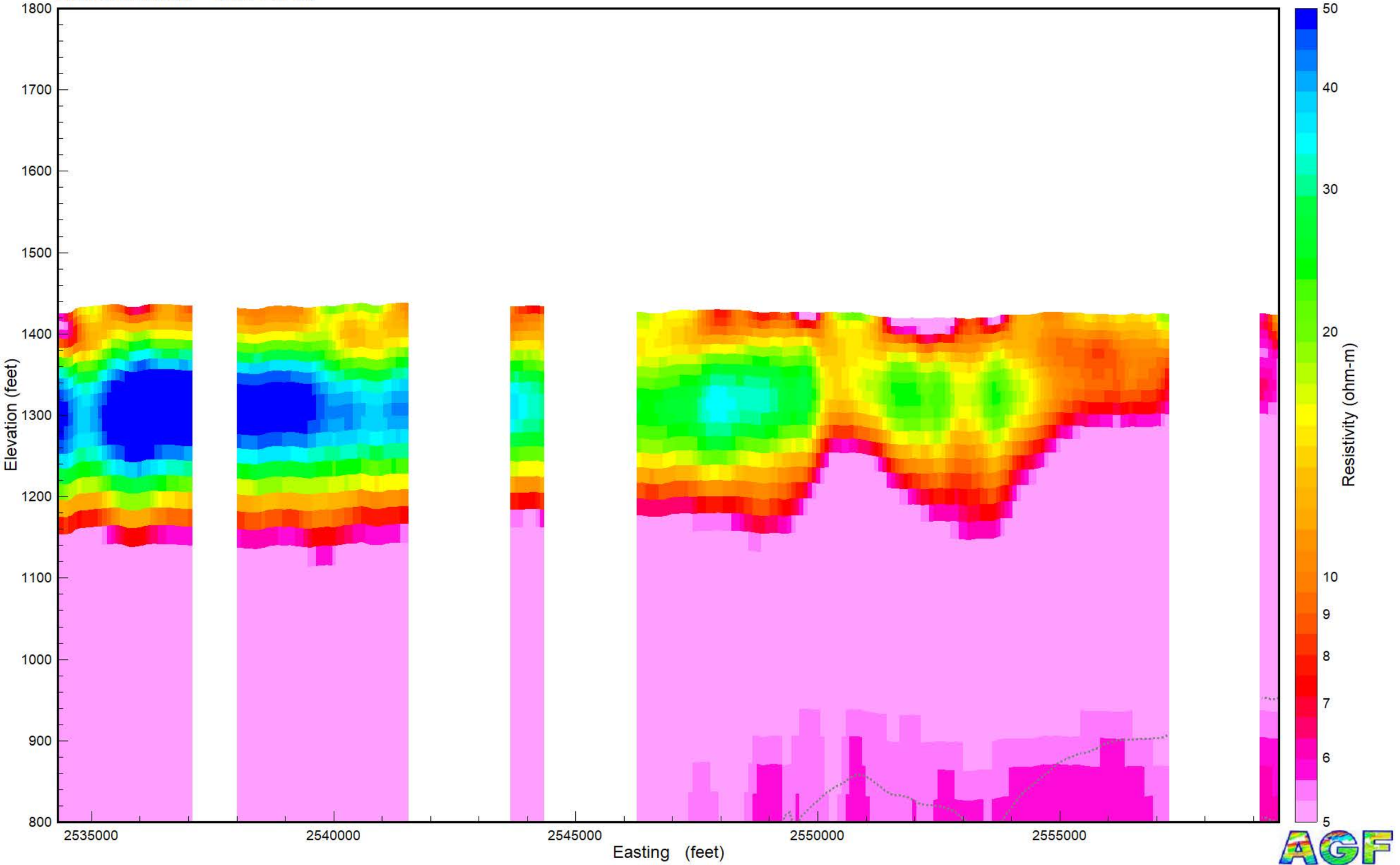
AGF Aqua Geo Frameworks


AEM Inversion Line L5710
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2540000
2545000
2550000
2555000
2560000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

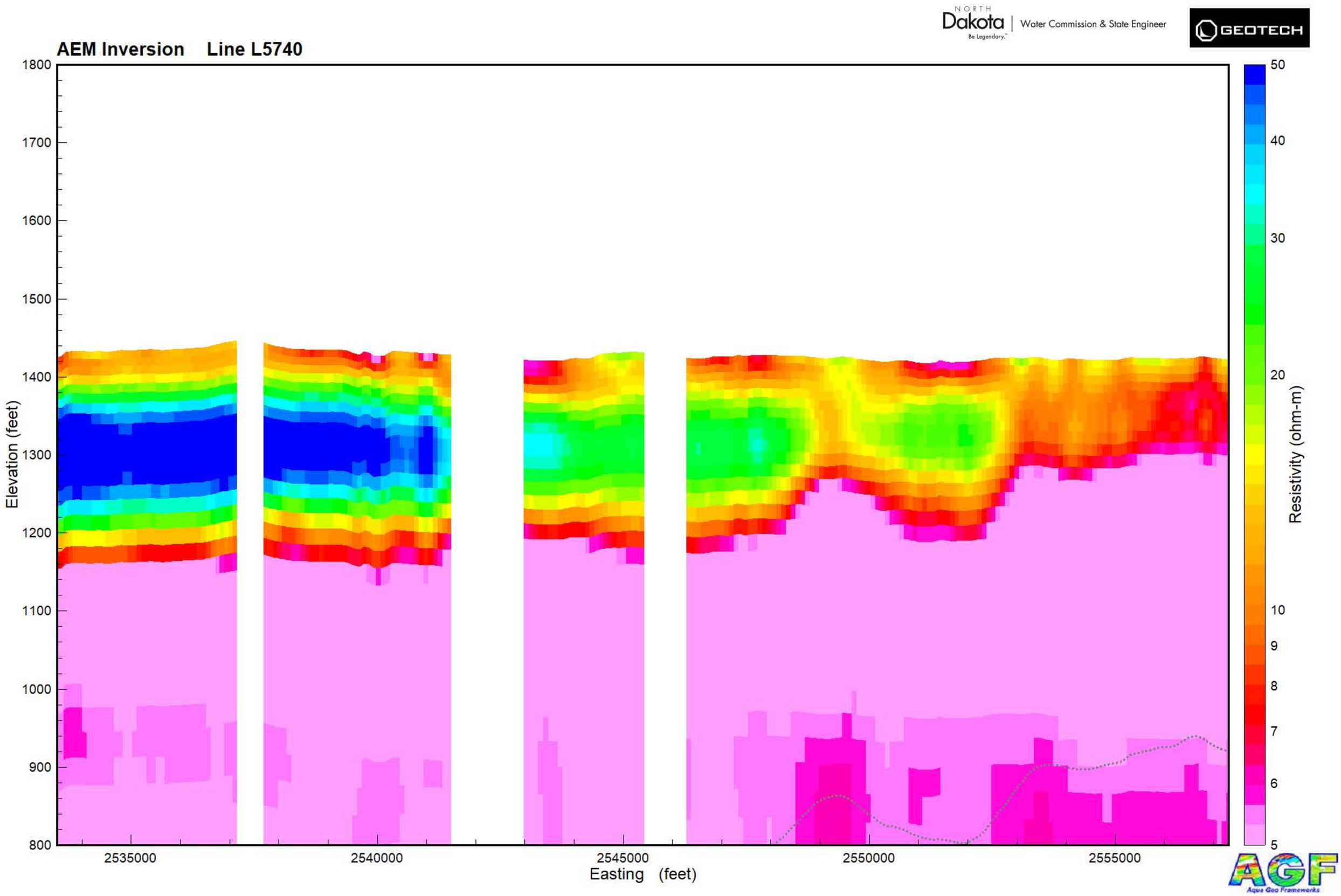

NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5720
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2540000
2545000
2550000
2555000
2560000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

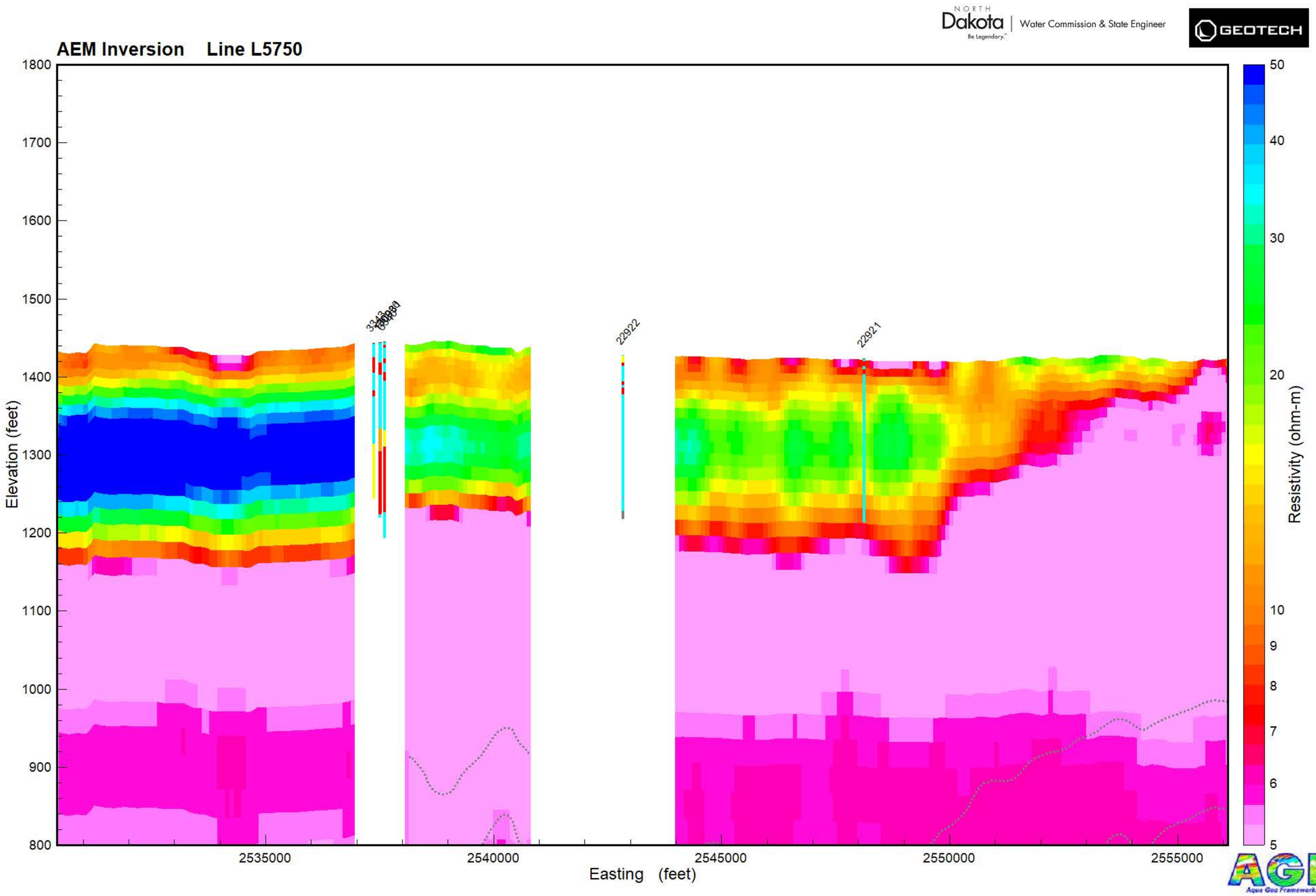
North Dakota Water Commission & State Engineer

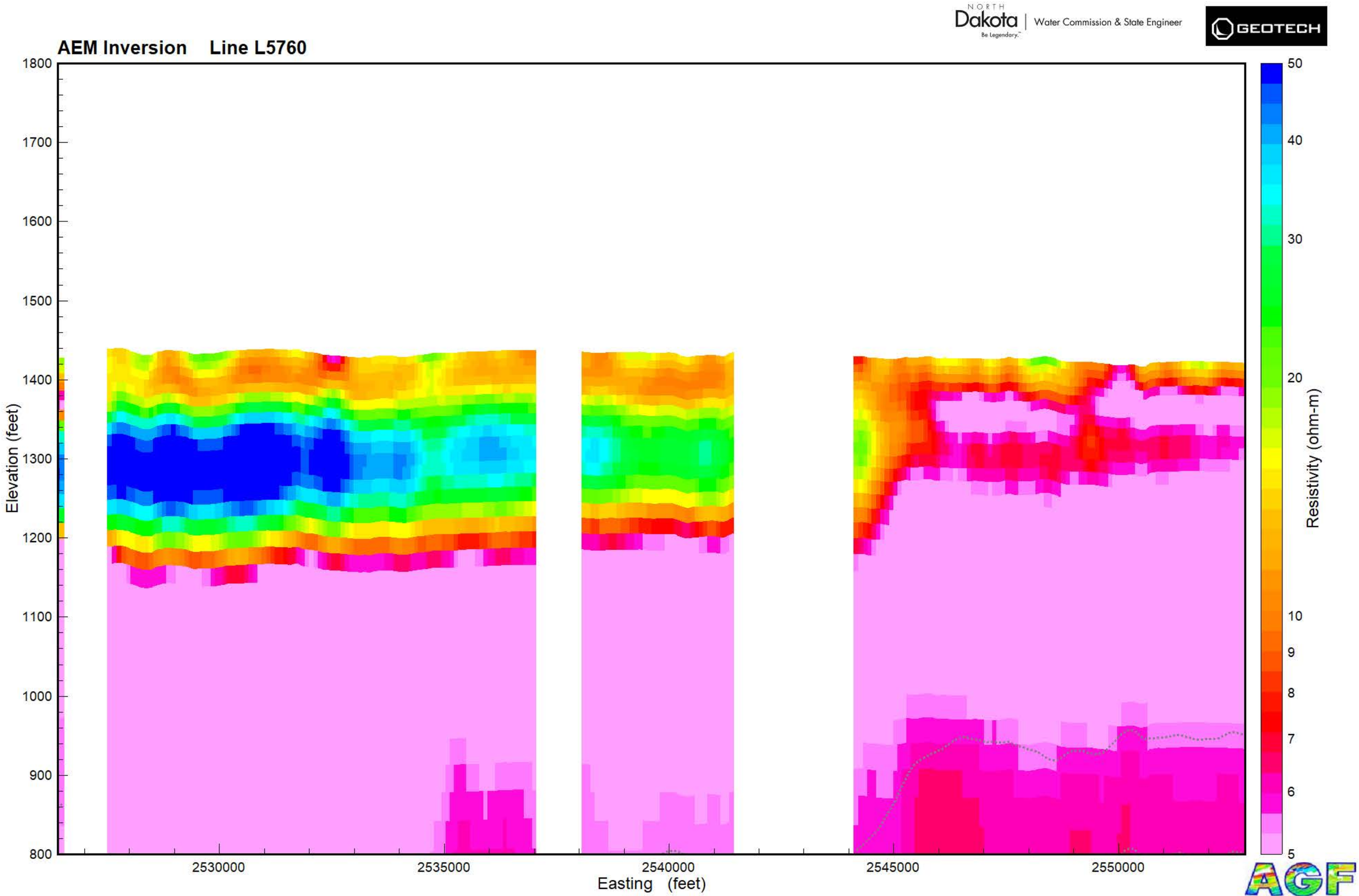
GEOTECH

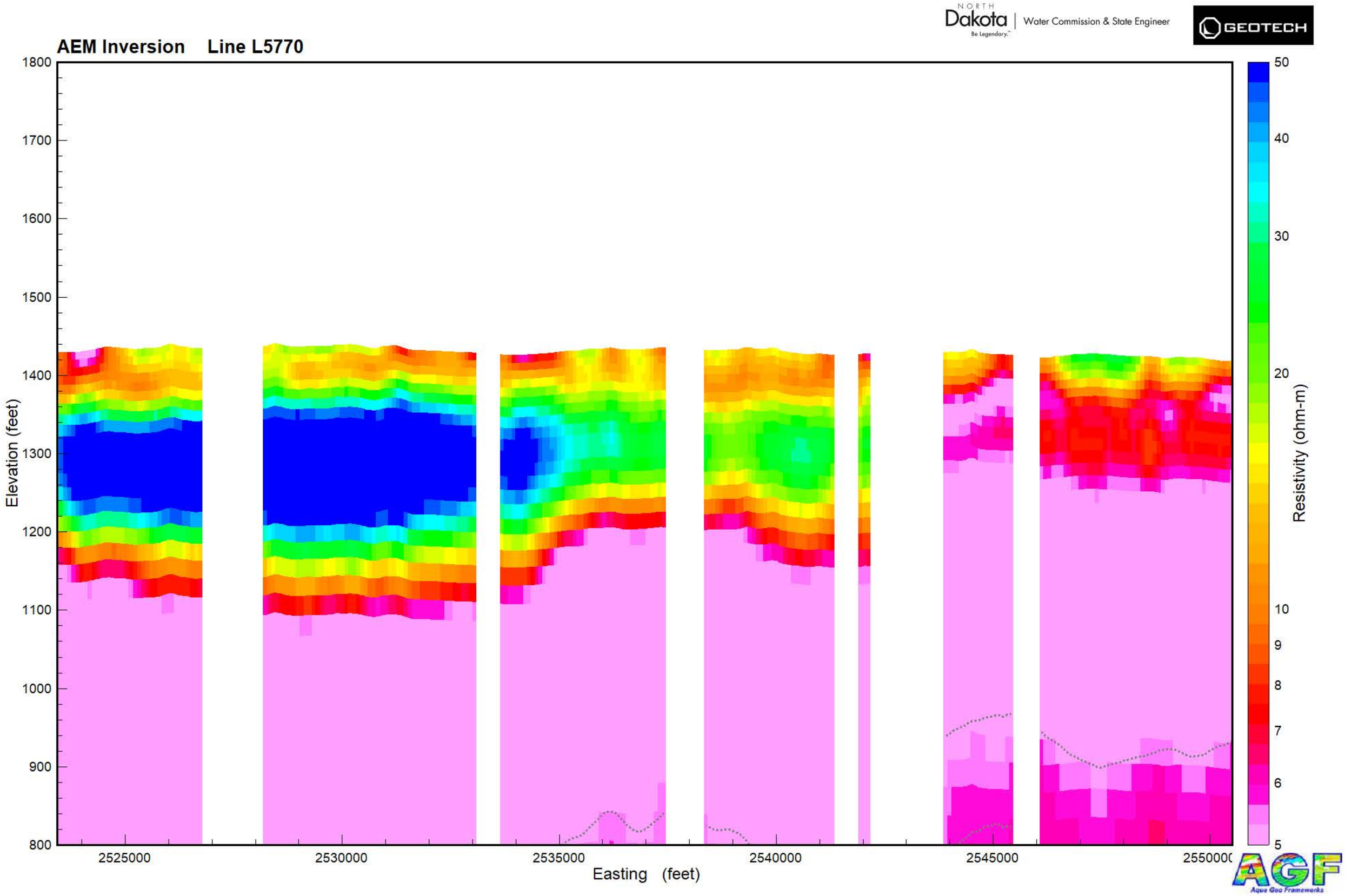


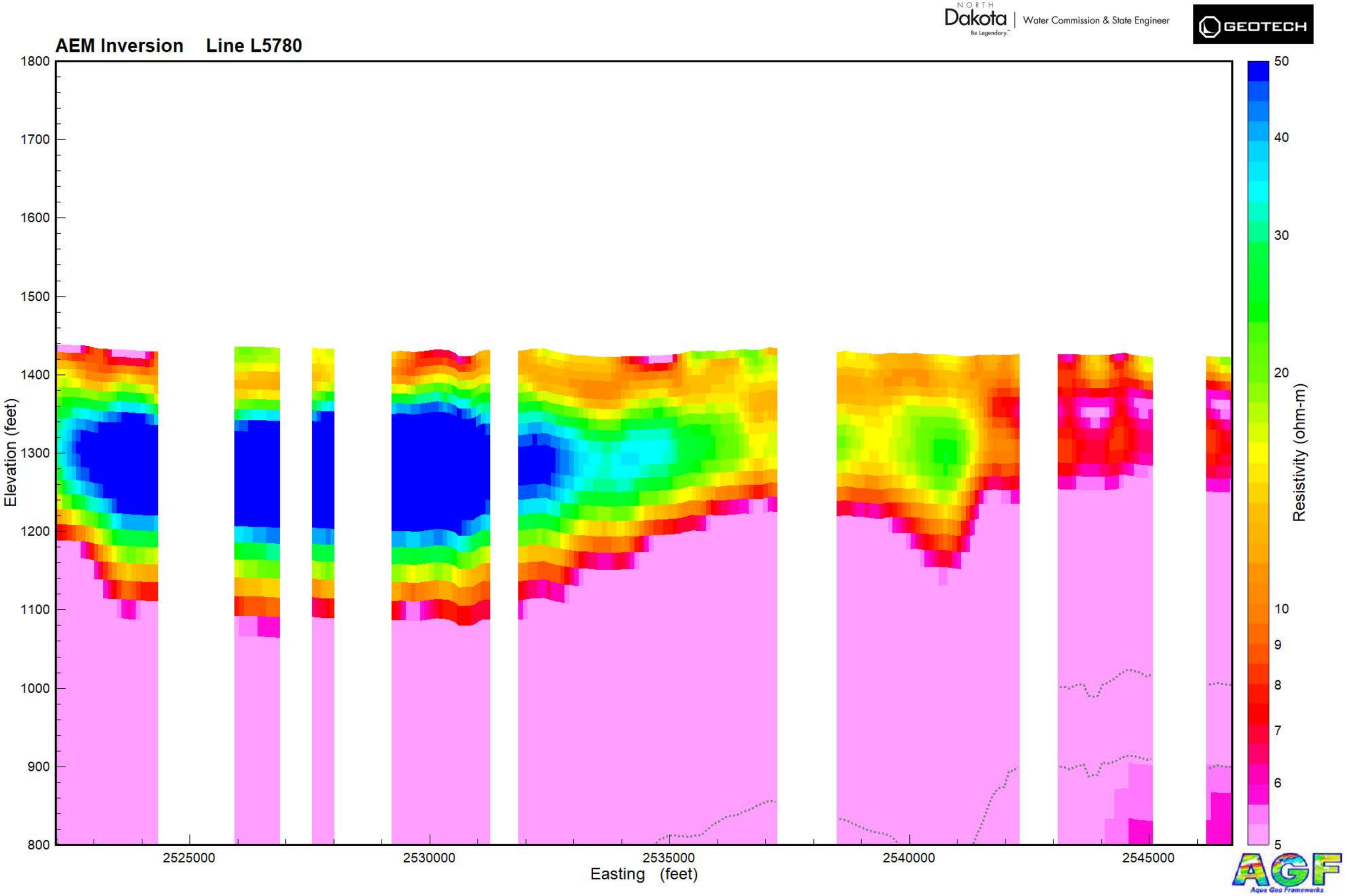
AGF Aqua Geo Frameworks

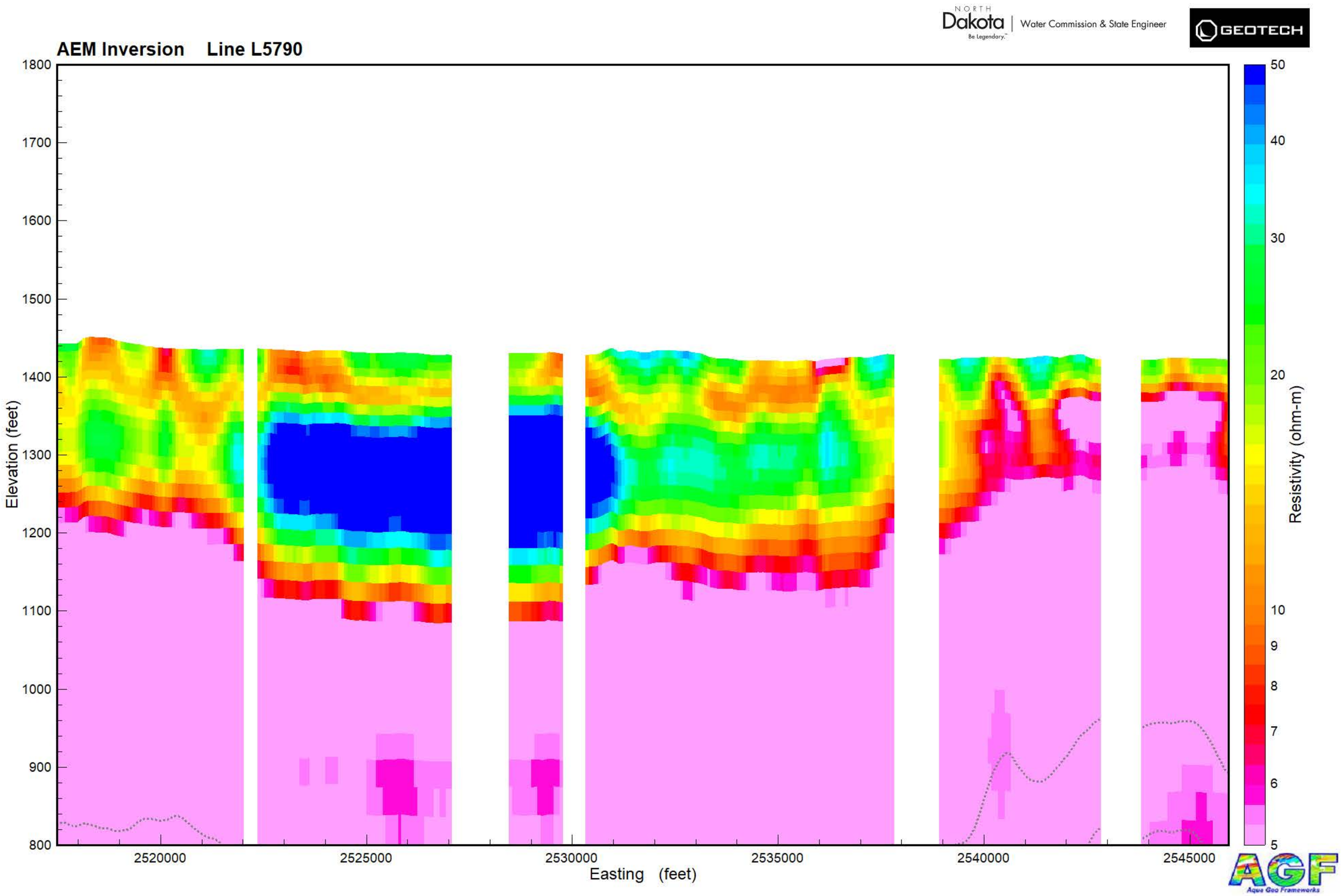

AEM Inversion Line L5740
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2535000
2540000
2545000
2550000
2555000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

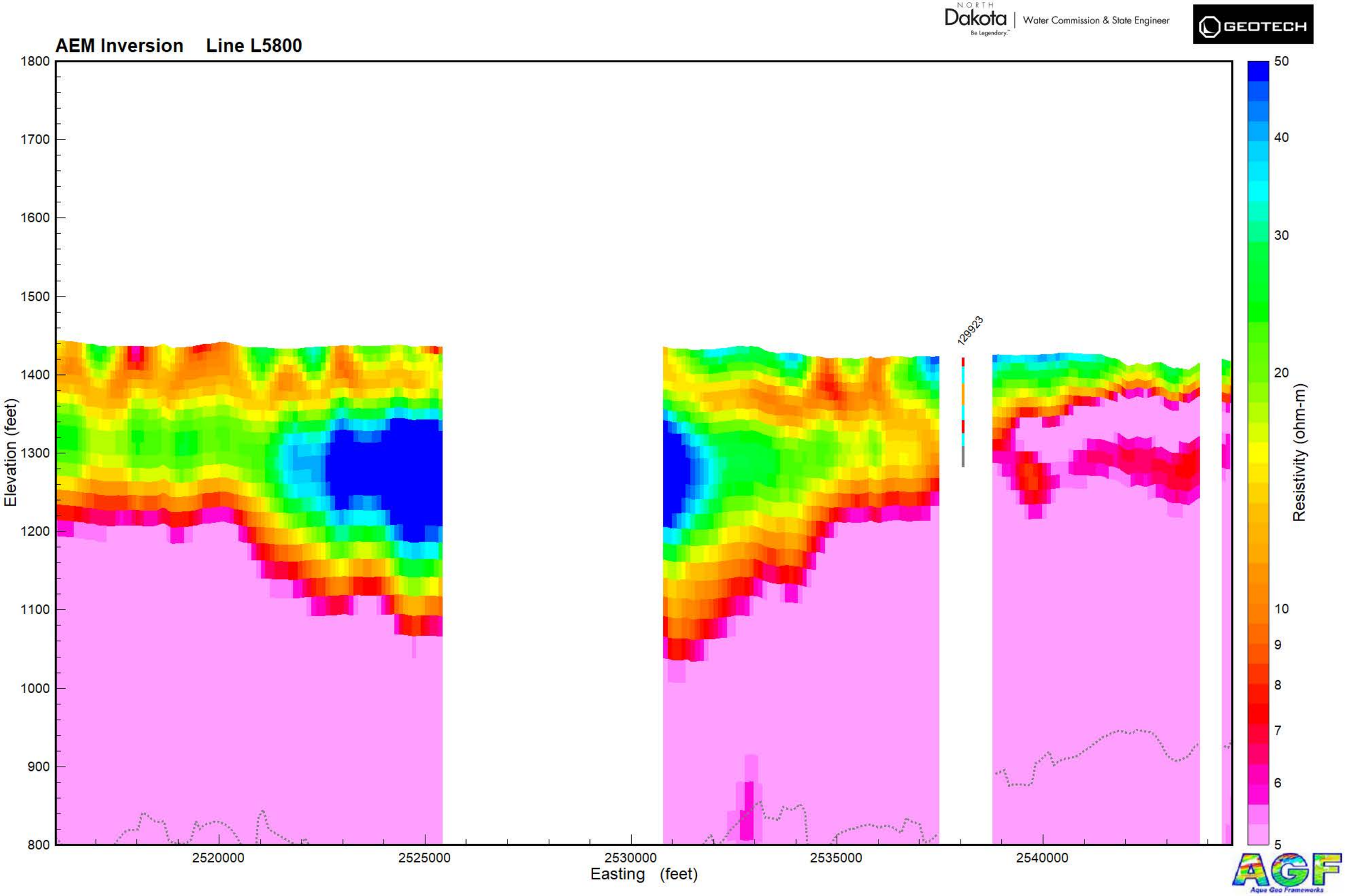

NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5750
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
22922
22921
2535000
2540000
2545000
2550000
2555000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

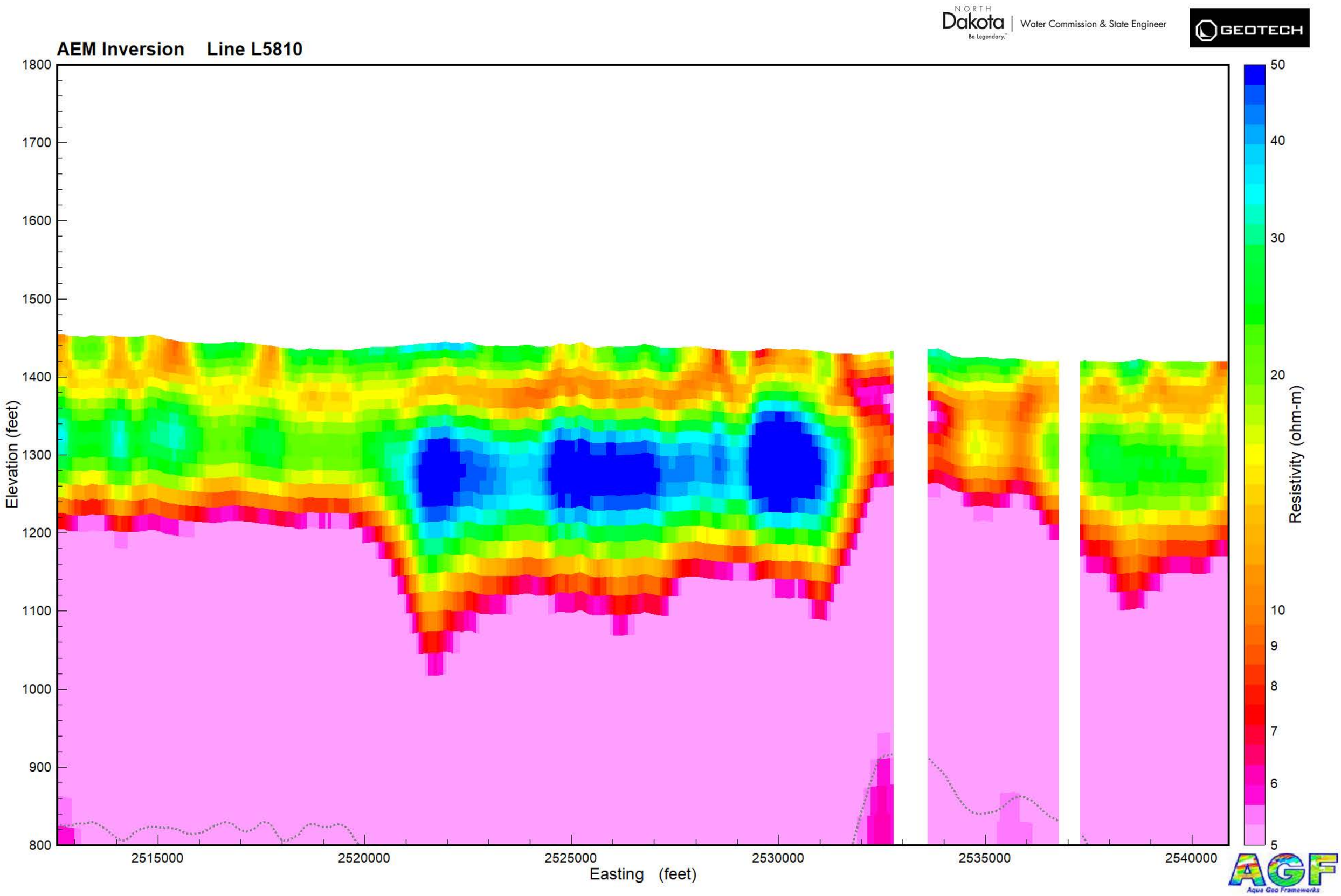

NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5760
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2530000
2535000
2540000
2545000
2550000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5770
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2525000
2530000
2535000
2540000
2545000
2550000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5780
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2525000
2530000
2535000
2540000
2545000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5790
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2520000
2525000
2530000
2535000
2540000
2545000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

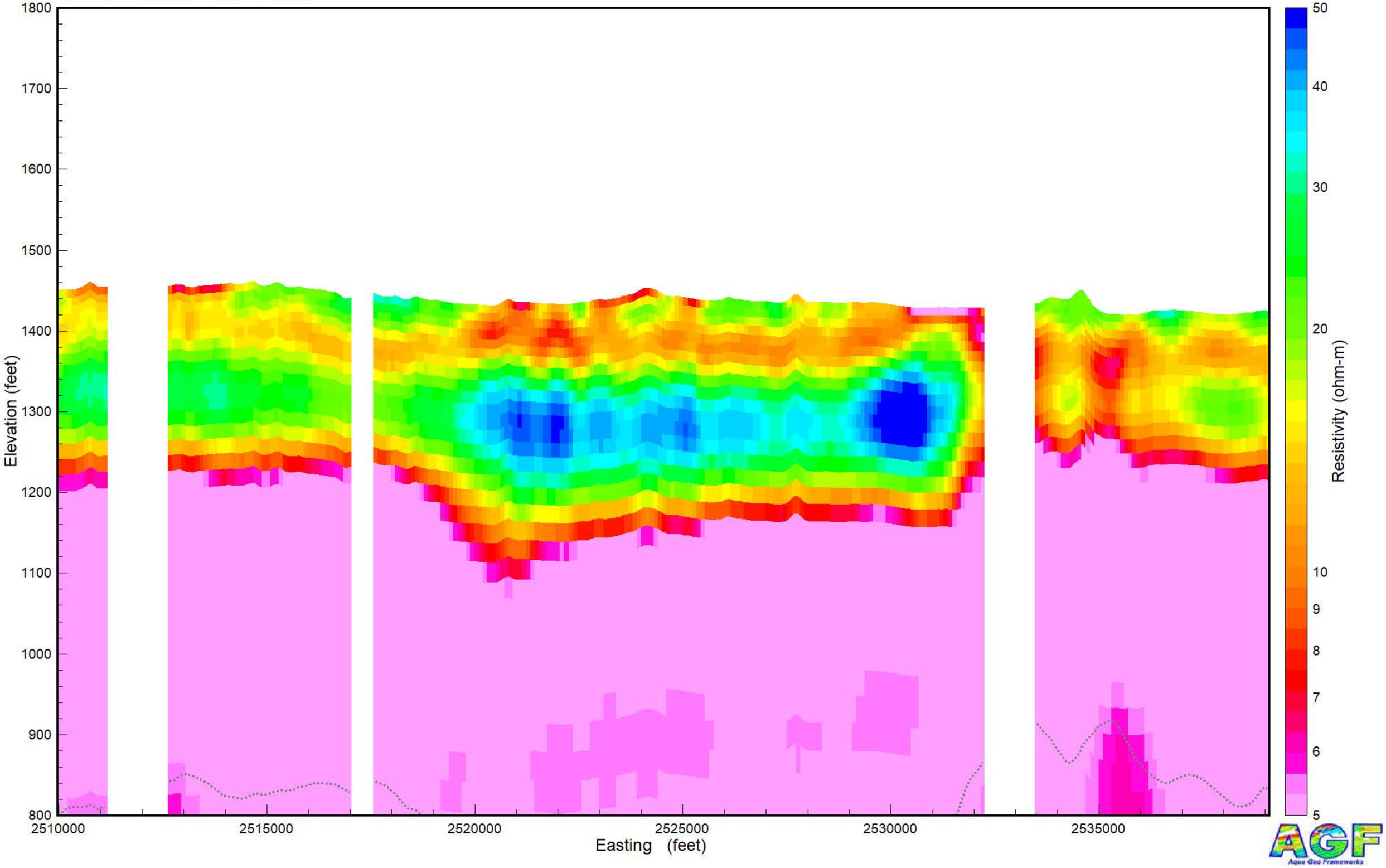

AEM Inversion Line L5800
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
129923
2520000
2525000
2530000
2535000
2540000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5810
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2515000
2520000
2525000
2530000
2535000
2540000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

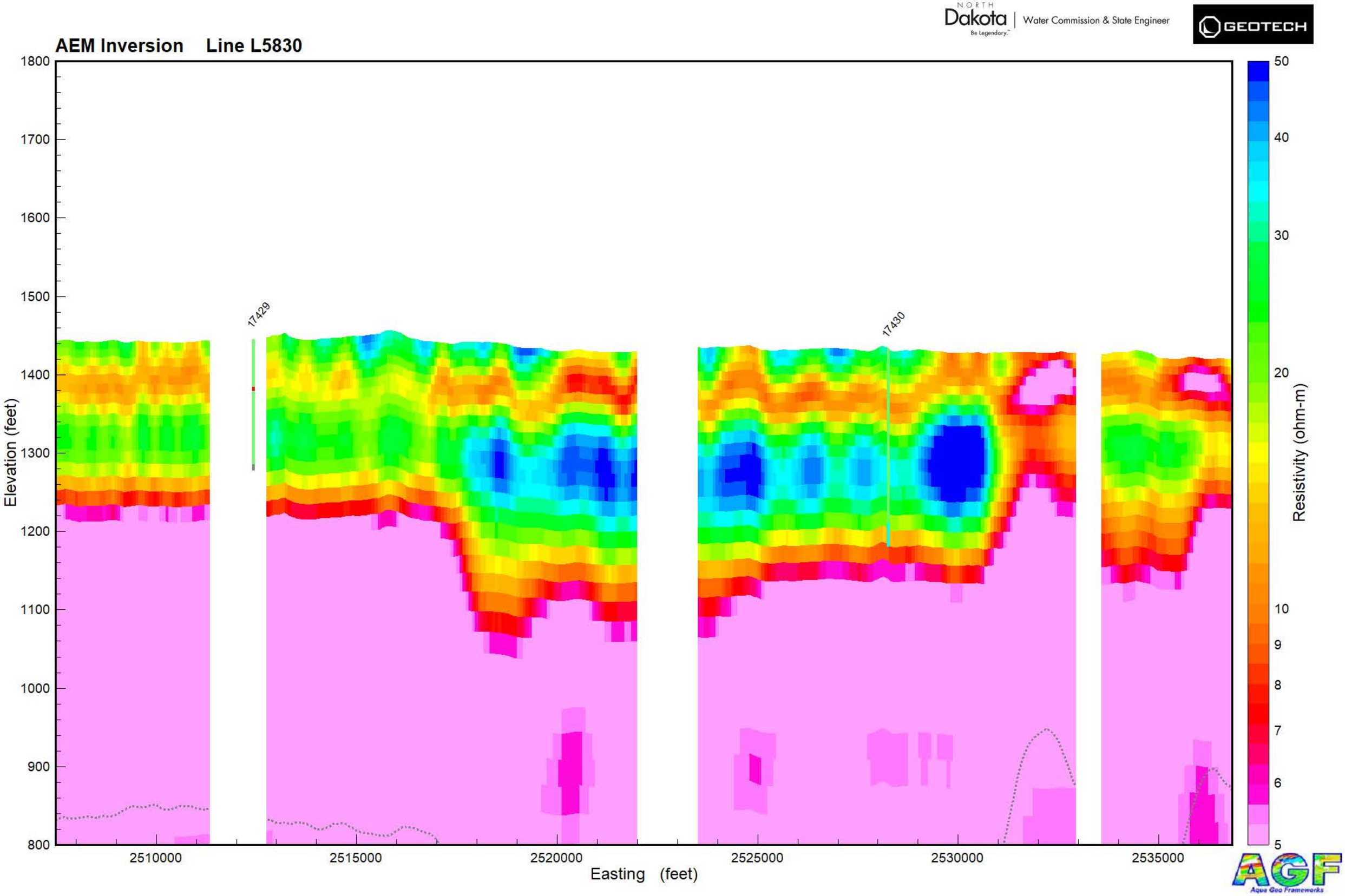
North Dakota Water Commission & State Engineer

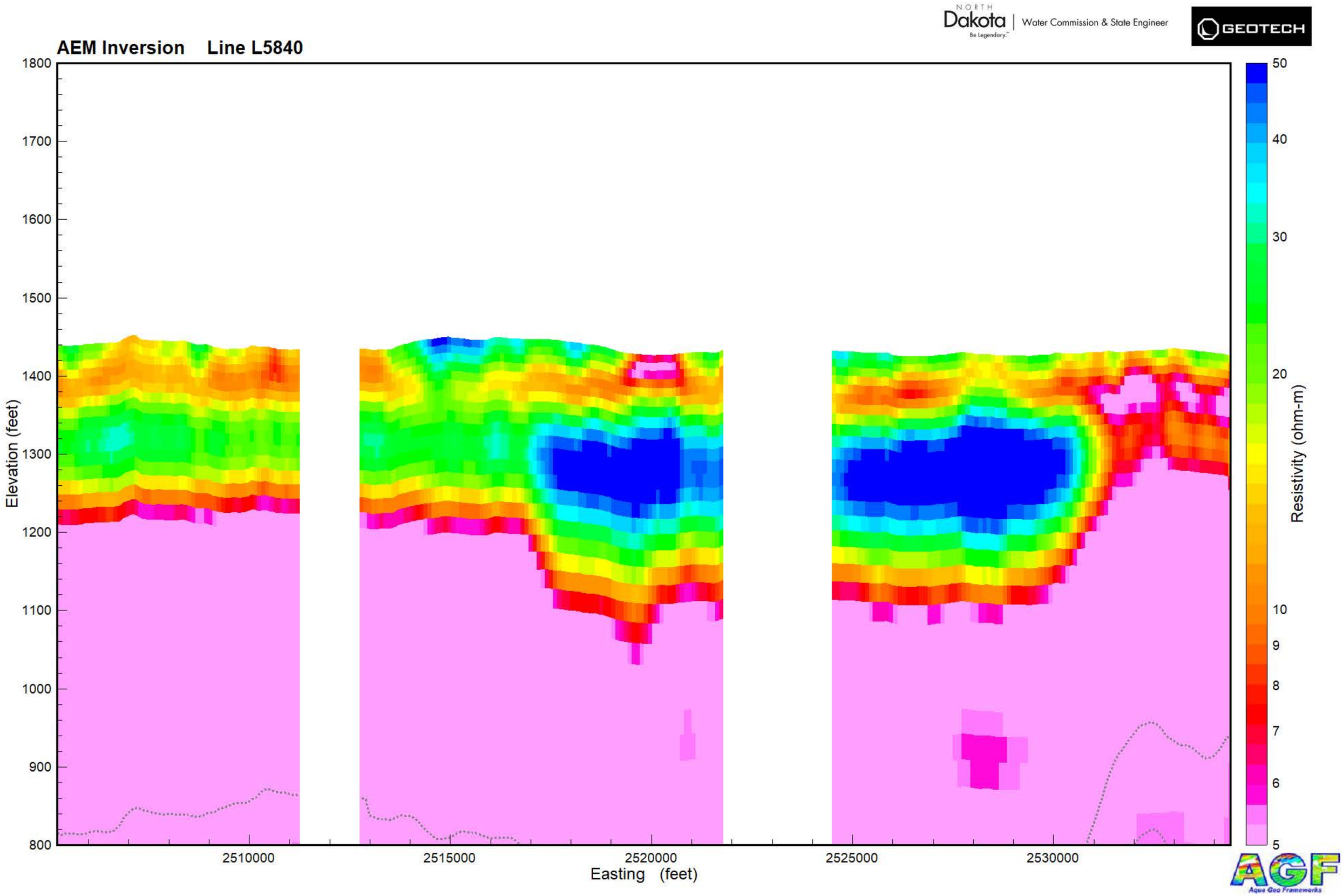
GEOTECH

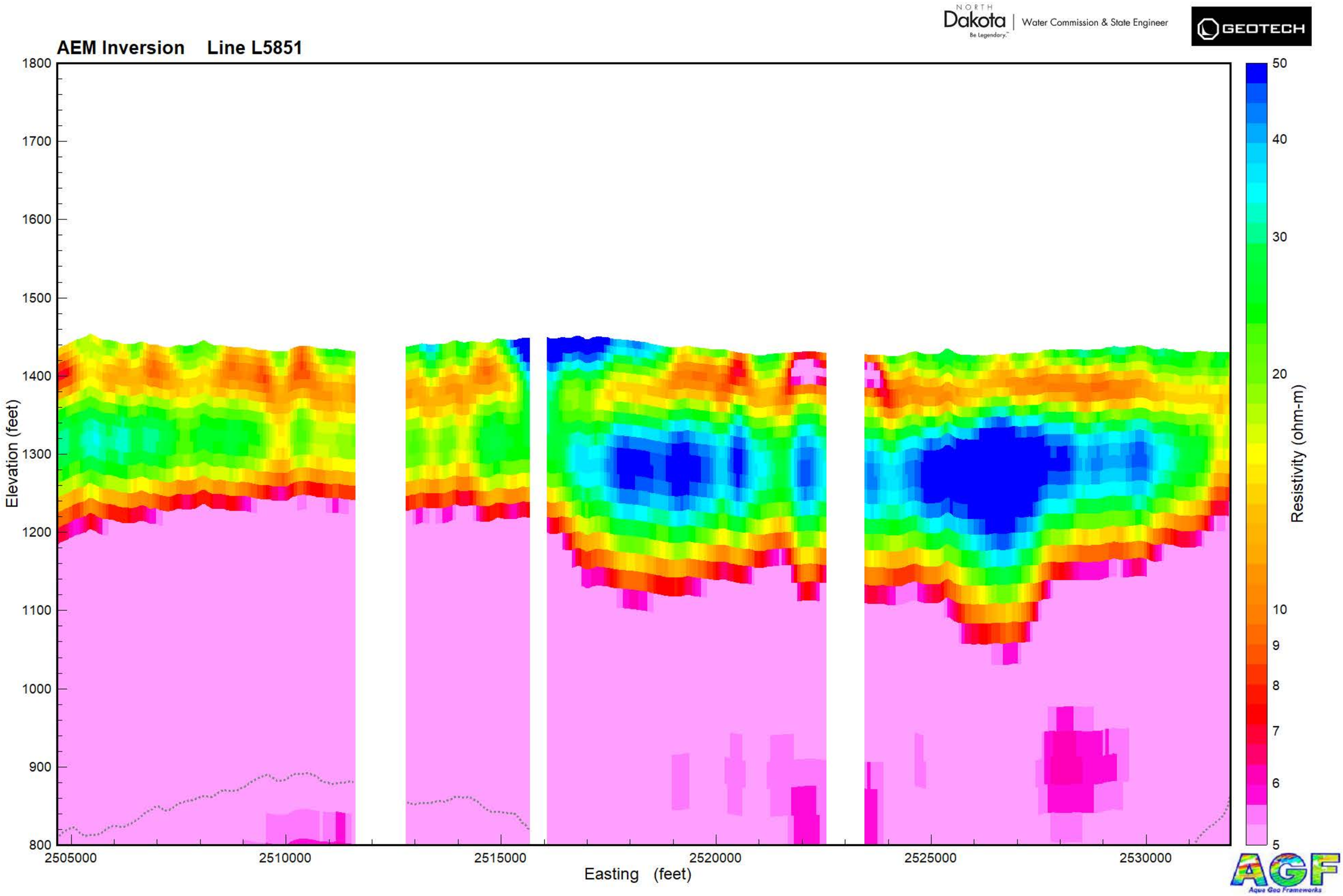
AEM Inversion Line L5820



AGF Aqua Geo Frameworks


AEM Inversion Line L5830
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
17429
17430
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2510000
2515000
2520000
2525000
2530000
2535000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

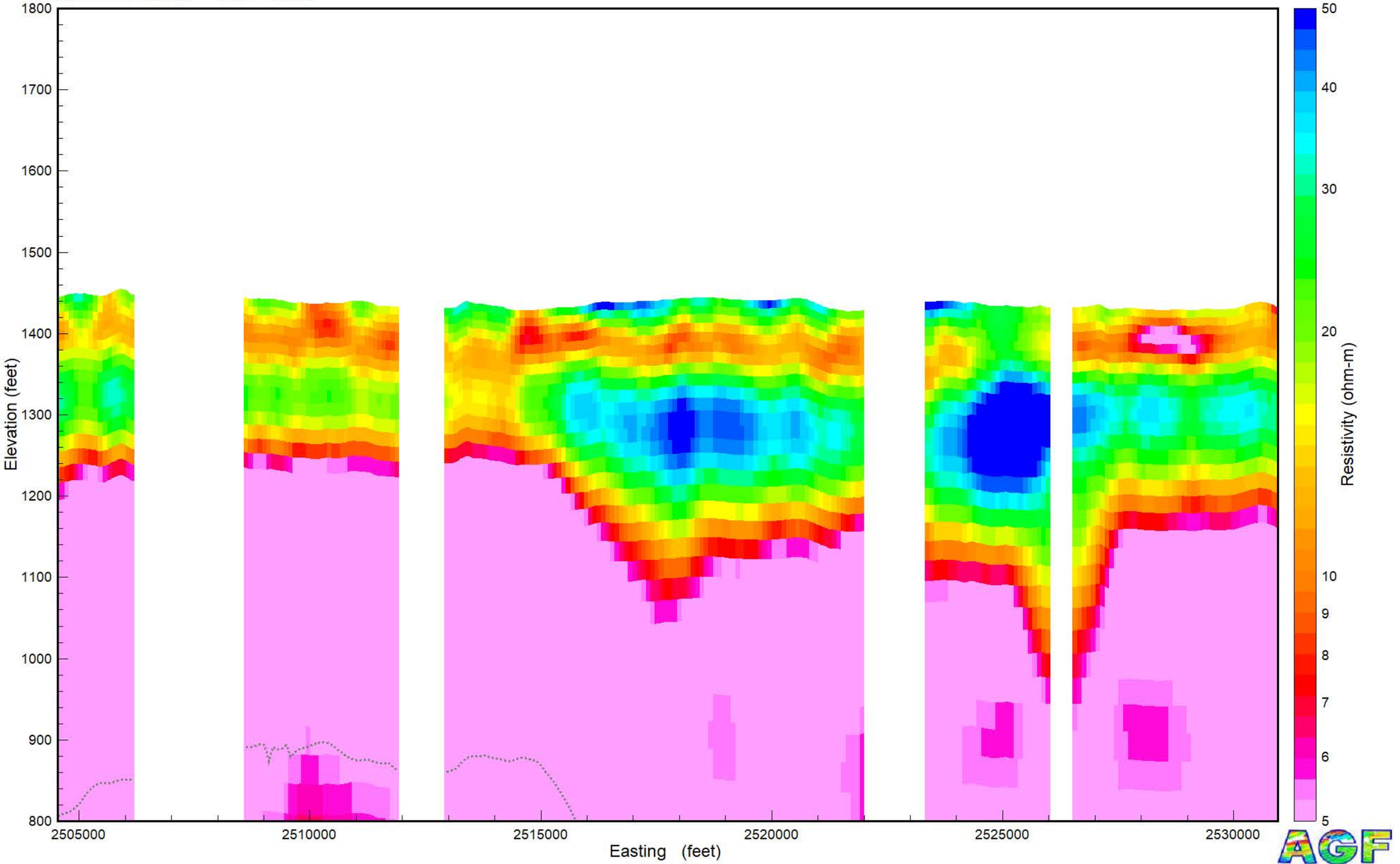

AEM Inversion Line L5840
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2510000
2515000
2520000
2525000
2530000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5851
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2505000
2510000
2515000
2520000
2525000
2530000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

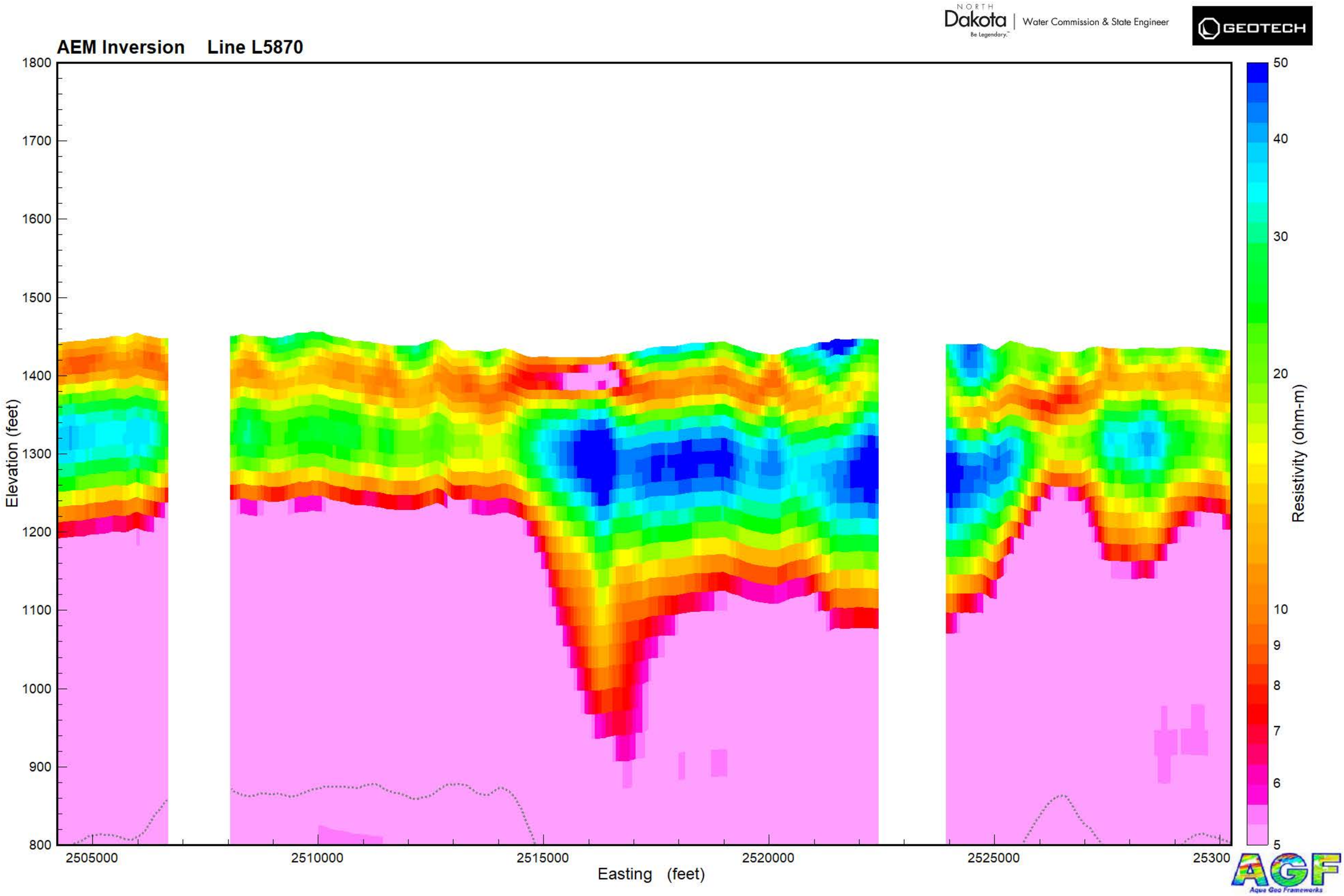
North Dakota Water Commission & State Engineer

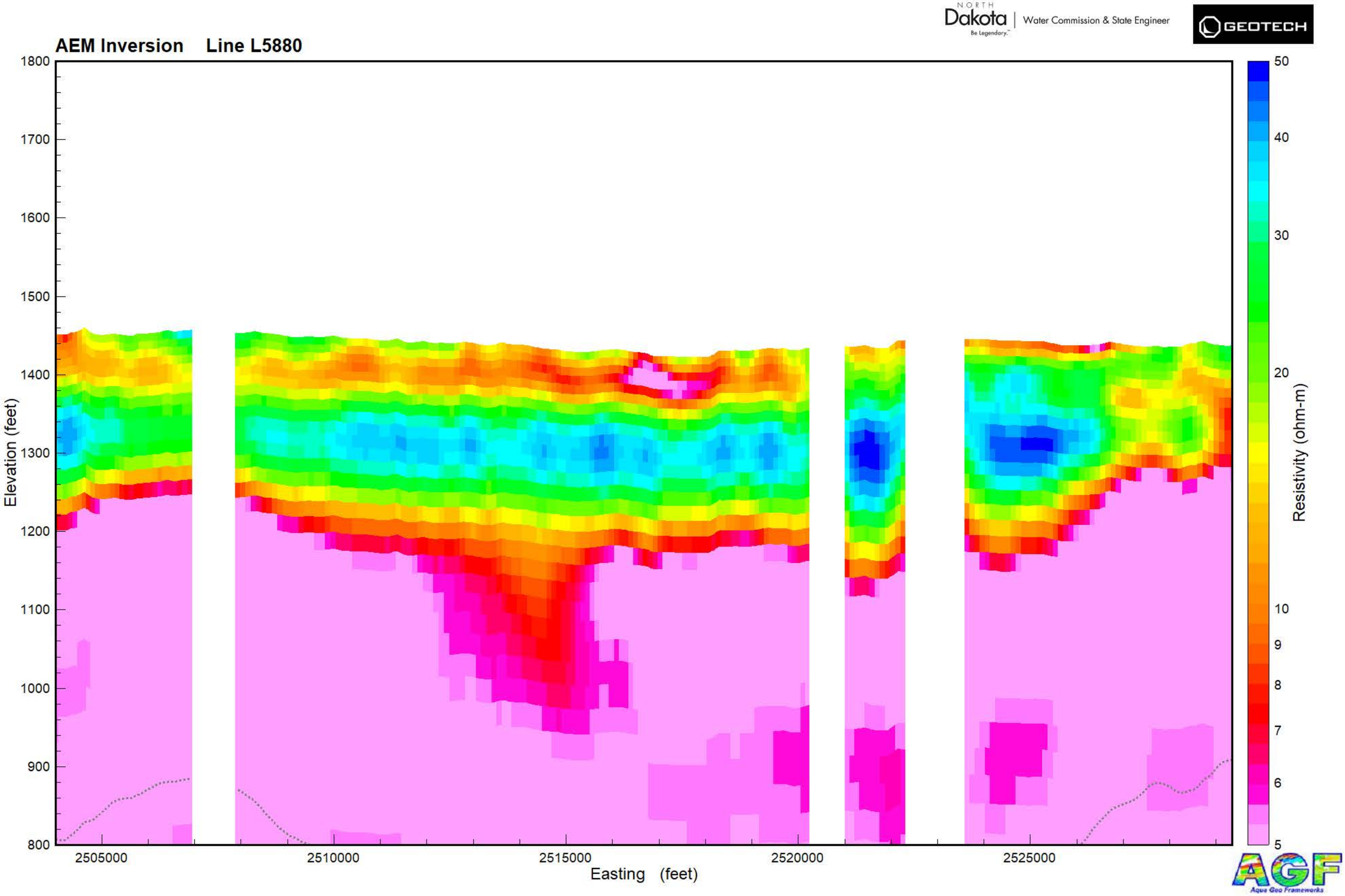
GEOTECH

AEM Inversion Line L5860



AGF Aqua Geo Frameworks

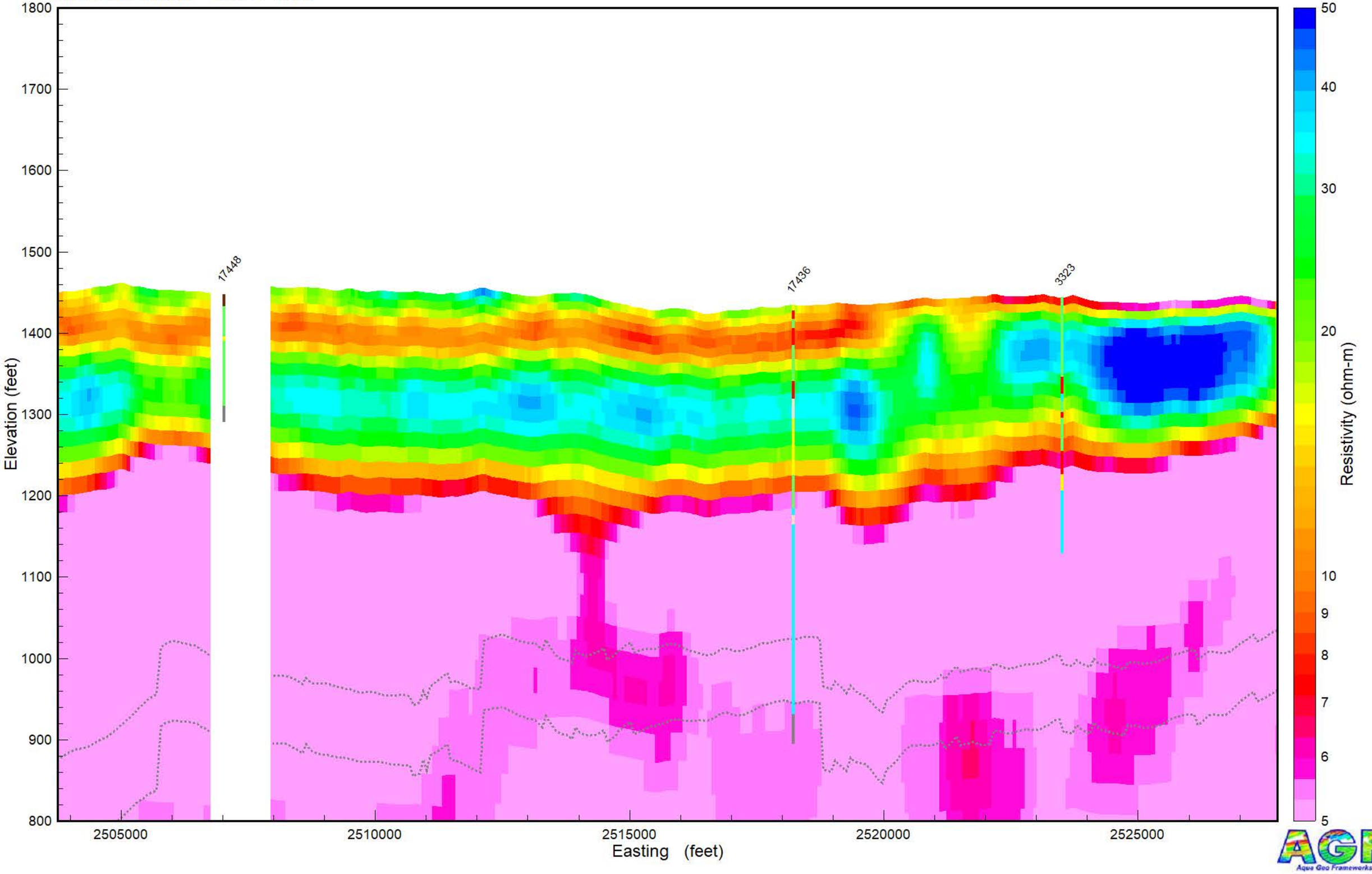

AEM Inversion Line L5870
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2505000
2510000
2515000
2520000
2525000
25300
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5880
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2505000
2510000
2515000
2520000
2525000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5890

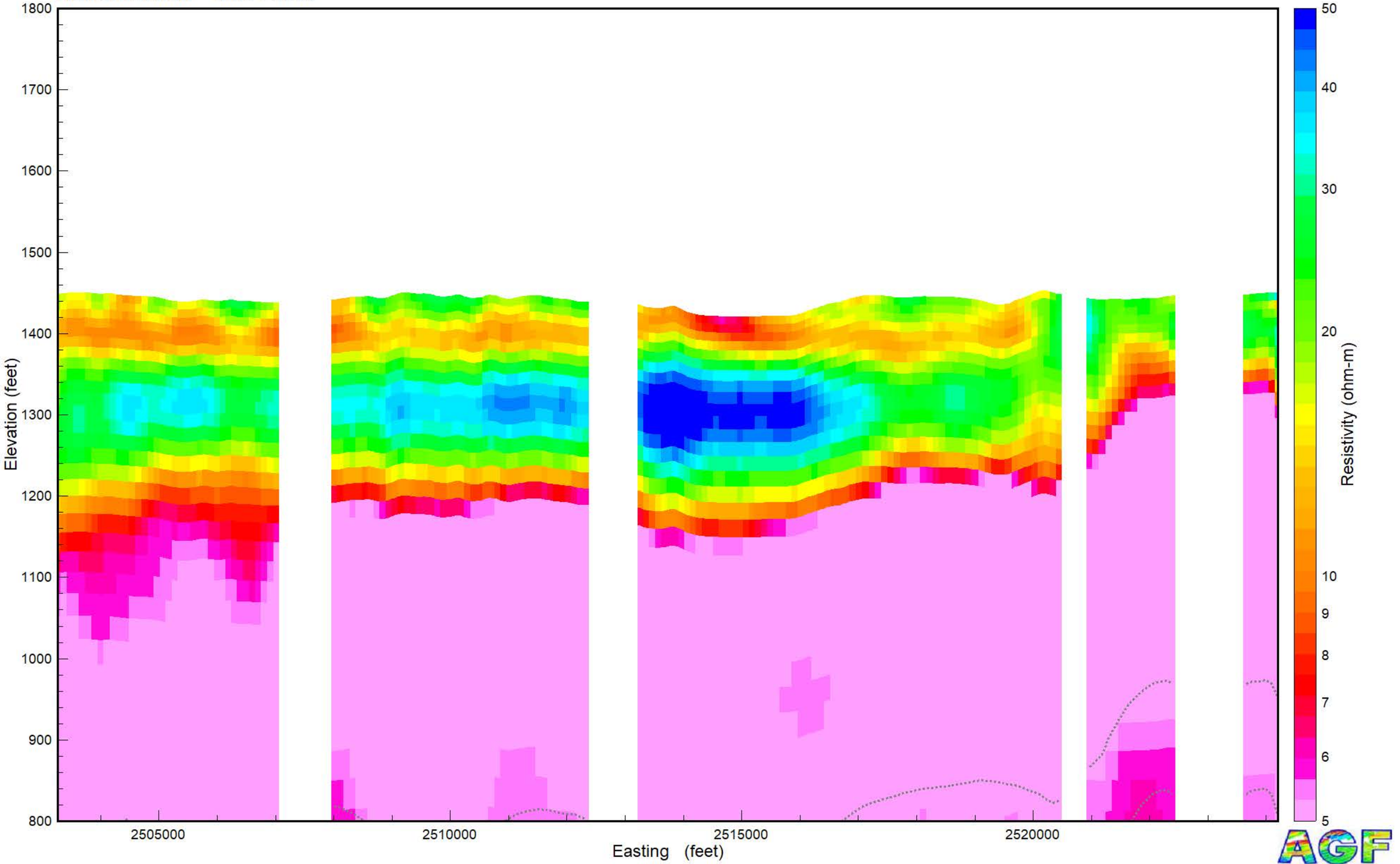


AGF Aqua Geo Frameworks

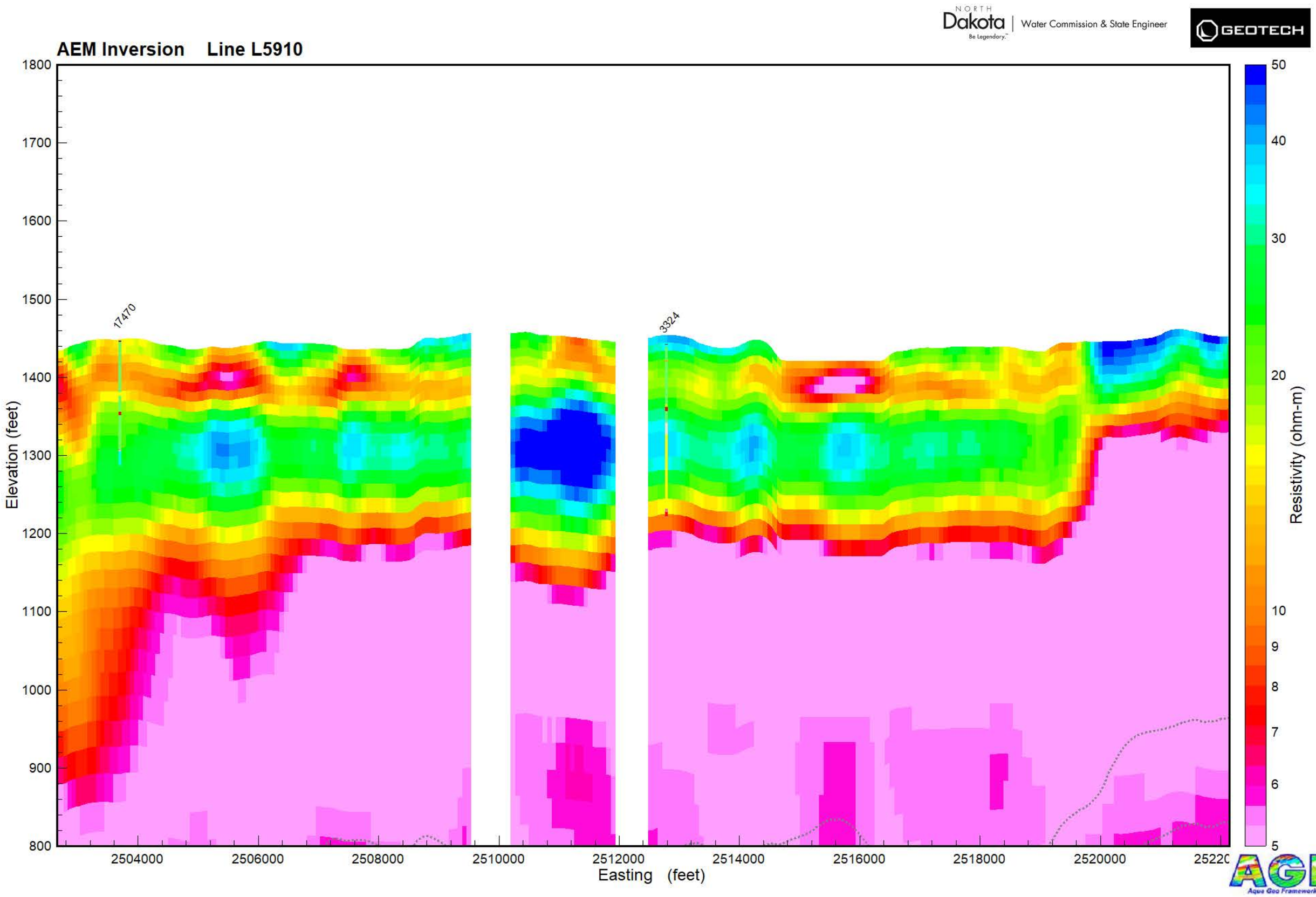
North Dakota | Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5900



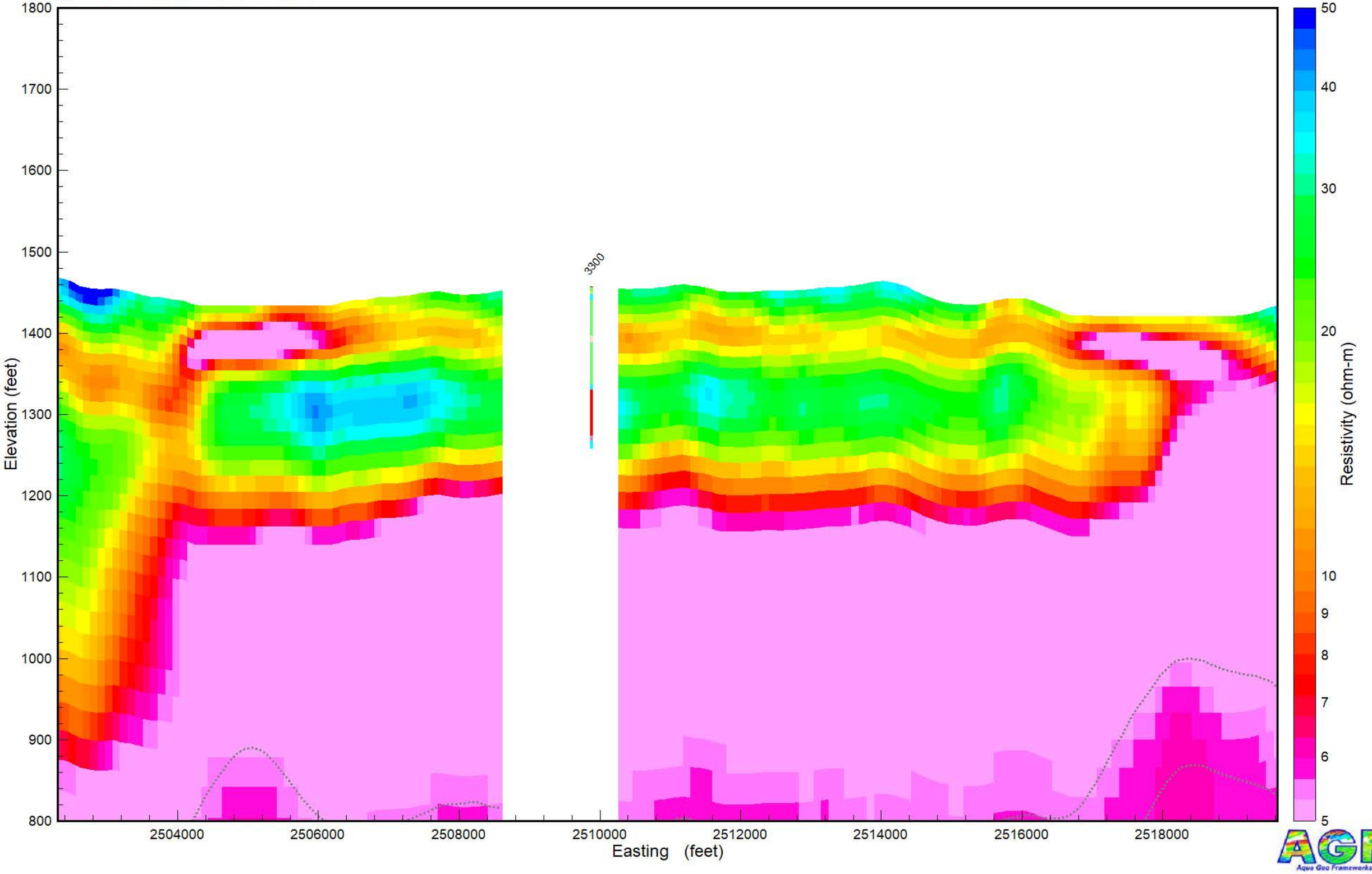
AGF Aqua Geo Frameworks


AEM Inversion Line L5910
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
17470
3324
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2504000
2506000
2508000
2510000
2512000
2514000
2516000
2518000
2520000
2522(
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

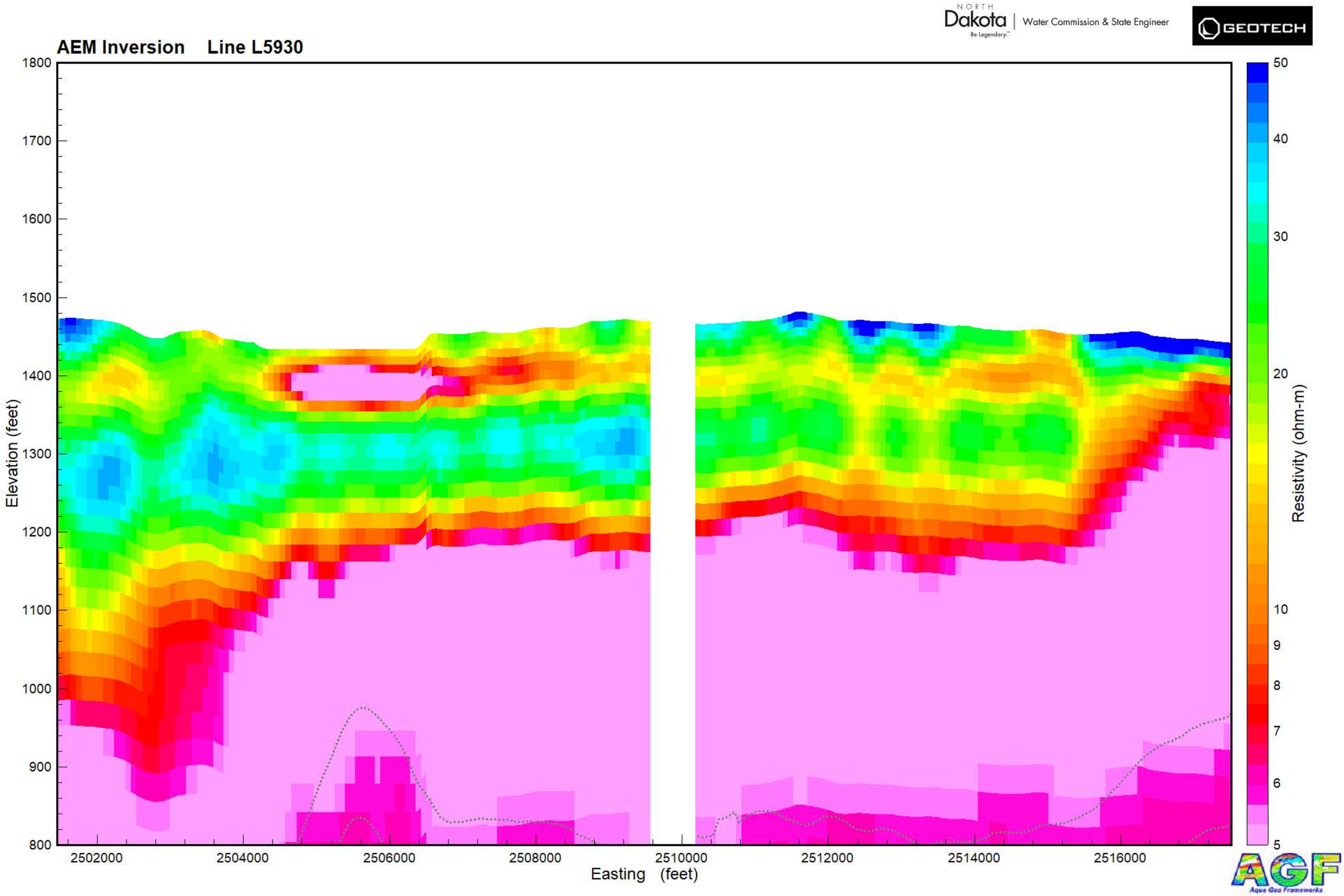
North Dakota Water Commission & State Engineer

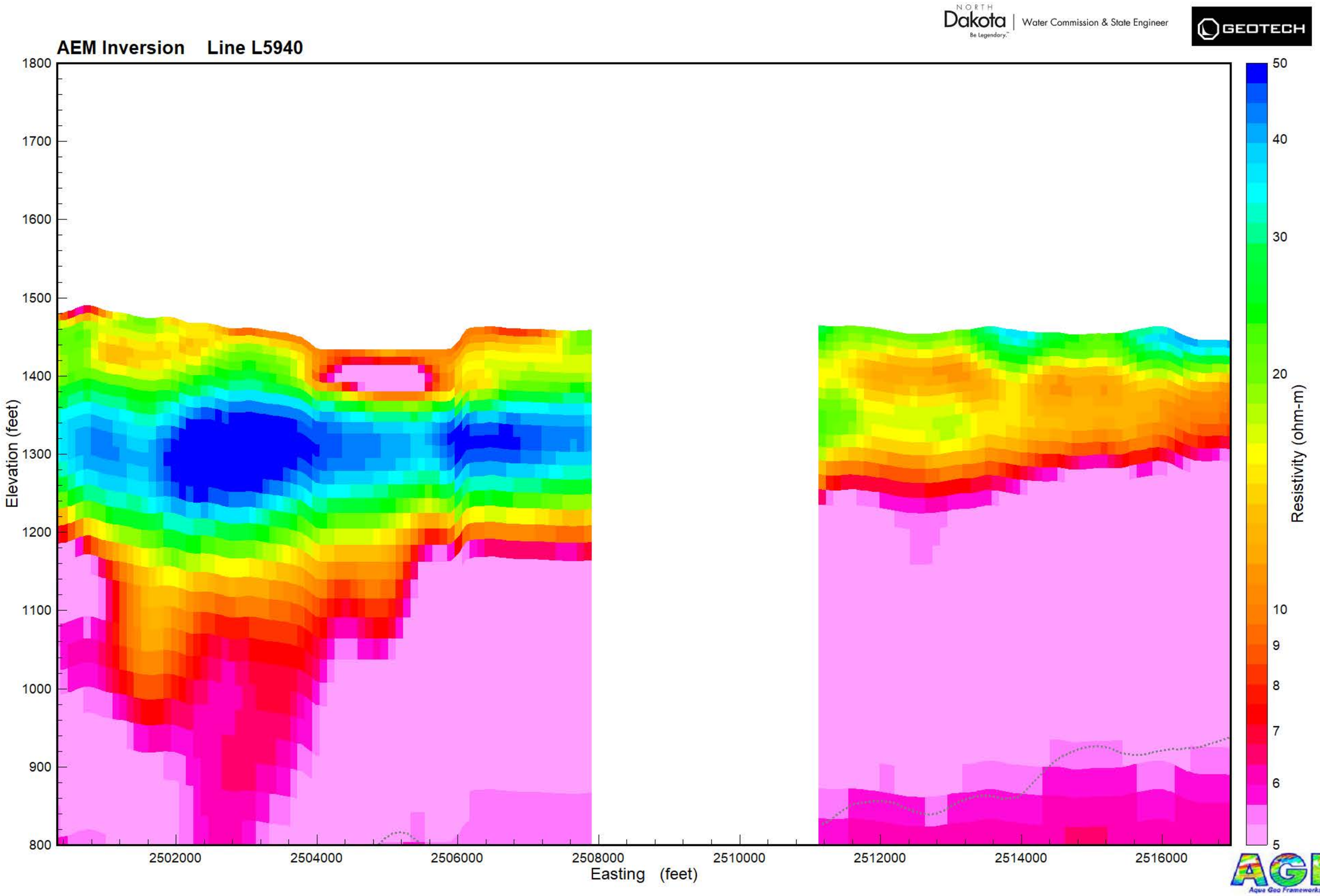
GEOTECH

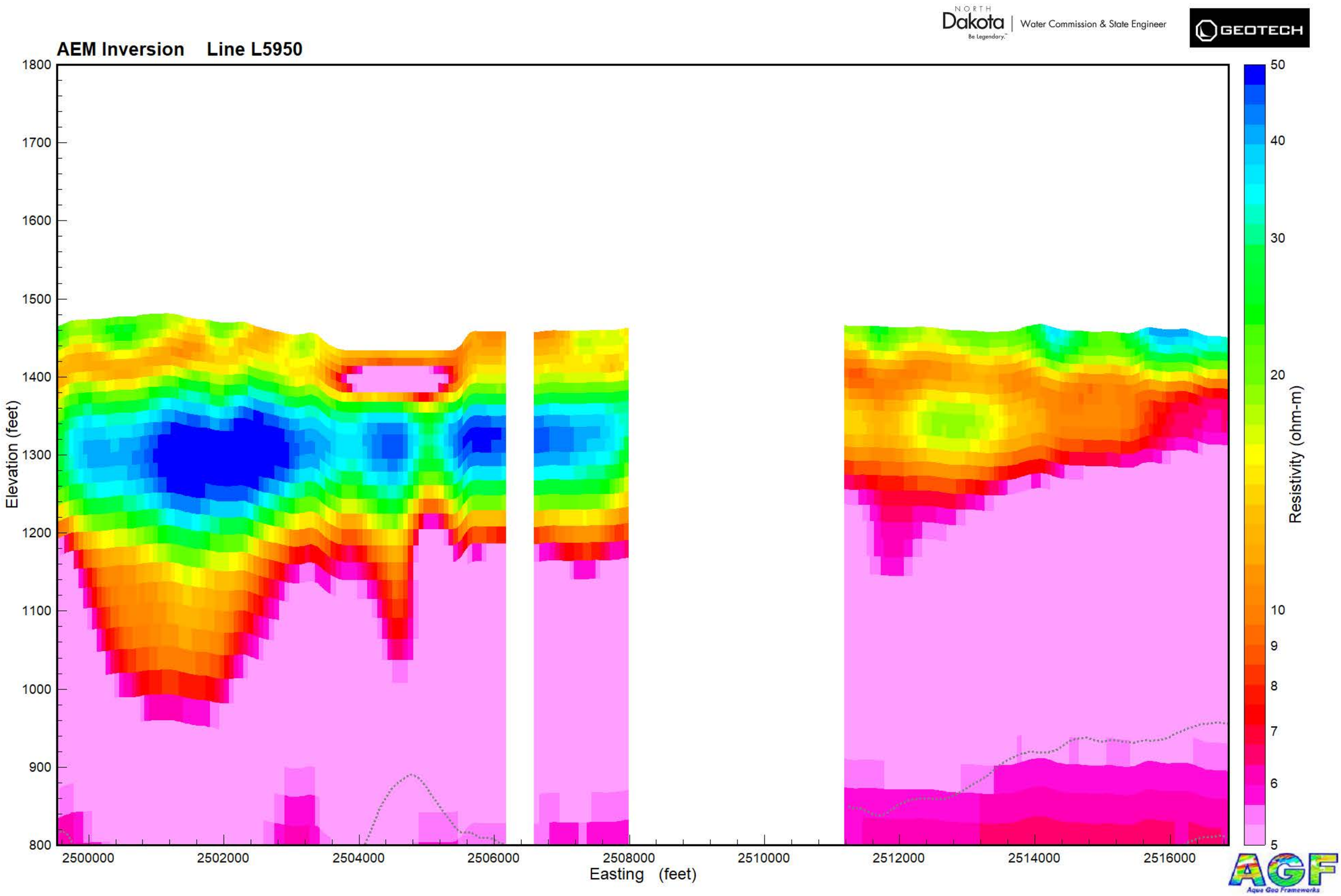
AEM Inversion Line L5920

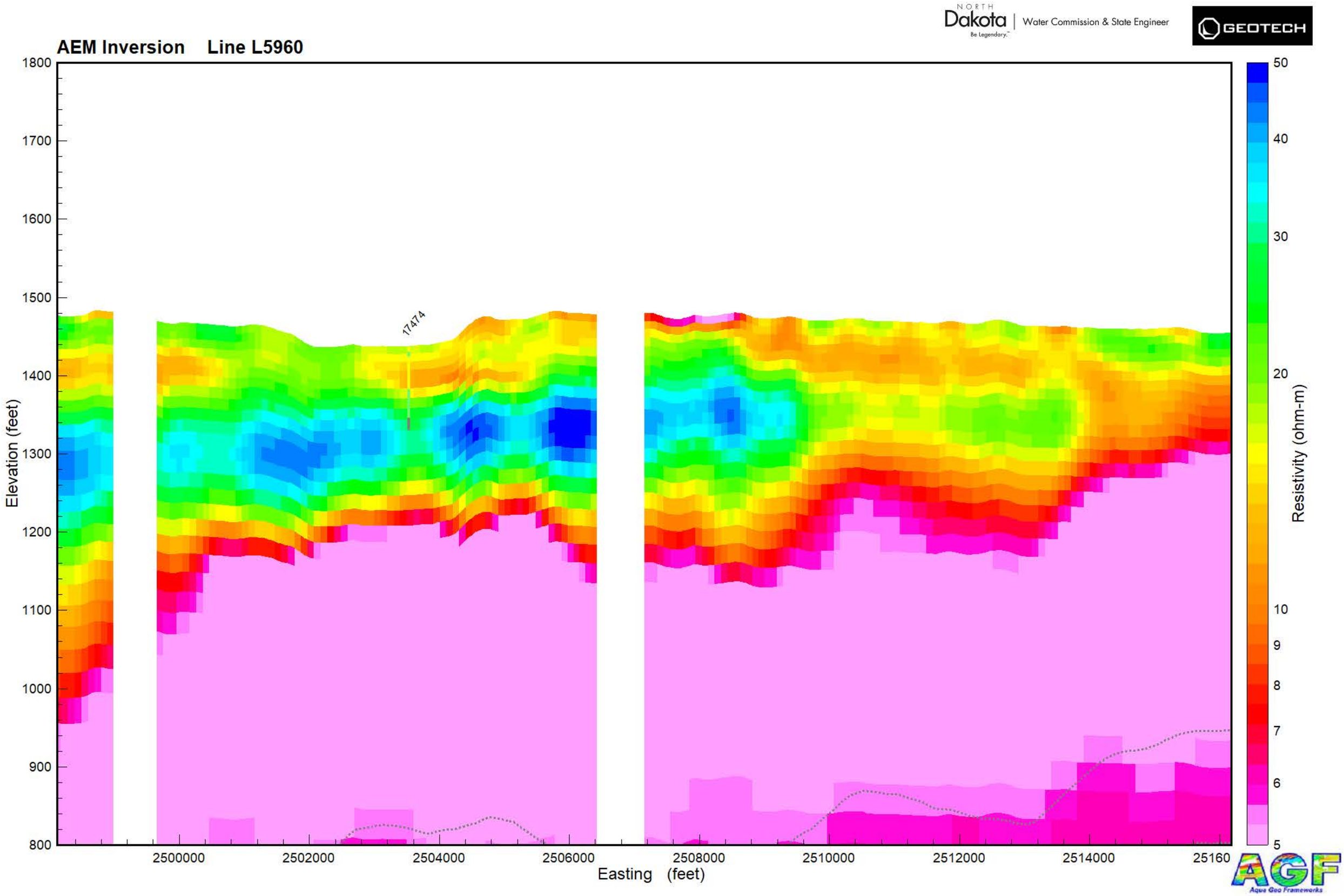


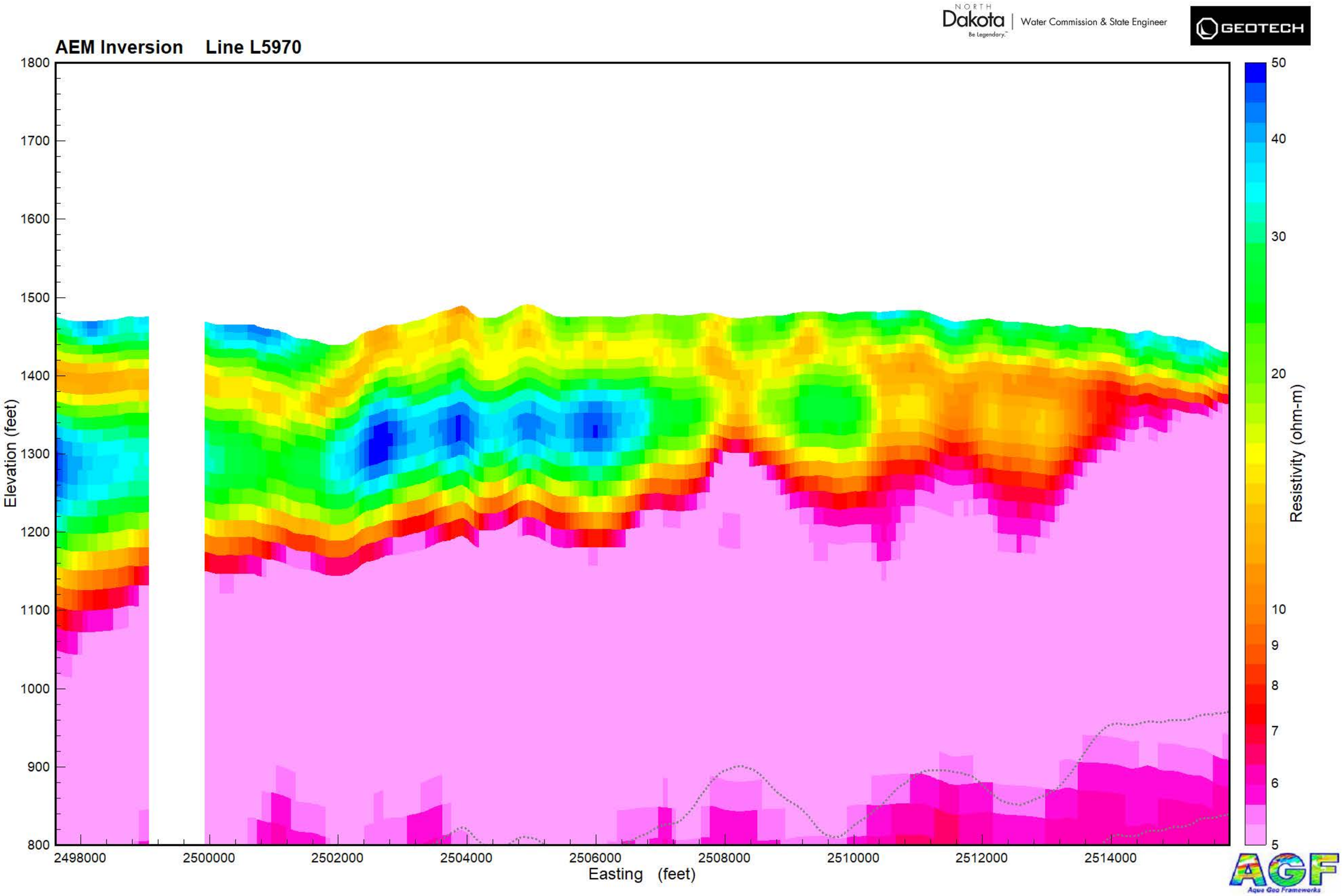
AGF Aqua Geo Frameworks


AEM Inversion Line L5930
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2502000
2504000
2506000
2508000
2510000
2512000
2514000
2516000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5940
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2502000
2504000
2506000
2508000
2510000
2512000
2514000
2516000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L5950
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2500000
2502000
2504000
2506000
2508000
2510000
2512000
2514000
2516000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

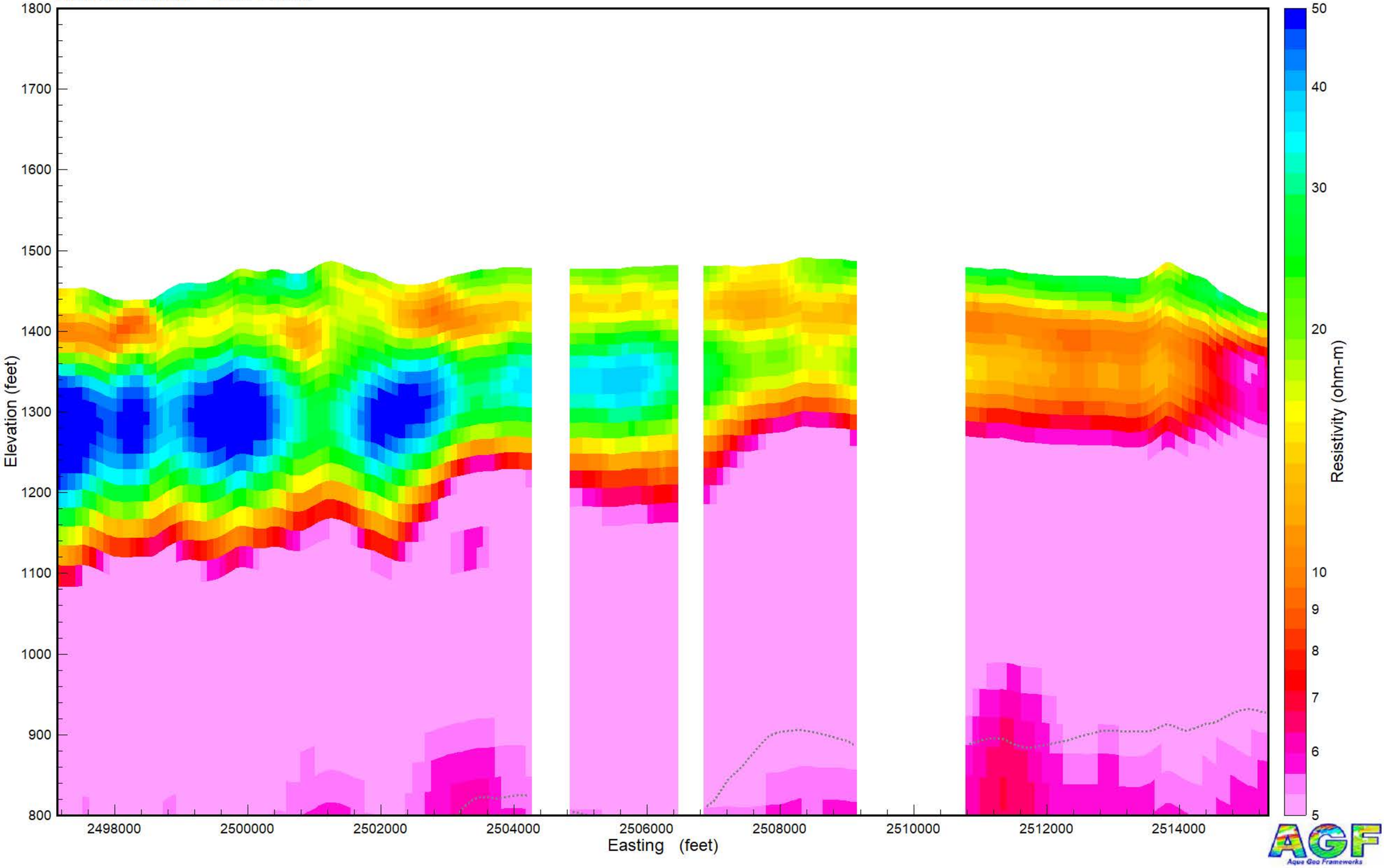

AEM Inversion Line L5960
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
17474
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2500000
2502000
2504000
2506000
2508000
2510000
2512000
2514000
25160
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
AEM Inversion Line L5970
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2498000
2500000
2502000
2504000
2506000
2508000
2510000
2512000
2514000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

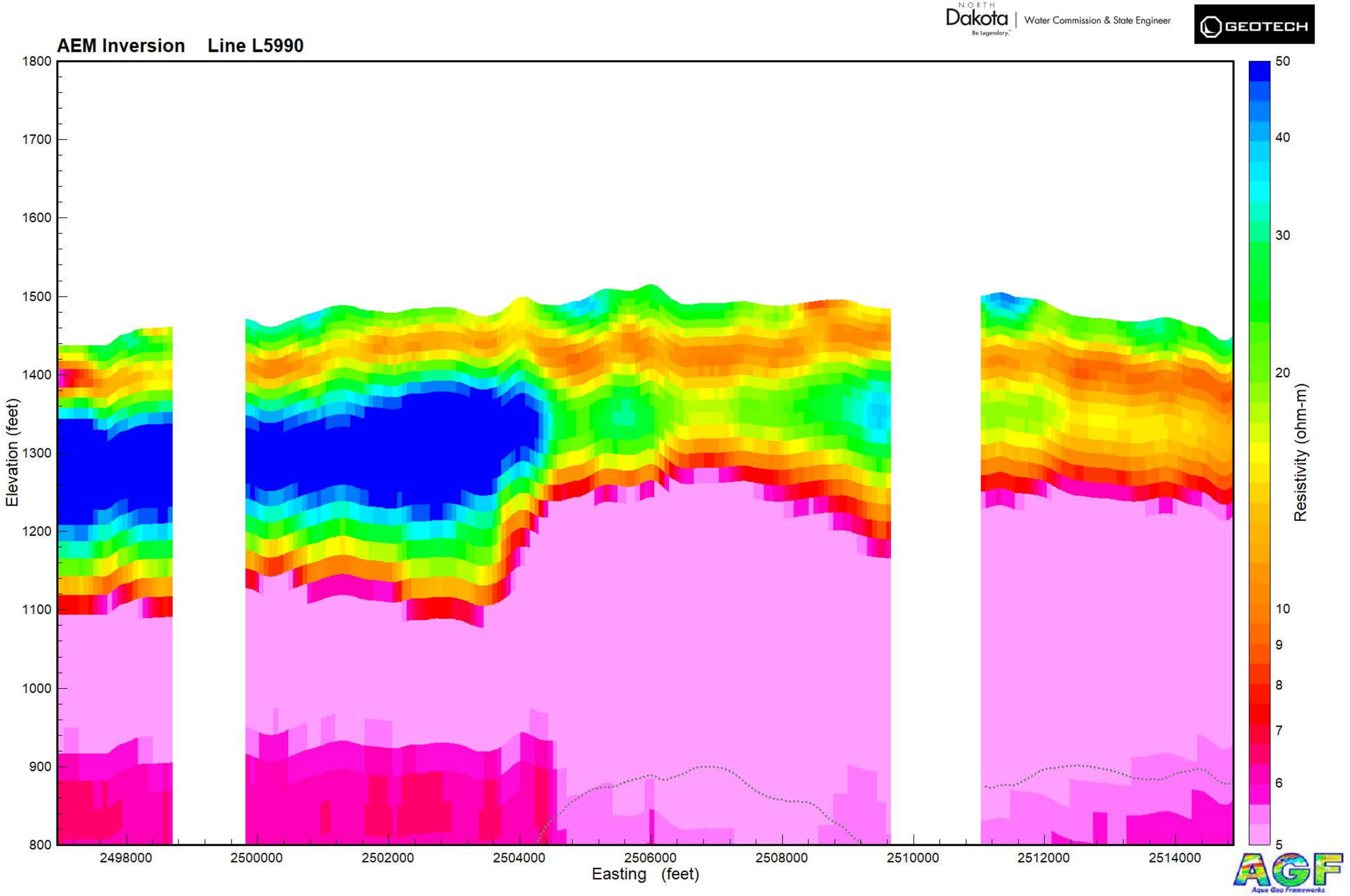
North Dakota Water Commission & State Engineer

GEOTECH

AEM Inversion Line L5980



AGF Aqua Geo Frameworks


AEM Inversion Line L5990
NORTH Dakota Be Legendary. | Water Commission & State Engineer
GEOTECH
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2498000
2500000
2502000
2504000
2506000
2508000
2510000
2512000
2514000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

Appendix 1:

2D Profiles – 2019 Towner Block Inverted AEM Resistivities

Page

A1-3 – A1-71 This document contains 2D Profiles of the 2019 Towner AEM survey area.

Each page has a flight line map at the top and one profile section below which is the inverted resistivity, and text on the side describing the genesis of the profile.

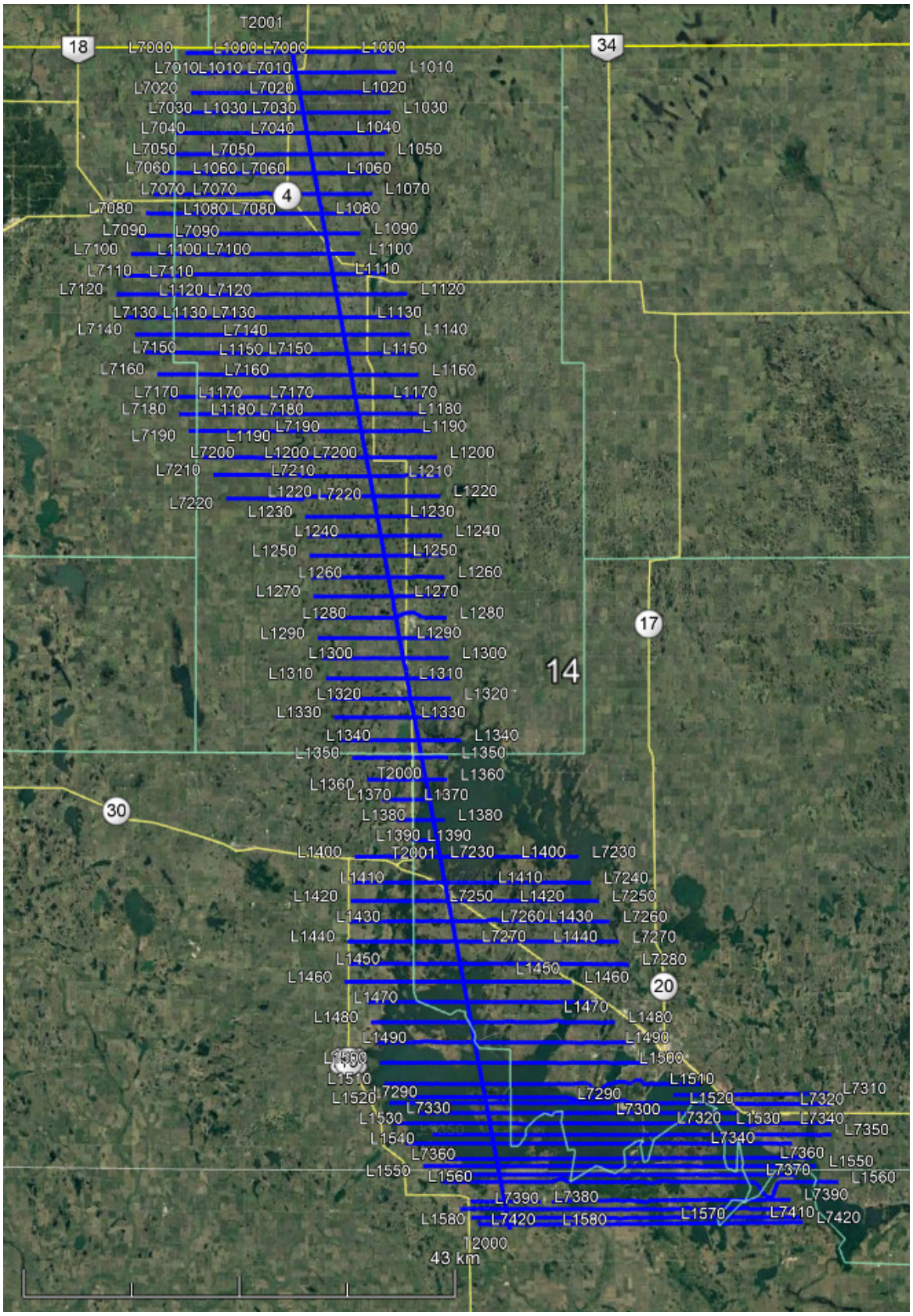
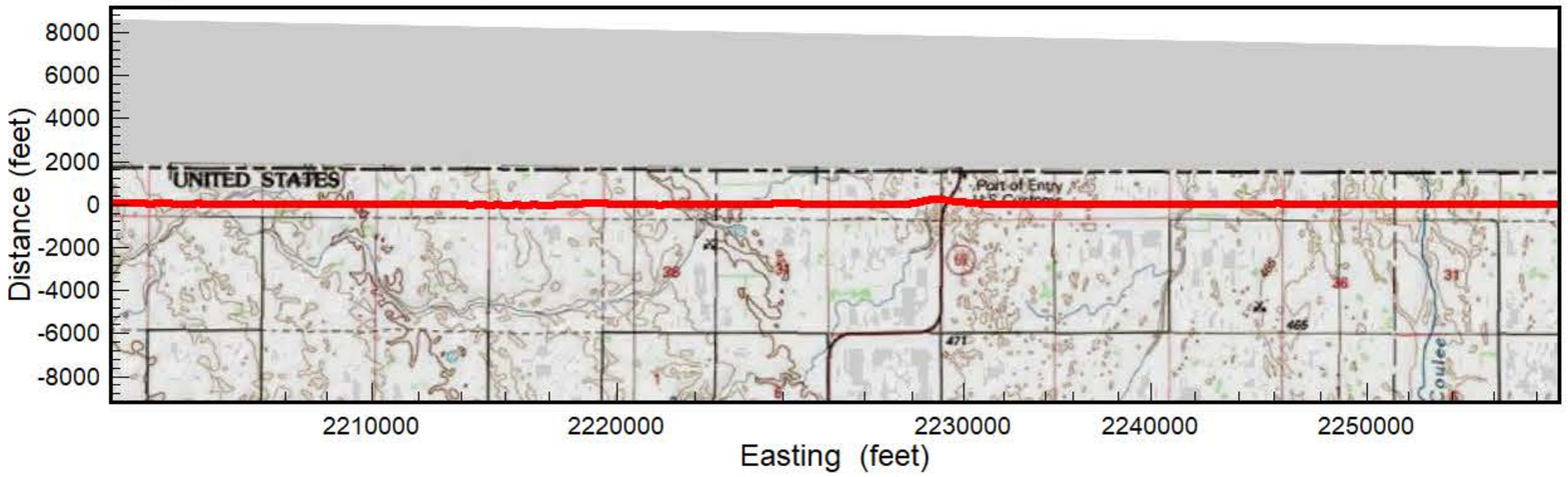
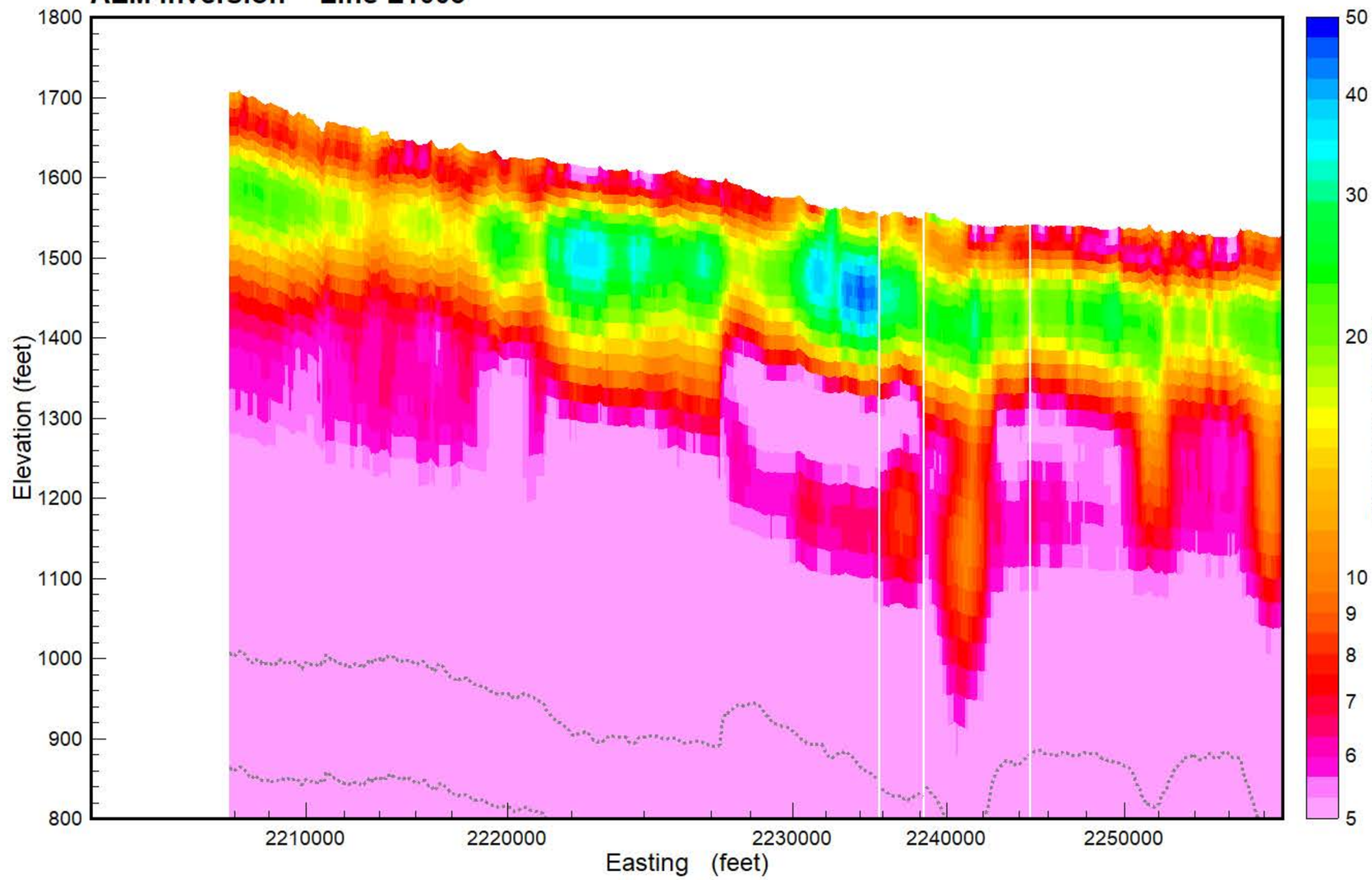


Figure A1-1. Map of the 2019 Towner AEM survey with flight line labels in Google Earth.

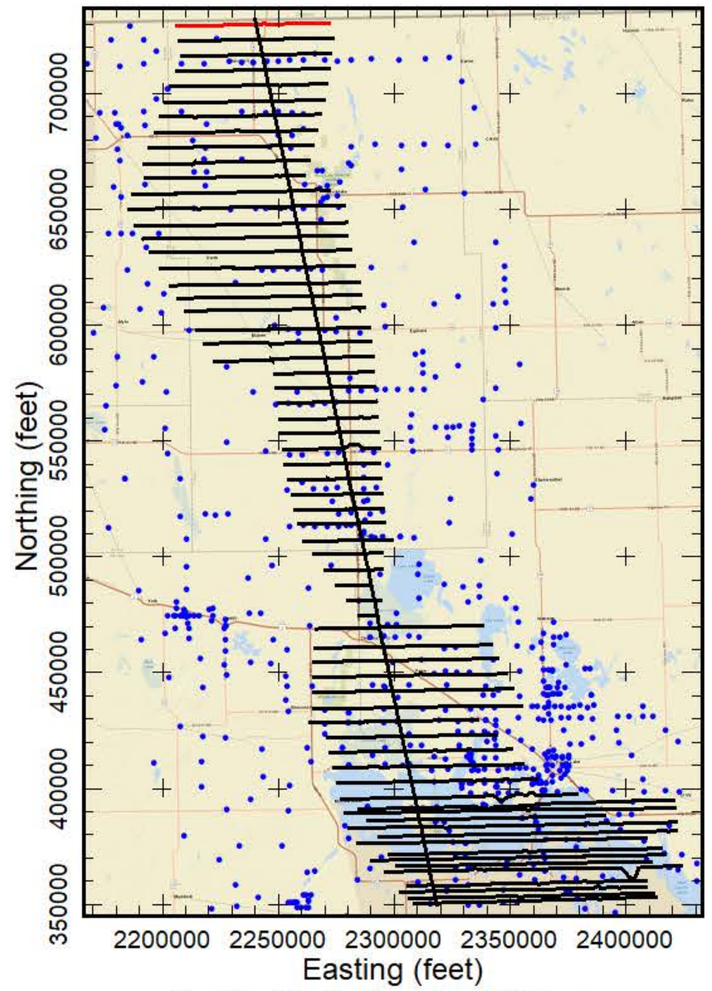
Flight Path Line L1005



AEM Inversion Line L1005



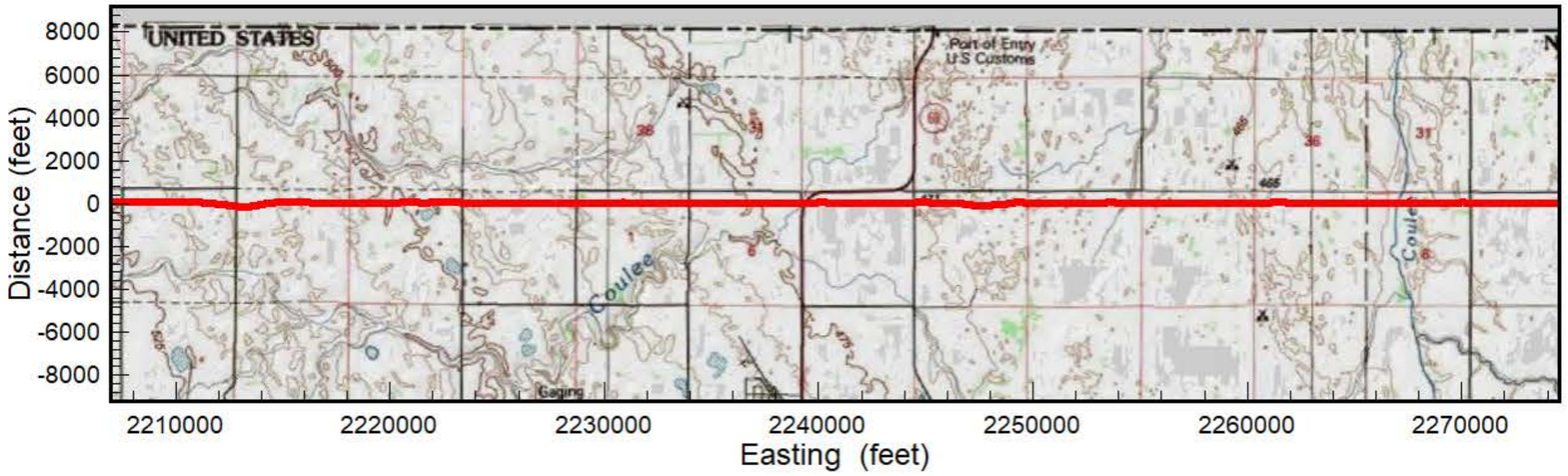
Flight Area Towner



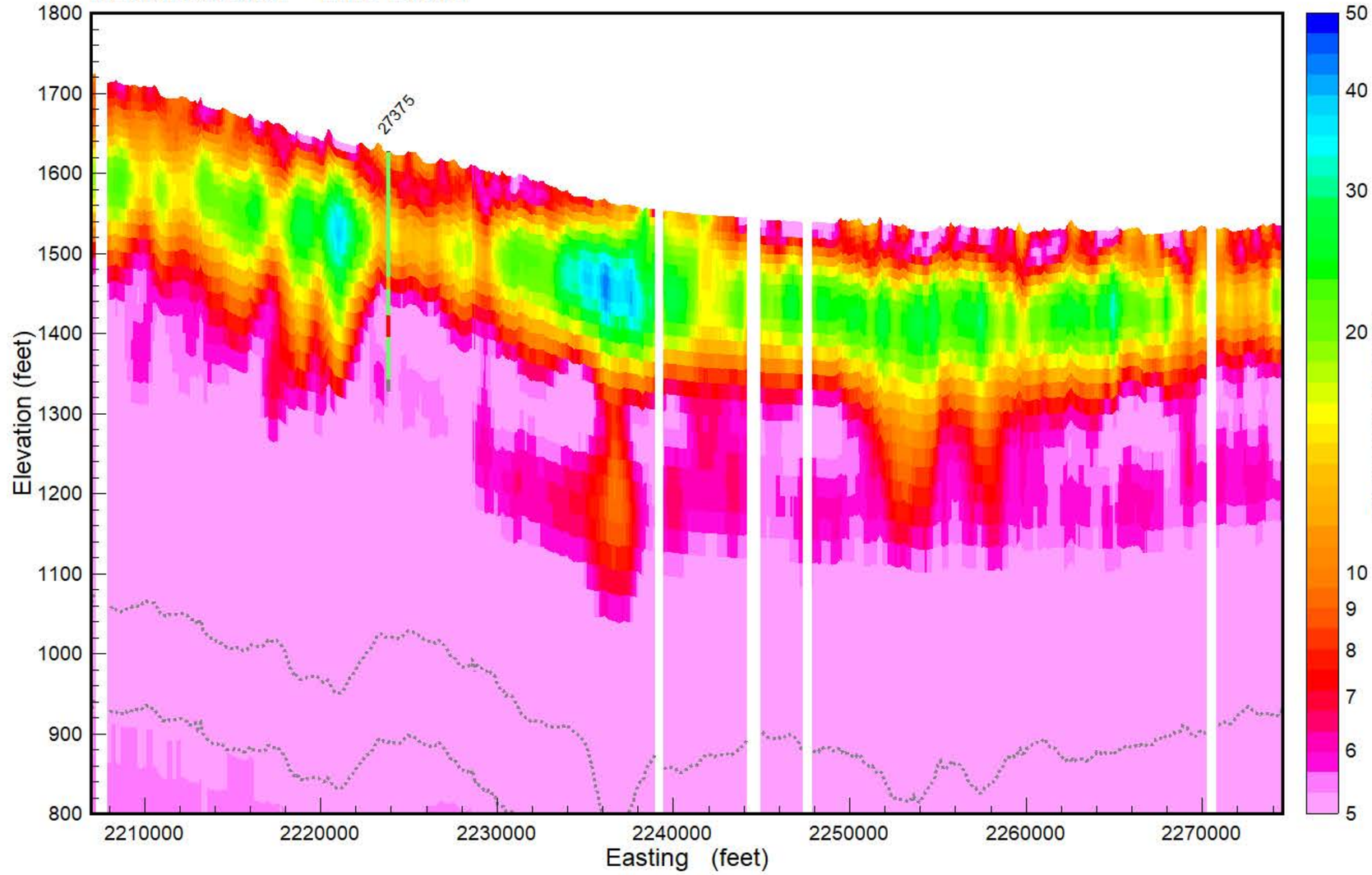
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

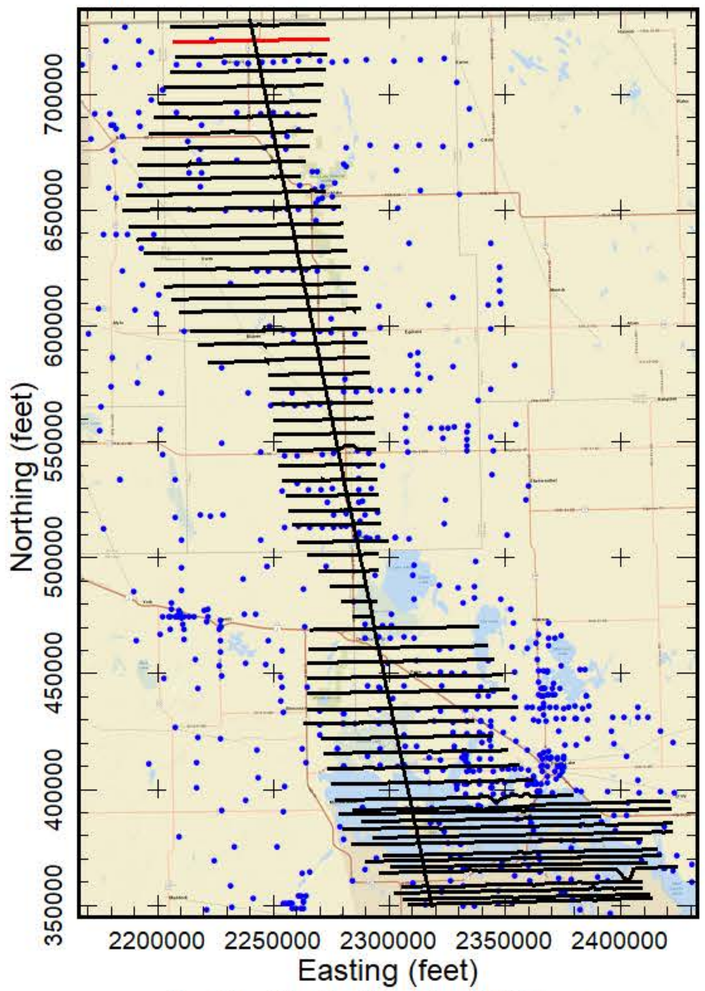
Flight Path Line L1015



AEM Inversion Line L1015



Flight Area Towner



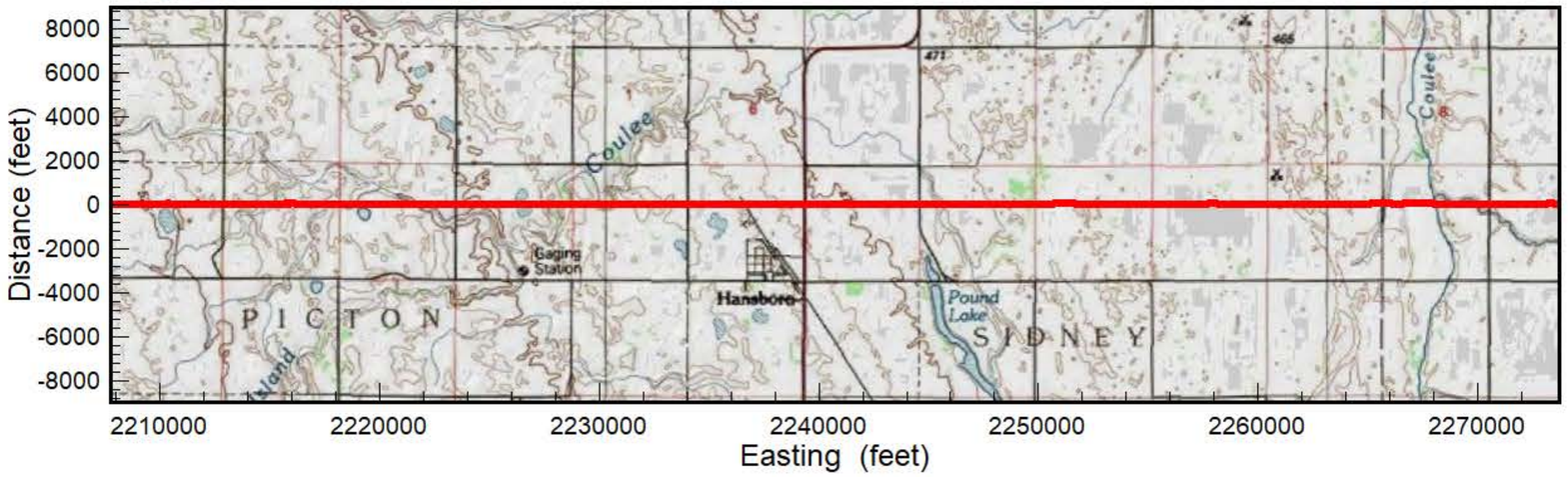
NORTH Dakota | Water Commission & State Engineer
Be Legendary.

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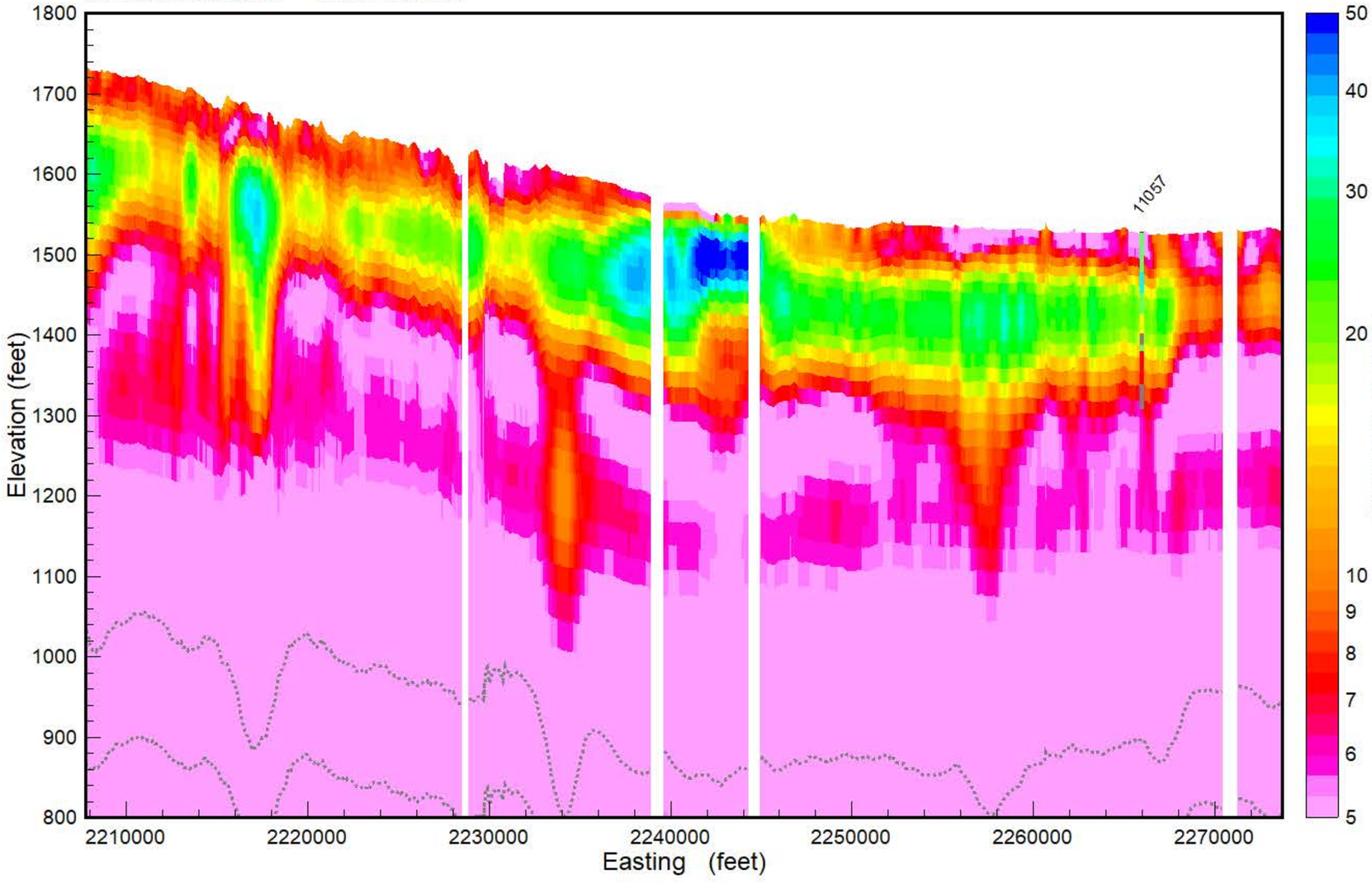
GEOTECH

AGF Aqua Geo Frameworks

Flight Path Line L1025



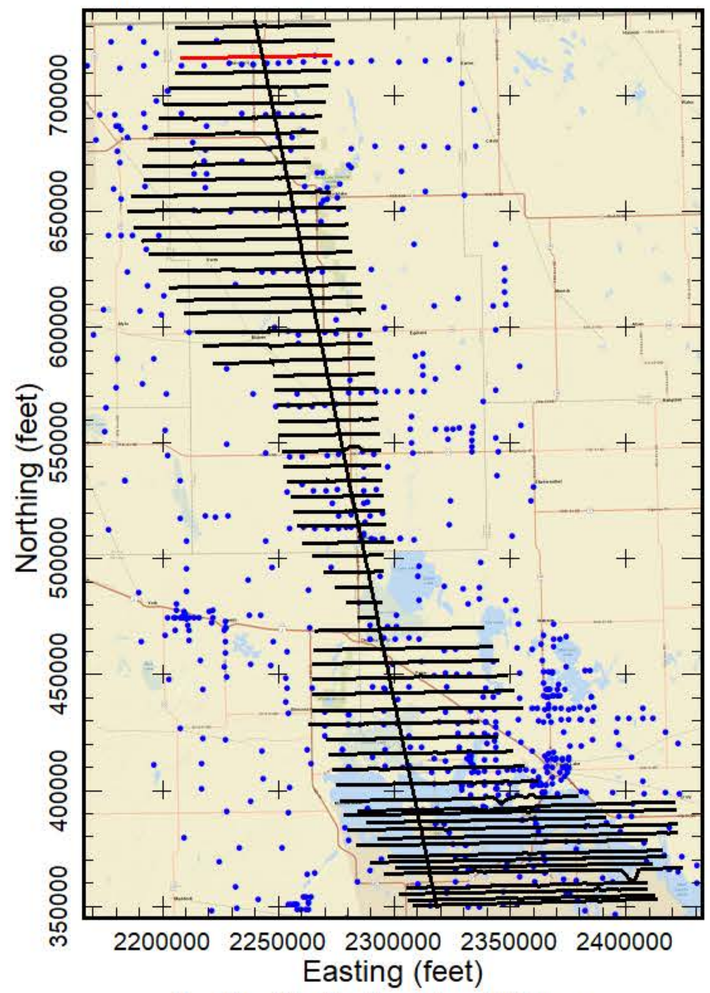
AEM Inversion Line L1025



PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
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TOPSOIL
NOSAMPLE

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Flight Area Towner

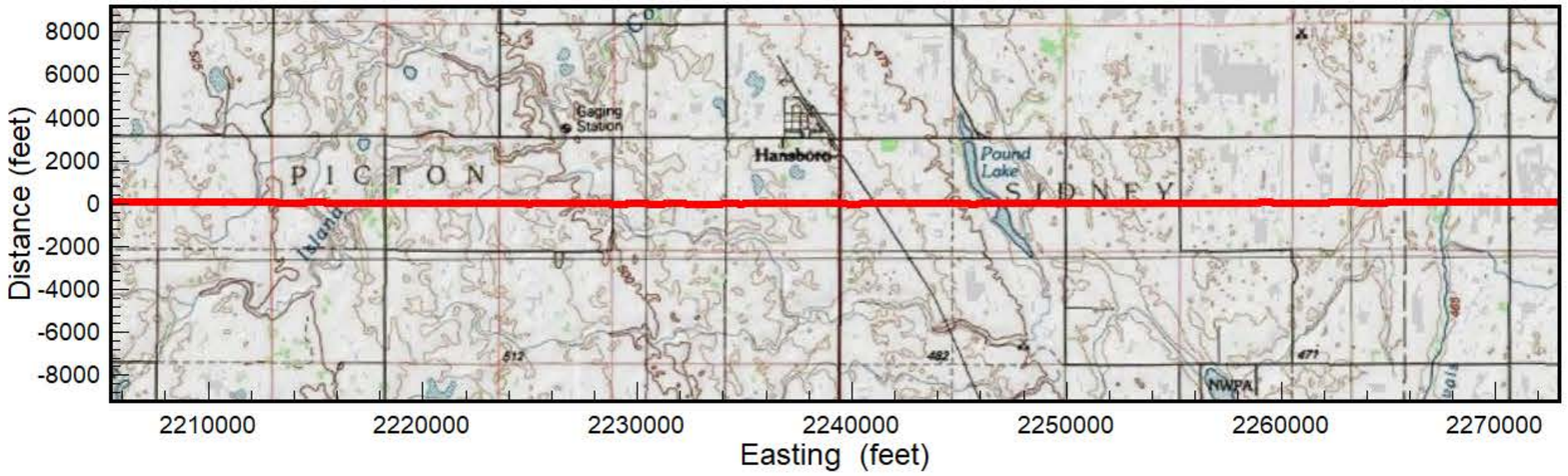


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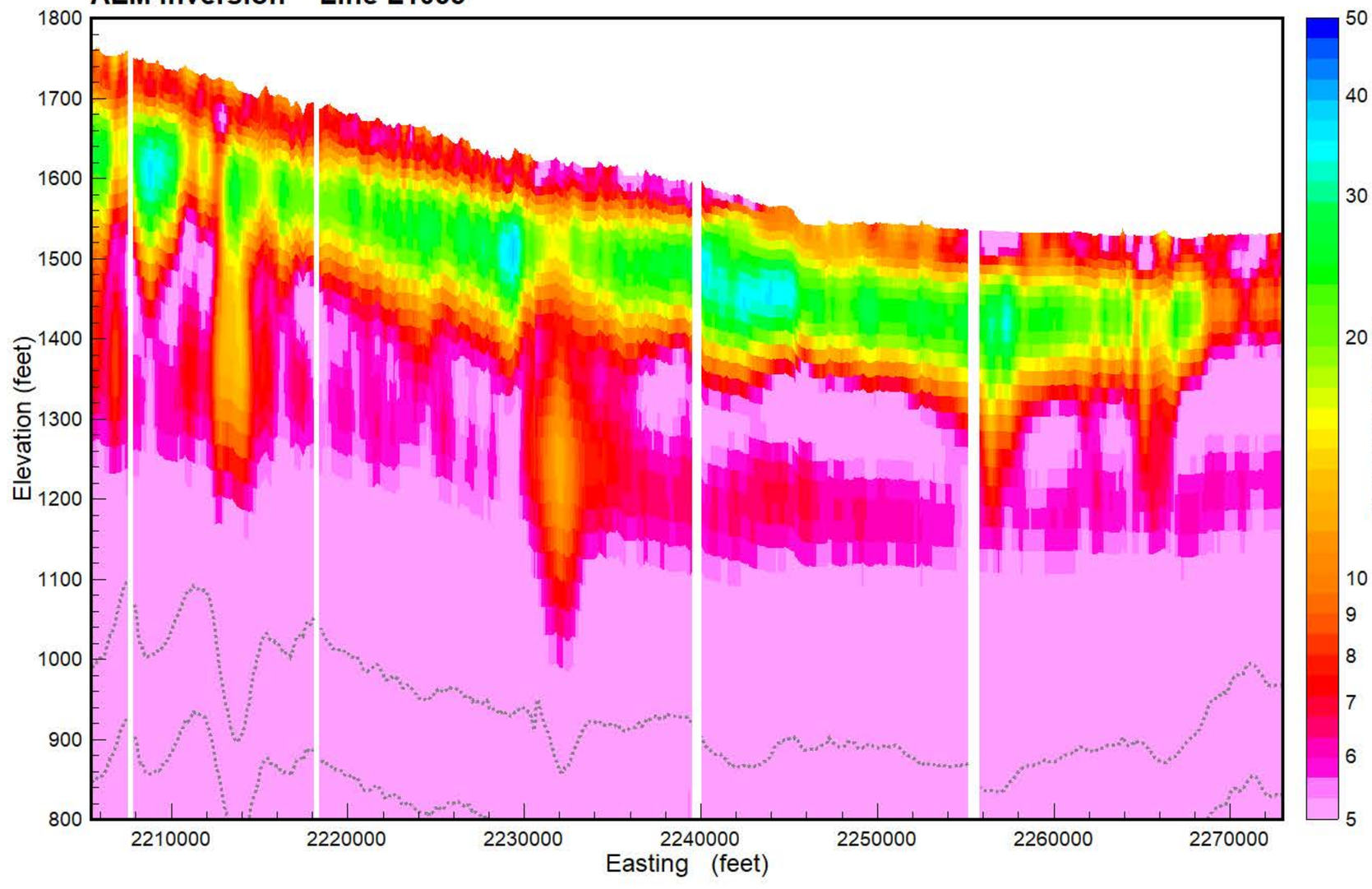
GEOTECH

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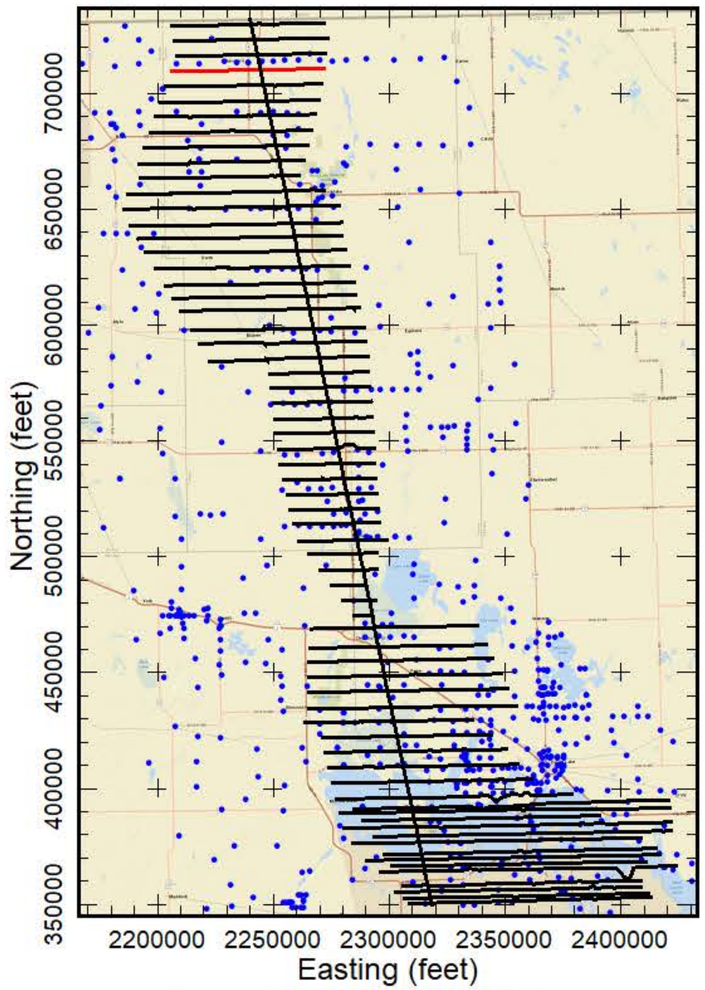
Flight Path Line L1035



AEM Inversion Line L1035



Flight Area Towner



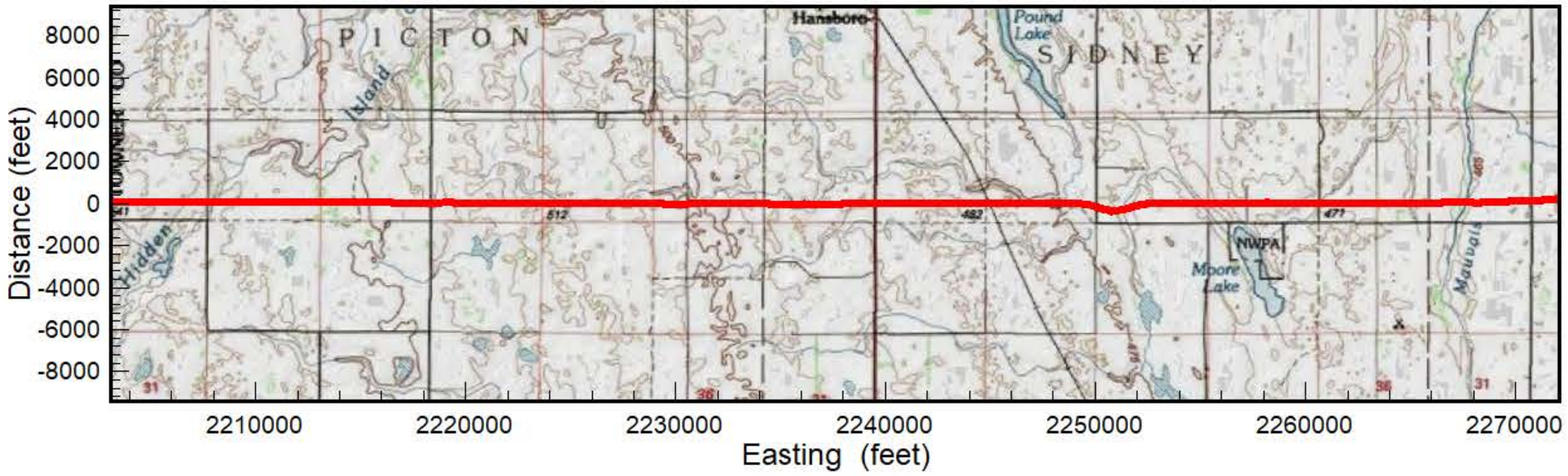
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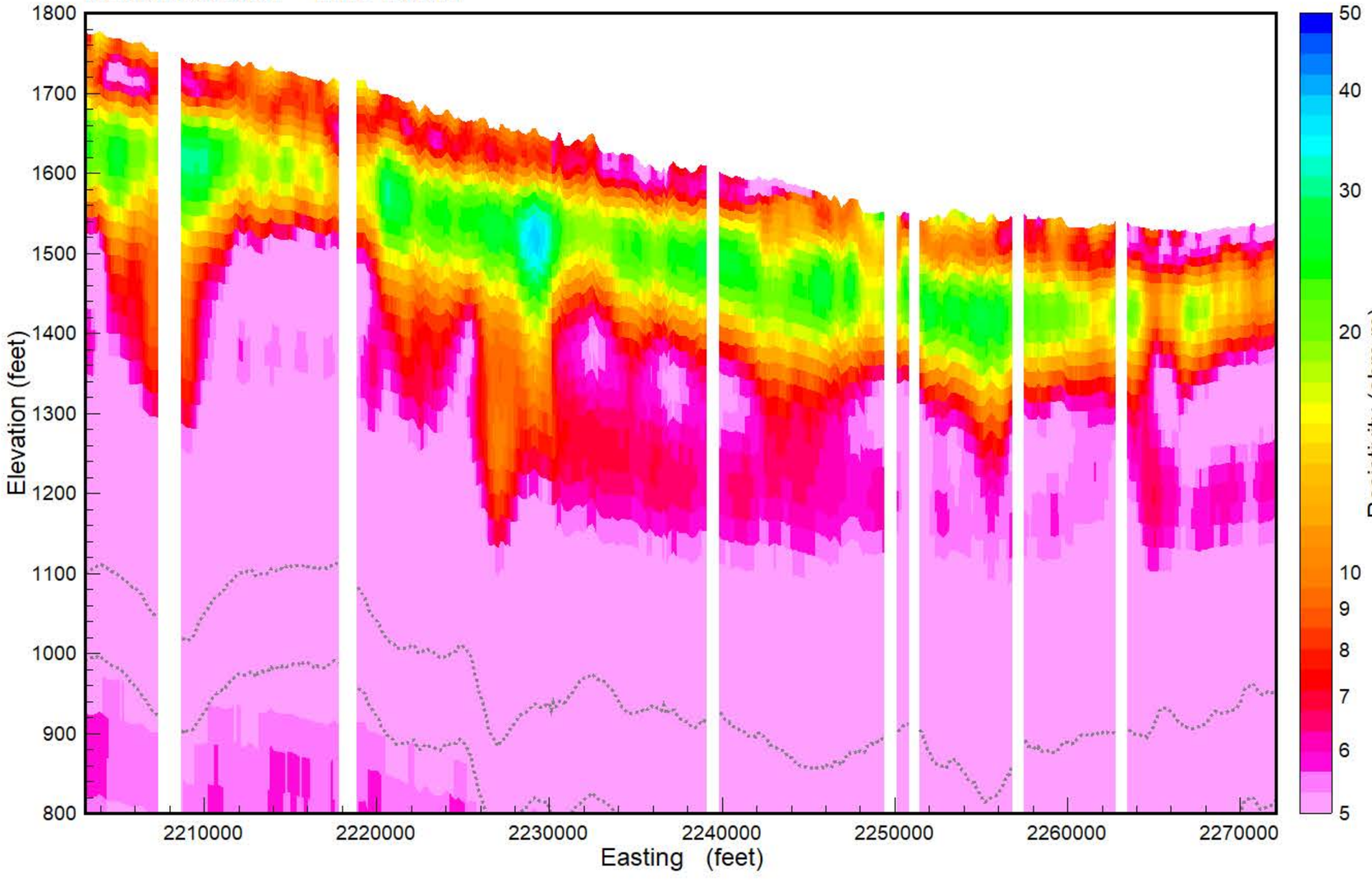
GEOTECH

AGF Aqua Geo Frameworks

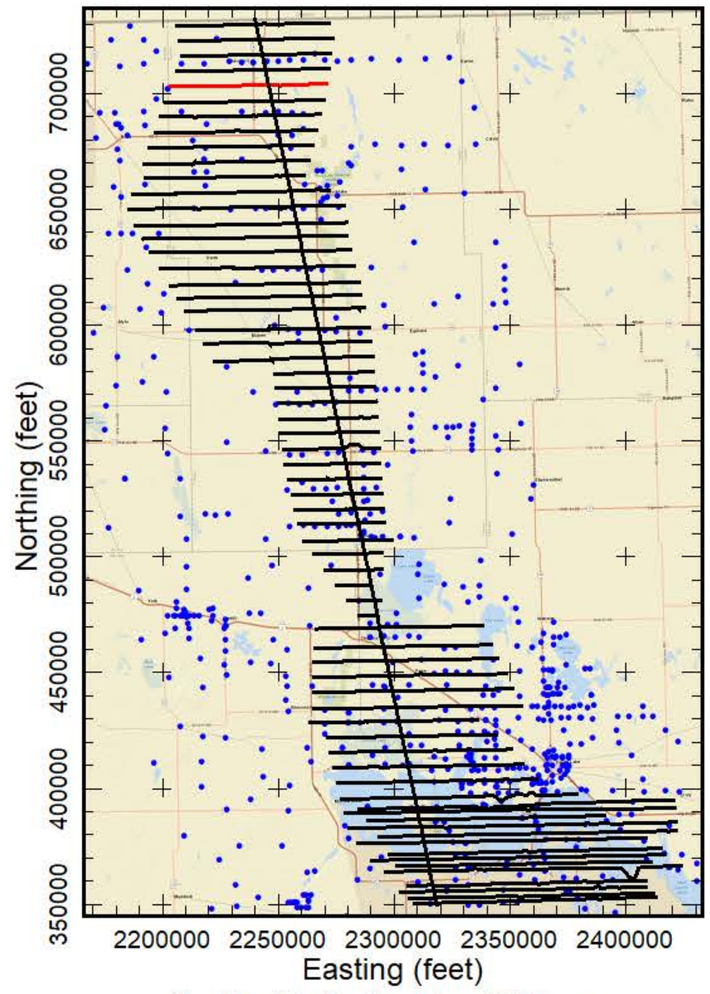
Flight Path Line L1045



AEM Inversion Line L1045



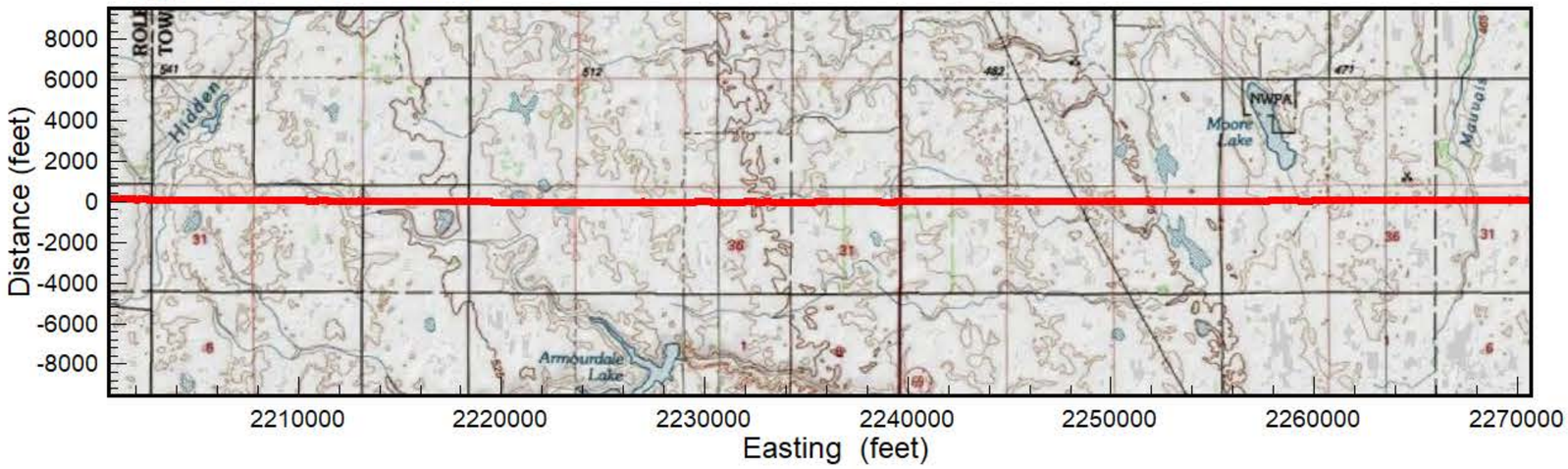
Flight Area Towner



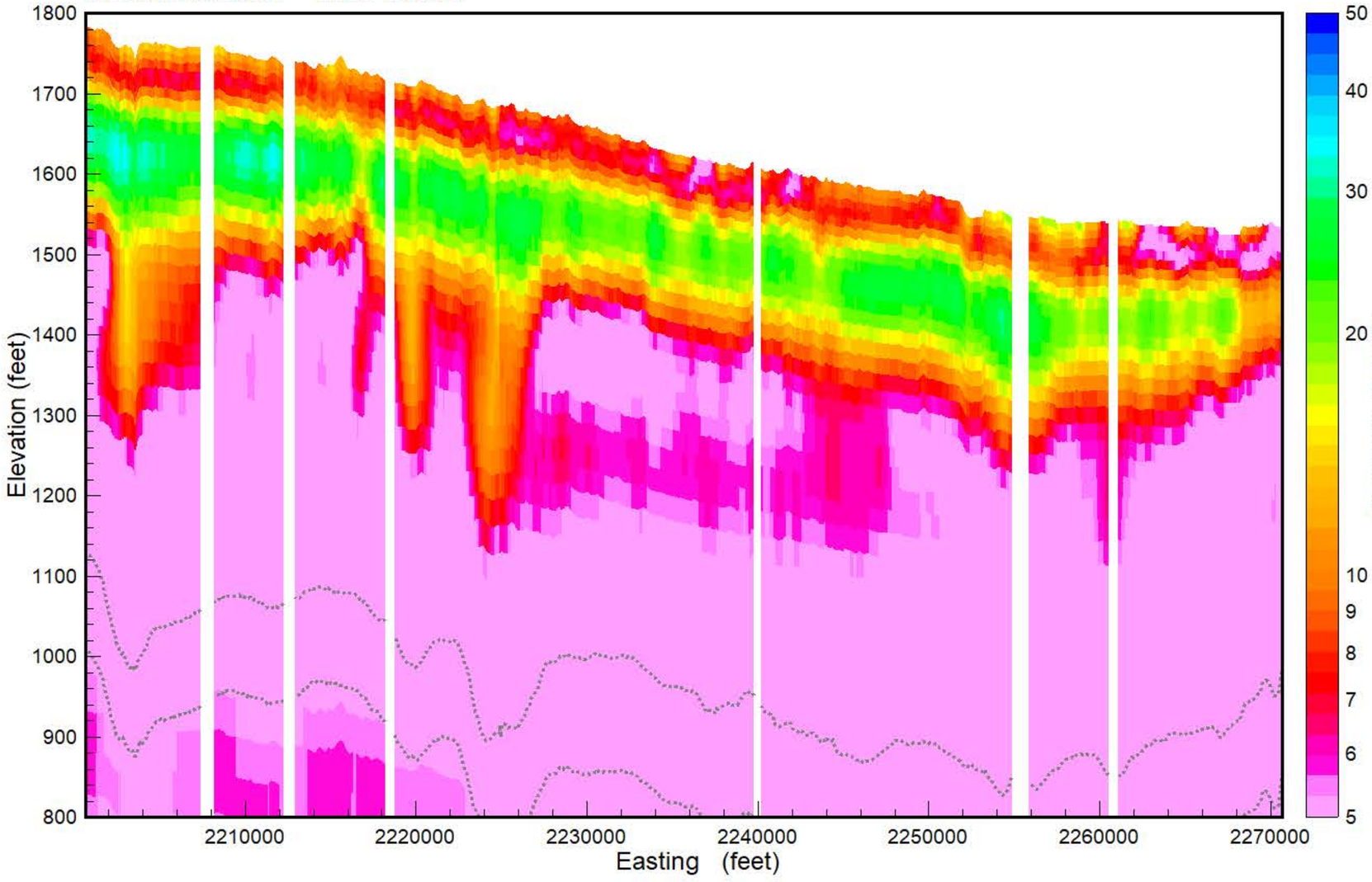
PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

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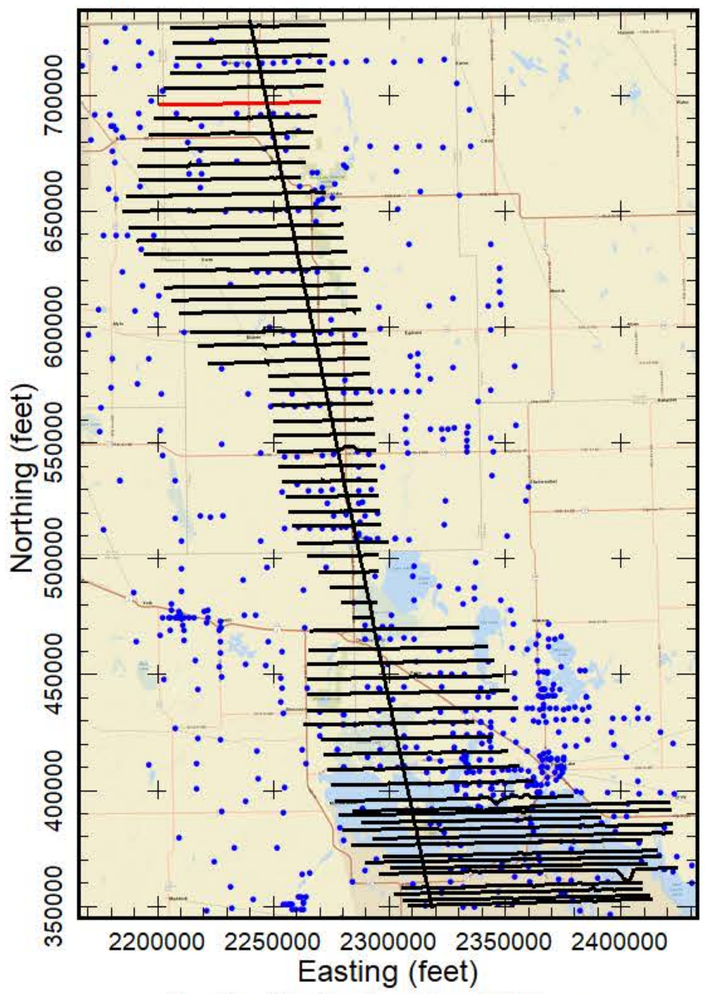
Flight Path Line L1055



AEM Inversion Line L1055



Flight Area Towner



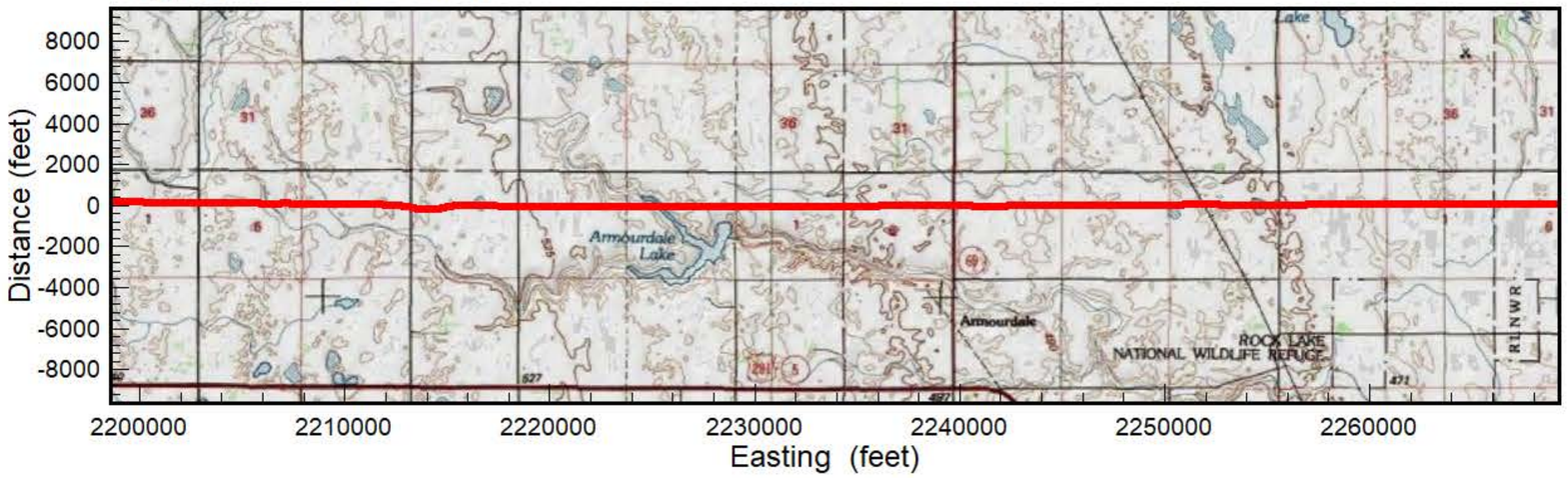
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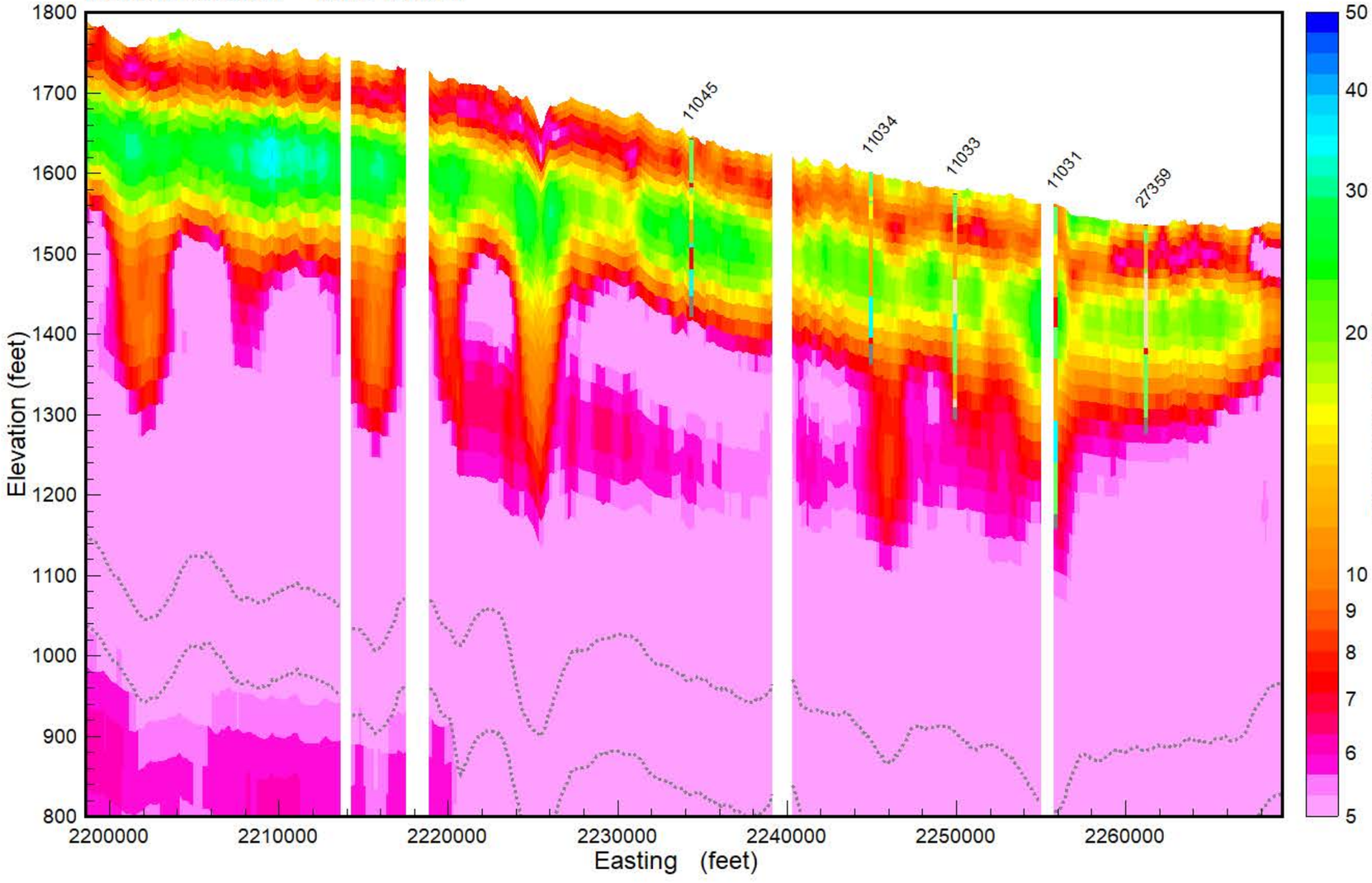
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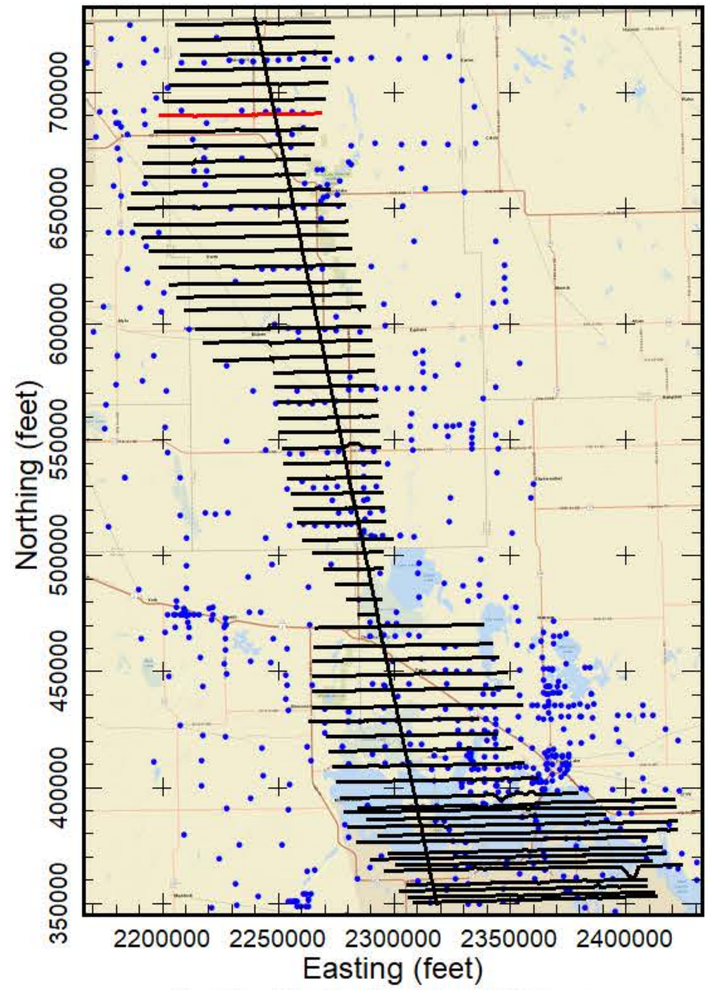
Flight Path Line L1065



AEM Inversion Line L1065



Flight Area Towner



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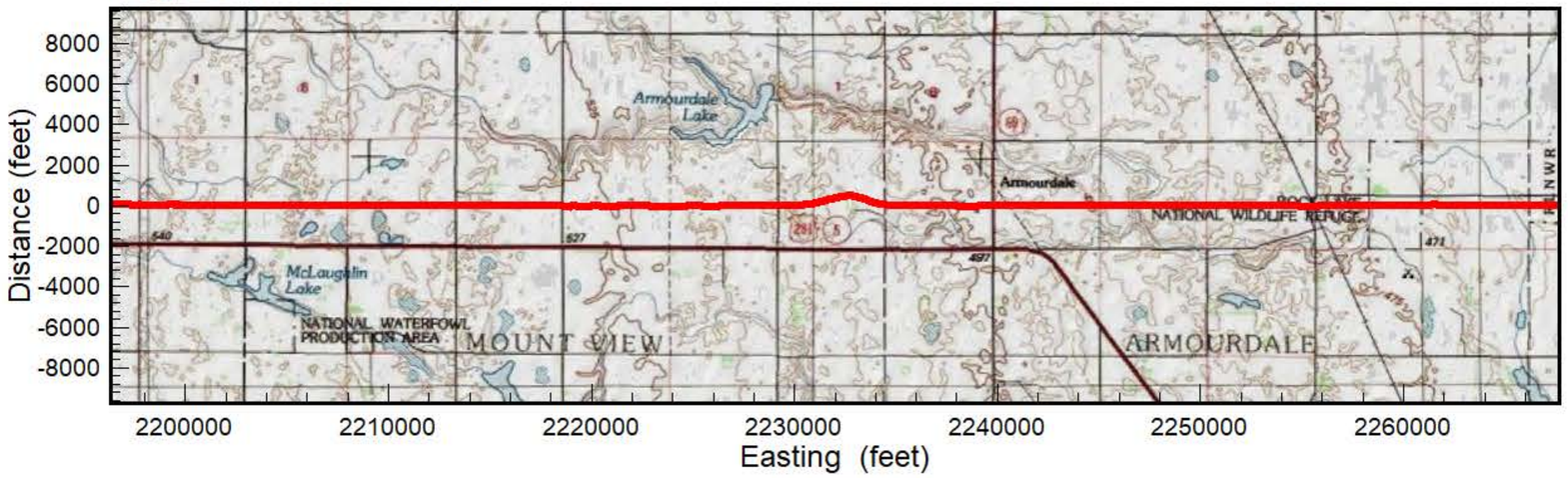
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- PEAT
- LIGNITE
- COBBLES
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- SANDSTONE
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- SILTSTONE
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- GRAVEL
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- FILL
- TOPSOIL
- NOSAMPLE

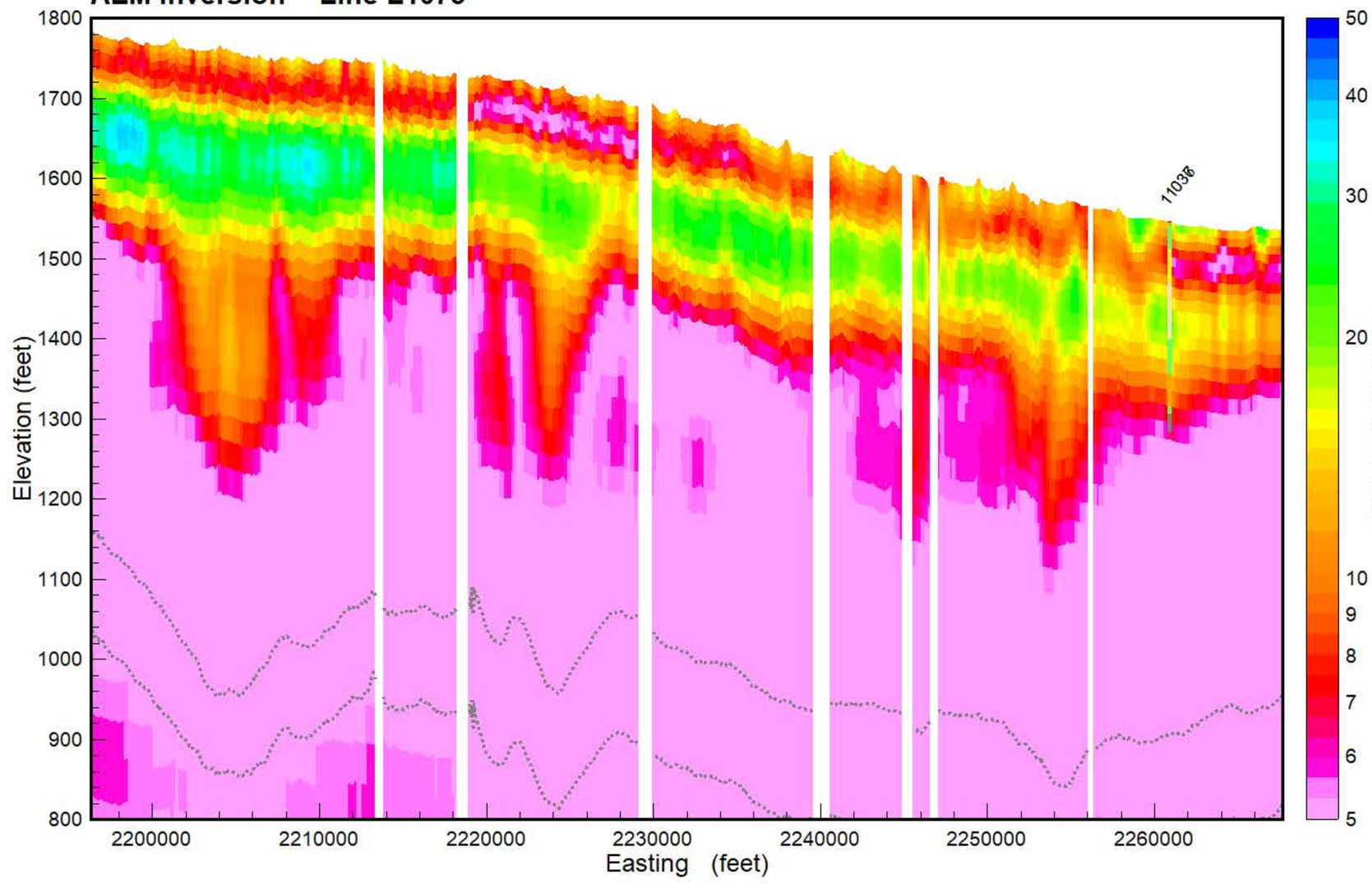
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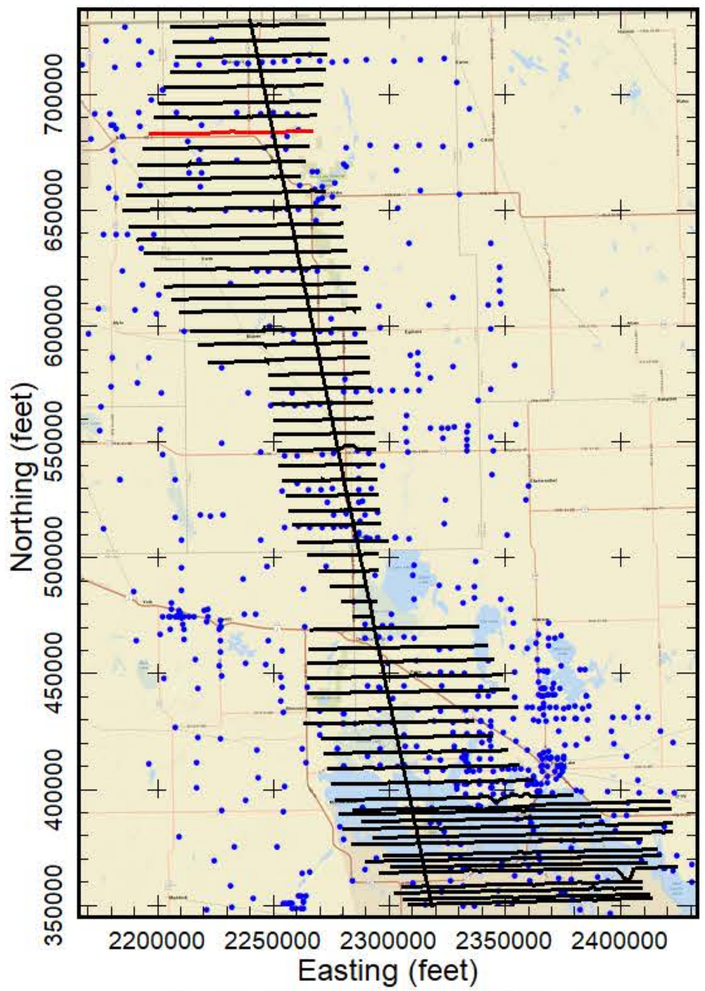
Flight Path Line L1075



AEM Inversion Line L1075



Flight Area Towner



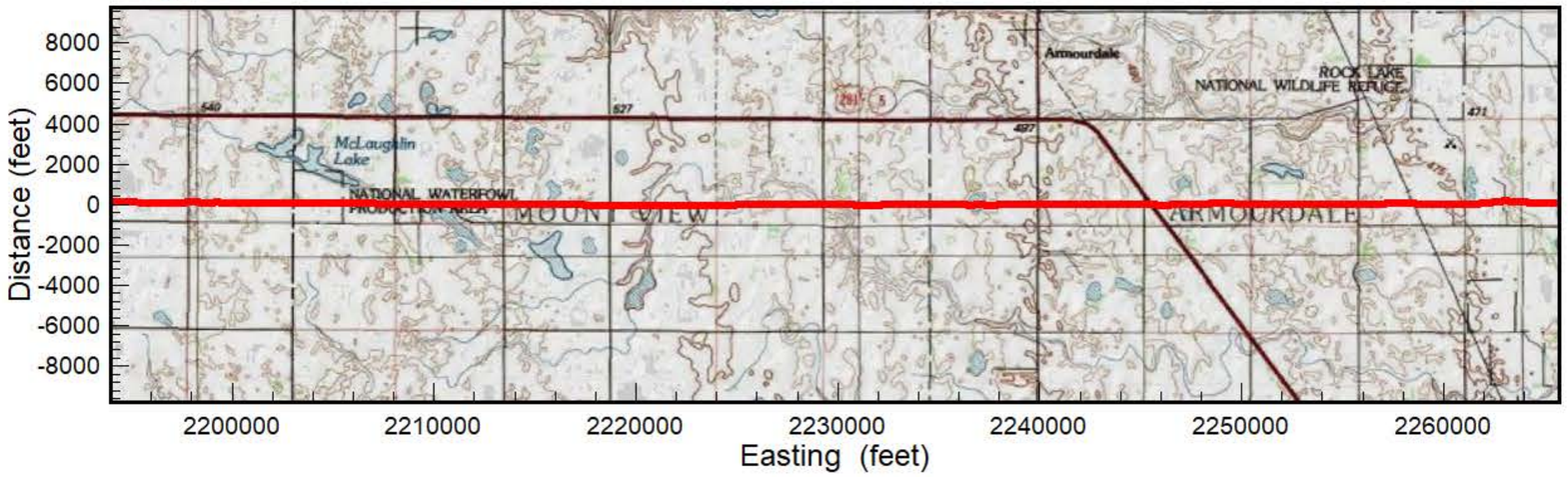
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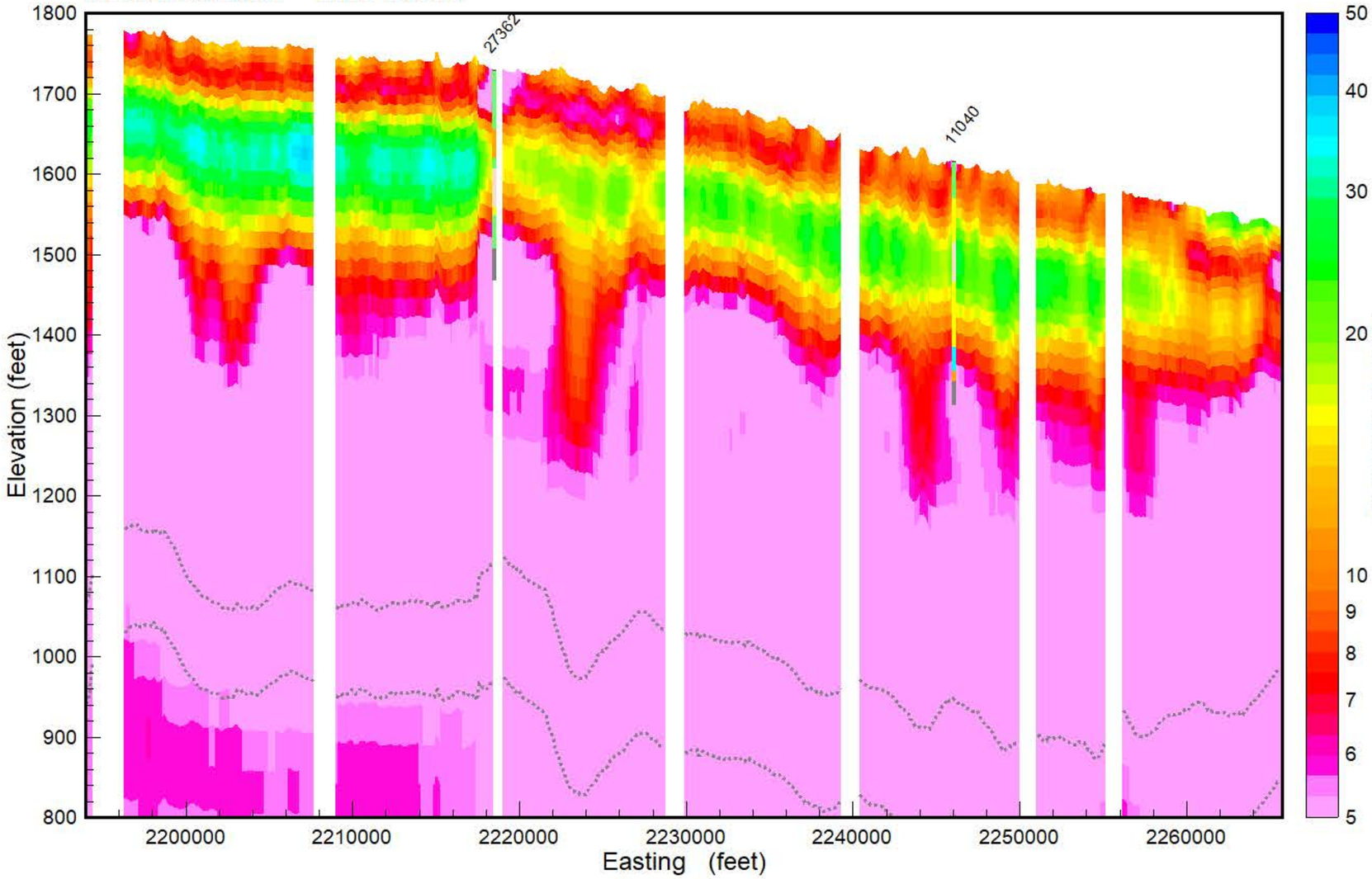
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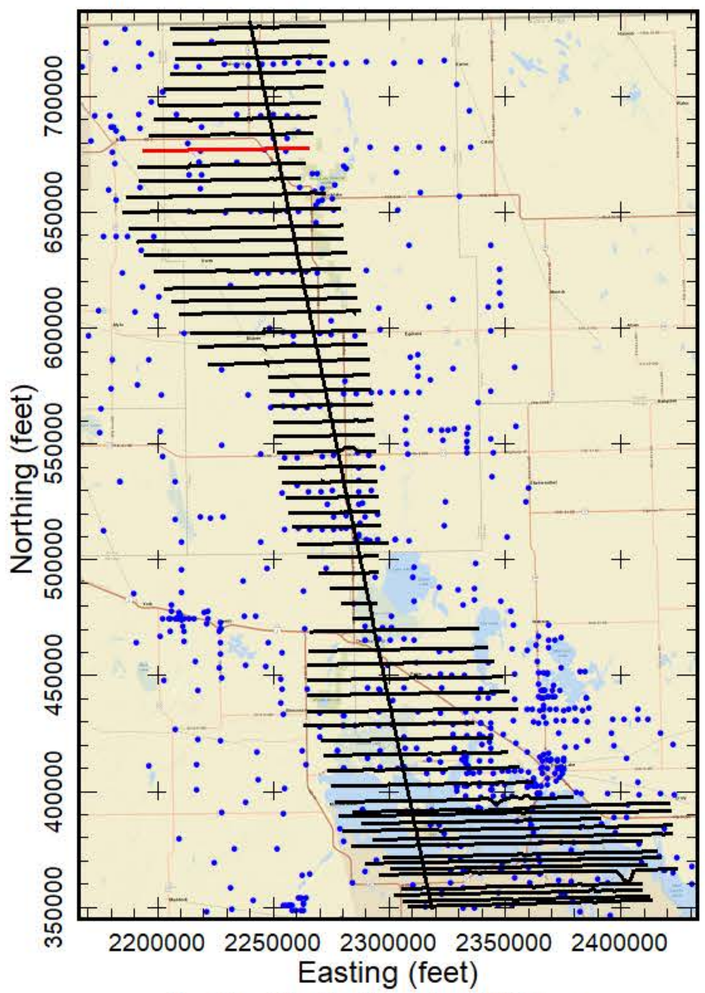
Flight Path Line L1085



AEM Inversion Line L1085



Flight Area Towner



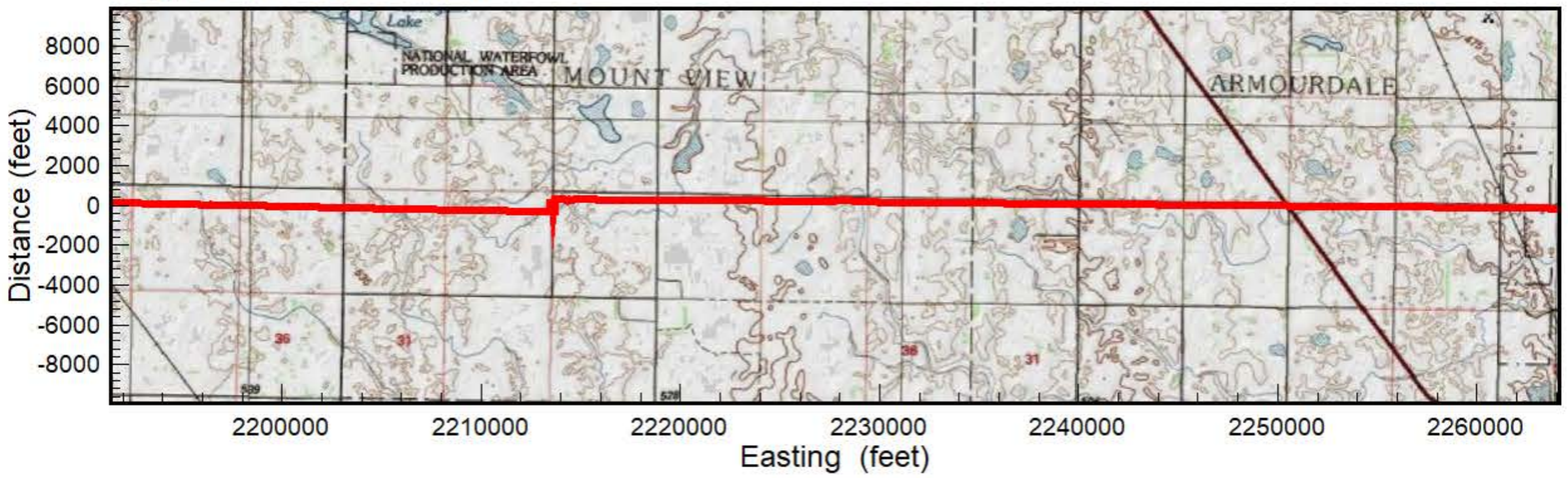
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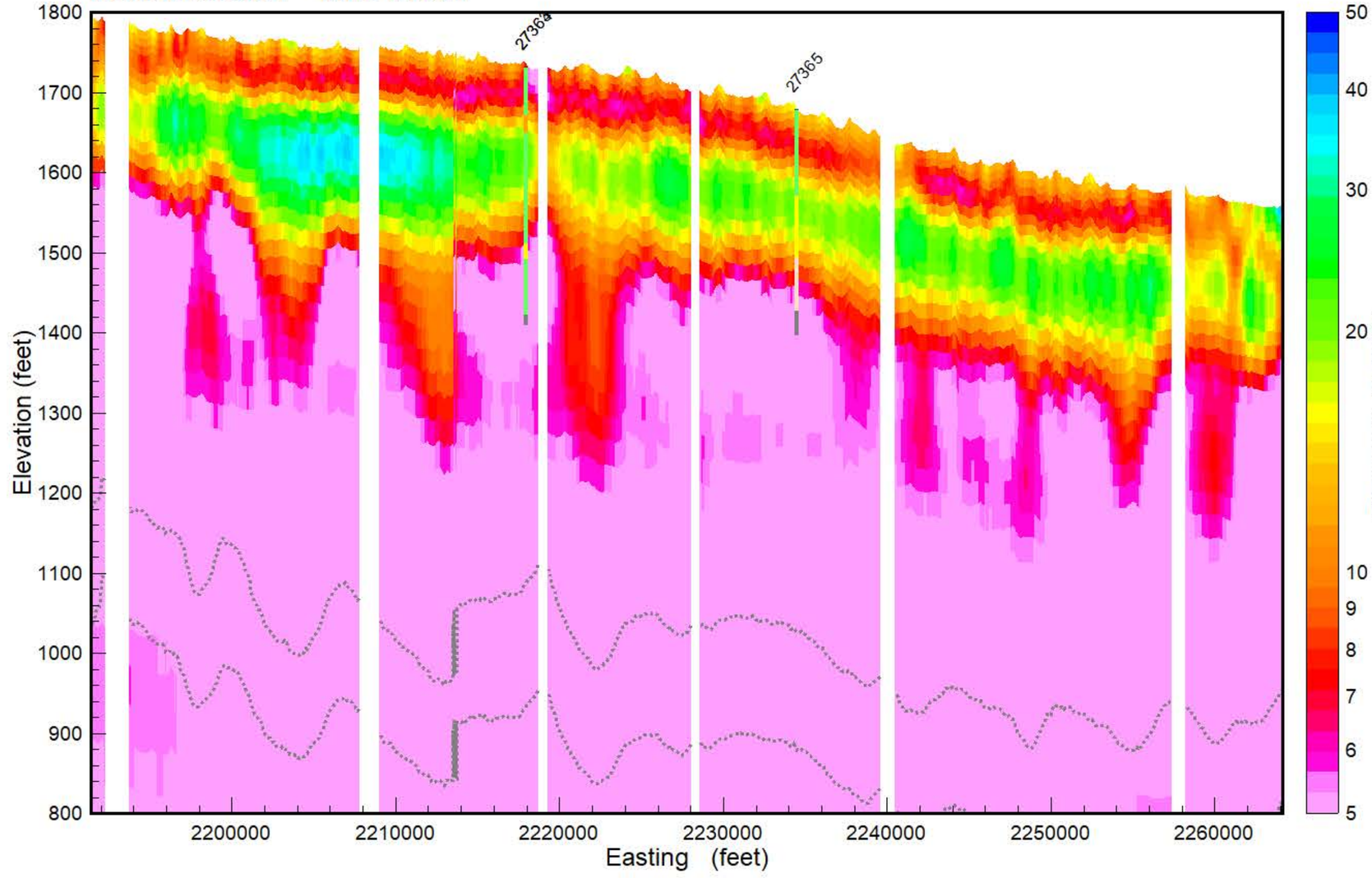
GEOTECH

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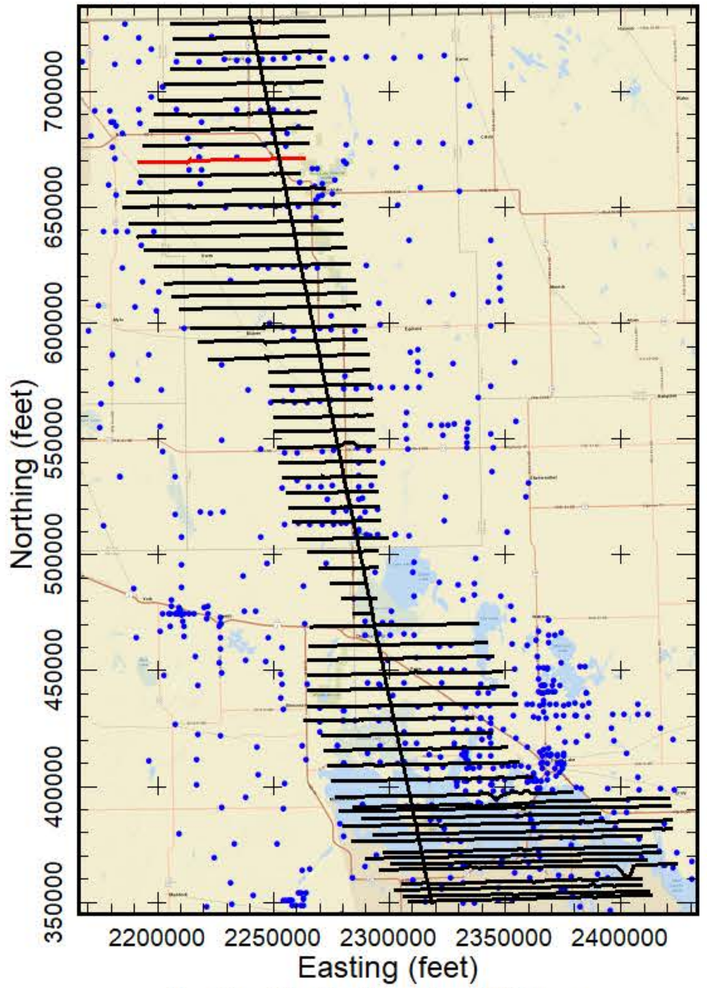
Flight Path Line L1095



AEM Inversion Line L1095



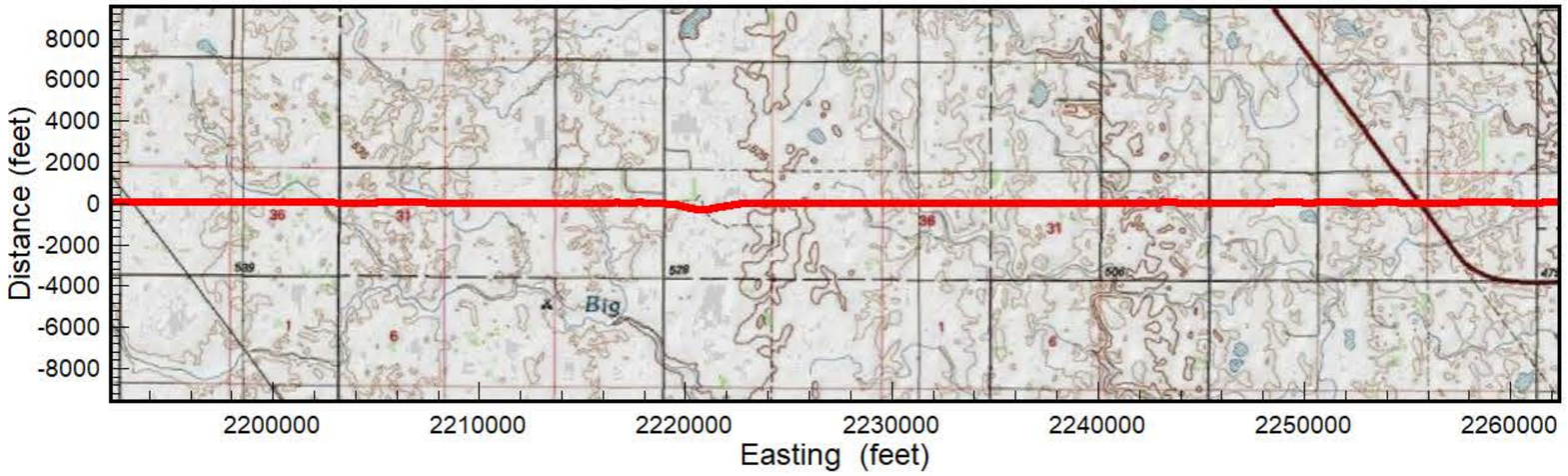
Flight Area Towner



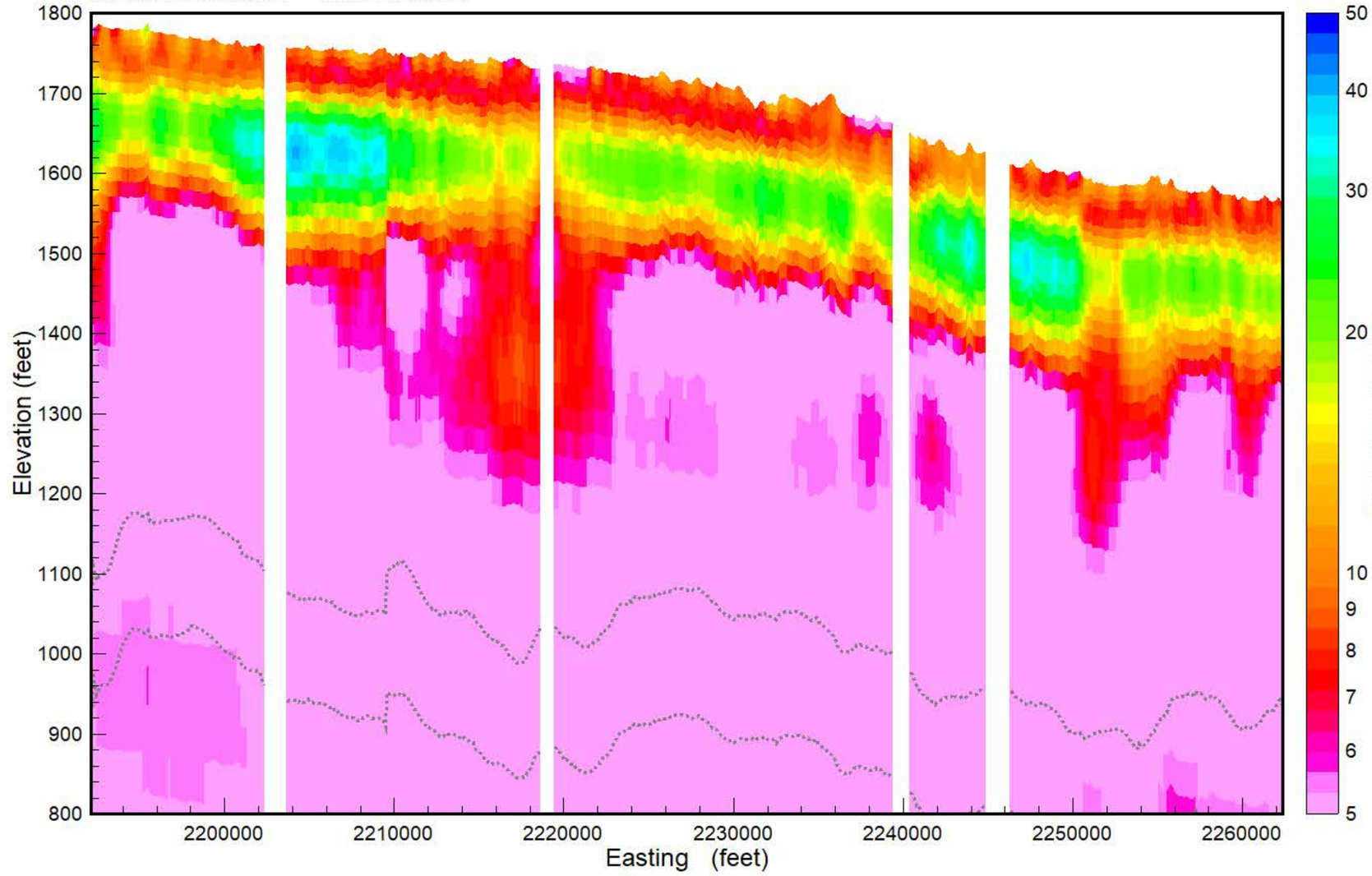
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WEATHERED GRANI
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CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
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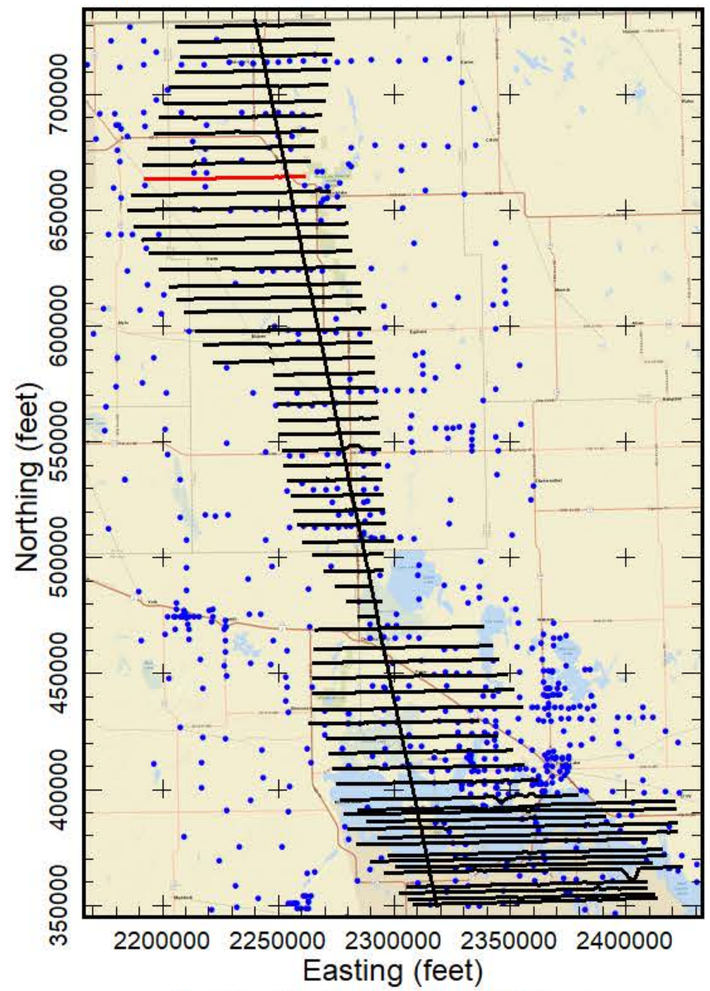
Flight Path Line L1105



AEM Inversion Line L1105



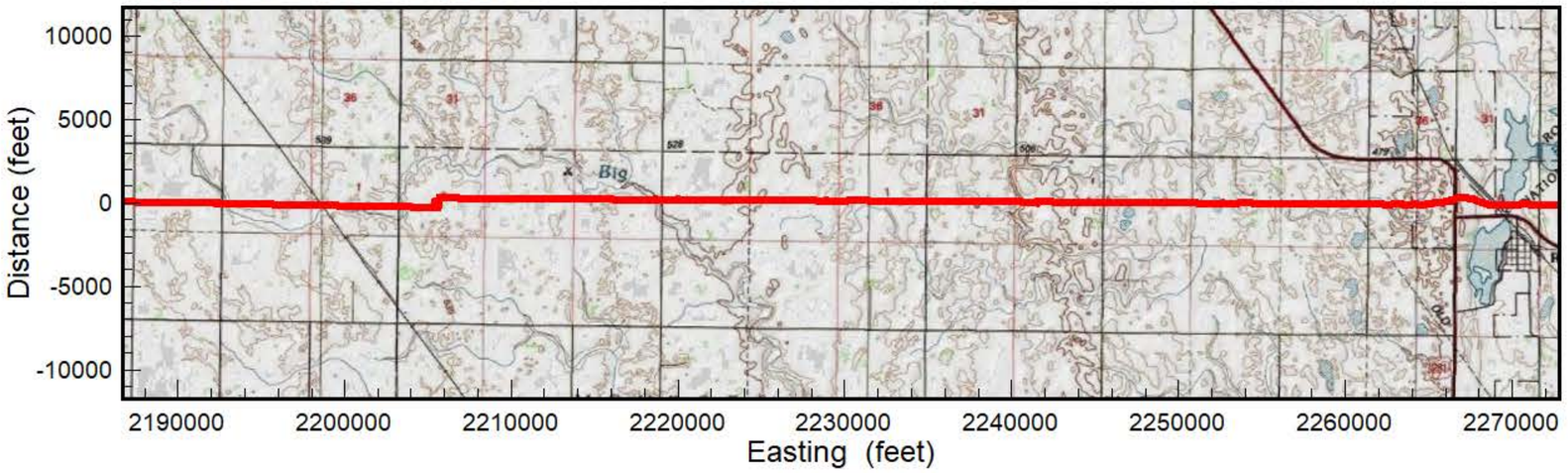
Flight Area Towner



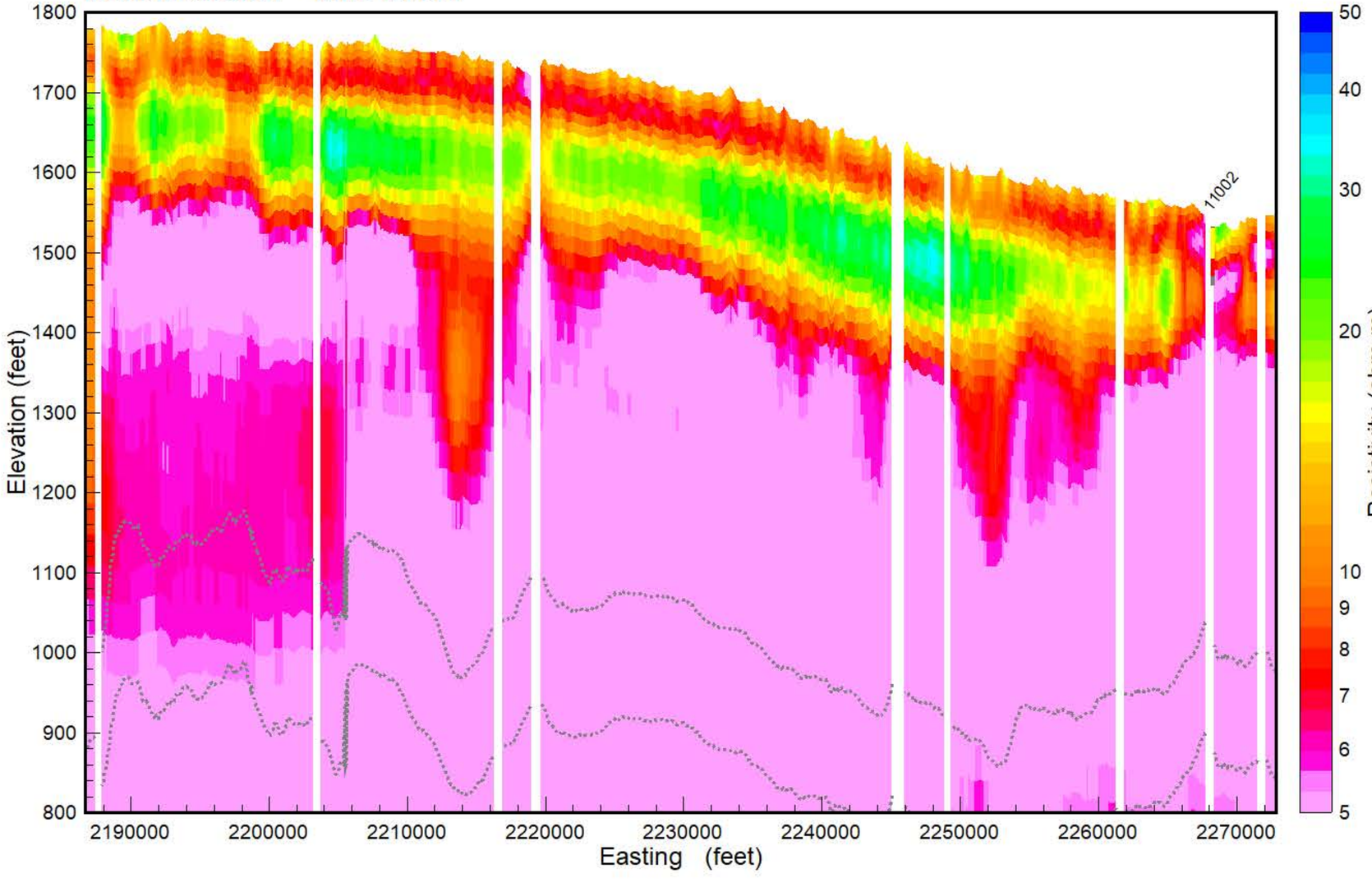


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Flight Path Line L1115



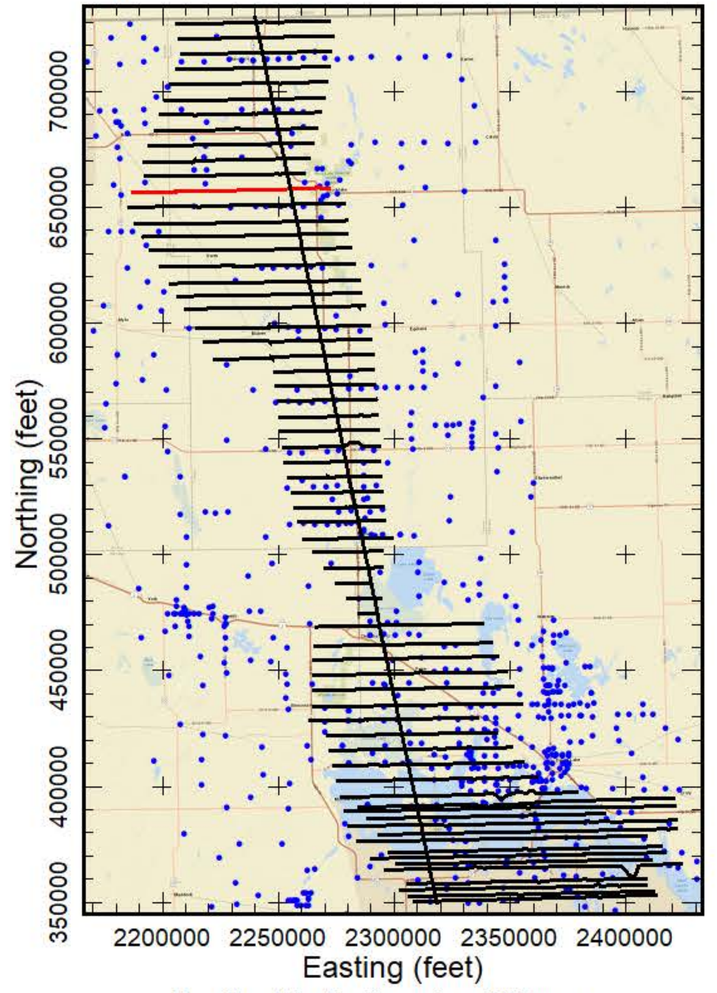
AEM Inversion Line L1115





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Flight Area Towner

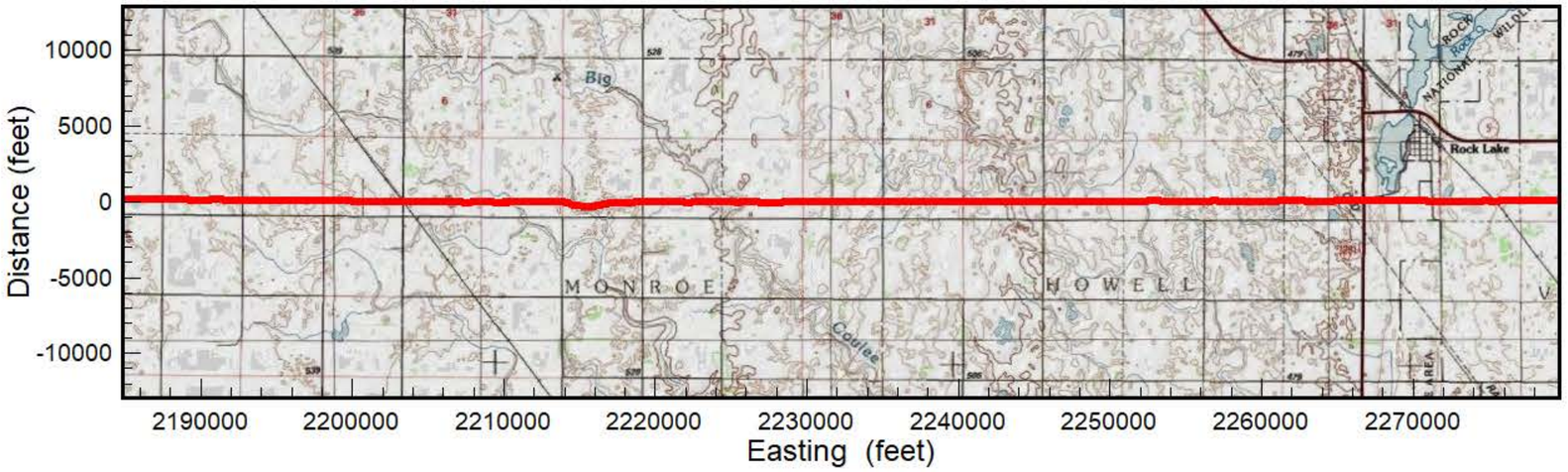


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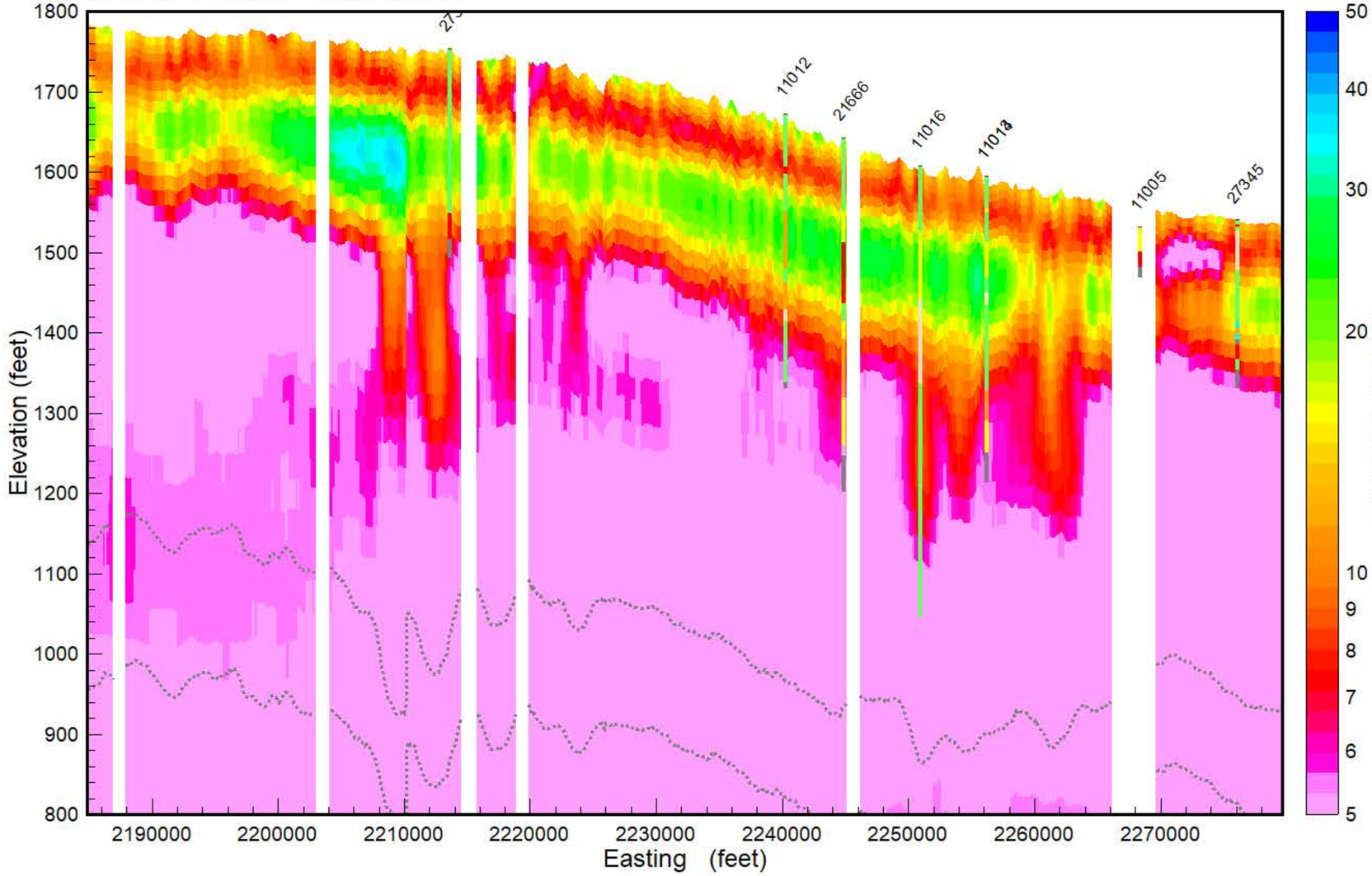
GEOTECH

AGF Aqua Geo Frameworks

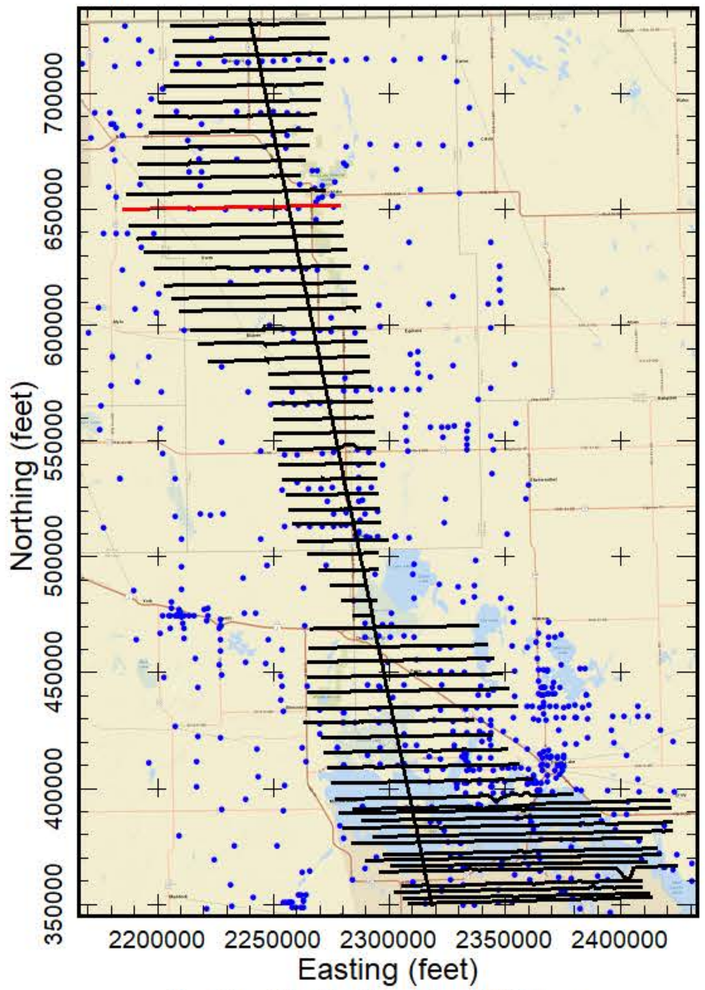
Flight Path Line L1125



AEM Inversion Line L1125



Flight Area Towner



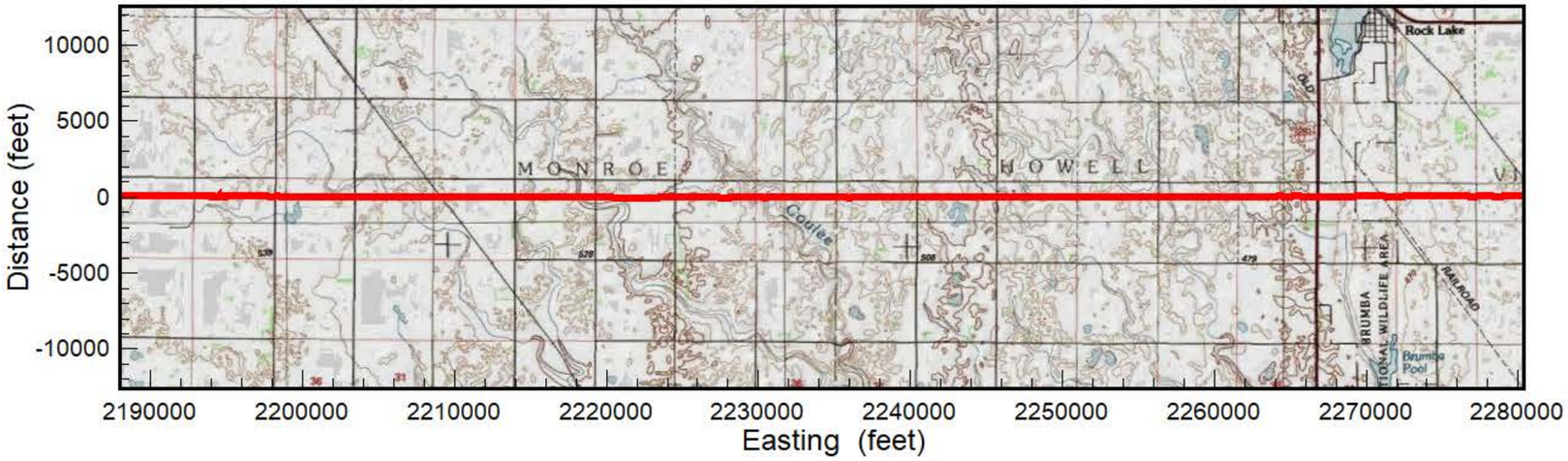
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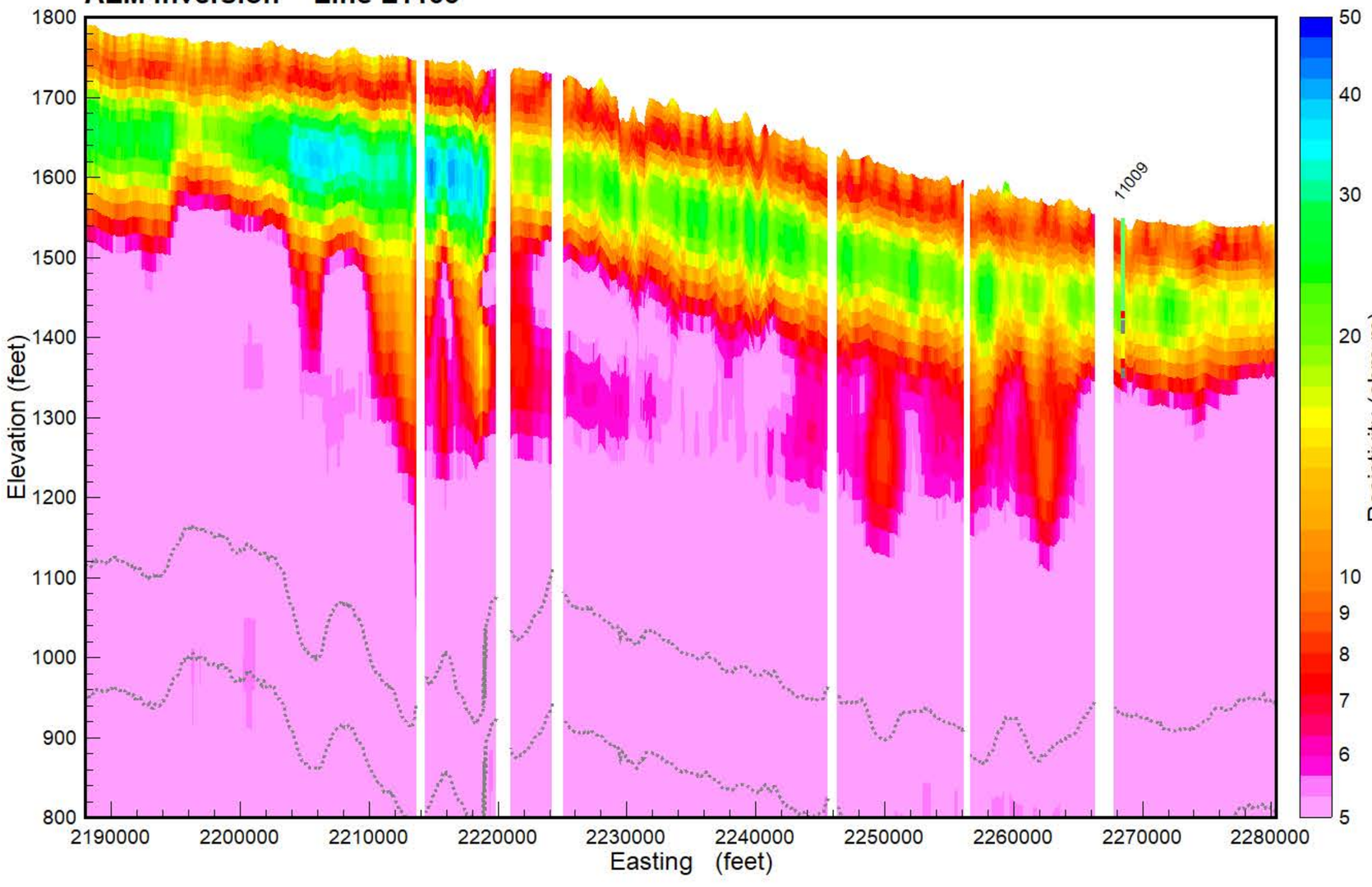
GEOTECH

AGF Aqua Geo Frameworks

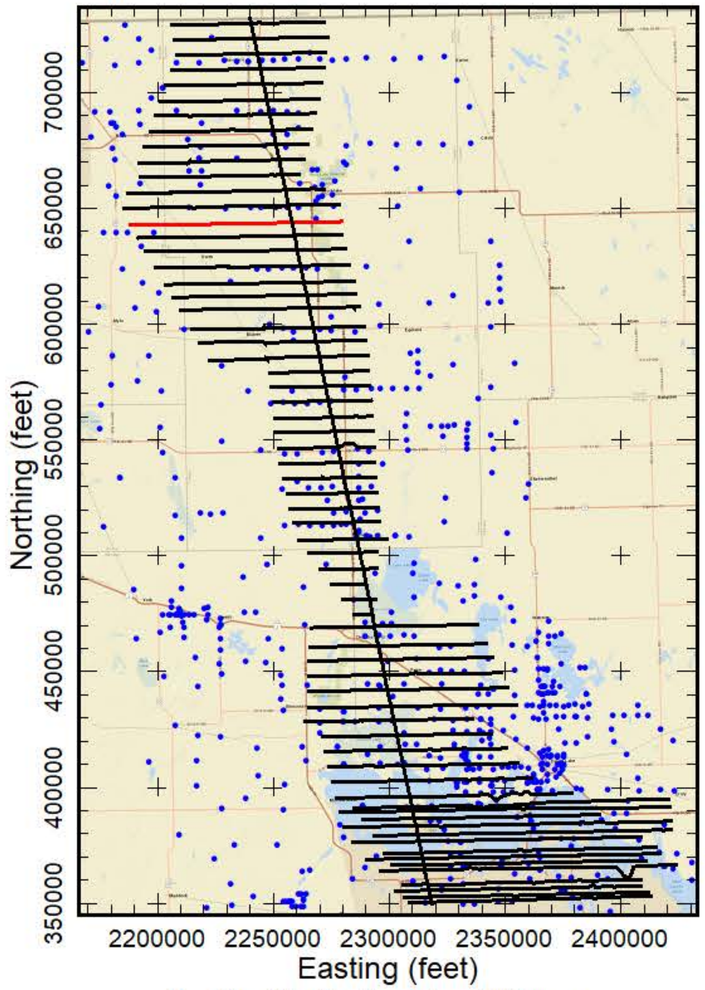
Flight Path Line L1135



AEM Inversion Line L1135



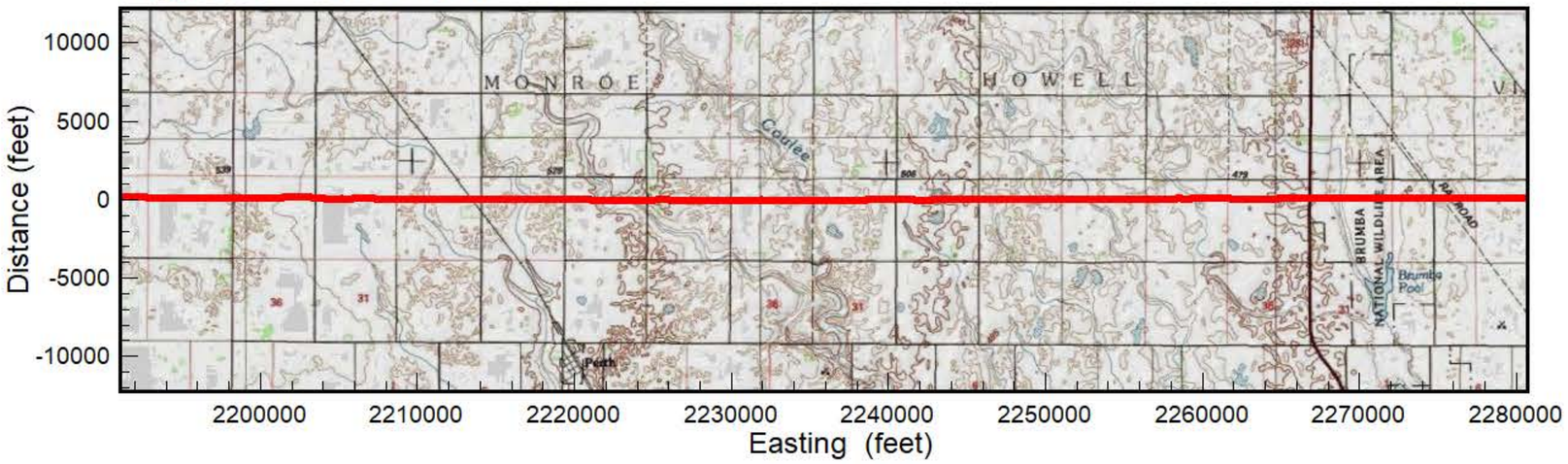
Flight Area Towner



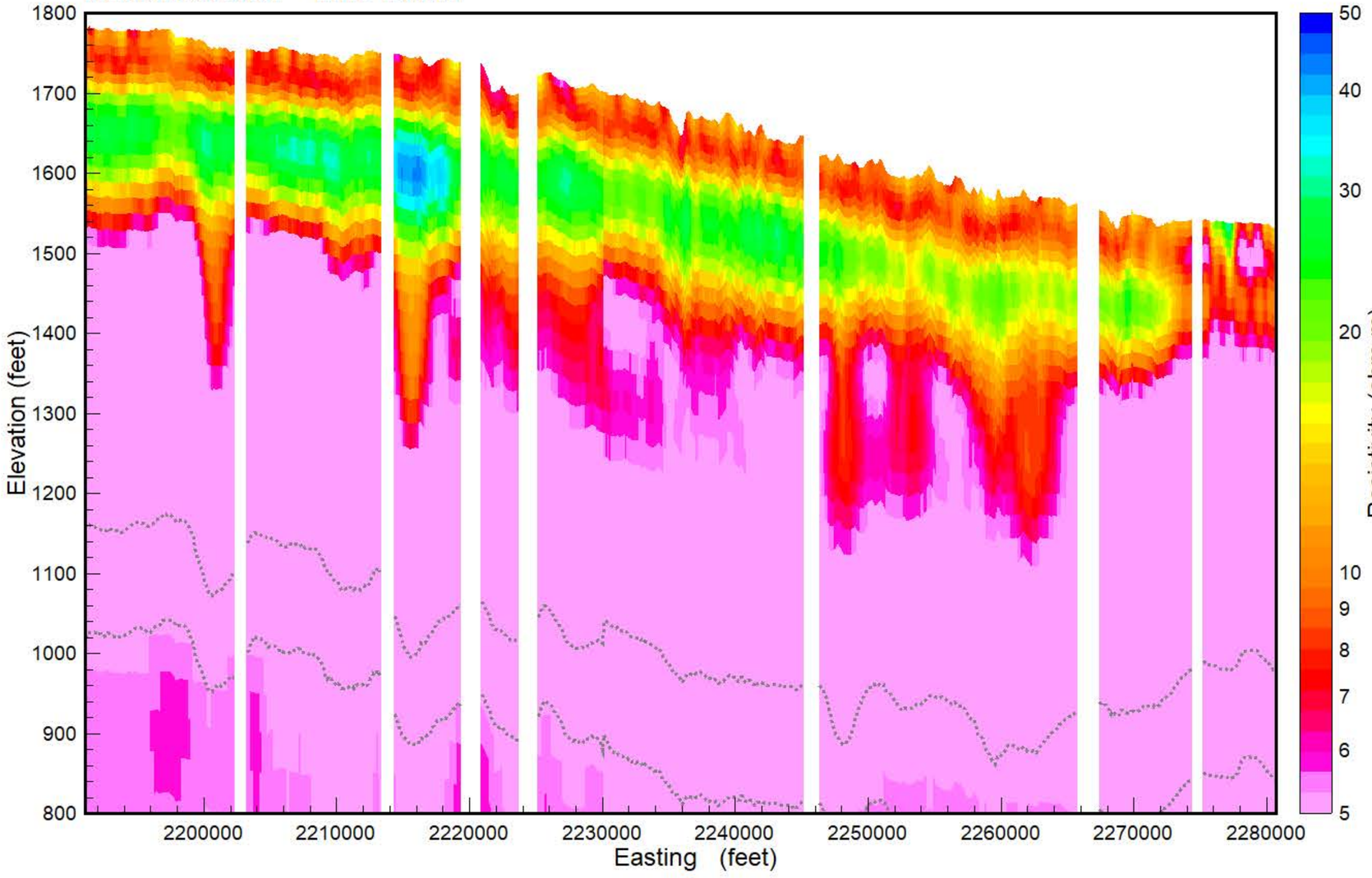
PEAT
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COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

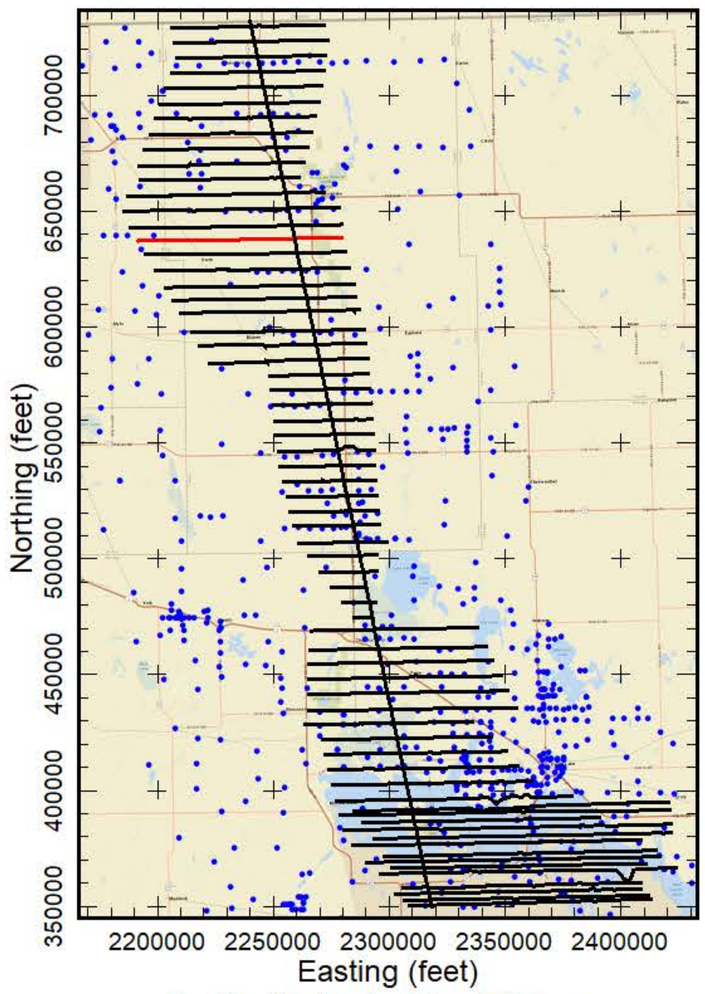
Flight Path Line L1145



AEM Inversion Line L1145



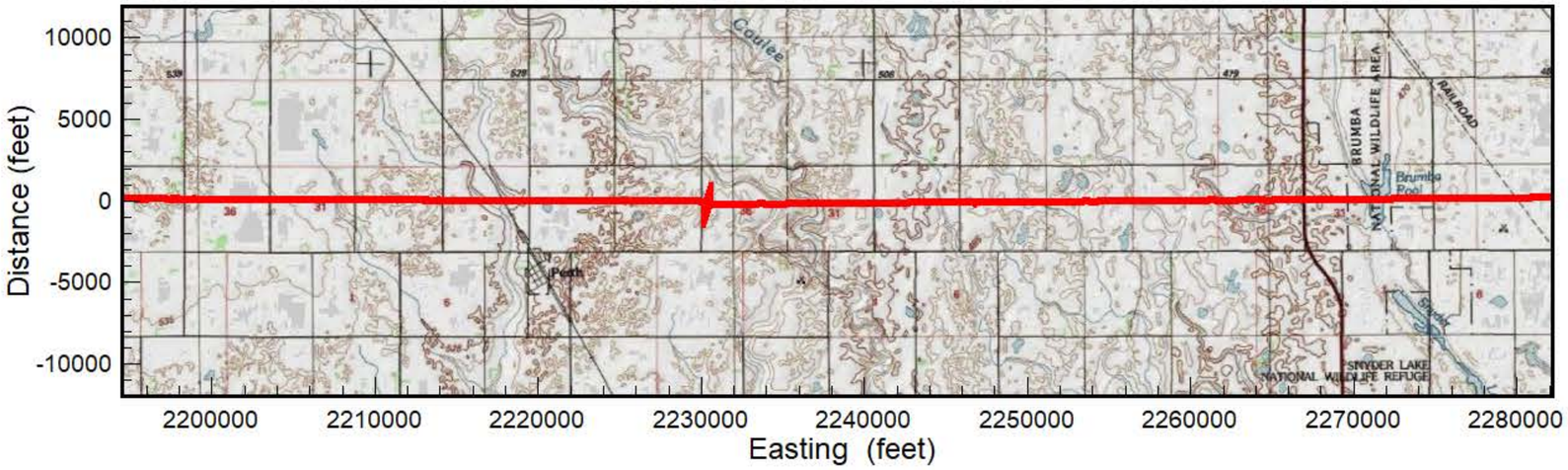
Flight Area Towner



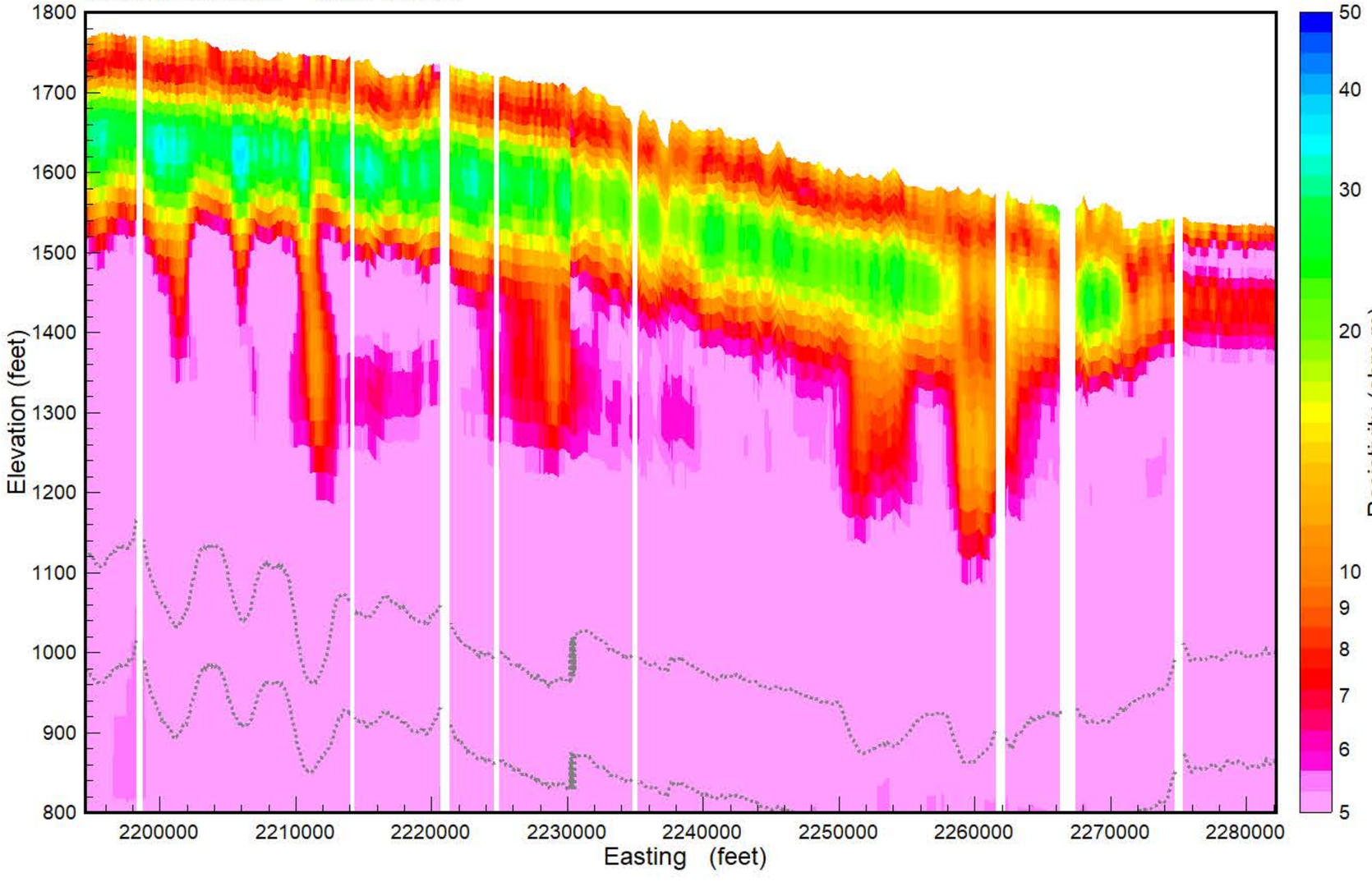
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BOULDER
ROCK
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WEATHERED GRANI
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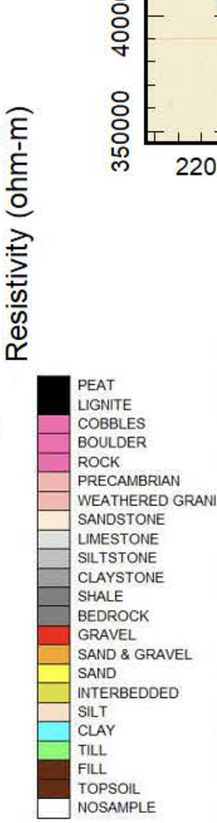
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Flight Path Line L1155



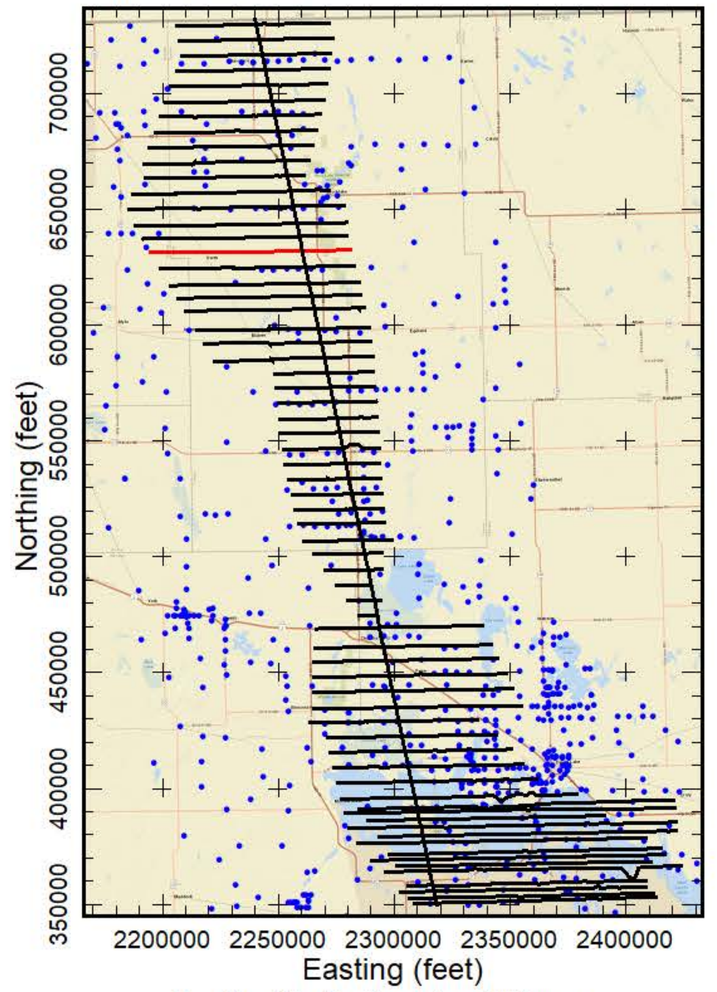
AEM Inversion Line L1155





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Flight Area Towner

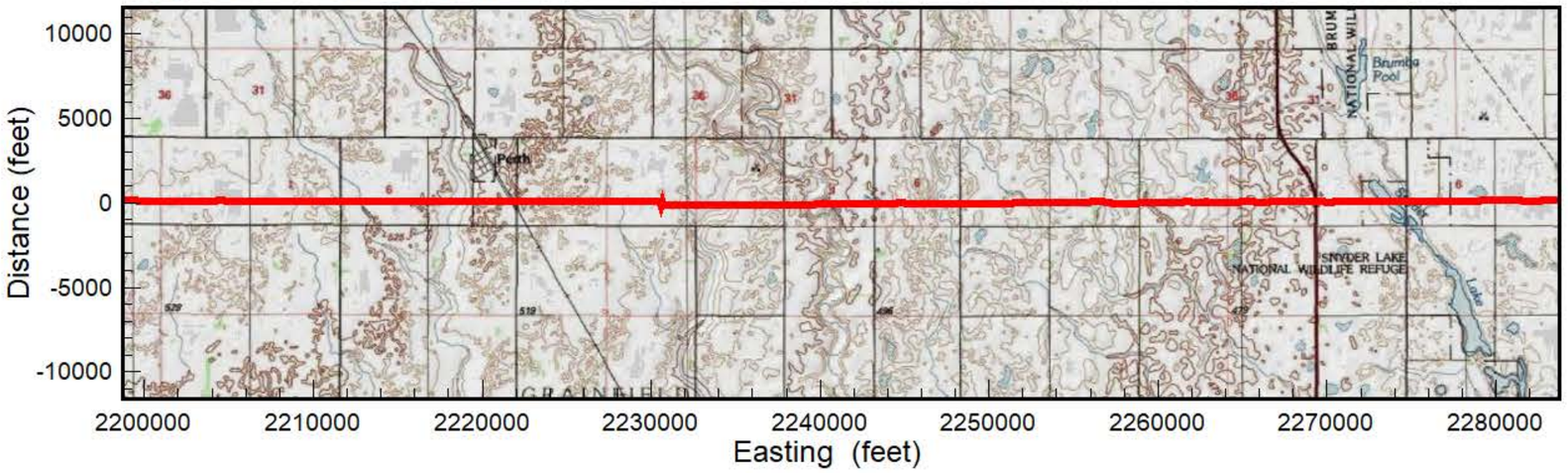


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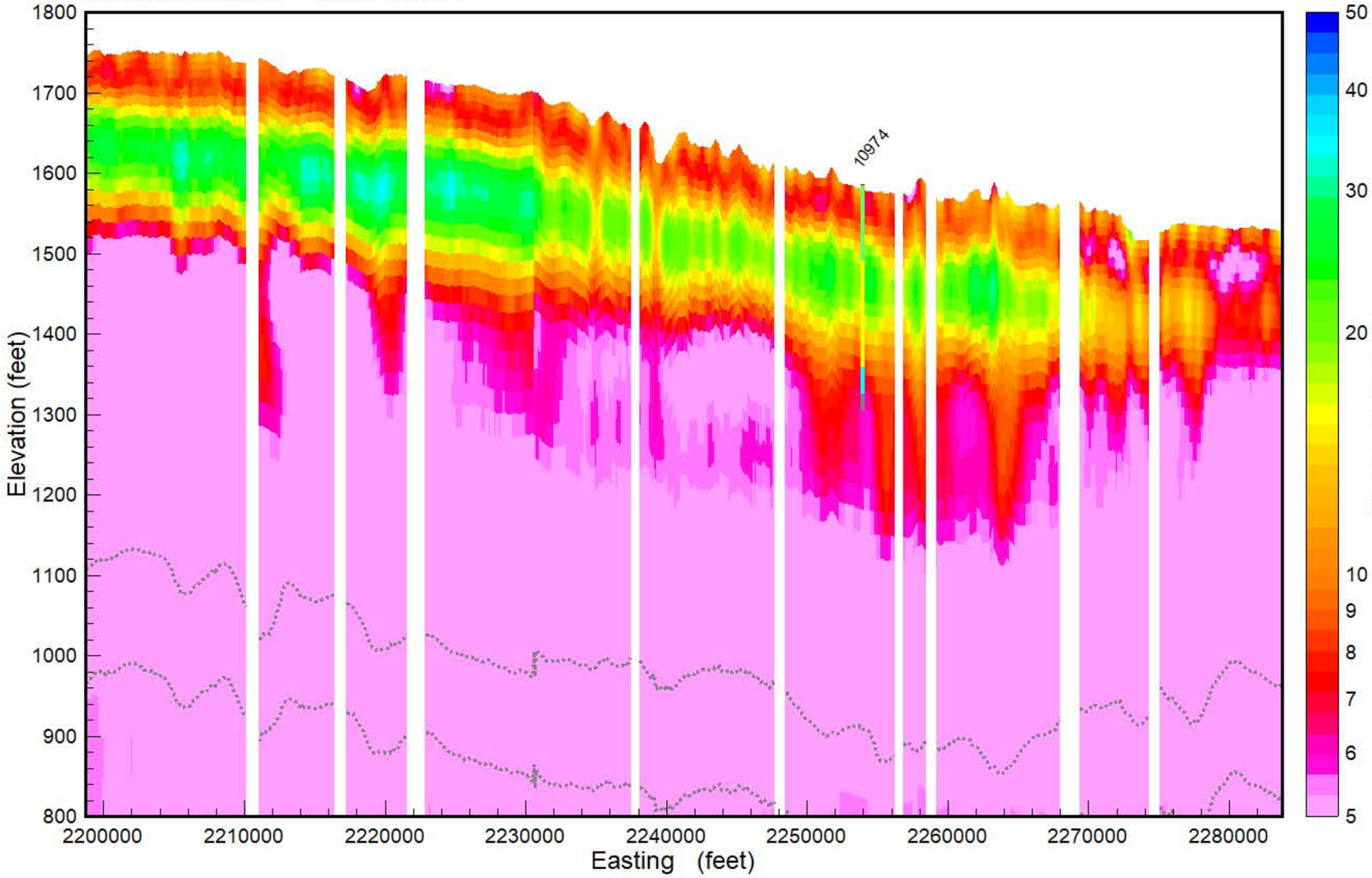
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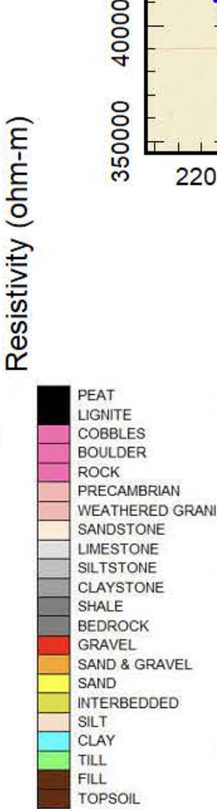
AGF Aqua Geo Frameworks

Flight Path Line L1165



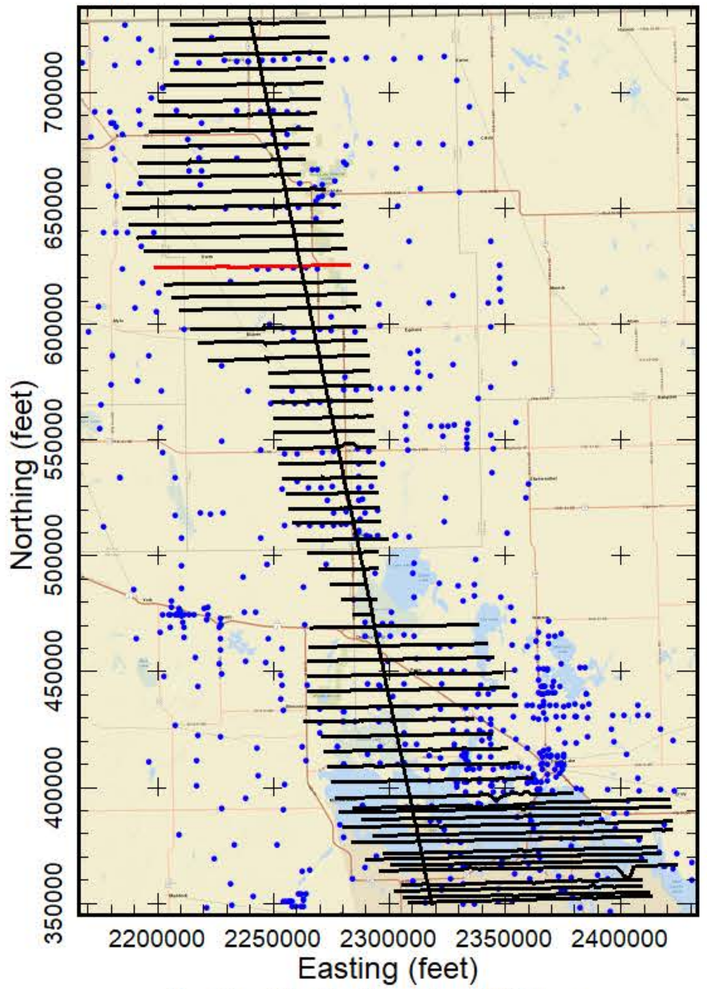
AEM Inversion Line L1165





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Flight Area Towner

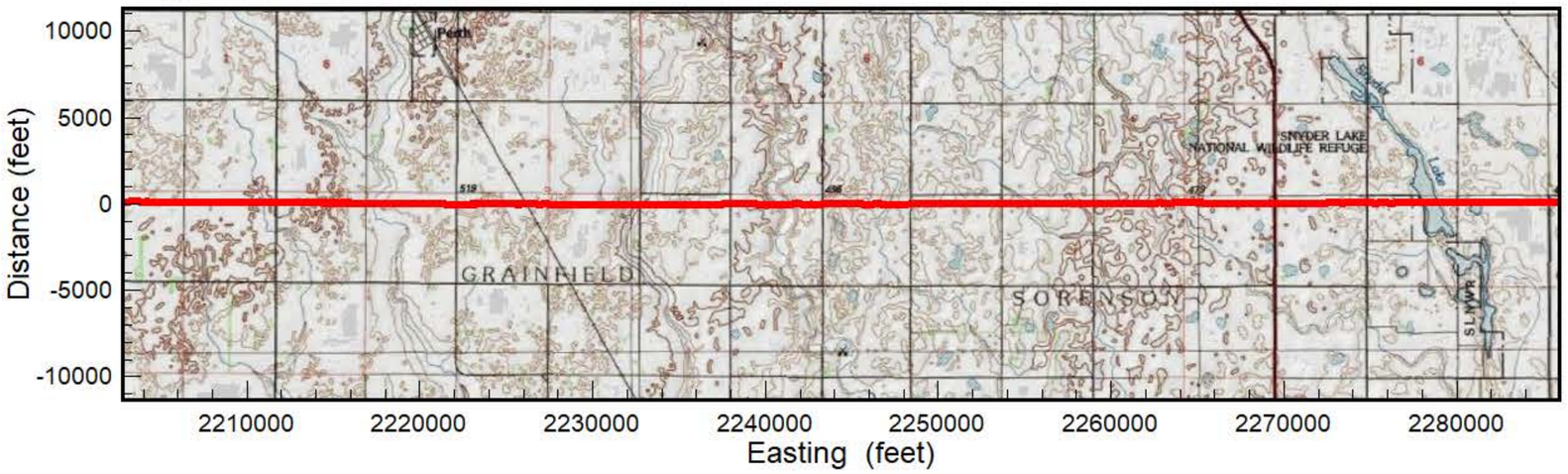


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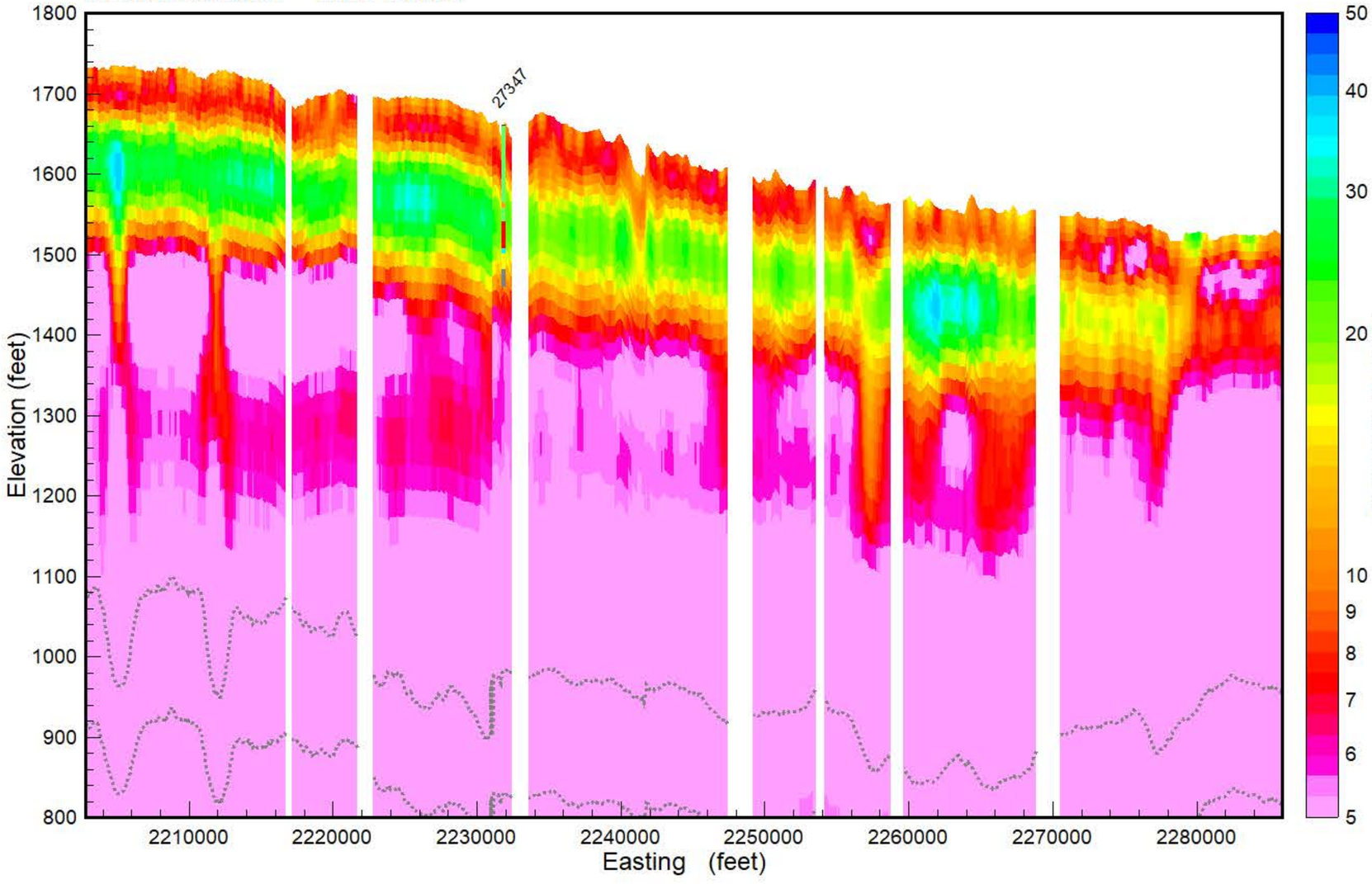
GEOTECH

AGF Aqua Geo Frameworks

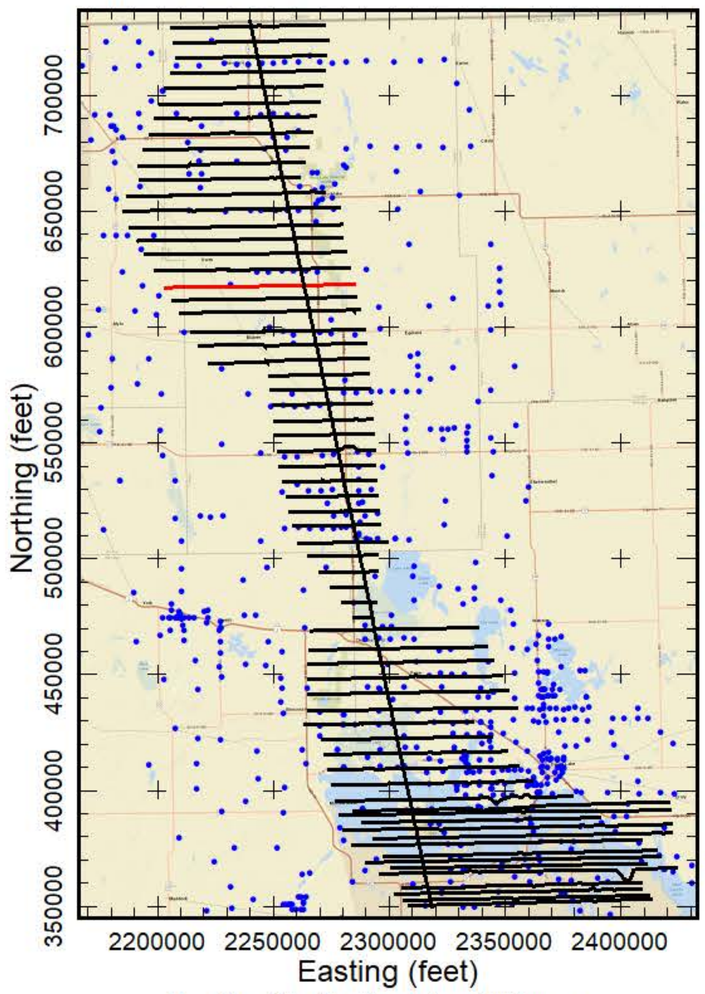
Flight Path Line L1175



AEM Inversion Line L1175

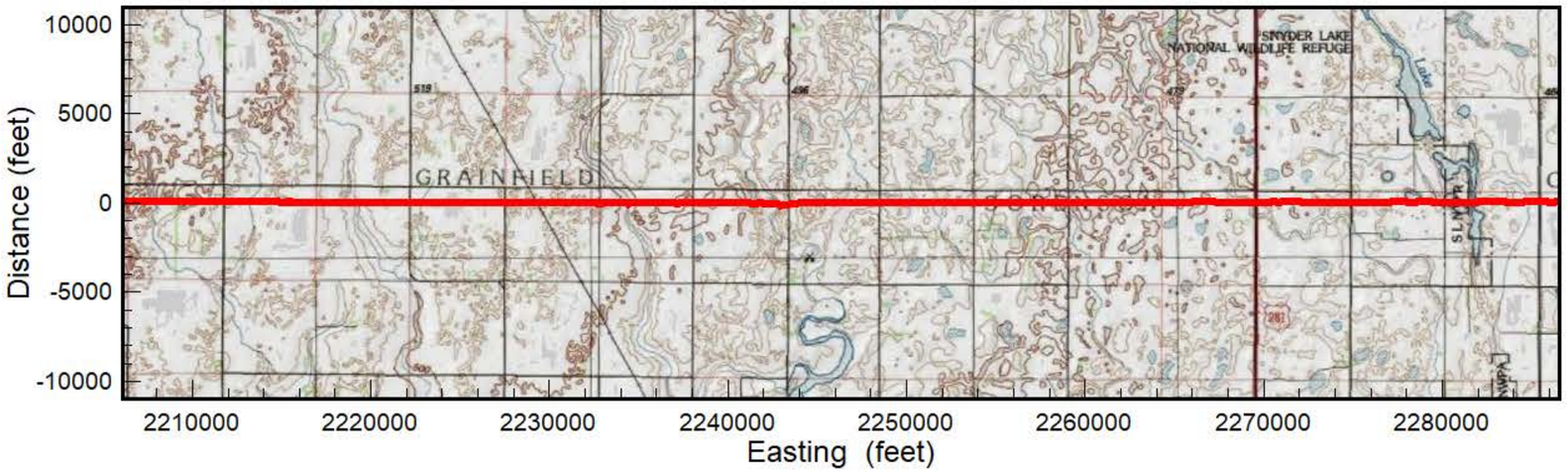


Flight Area Towner

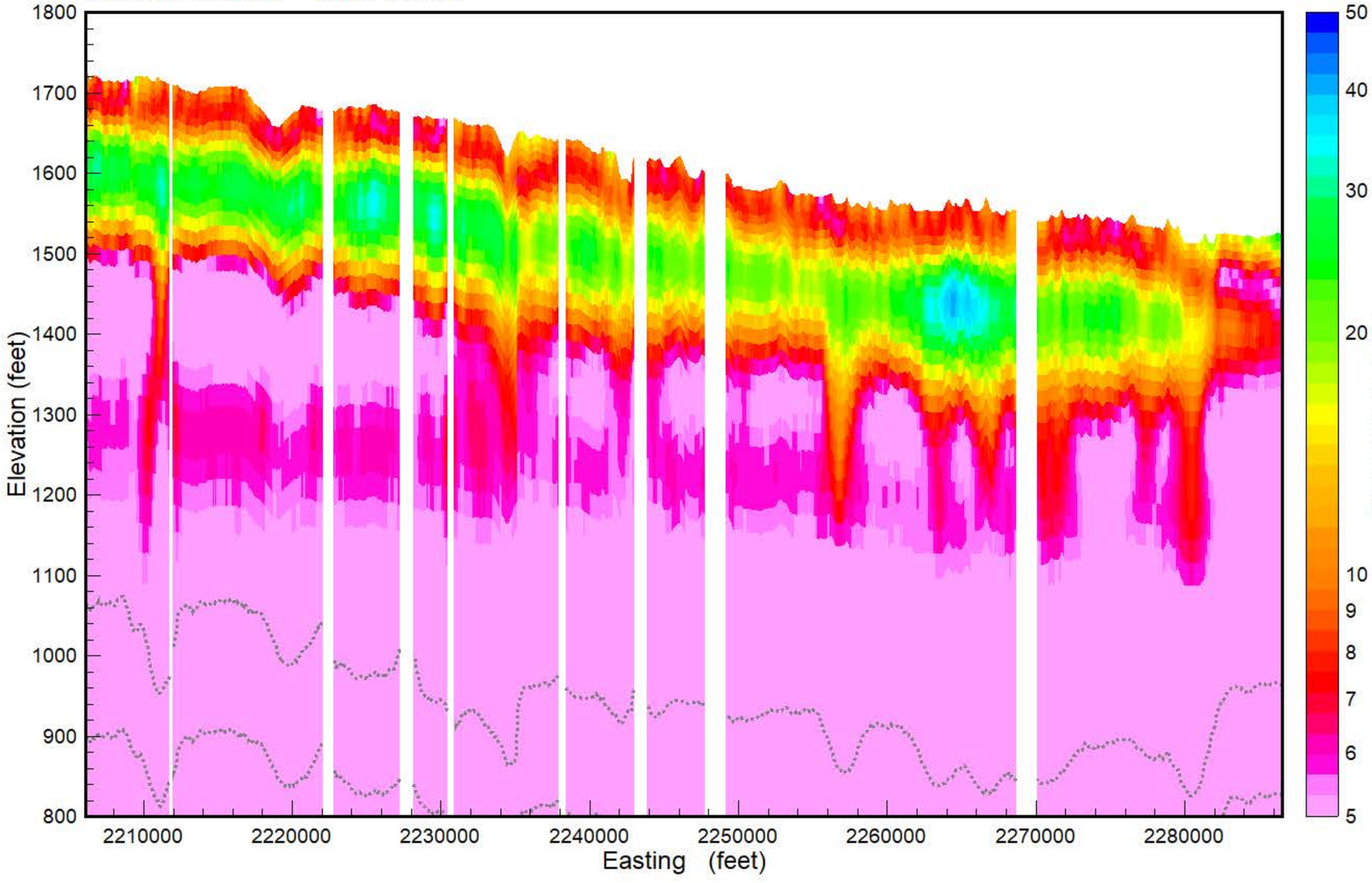


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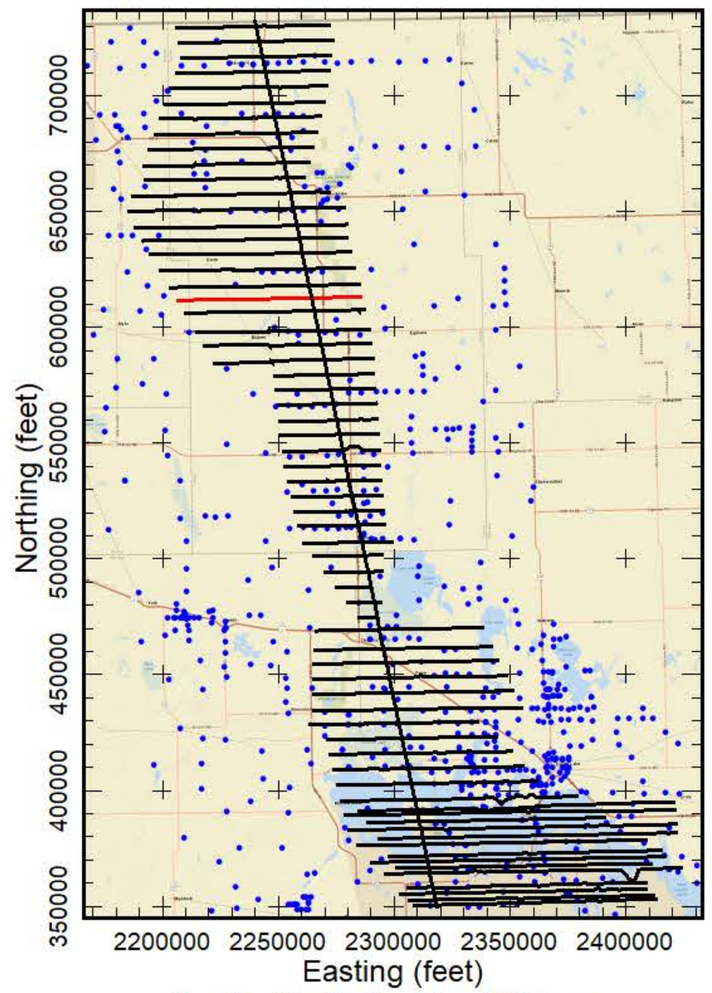
Flight Path Line L1185



AEM Inversion Line L1185



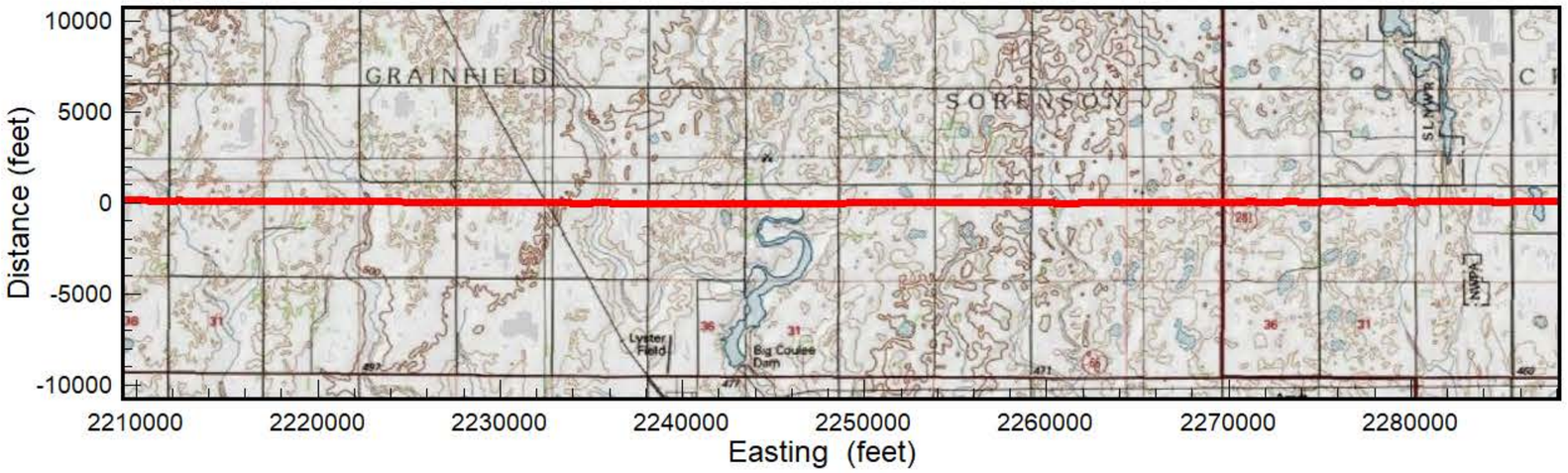
Flight Area Towner



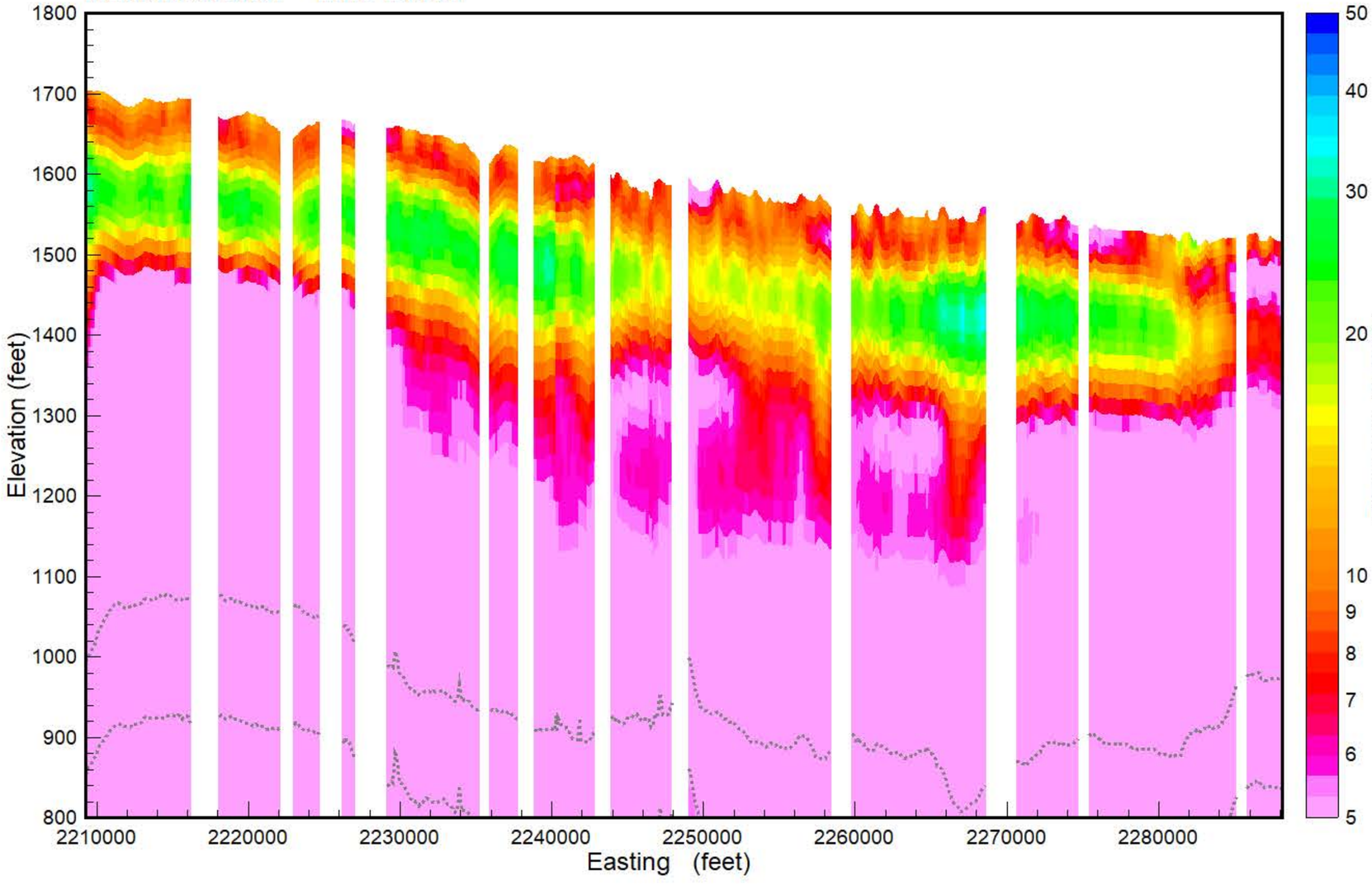
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- NOSAMPLE

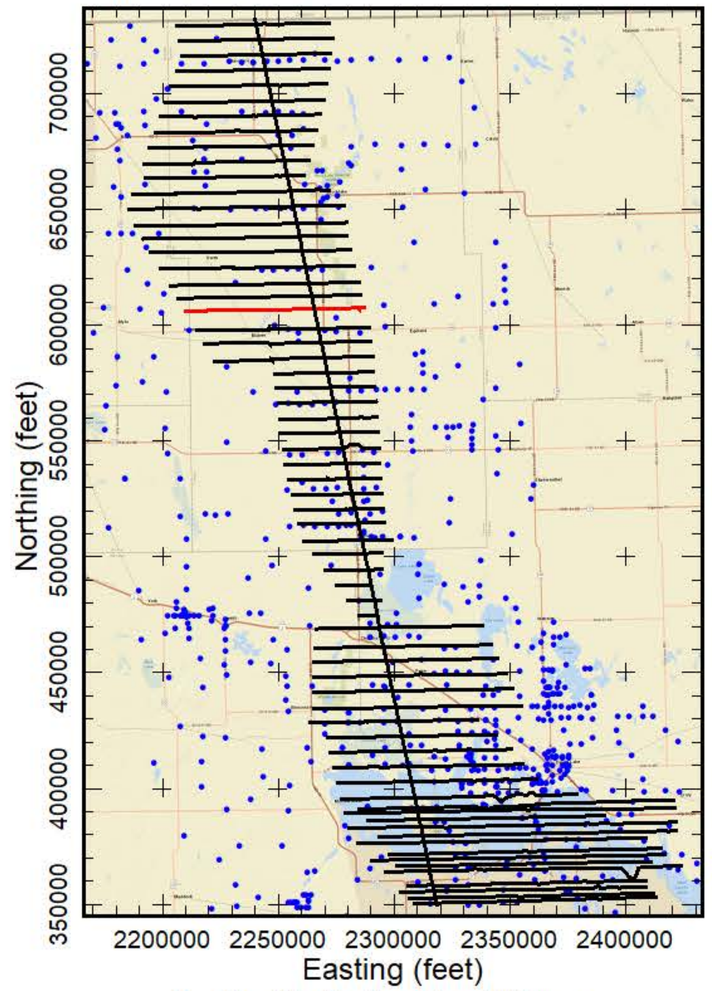
Flight Path Line L1195

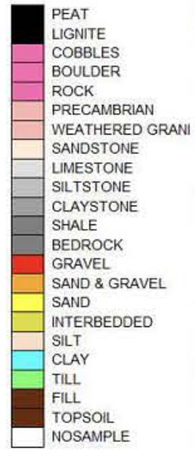


AEM Inversion Line L1195



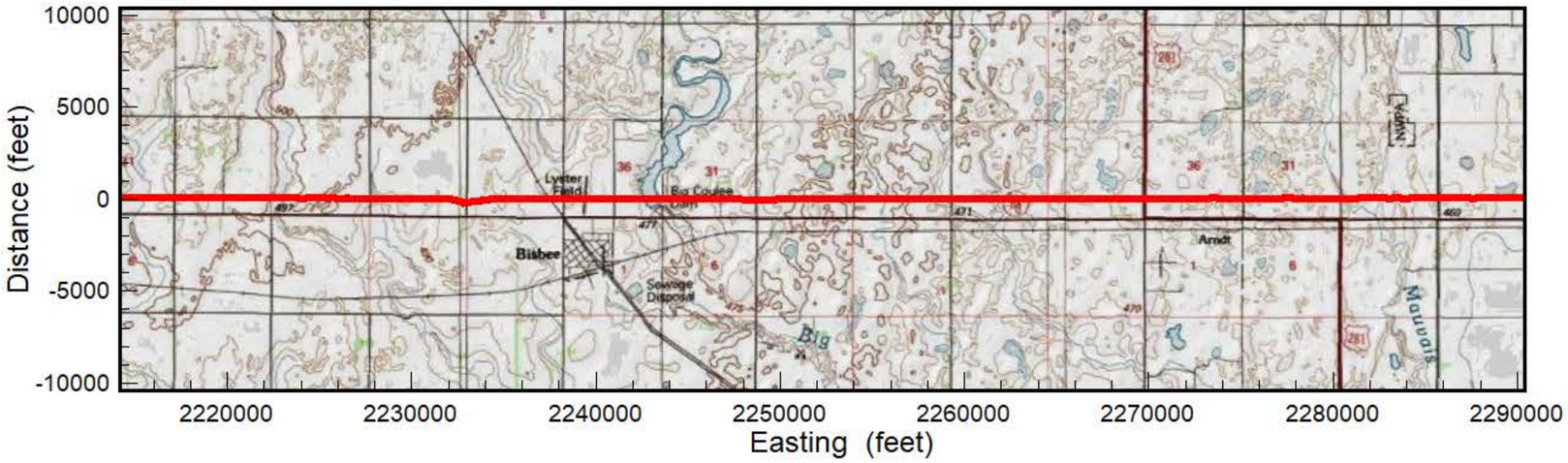
Flight Area Towner



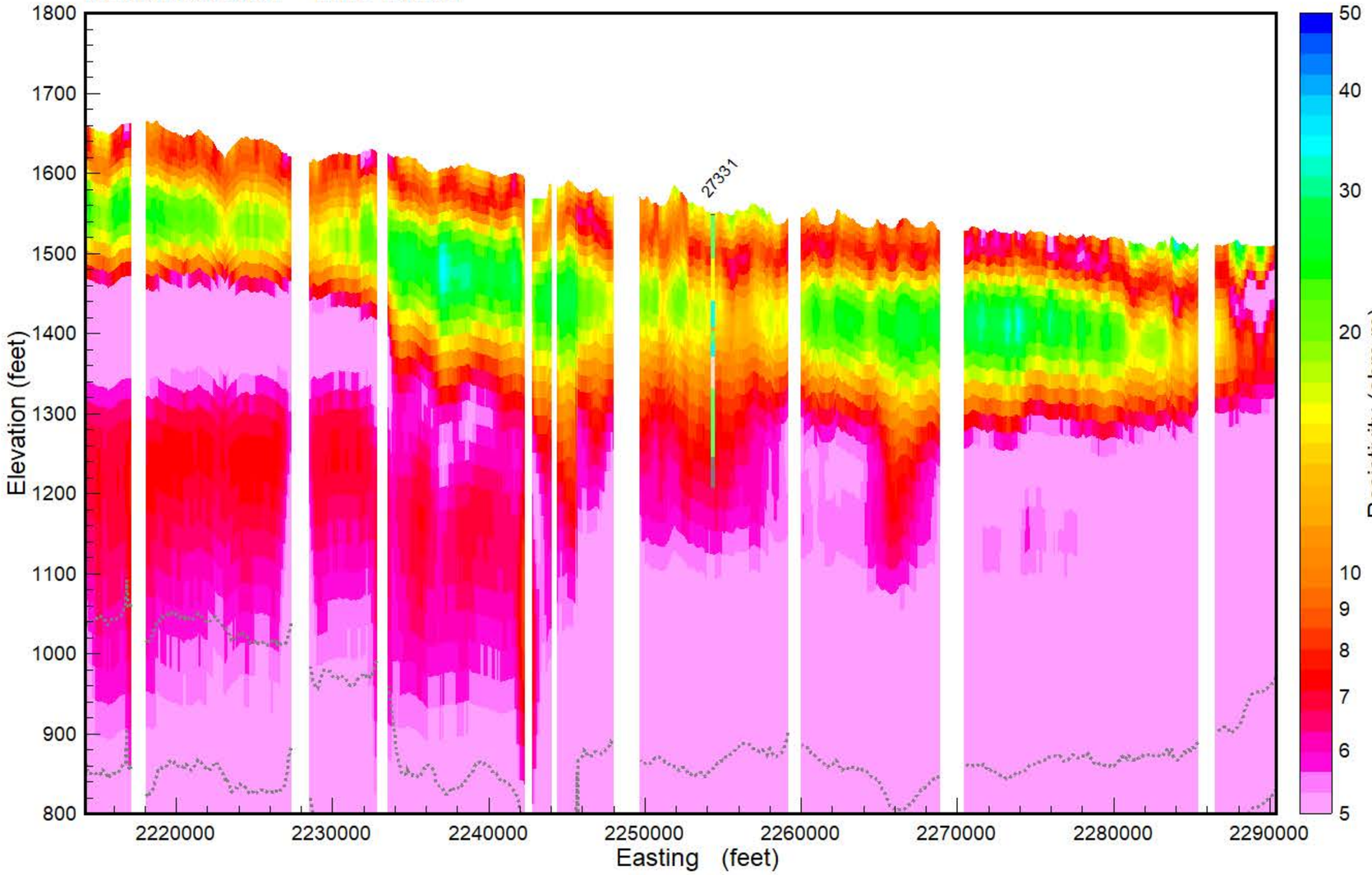


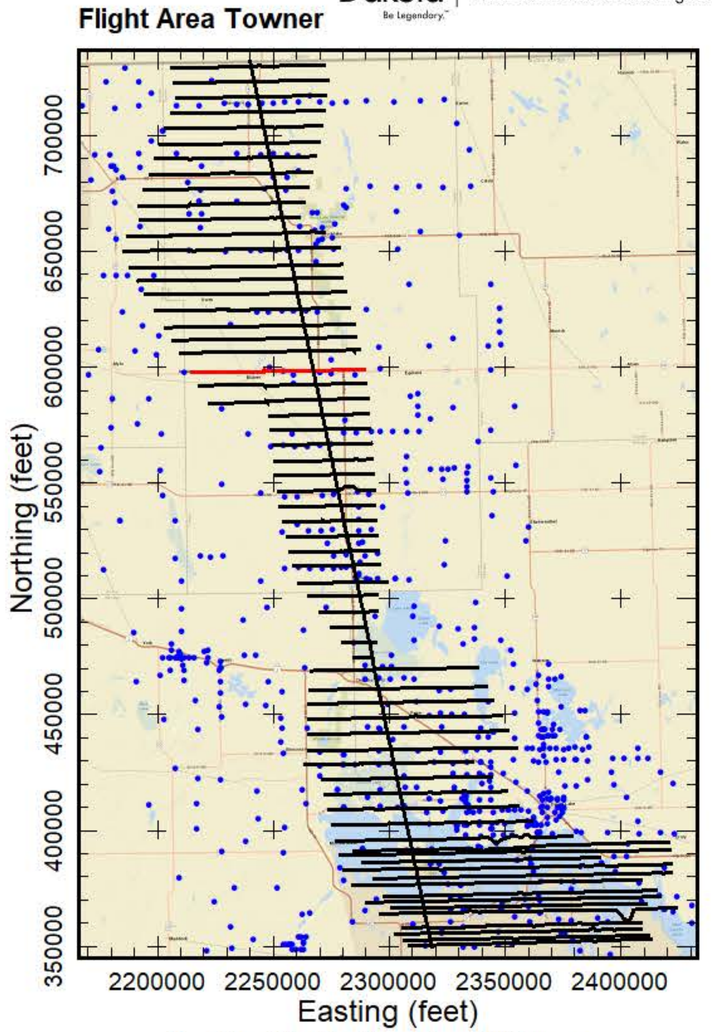
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Flight Path Line L1205



AEM Inversion Line L1205

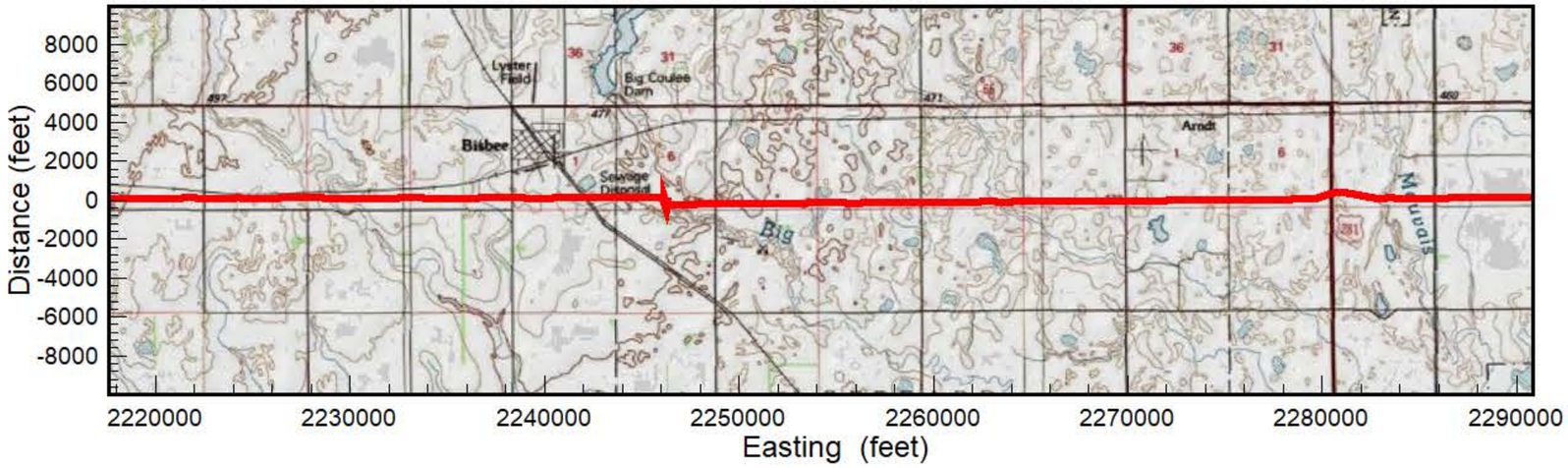




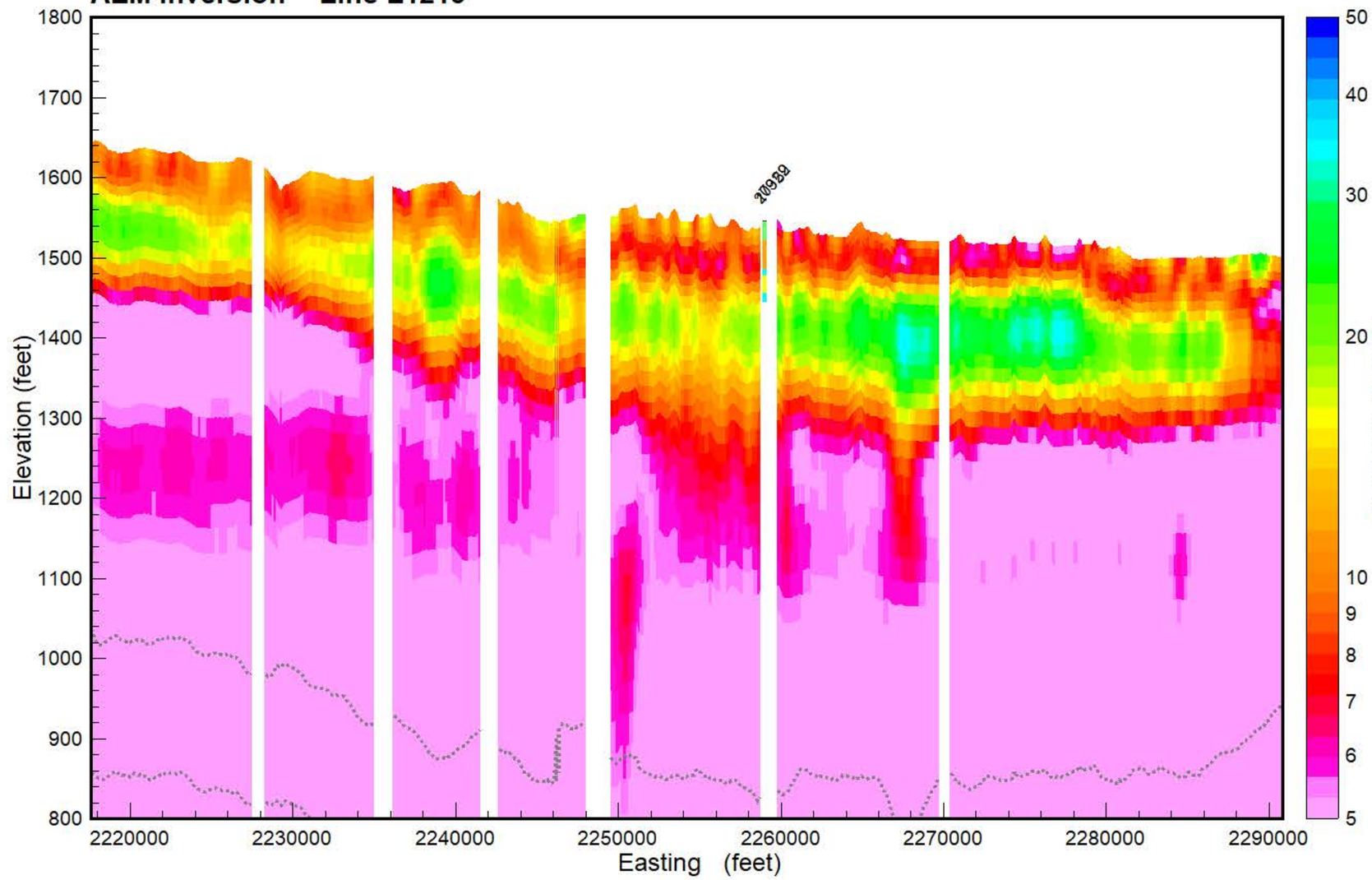


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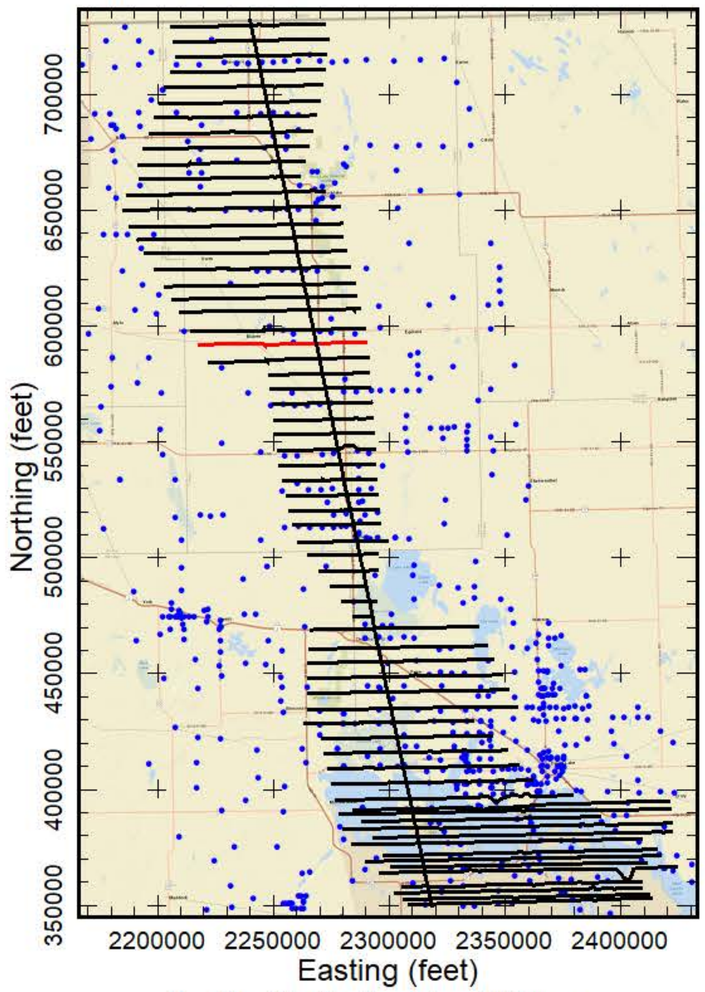
Flight Path Line L1215



AEM Inversion Line L1215



Flight Area Towner



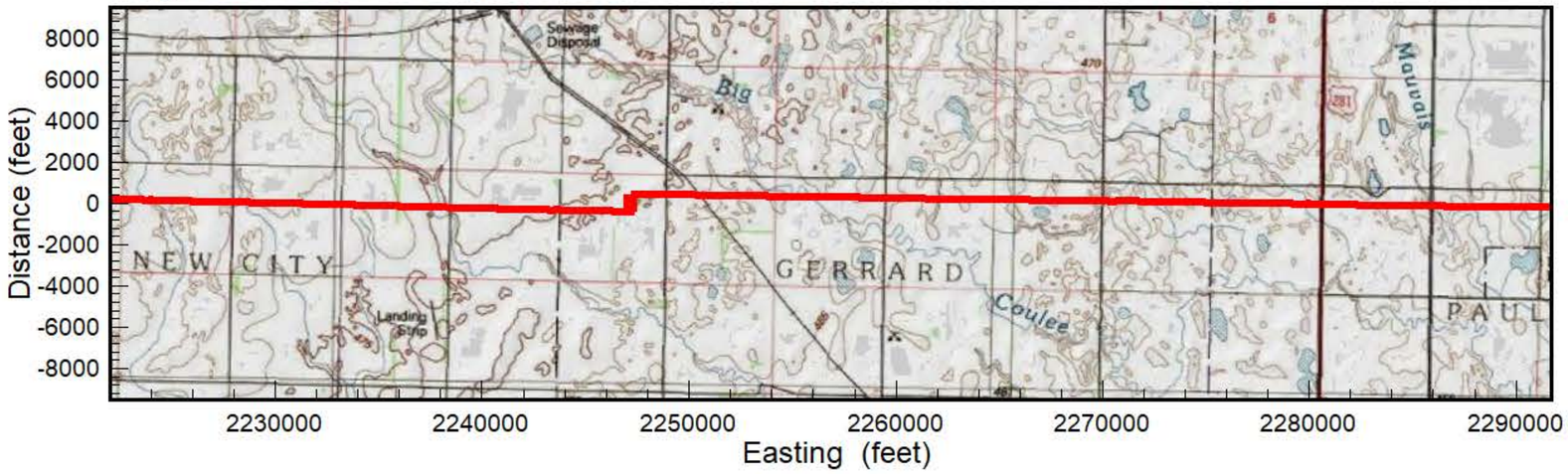
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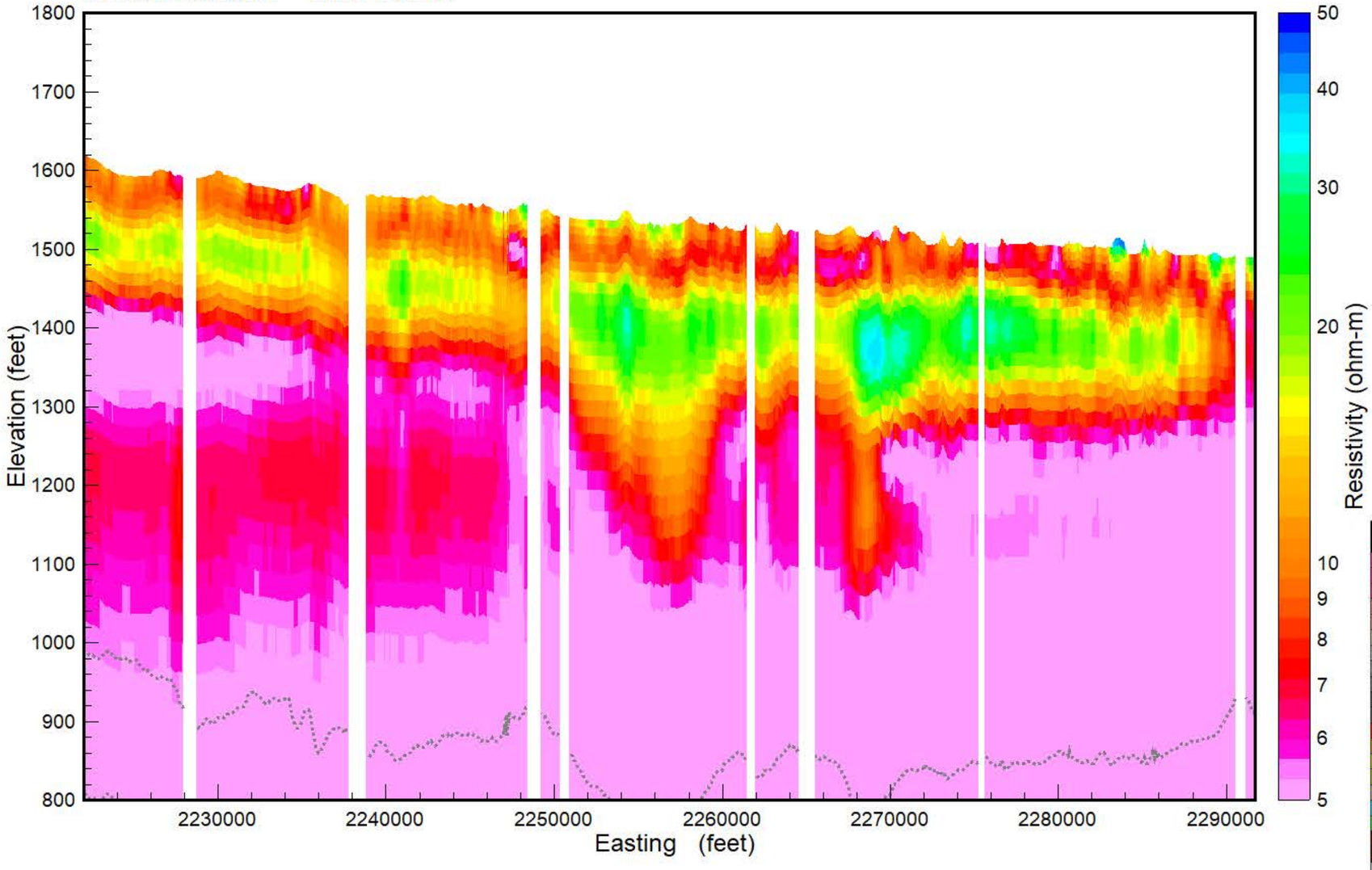
GEOTECH

AGF Aqua Geo Frameworks

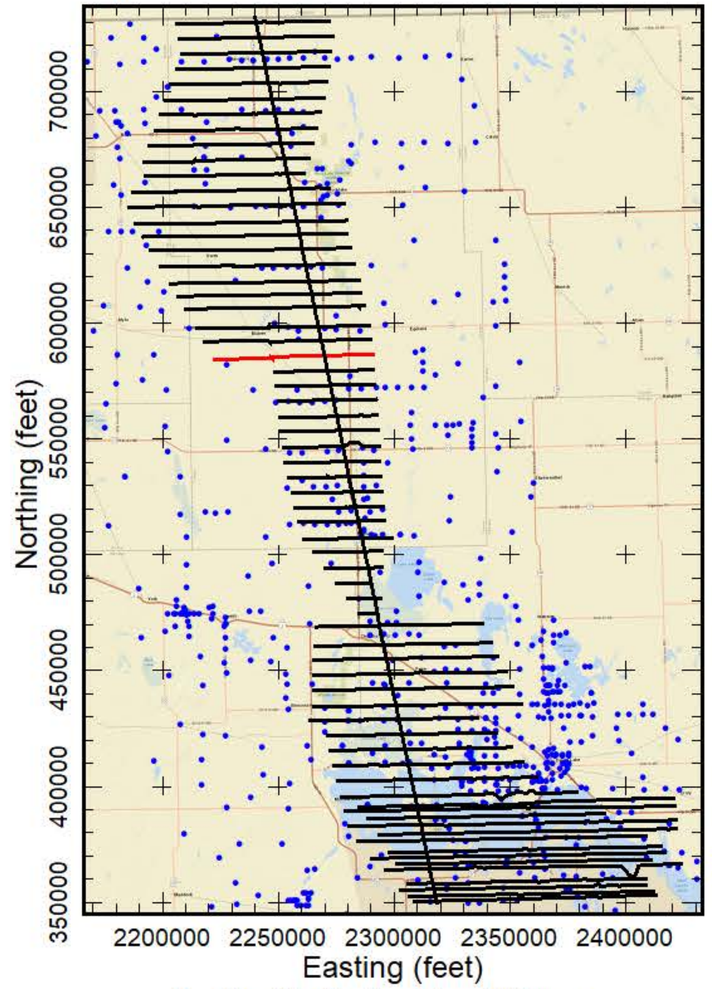
Flight Path Line L1225



AEM Inversion Line L1225



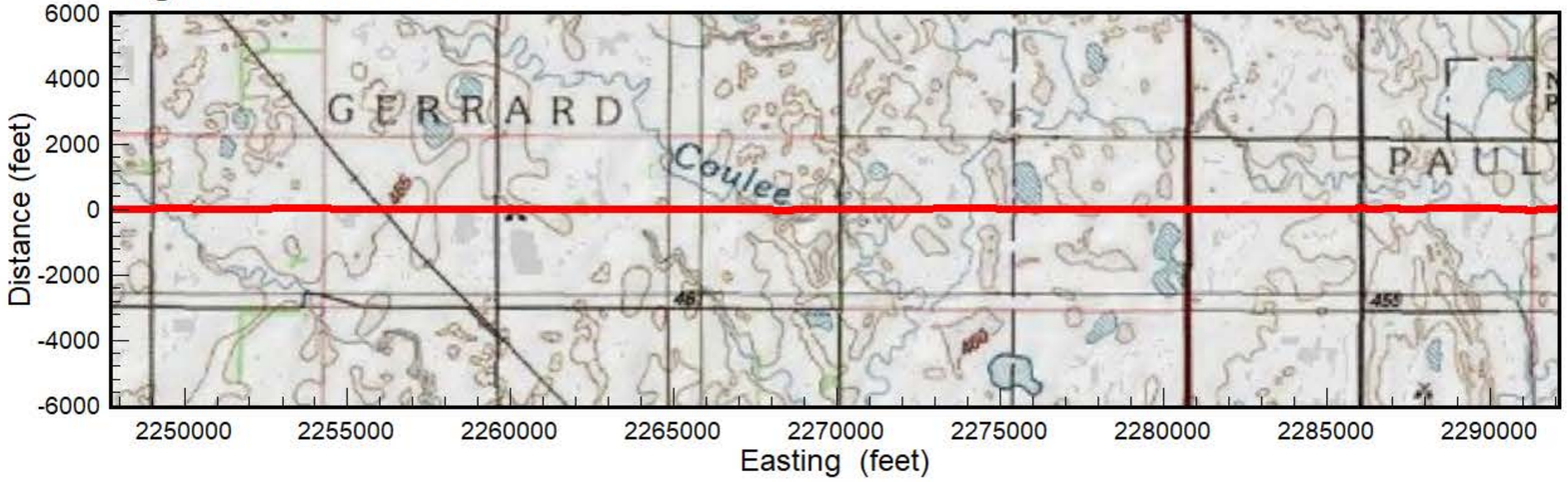
Flight Area Towner



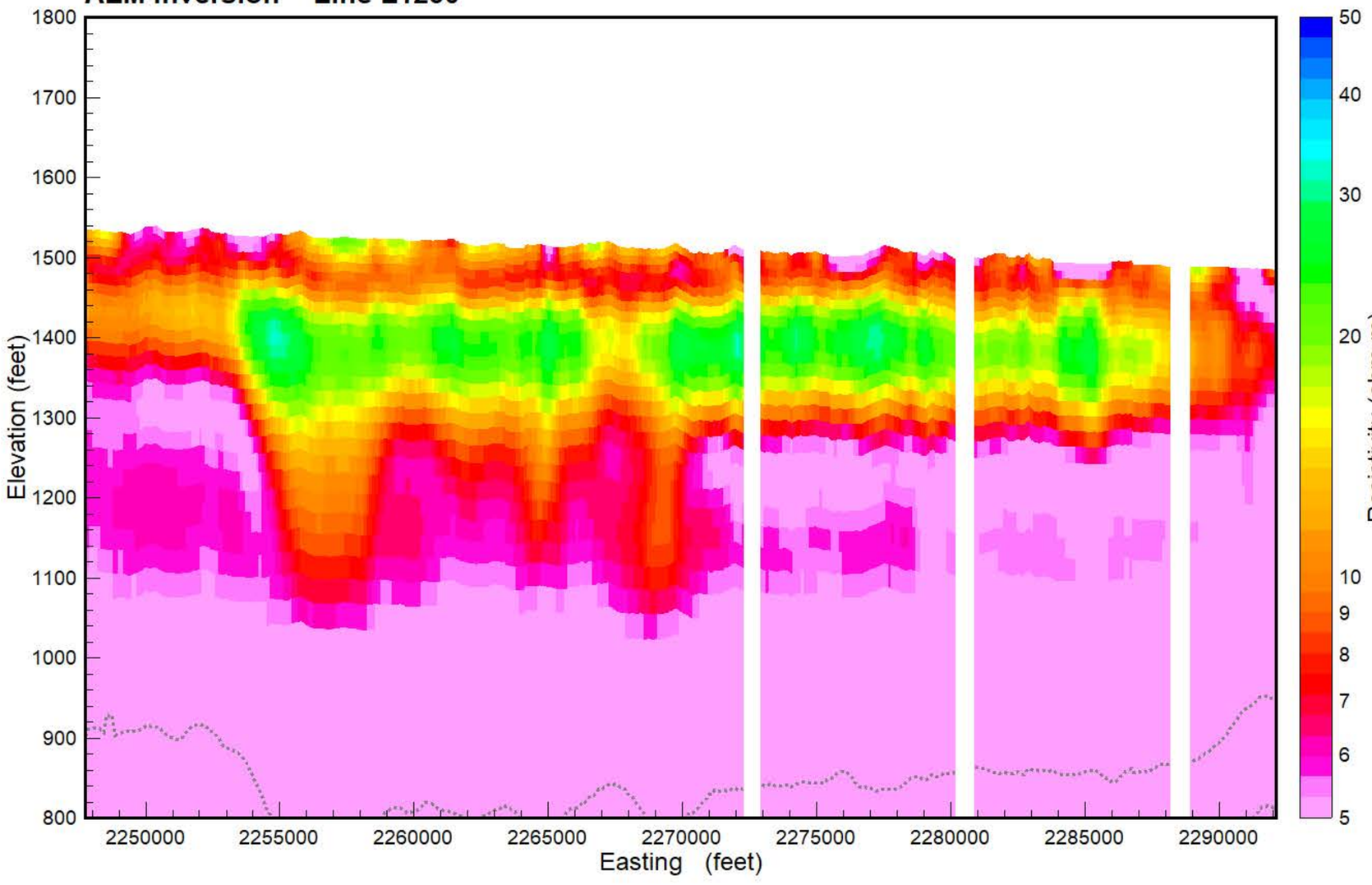
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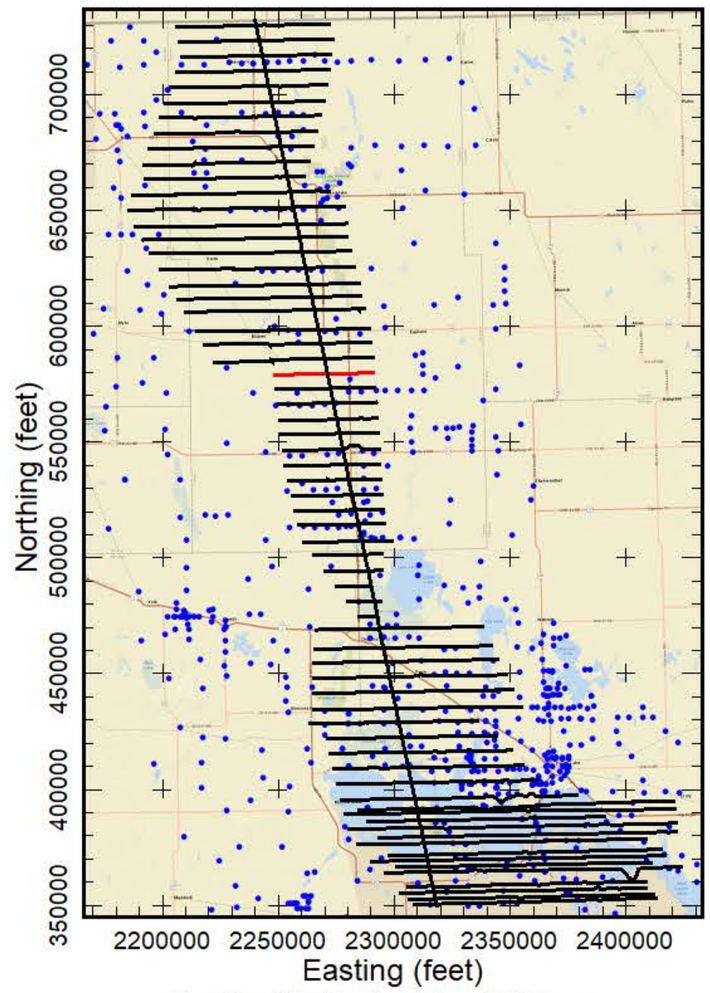
Flight Path Line L1230



AEM Inversion Line L1230



Flight Area Towner



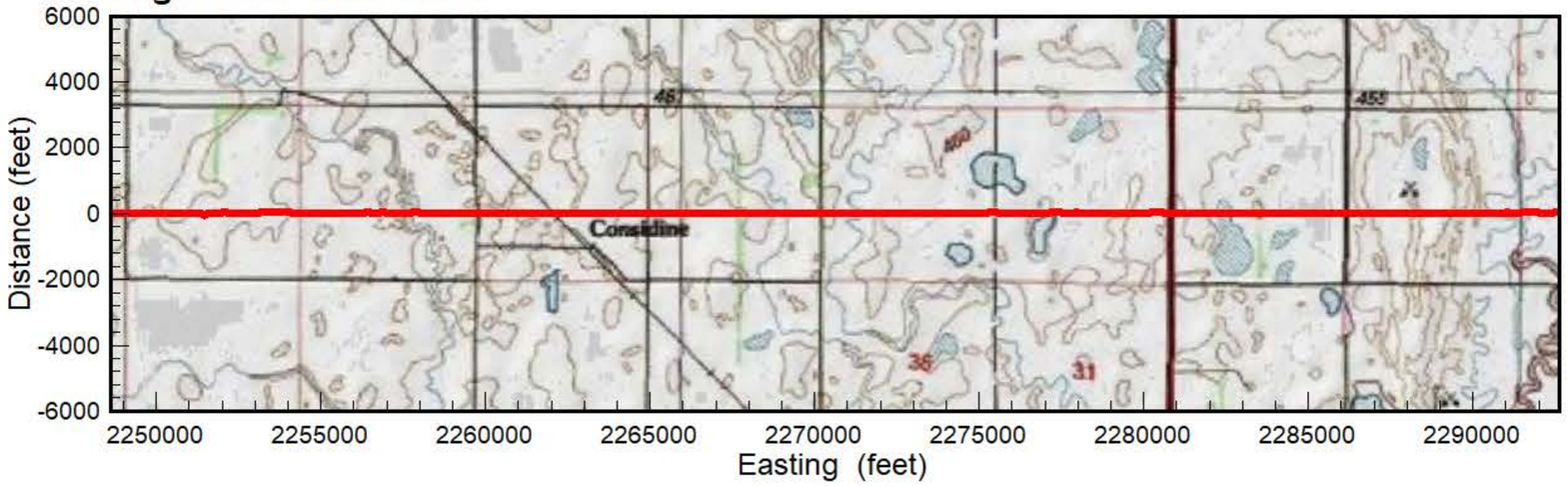
NORTH Dakota | Water Commission & State Engineer
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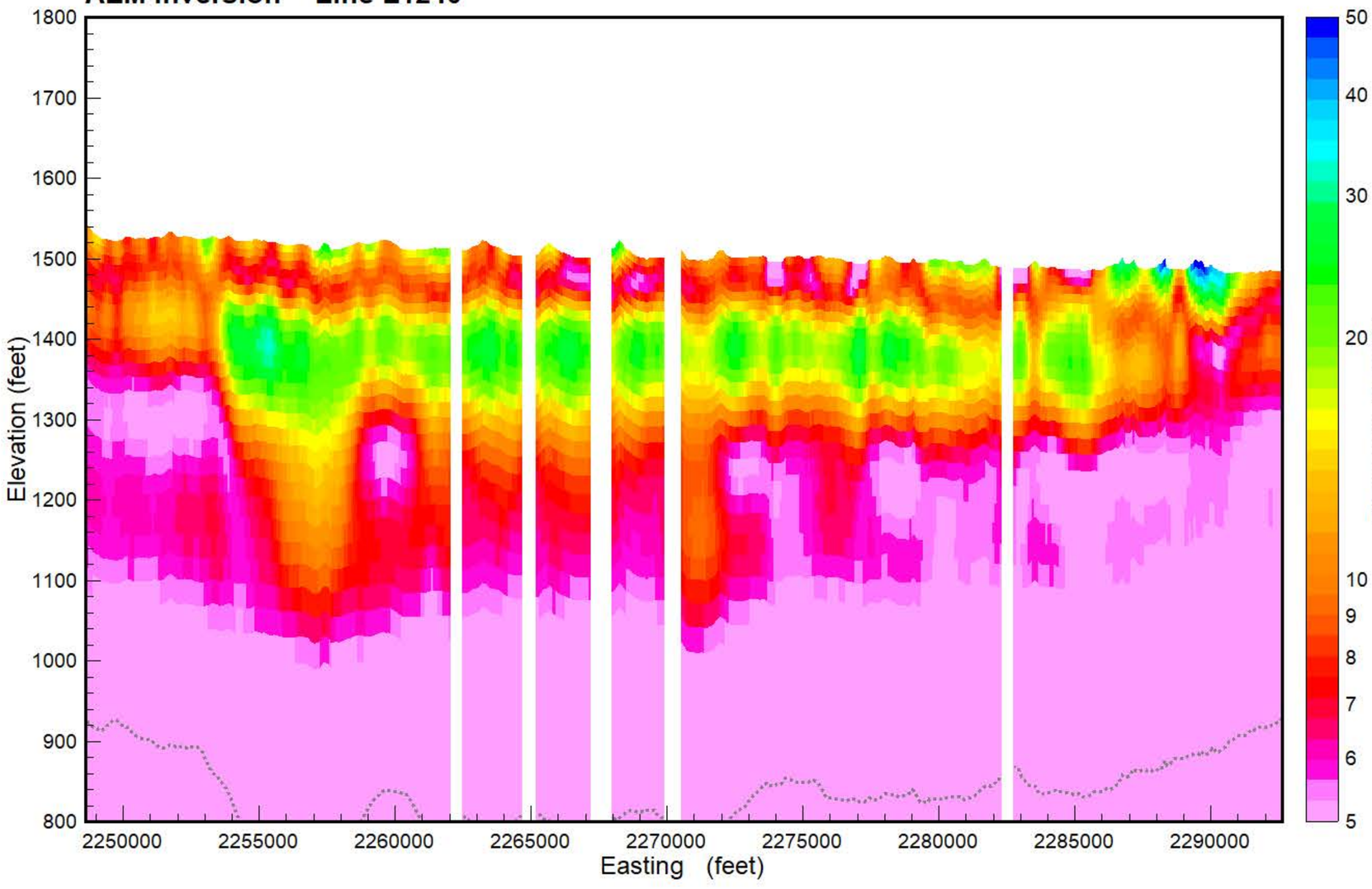
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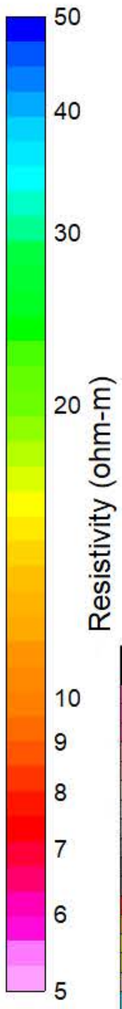
AGF Aqua Geo Frameworks

Flight Path Line L1240

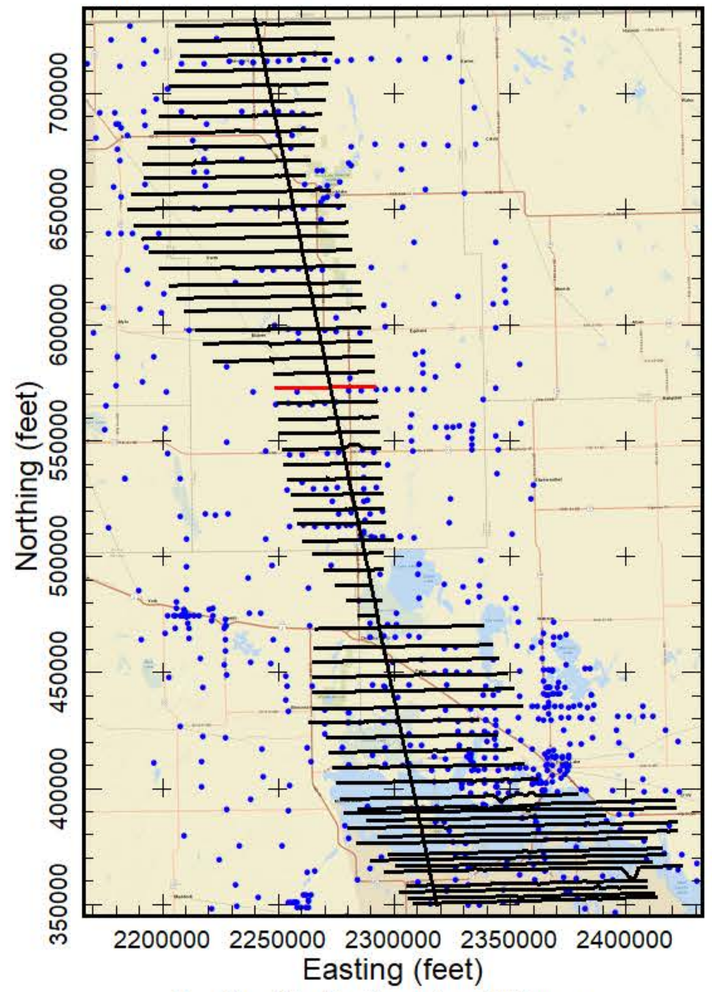


AEM Inversion Line L1240





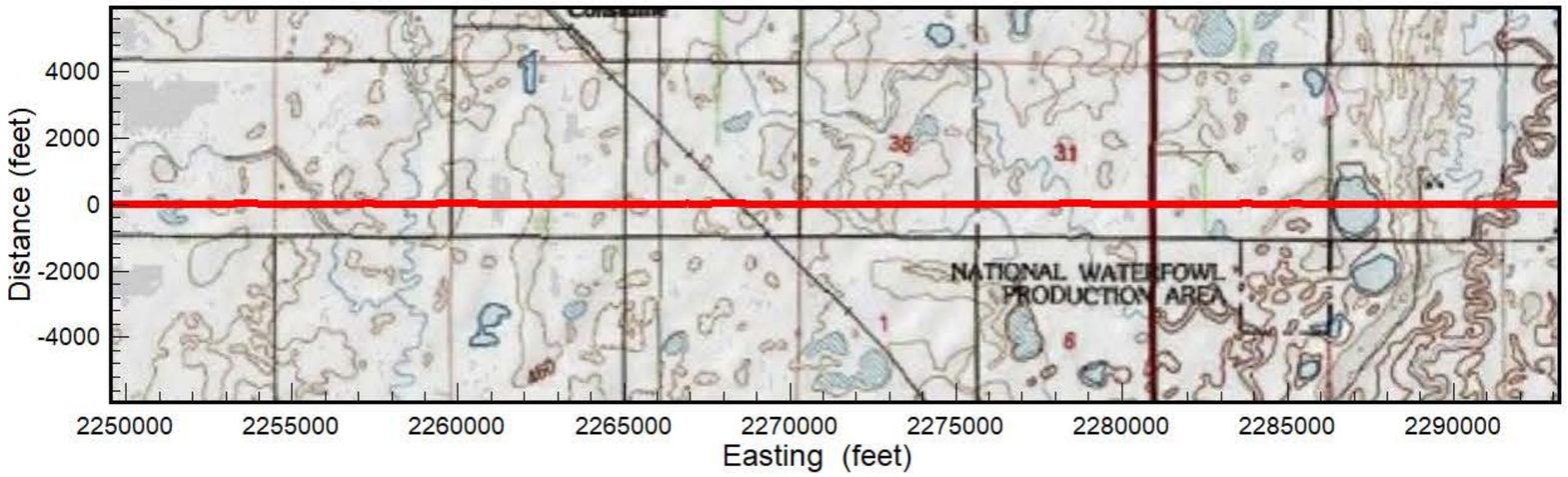
Flight Area Towner



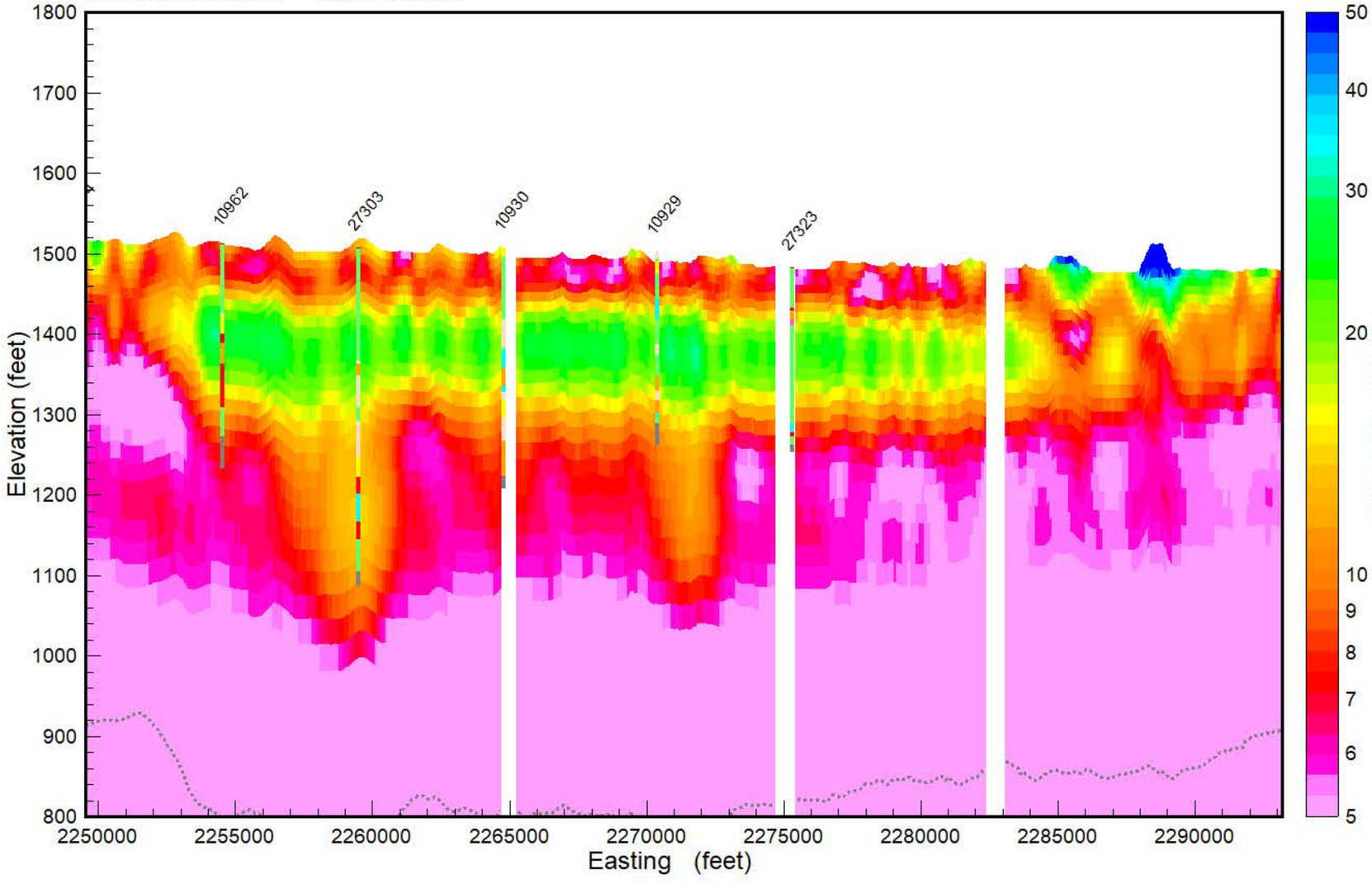


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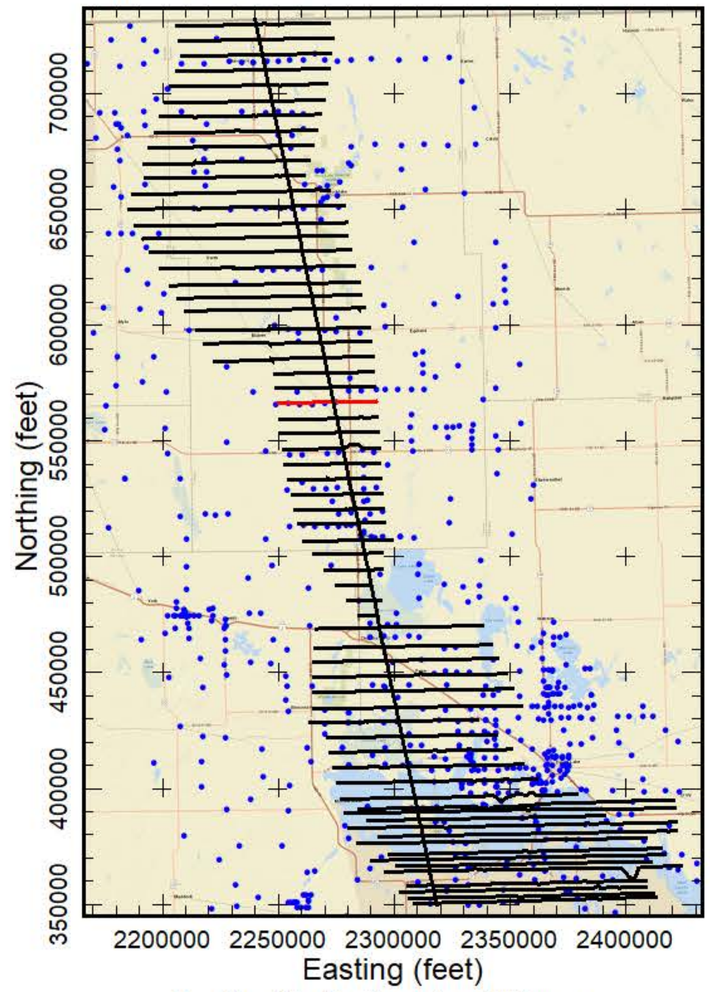
Flight Path Line L1250



AEM Inversion Line L1250

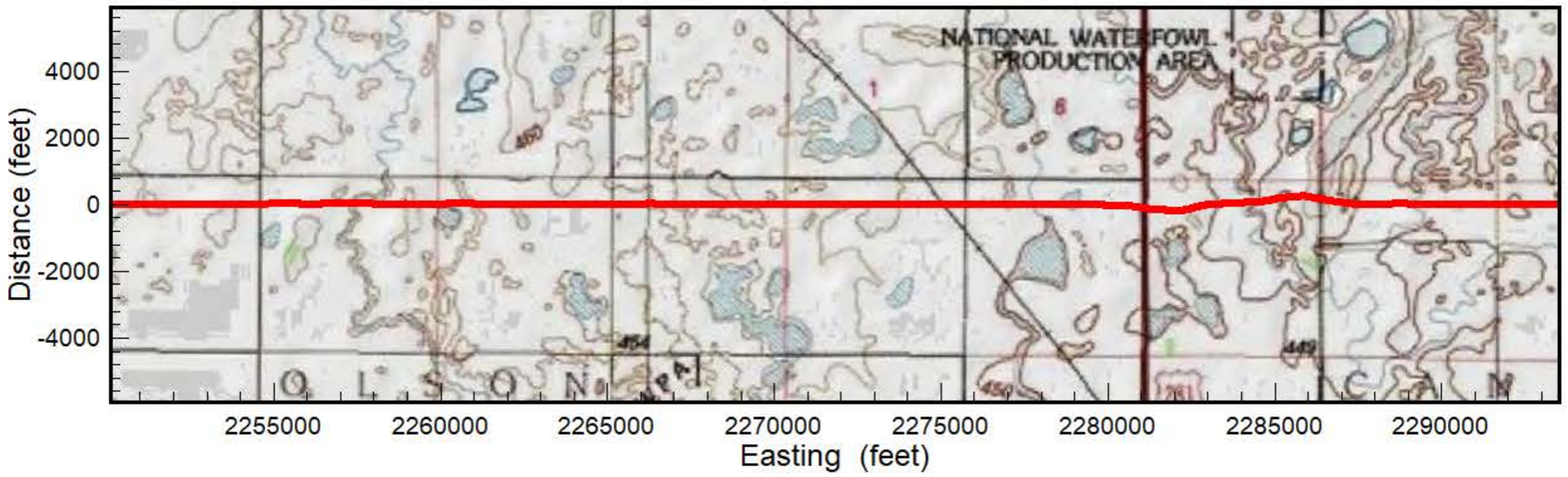


Flight Area Towner

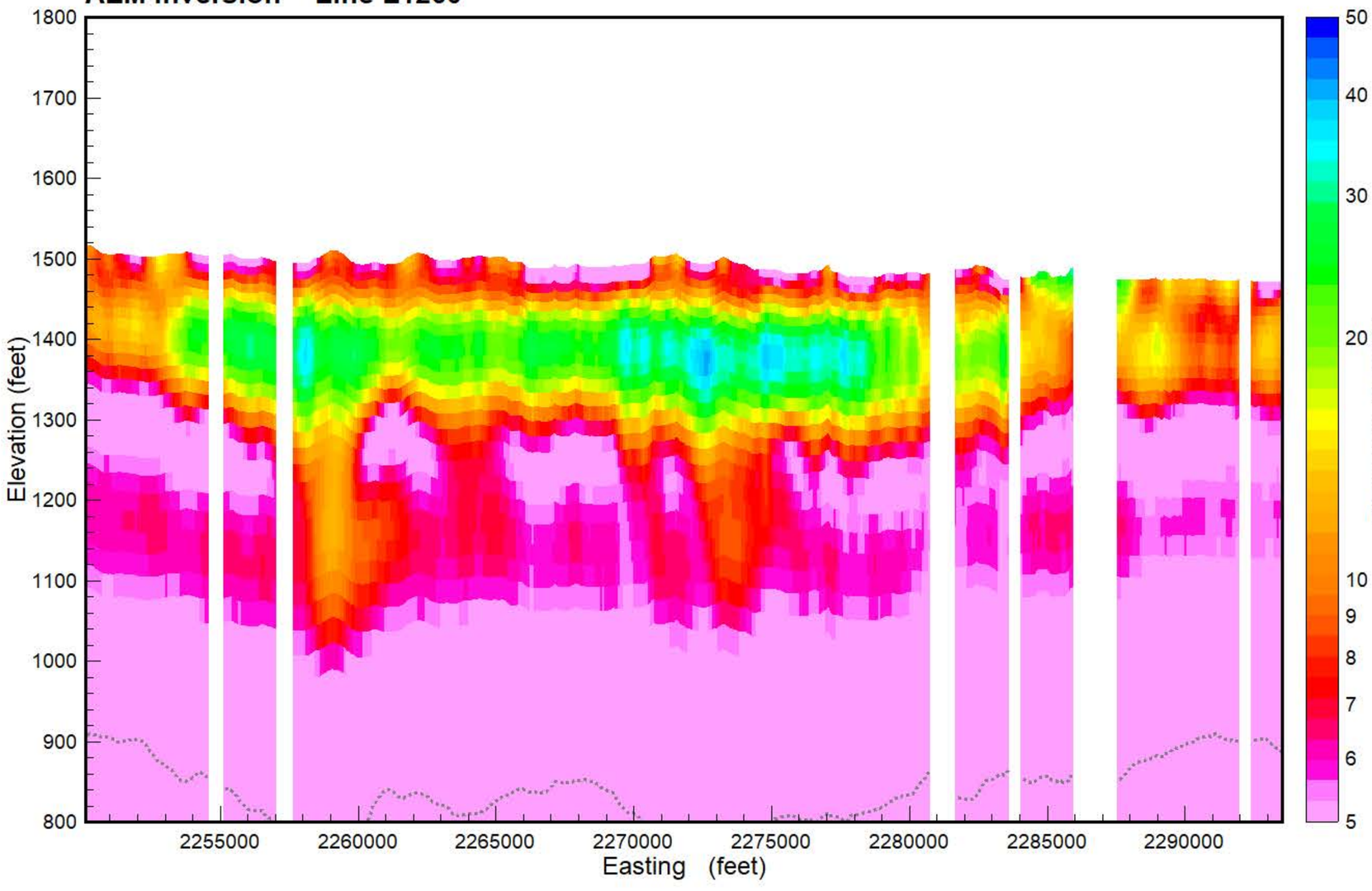


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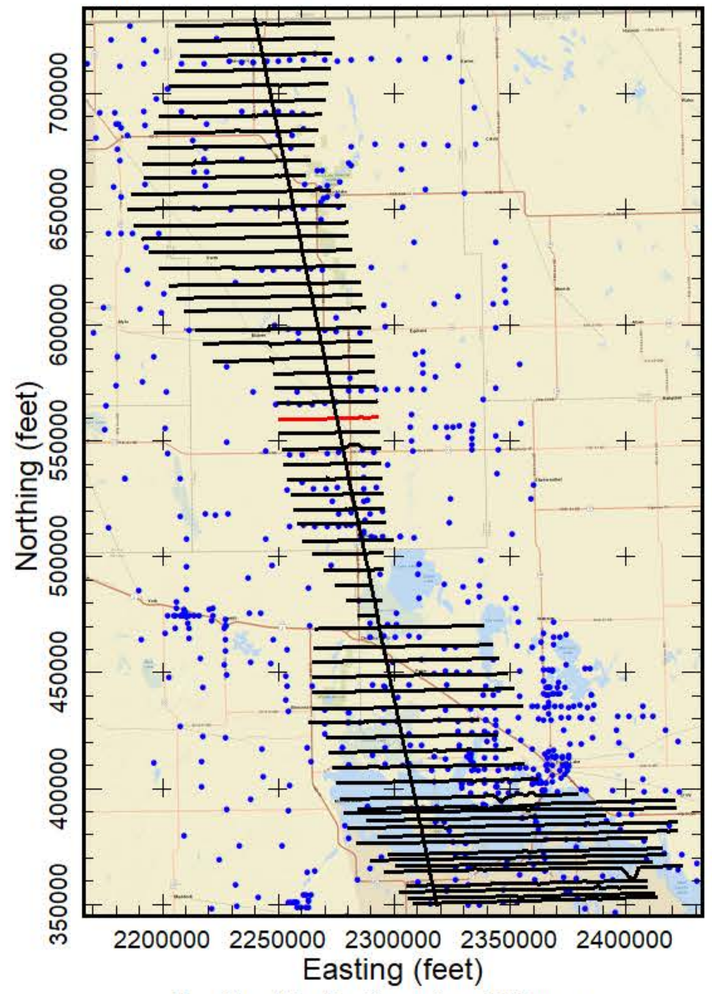
Flight Path Line L1260



AEM Inversion Line L1260



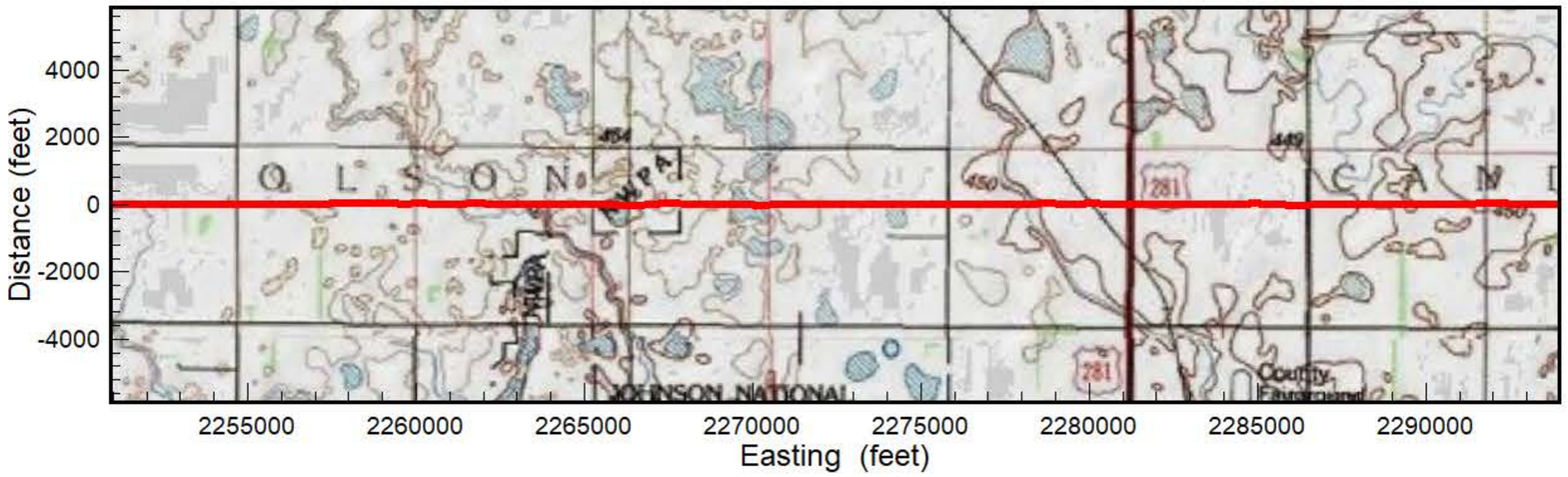
Flight Area Towner



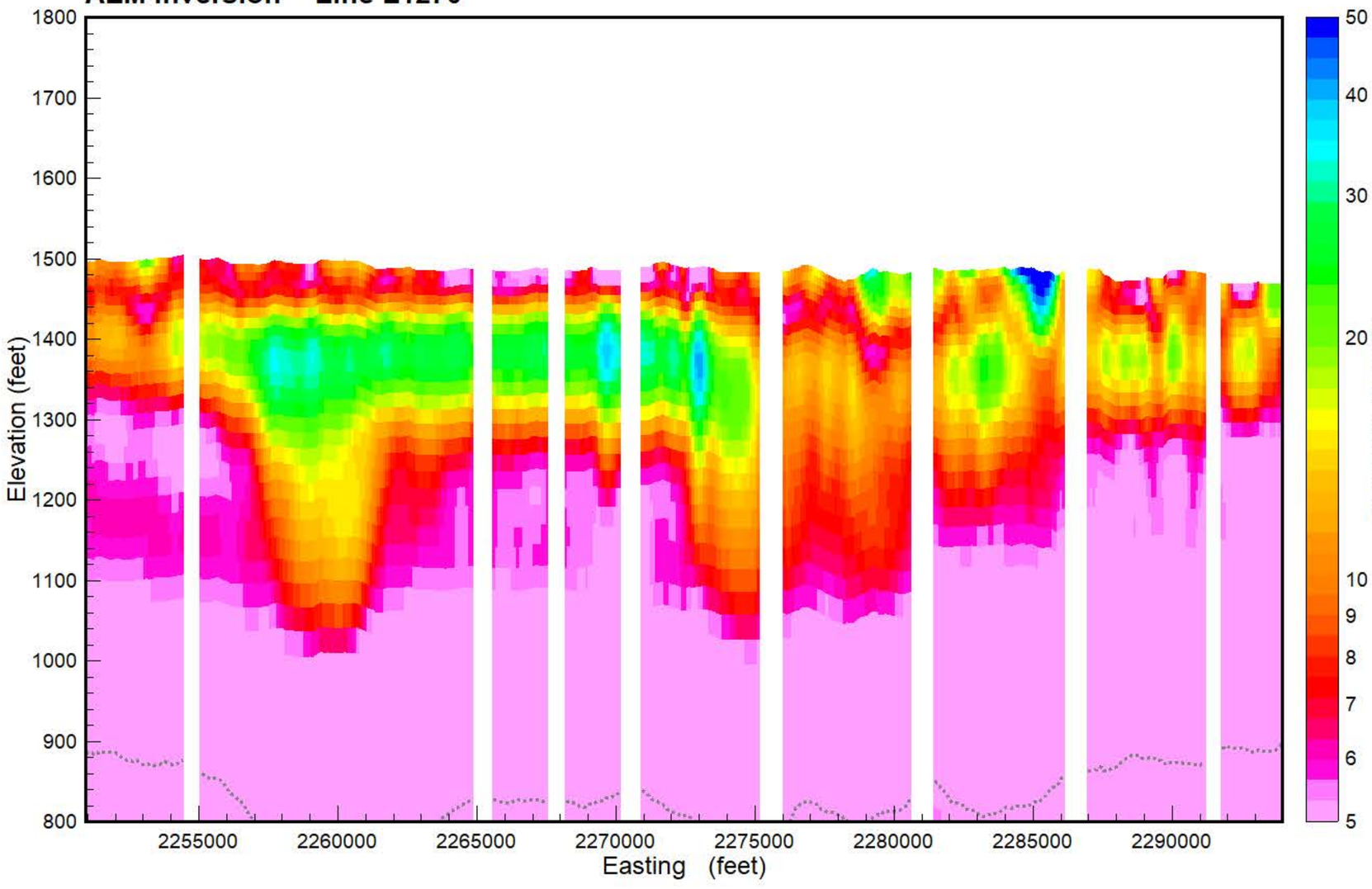
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LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

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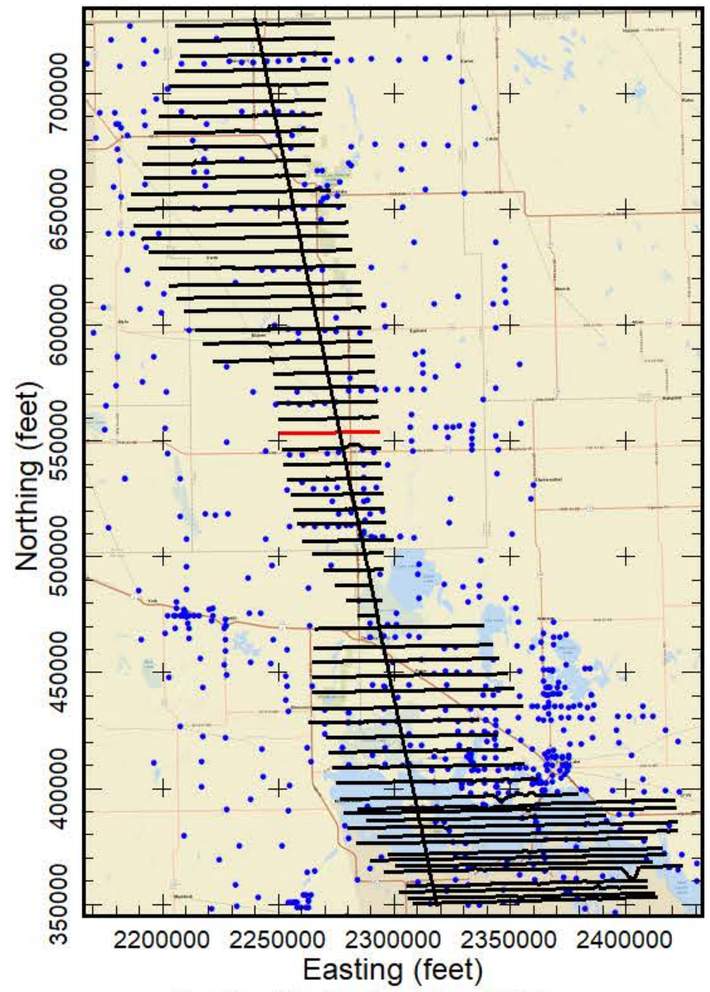
Flight Path Line L1270



AEM Inversion Line L1270



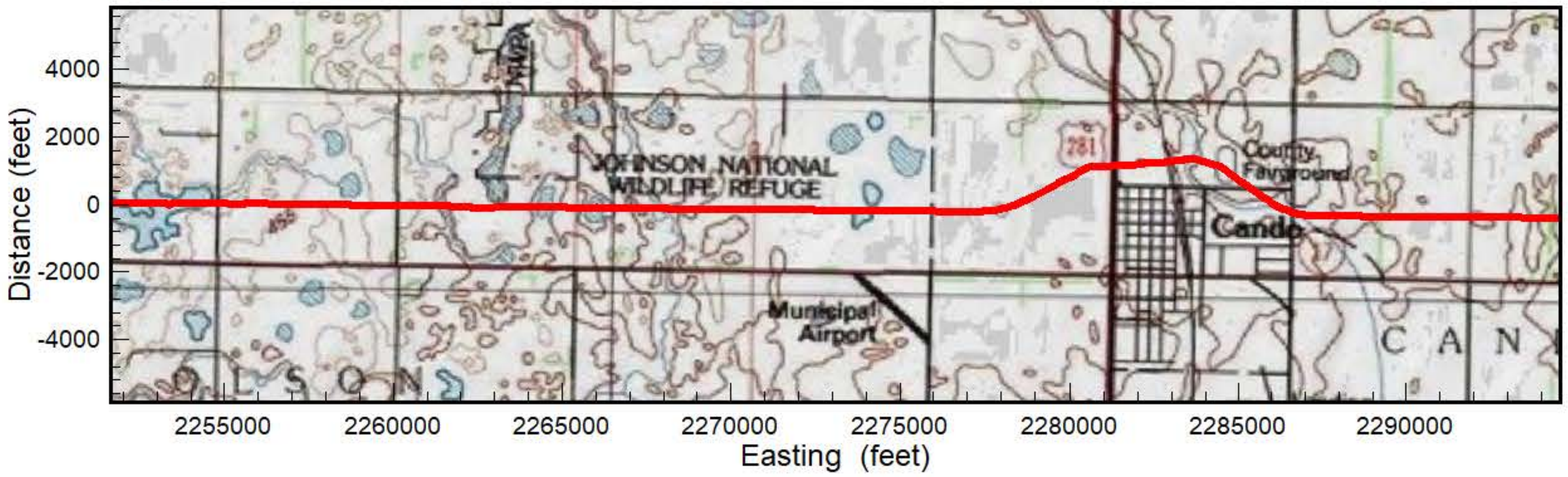
Flight Area Towner



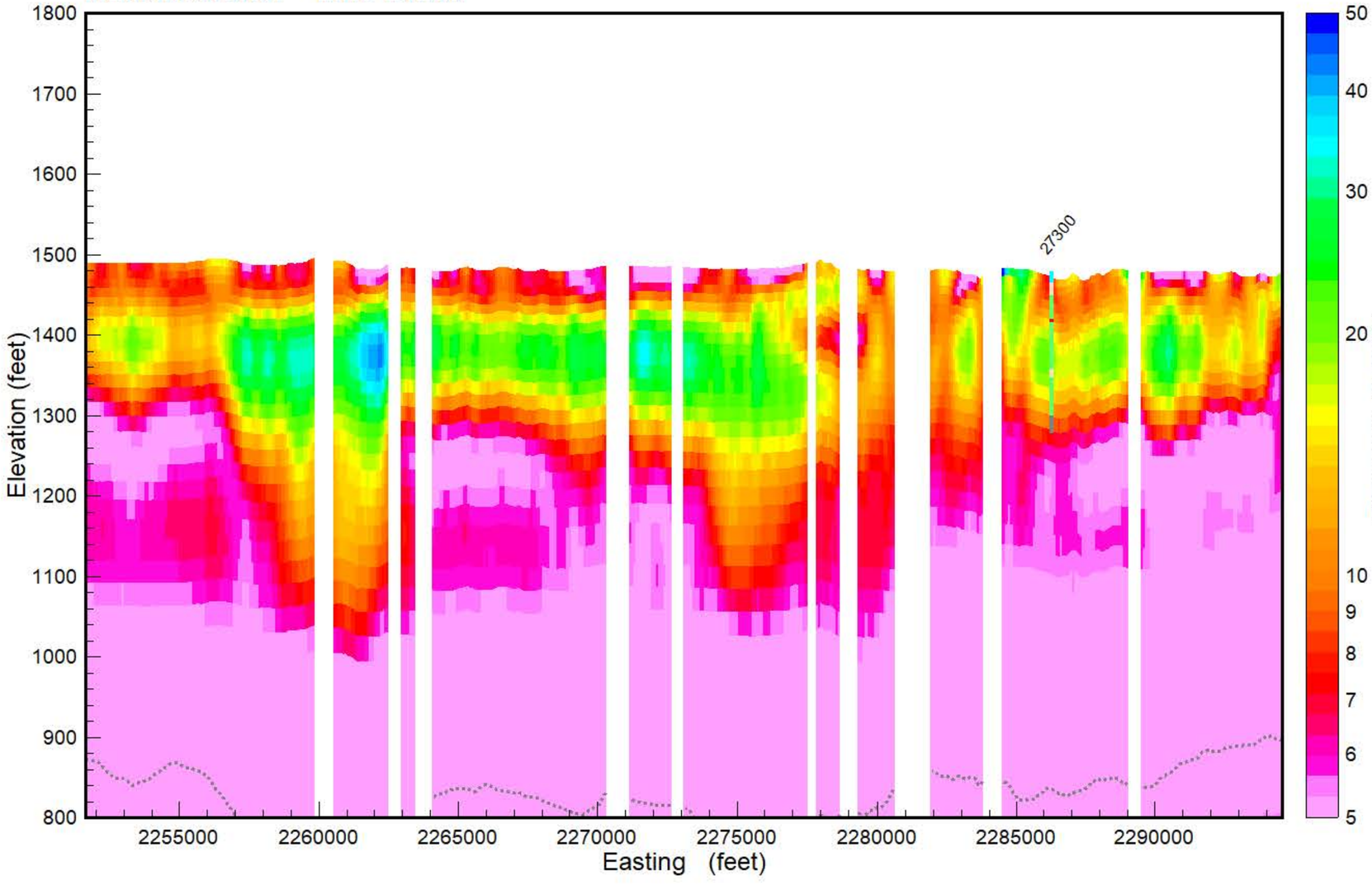
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SAND
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SILT
CLAY
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FILL
TOPSOIL
NOSAMPLE

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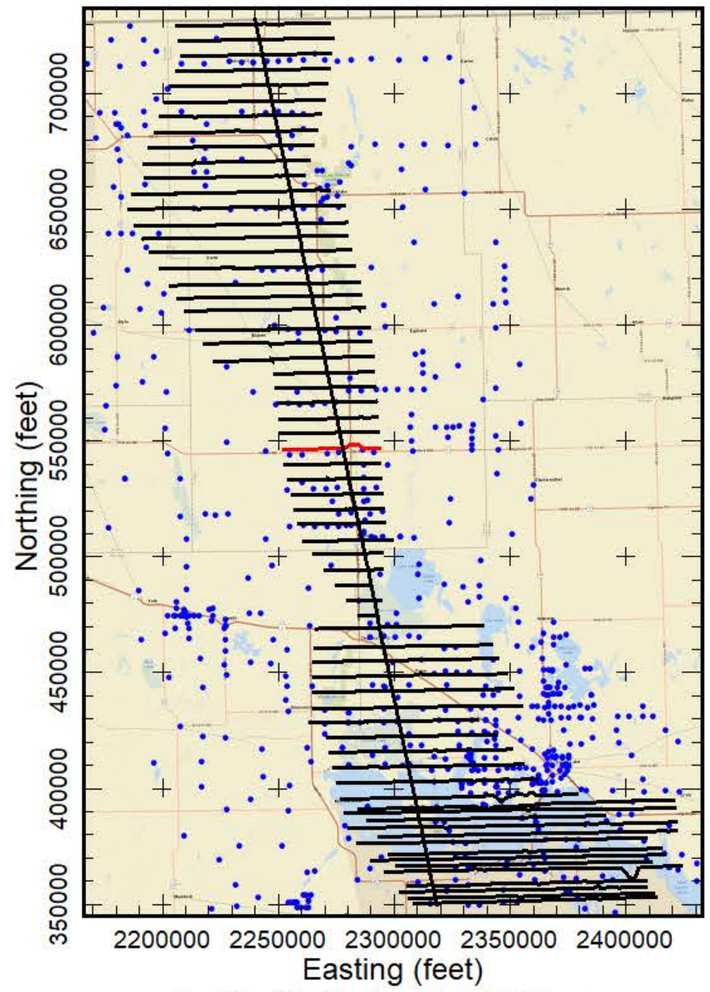
Flight Path Line L1280



AEM Inversion Line L1280



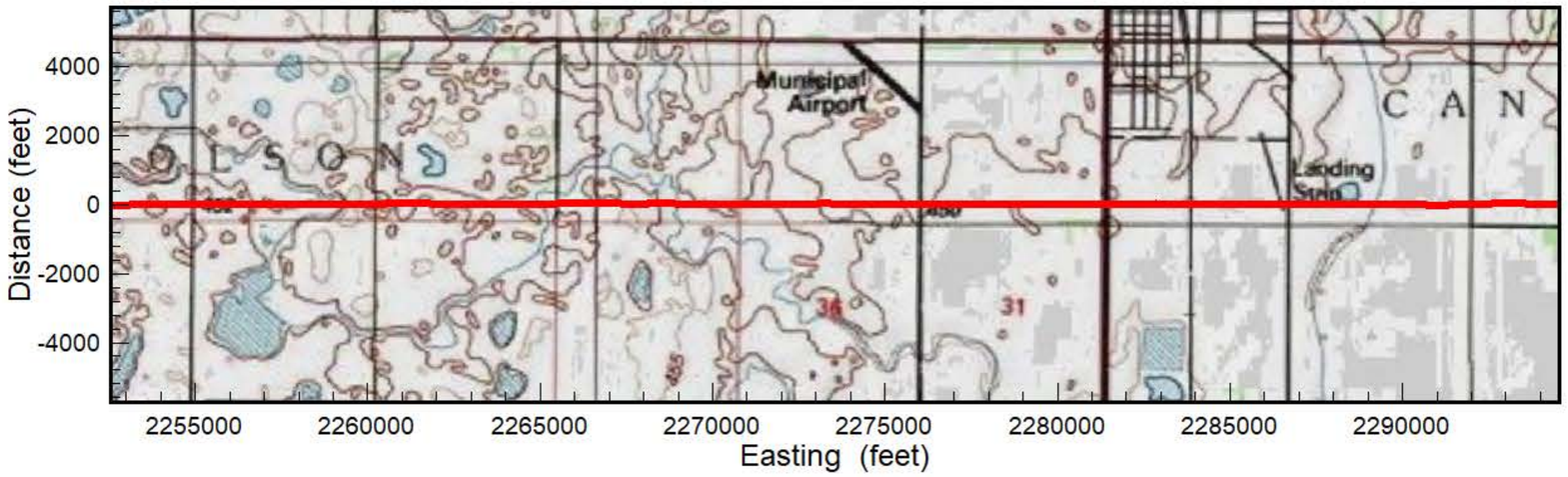
Flight Area Towner



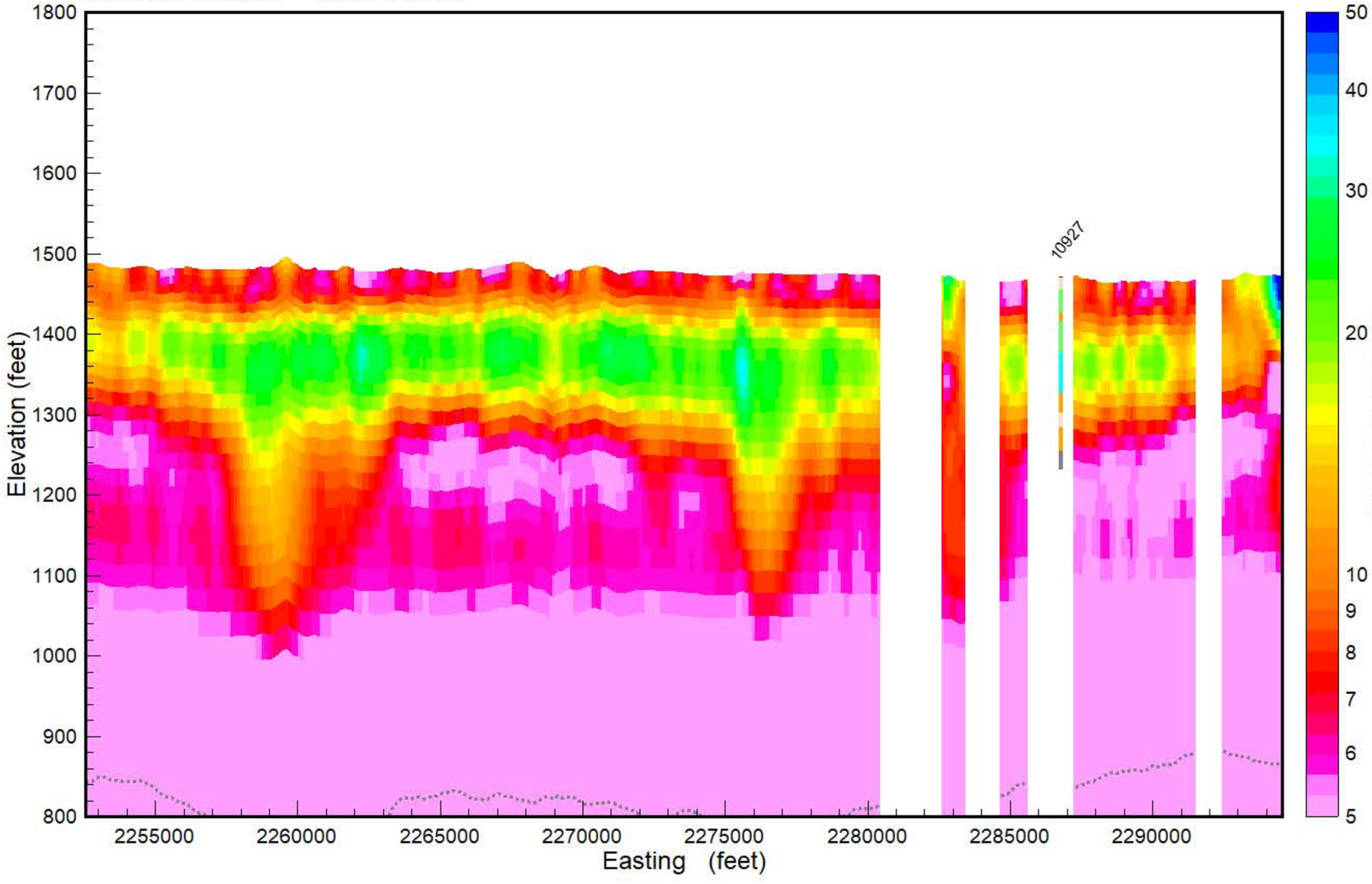
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SAND
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SILT
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NOSAMPLE

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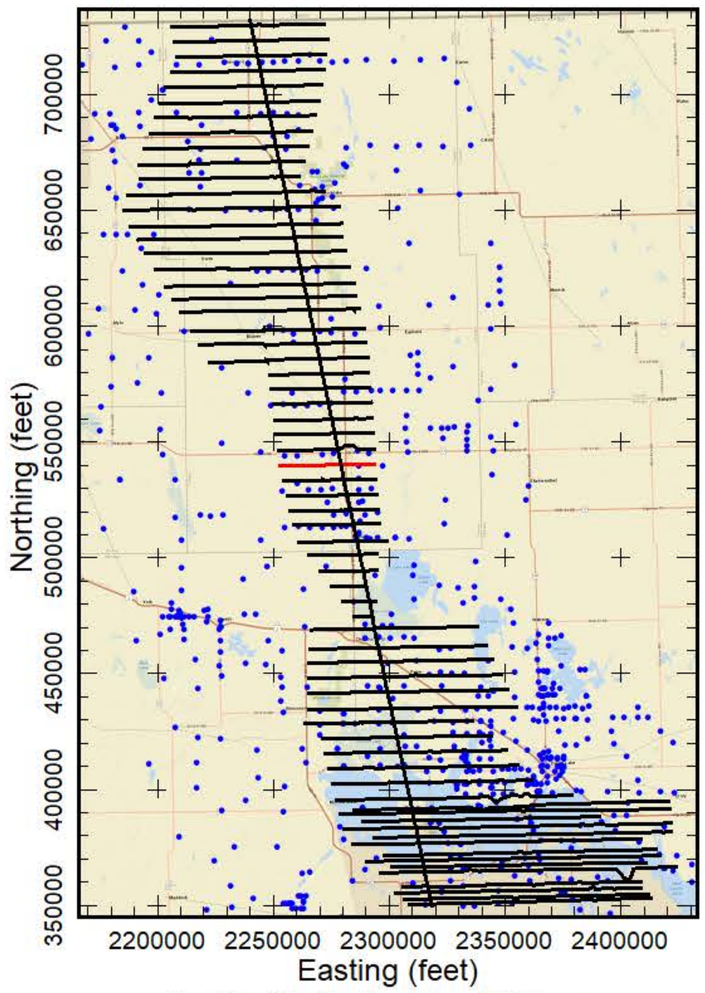
Flight Path Line L1290



AEM Inversion Line L1290



Flight Area Towner



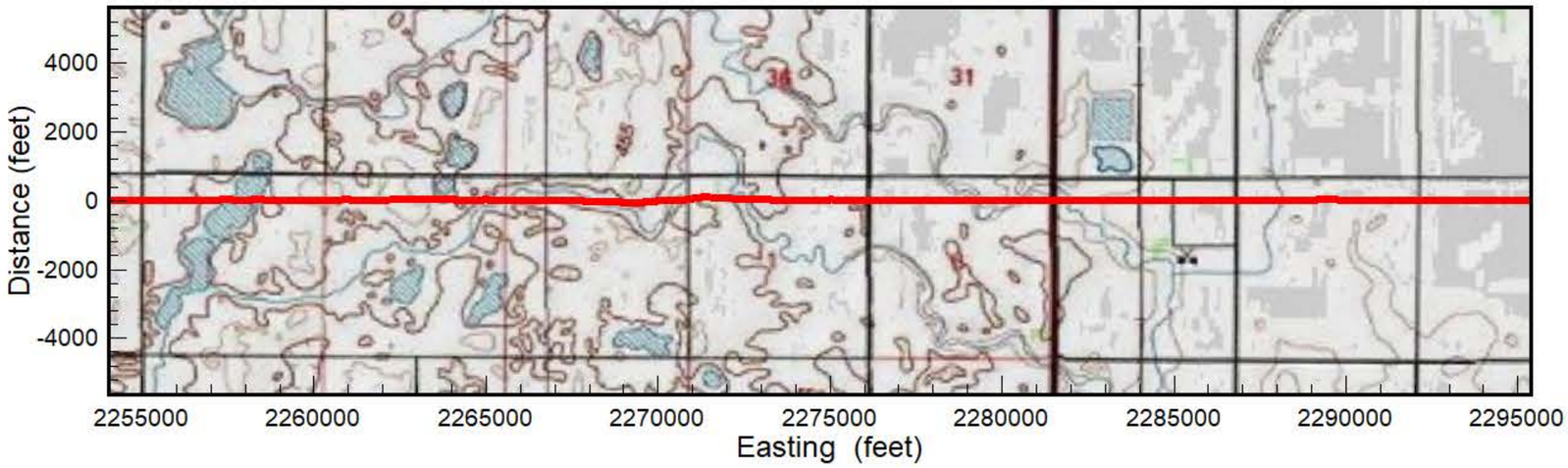
NORTH Dakota Be Legendary. | Water Commission & State Engineer

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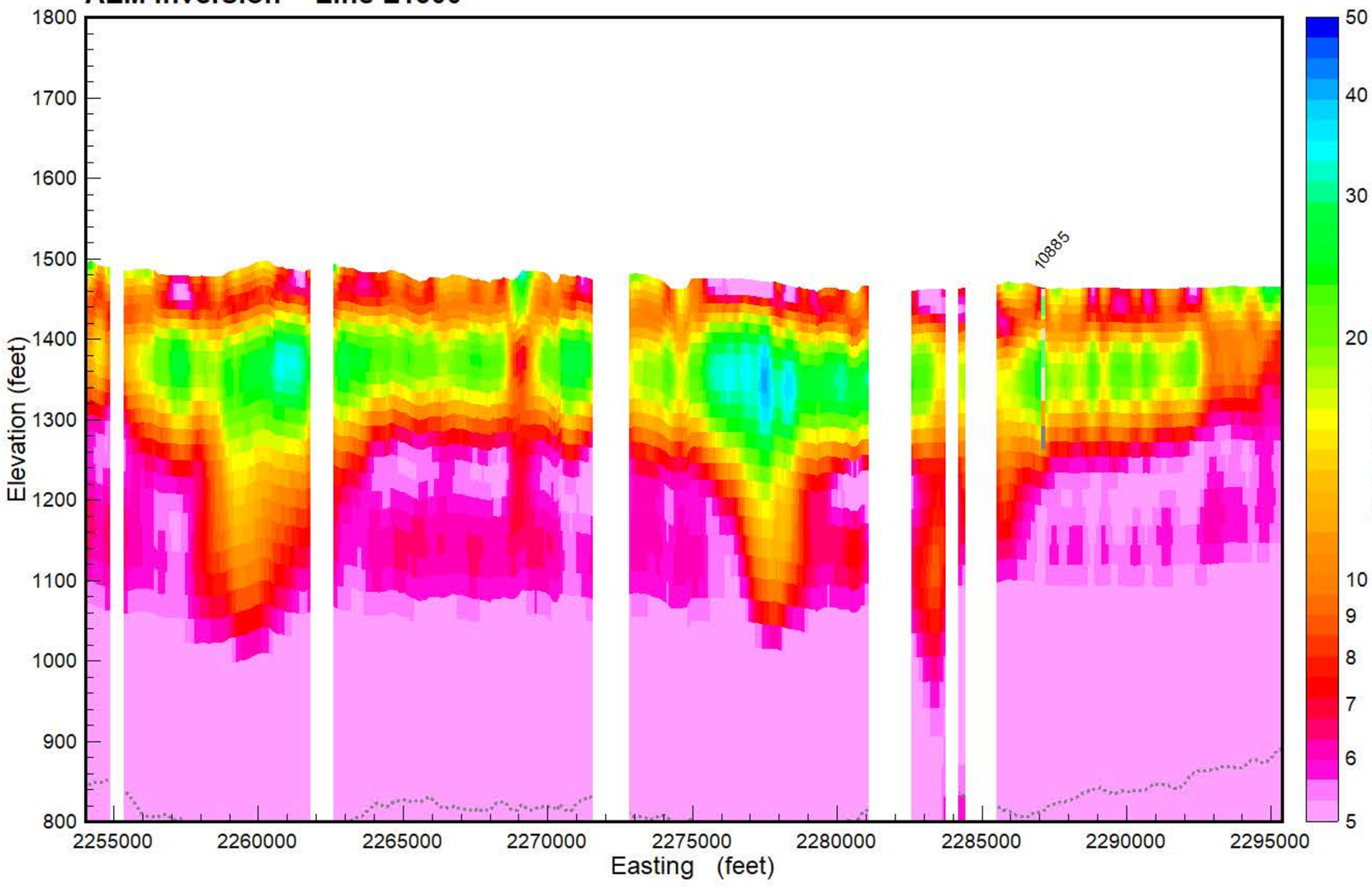
GEOTECH

AGF Aqua Geo Frameworks

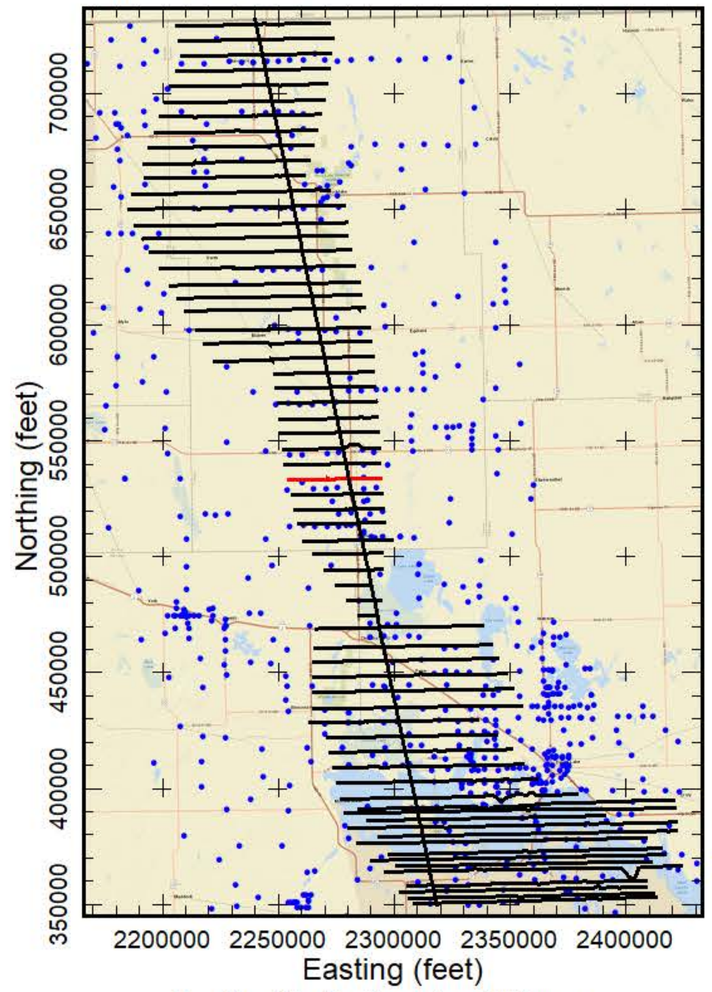
Flight Path Line L1300



AEM Inversion Line L1300



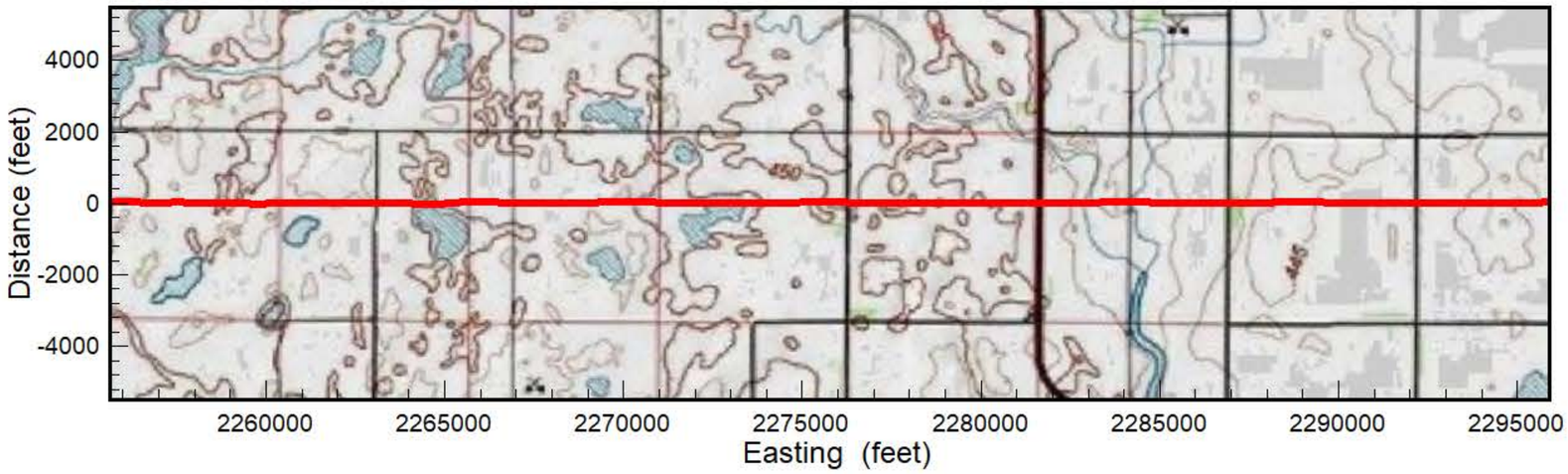
Flight Area Towner



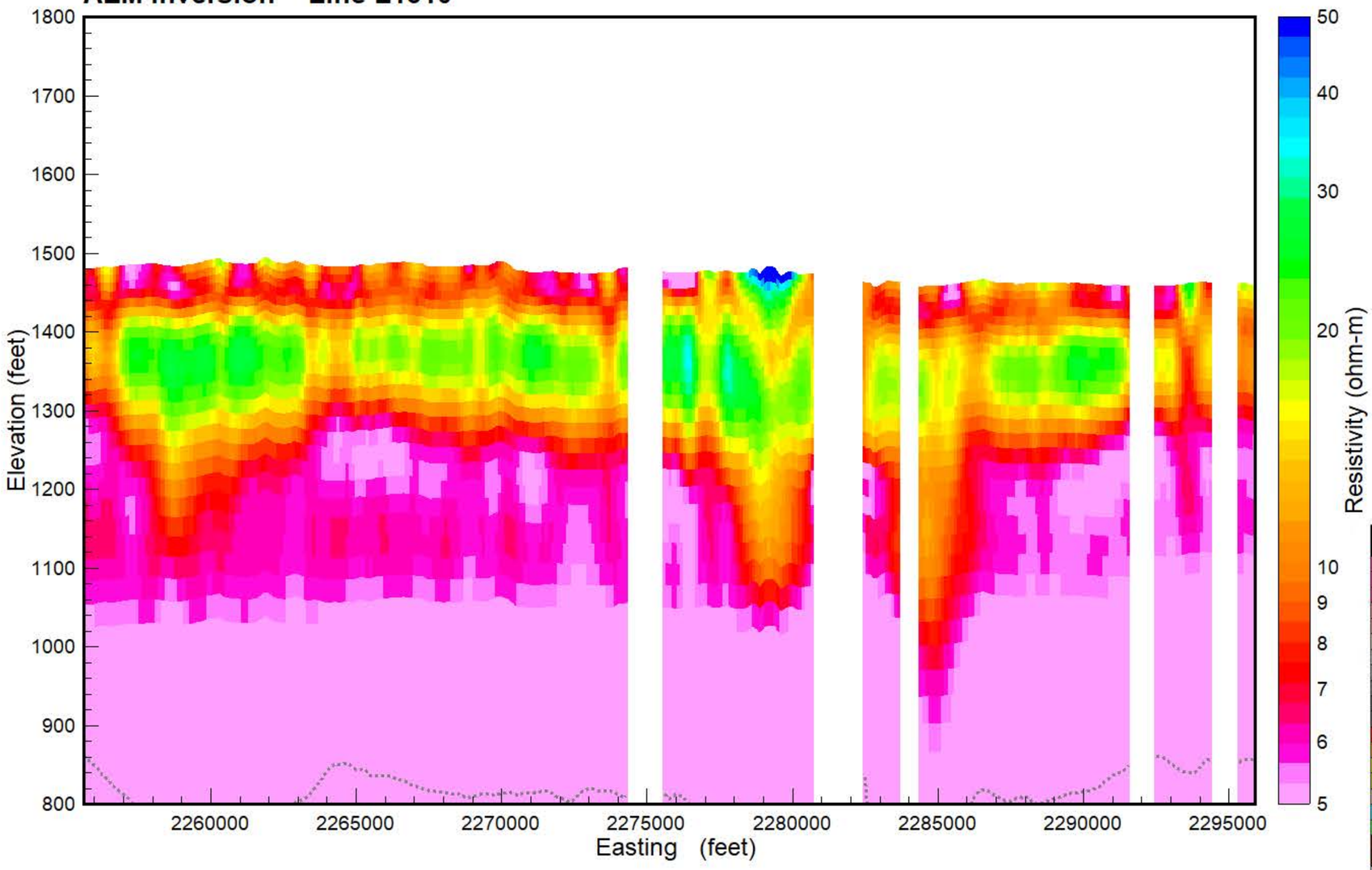
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SAND
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Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

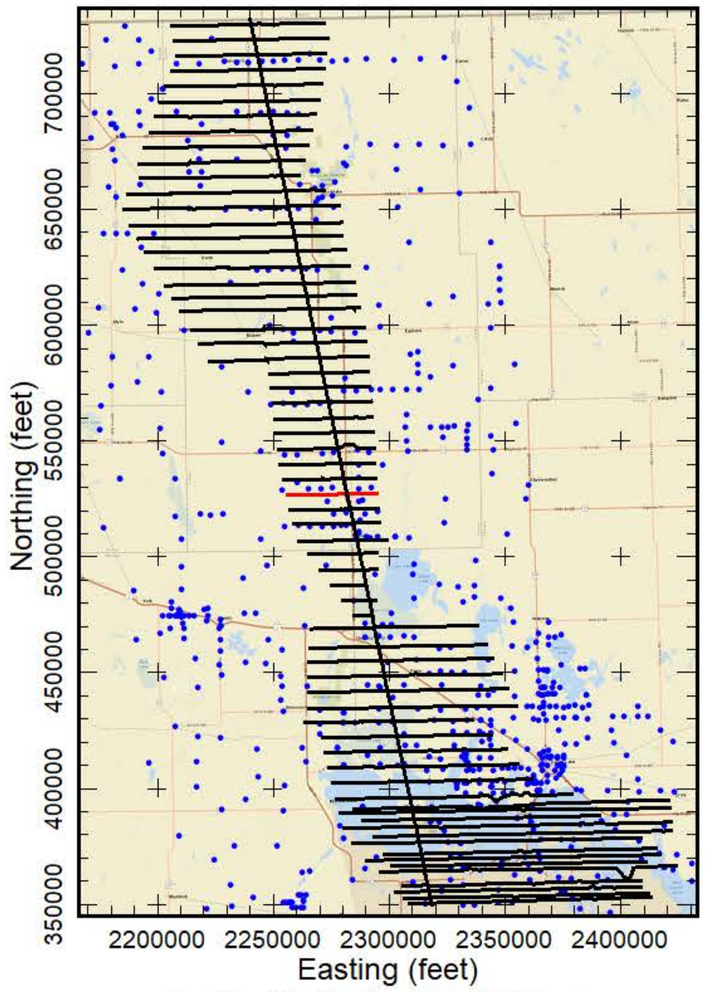
Flight Path Line L1310



AEM Inversion Line L1310



Flight Area Towner



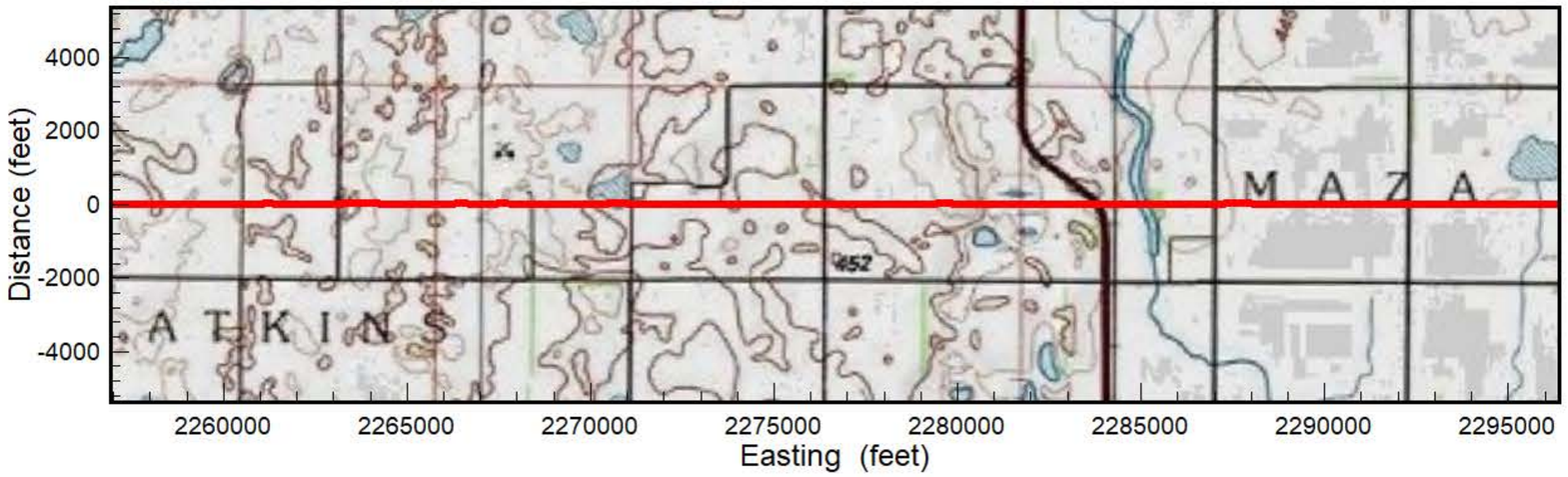
NORTH Dakota | Water Commission & State Engineer

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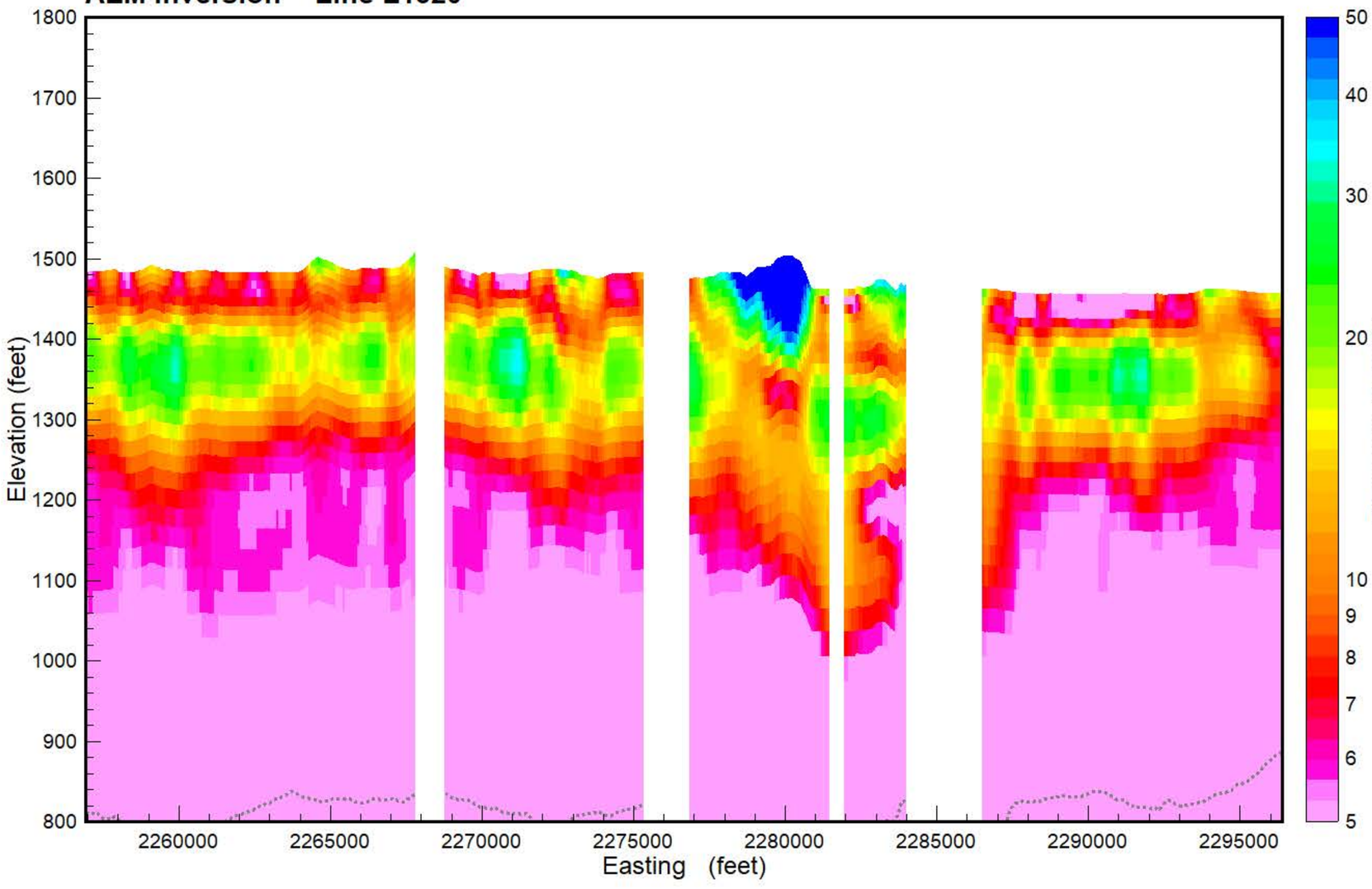
GEOTECH

AGF Aqua Geo Frameworks

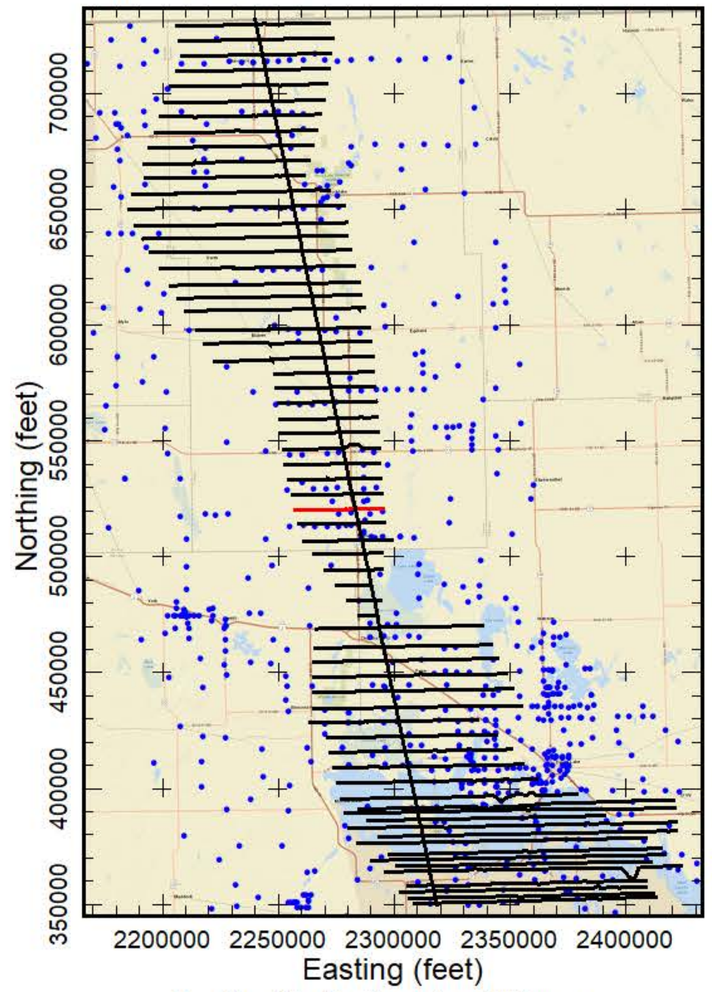
Flight Path Line L1320

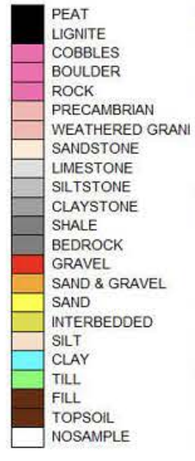


AEM Inversion Line L1320



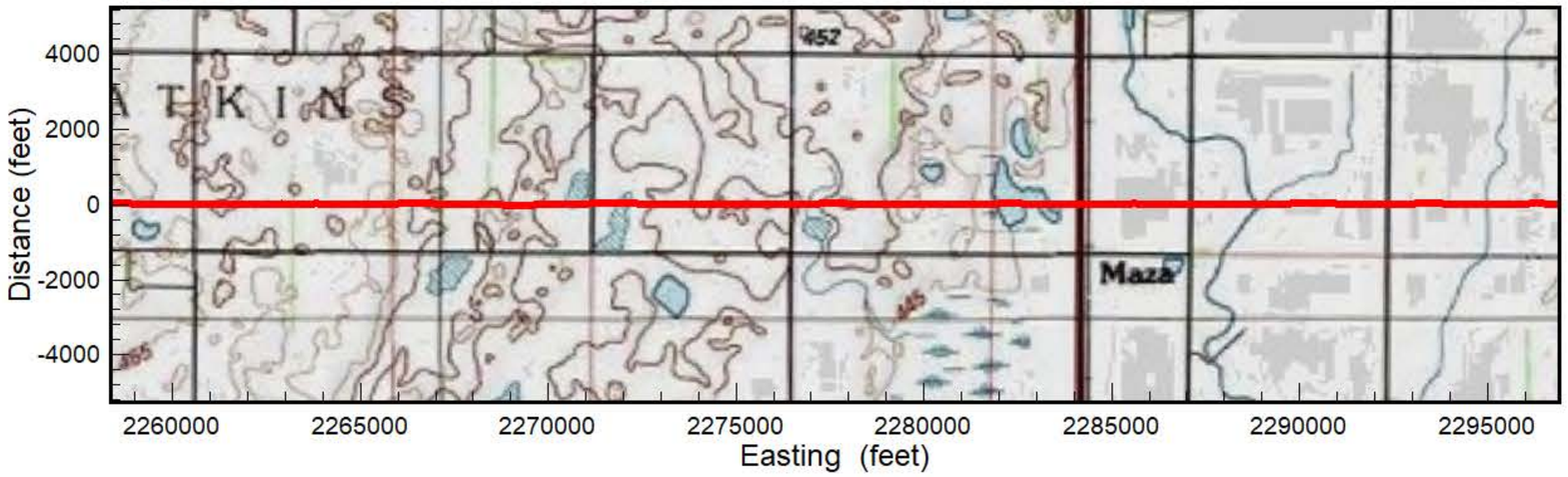
Flight Area Towner



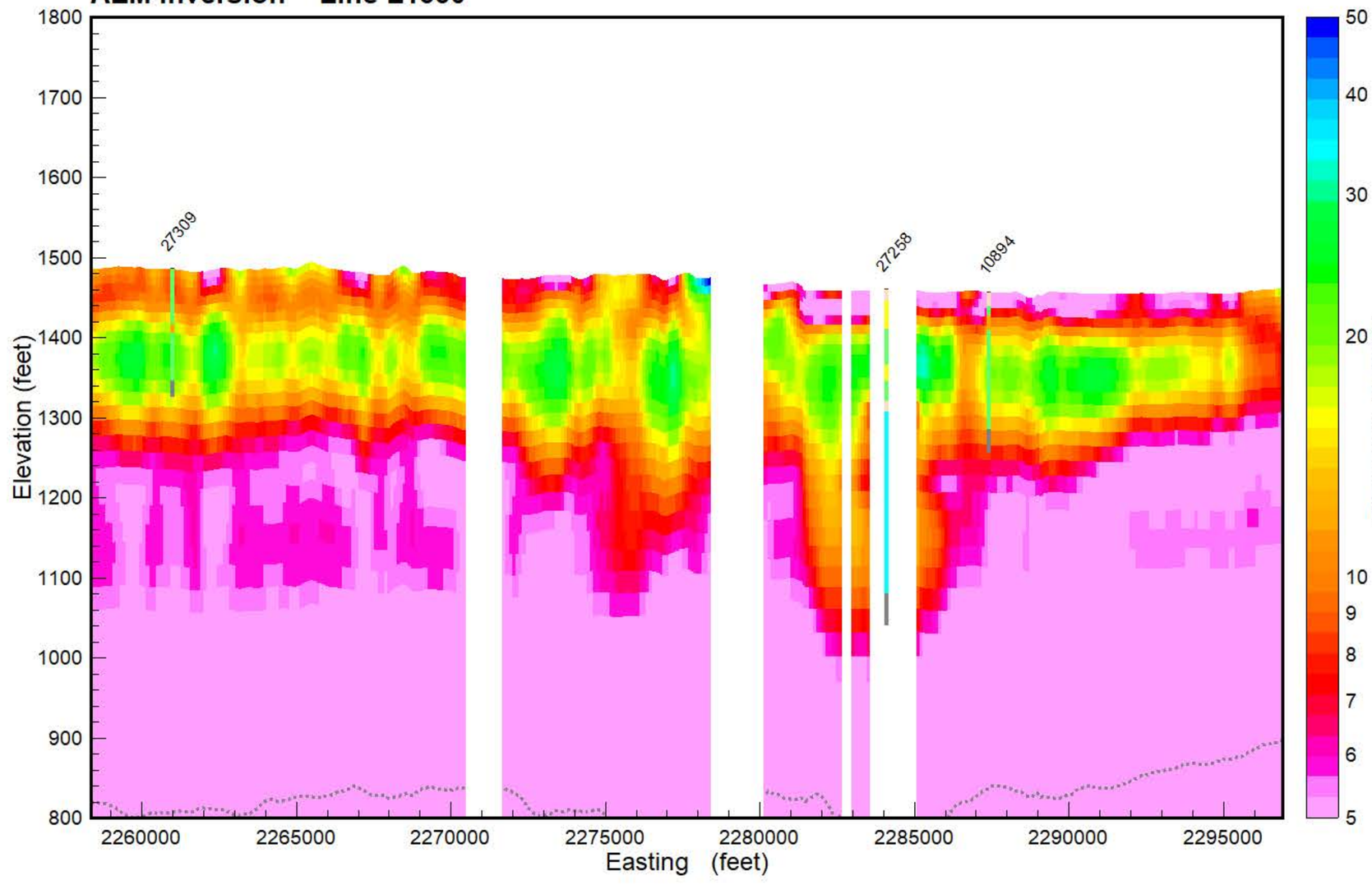


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

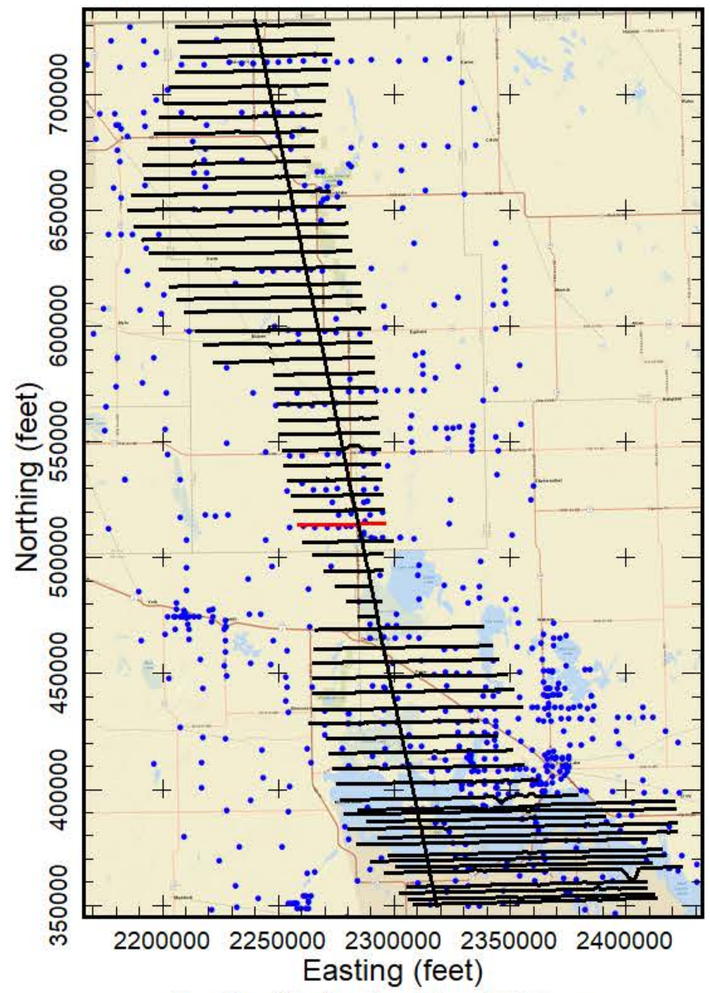
Flight Path Line L1330



AEM Inversion Line L1330



Flight Area Towner



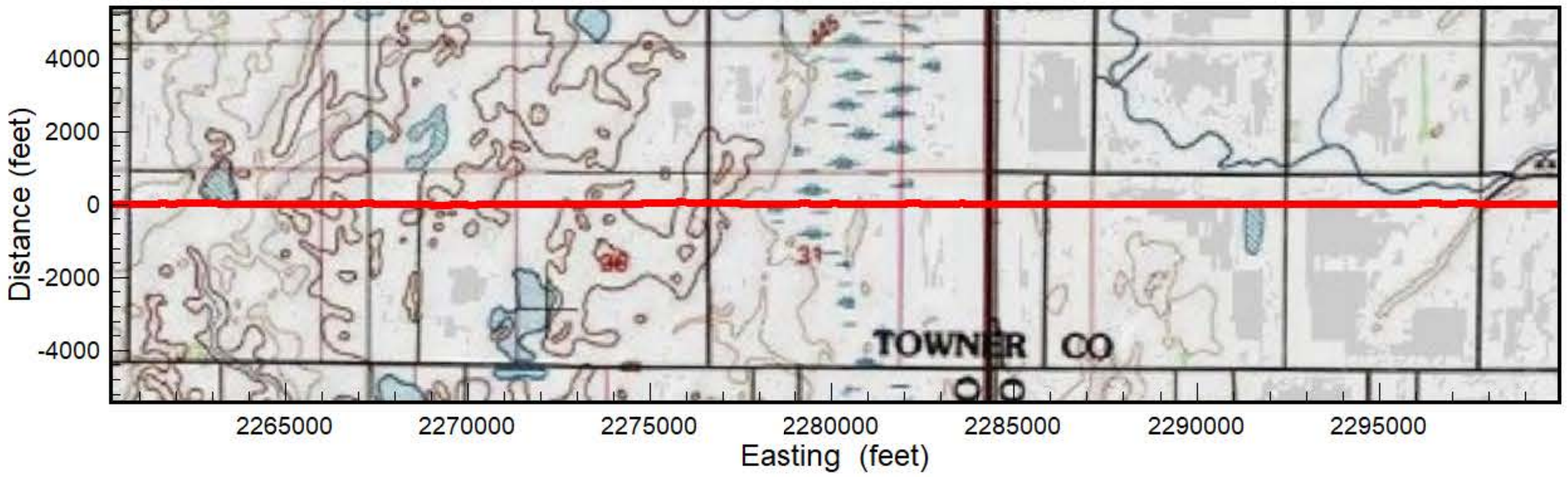
NORTH Dakota Water Commission & State Engineer

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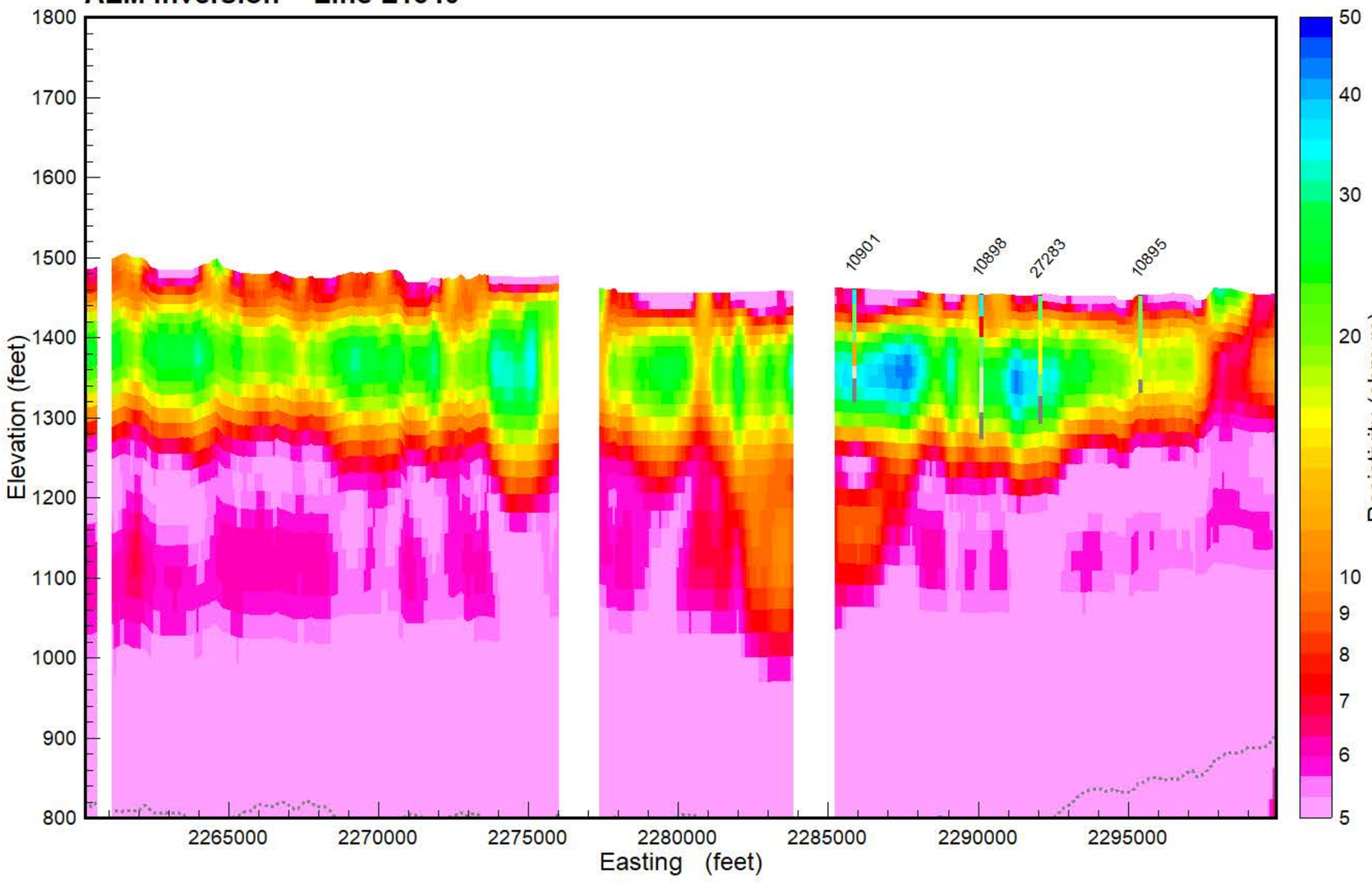
GEOTECH

AGF Aqua Geo Frameworks

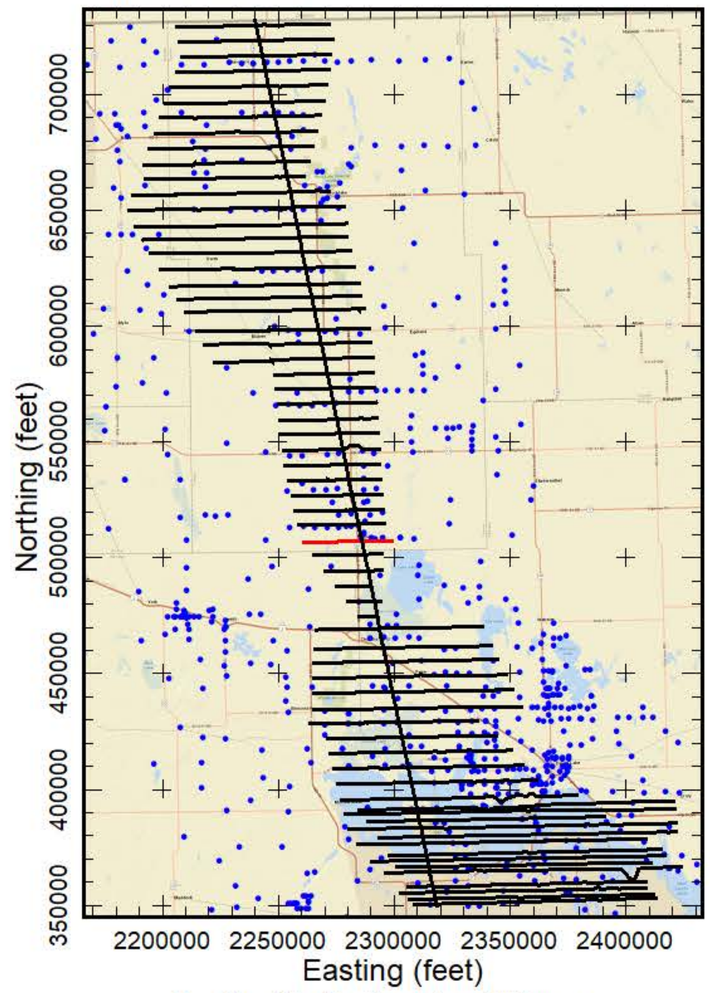
Flight Path Line L1340



AEM Inversion Line L1340



Flight Area Towner



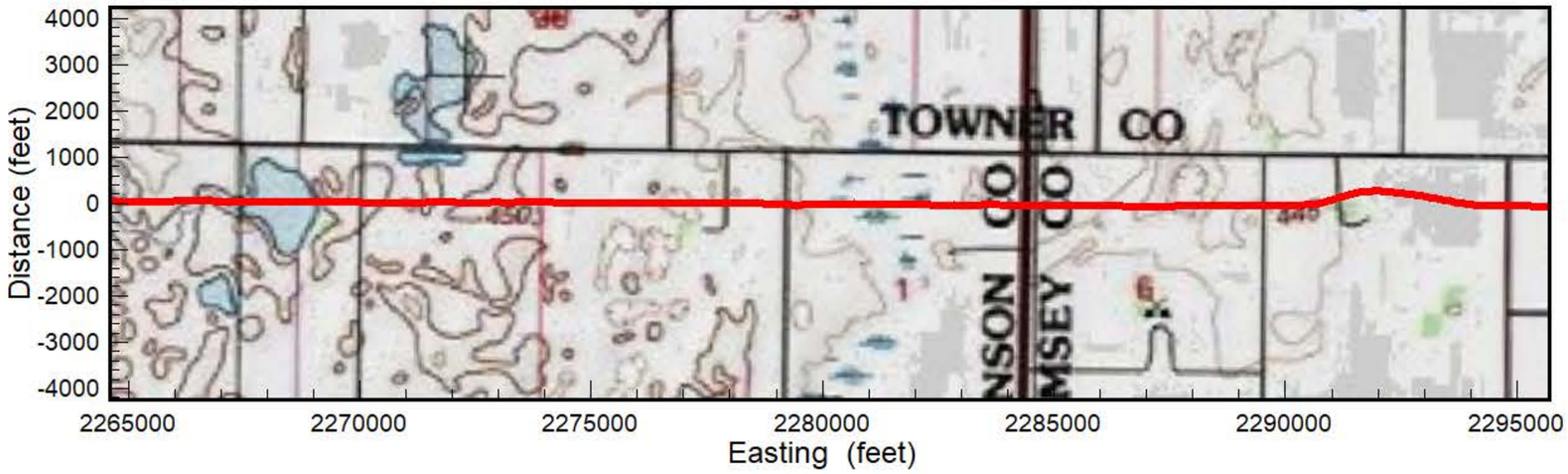
NORTH Dakota | Water Commission & State Engineer

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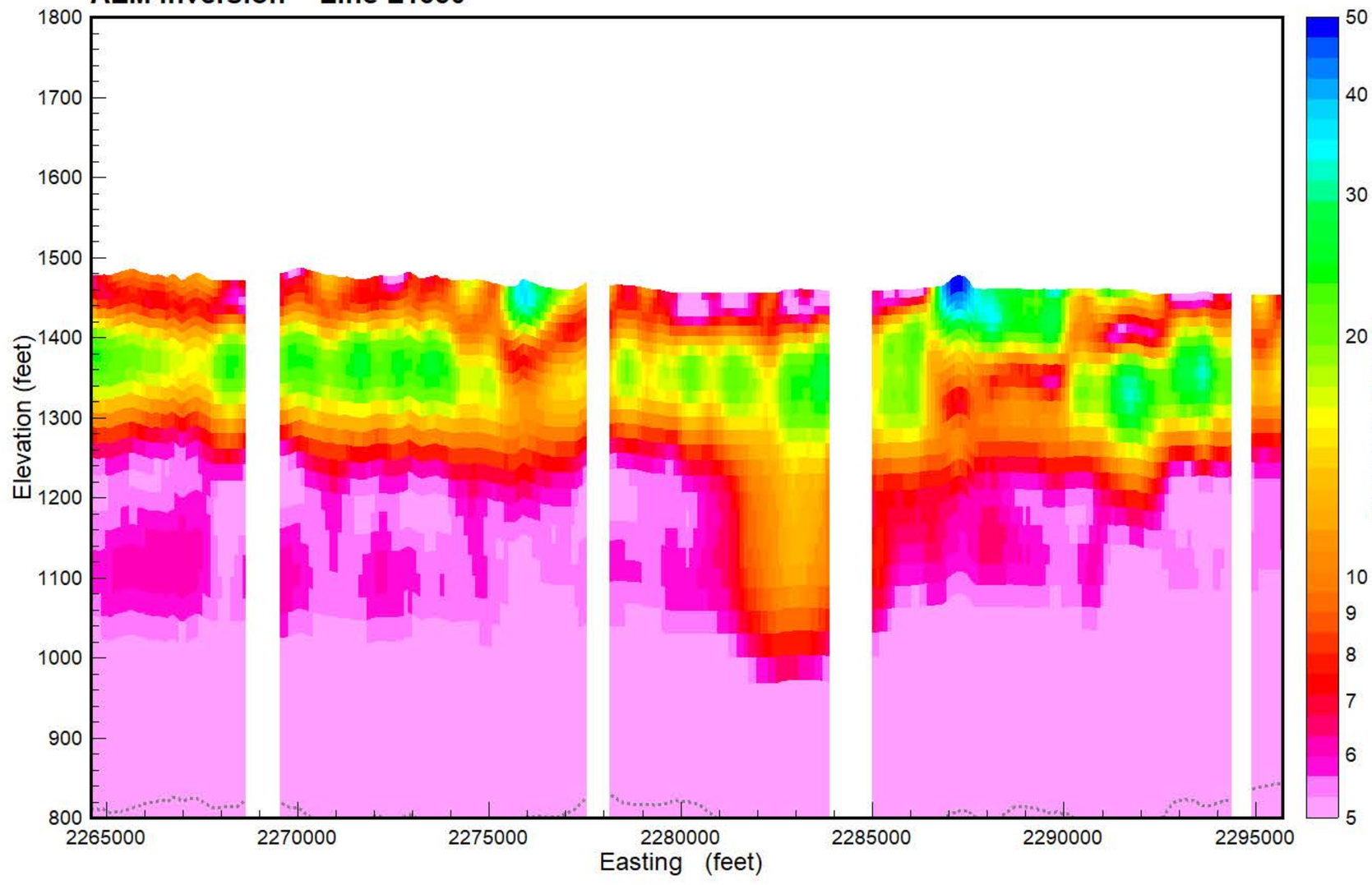
GEOTECH

AGF Aqua Geo Frameworks

Flight Path Line L1350

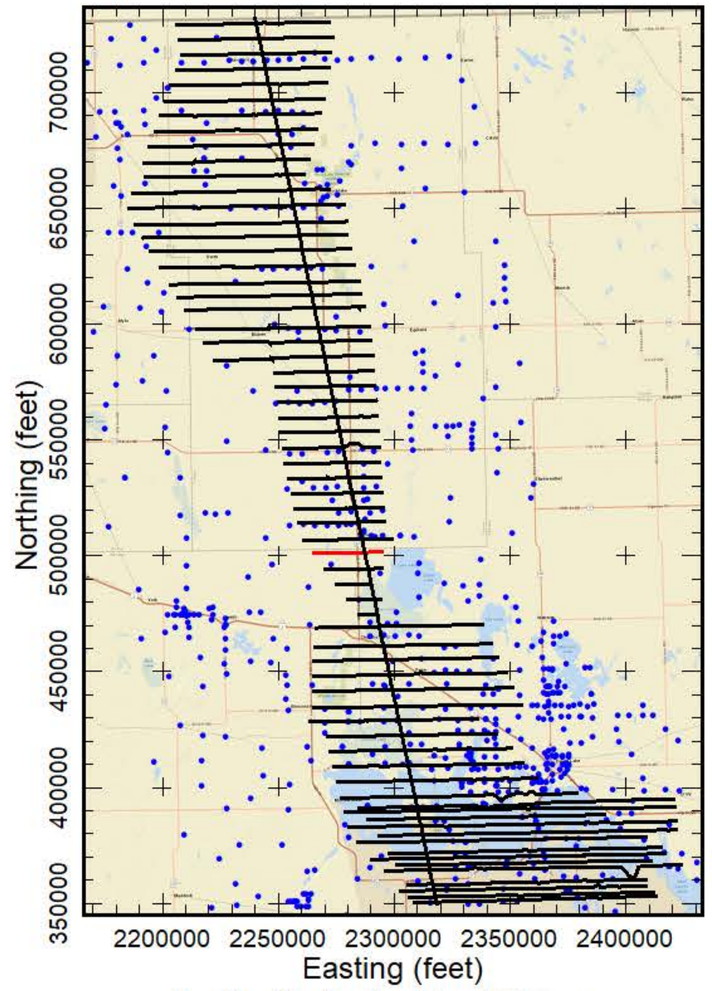


AEM Inversion Line L1350



Flight Area Towner

NORTH Dakota Be Legendary. | Water Commission & State Engineer

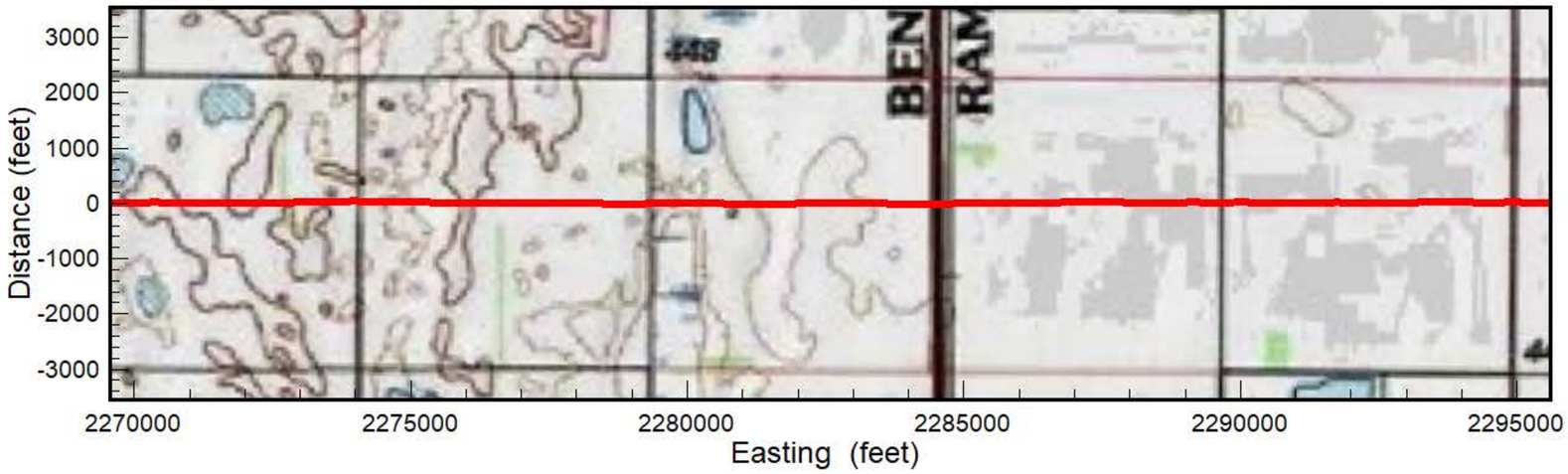


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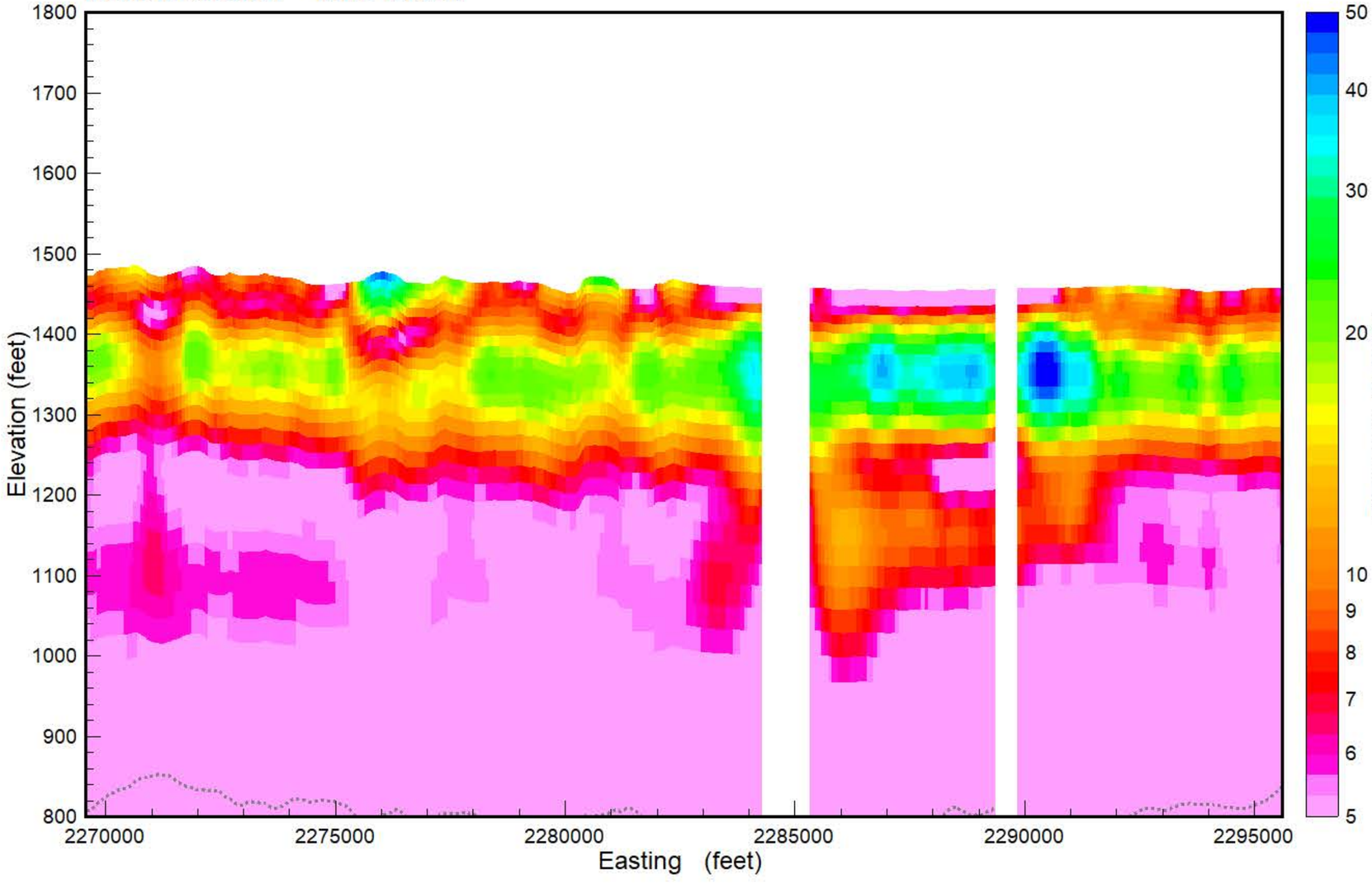
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- LIGNITE
- COBBLES
- BOULDER
- ROCK
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- WEATHERED GRANI
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- SHALE
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- GRAVEL
- SAND & GRAVEL
- SAND
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- TOPSOIL
- NOSAMPLE

GEOTECH AGF Aqua Geo Frameworks

Flight Path Line L1360

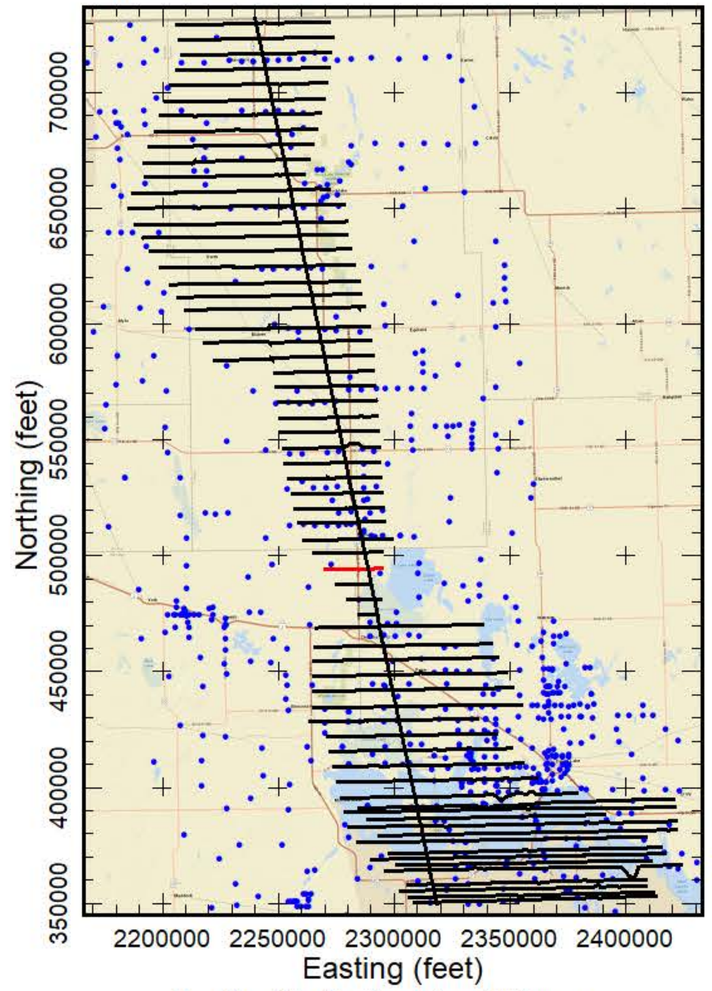


AEM Inversion Line L1360



NORTH Dakota | Water Commission & State Engineer

Flight Area Towner

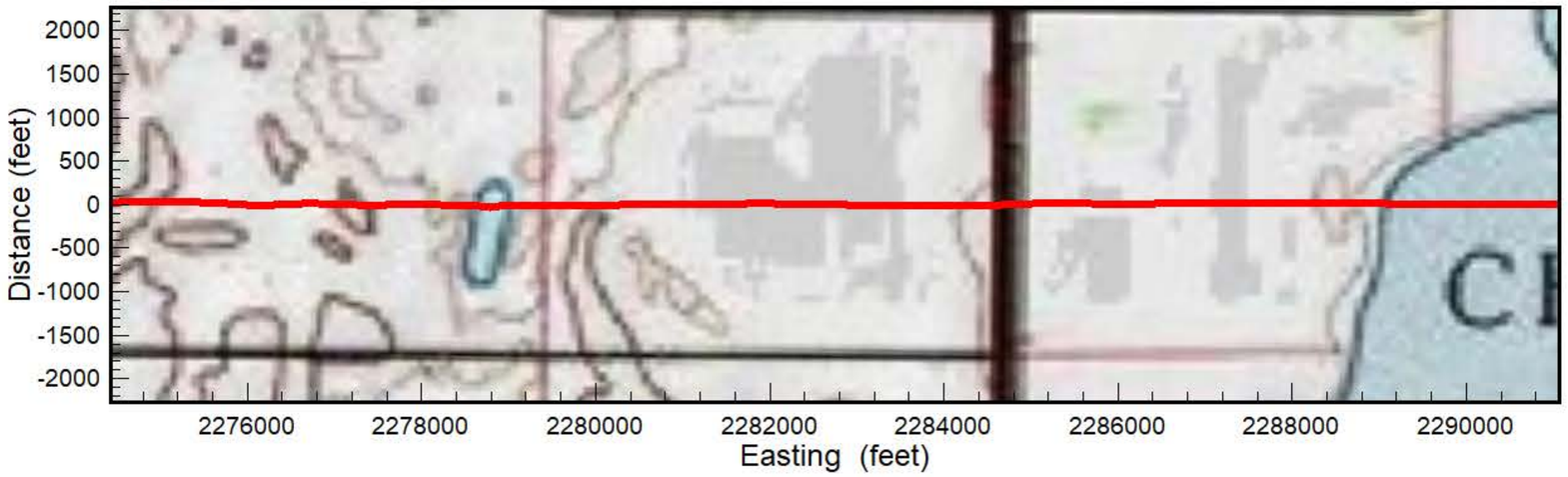


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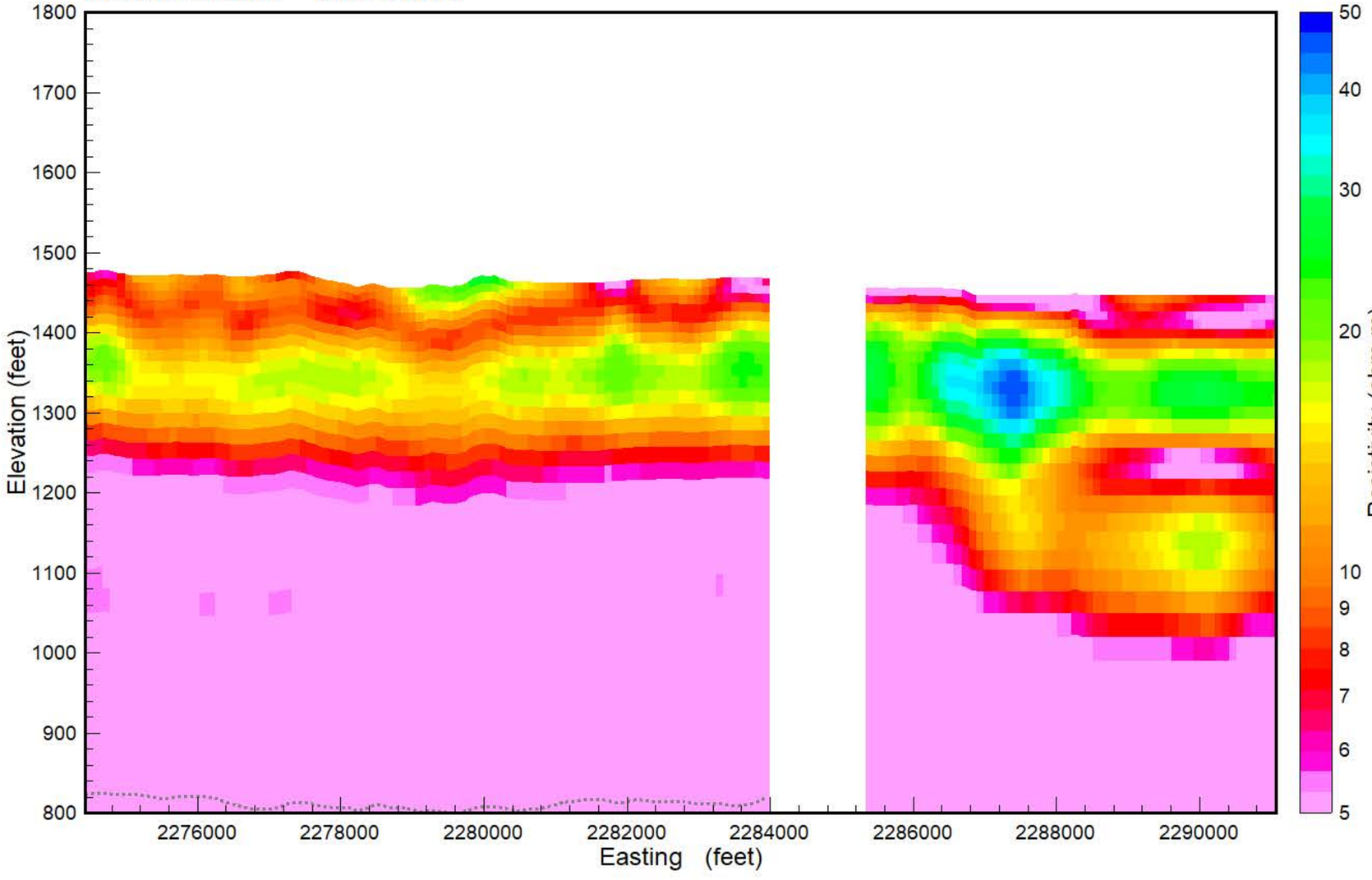
- PEAT
- LIGNITE
- COBBLES
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- TOPSOIL
- NOSAMPLE

GEOTECH AGF Aqua Geo Frameworks

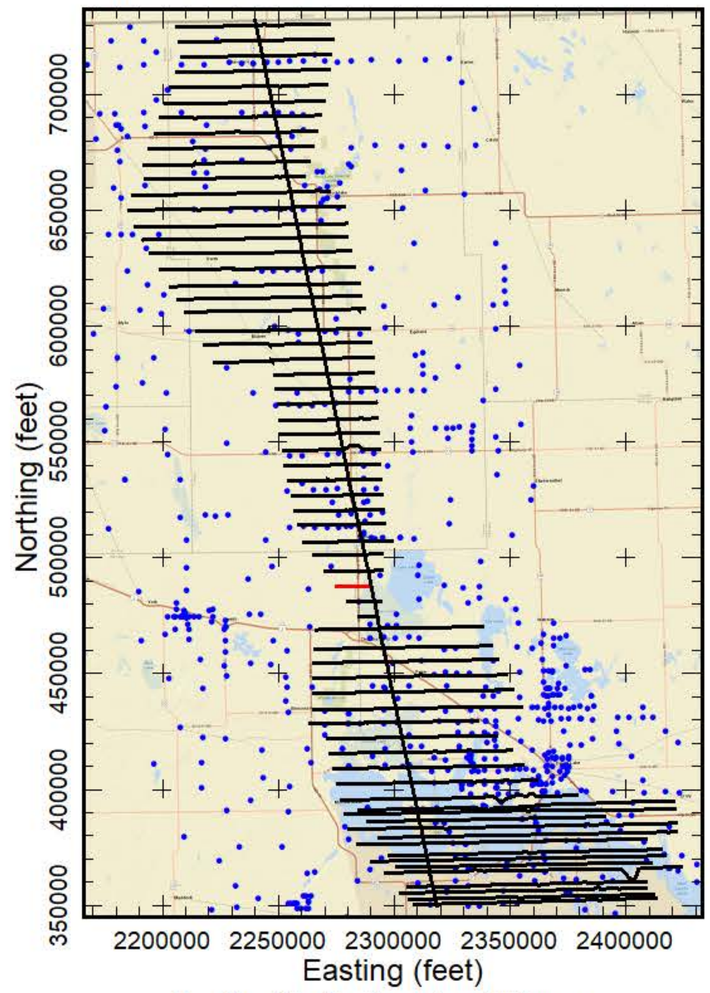
Flight Path Line L1370



AEM Inversion Line L1370



Flight Area Towner



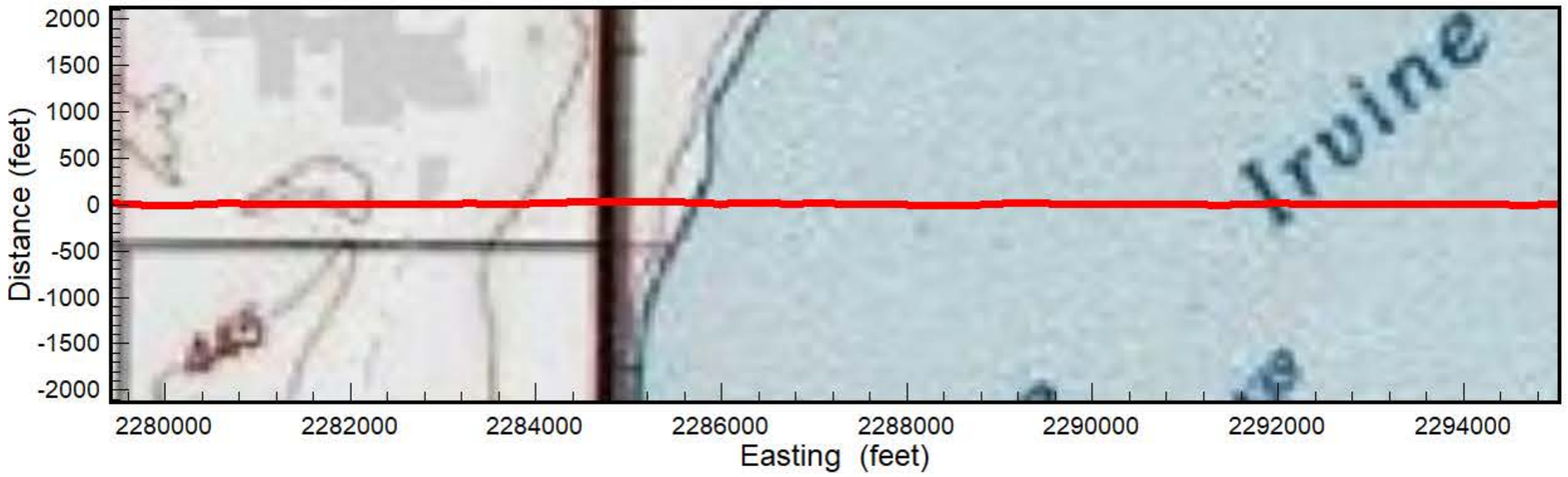
NORTH Dakota | Water Commission & State Engineer

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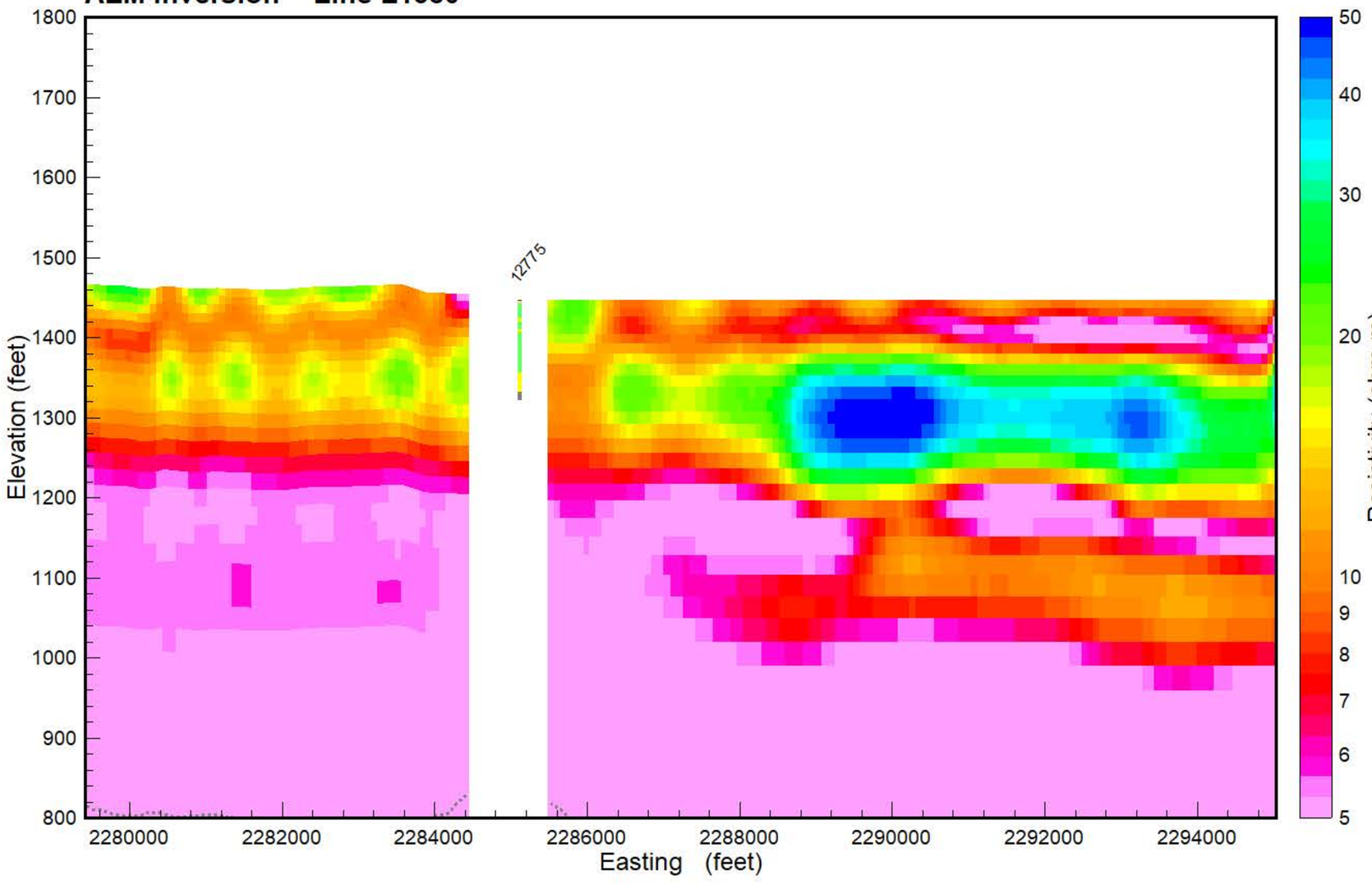
GEOTECH

AGF Aqua Geo Frameworks

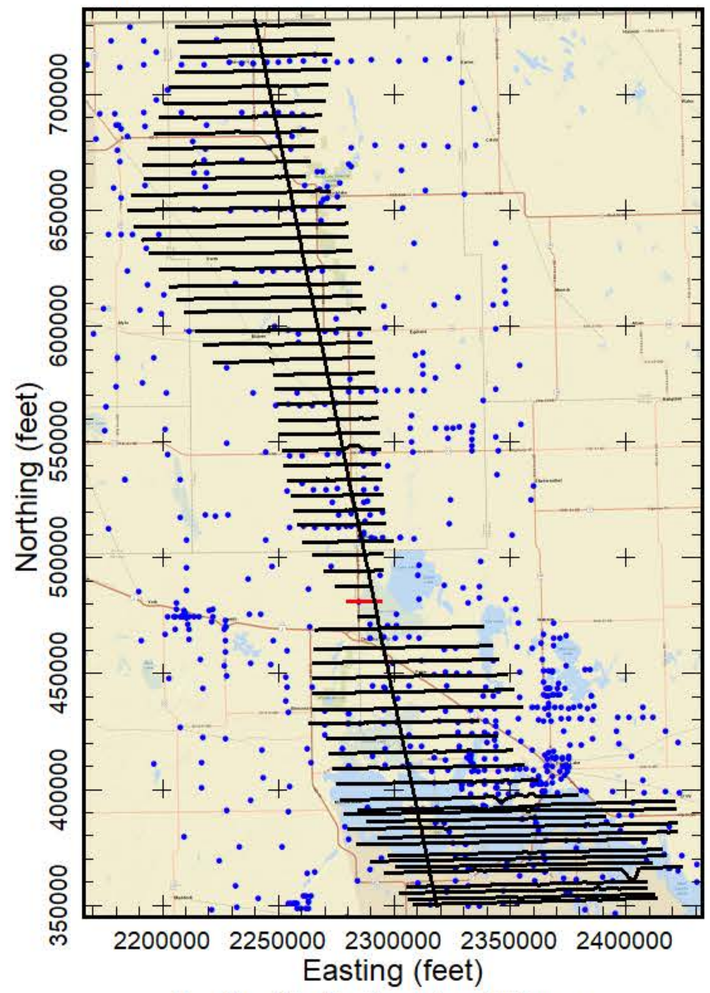
Flight Path Line L1380



AEM Inversion Line L1380



Flight Area Towner



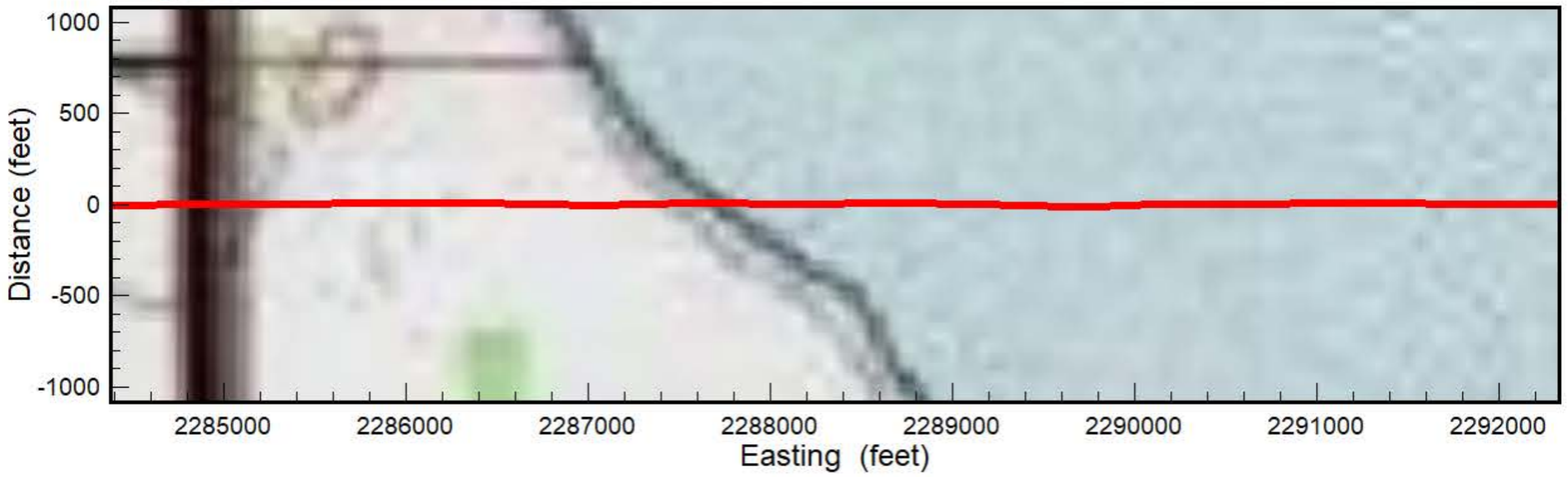
NORTH Dakota | Water Commission & State Engineer

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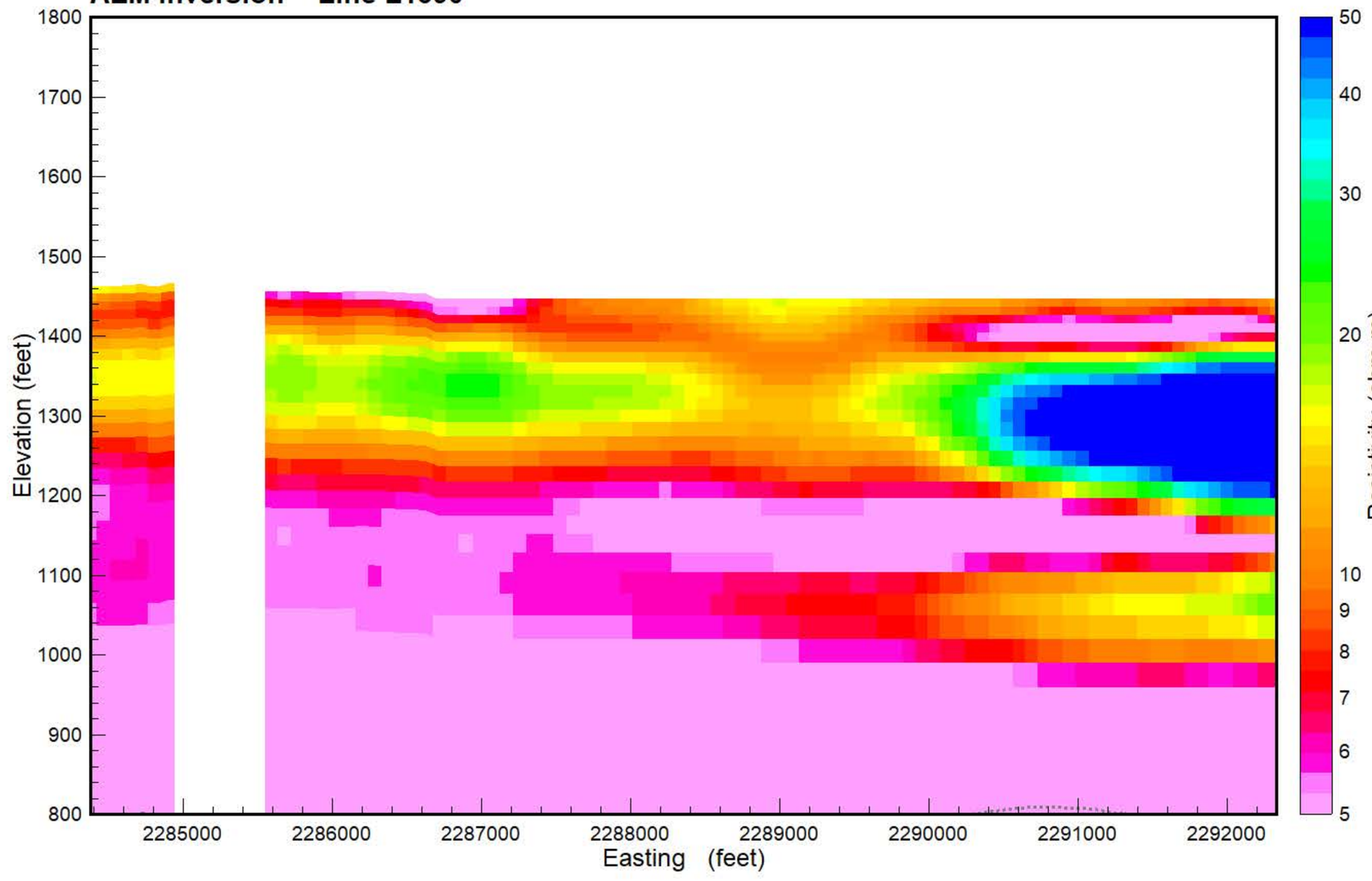
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AGF Aqua Geo Frameworks

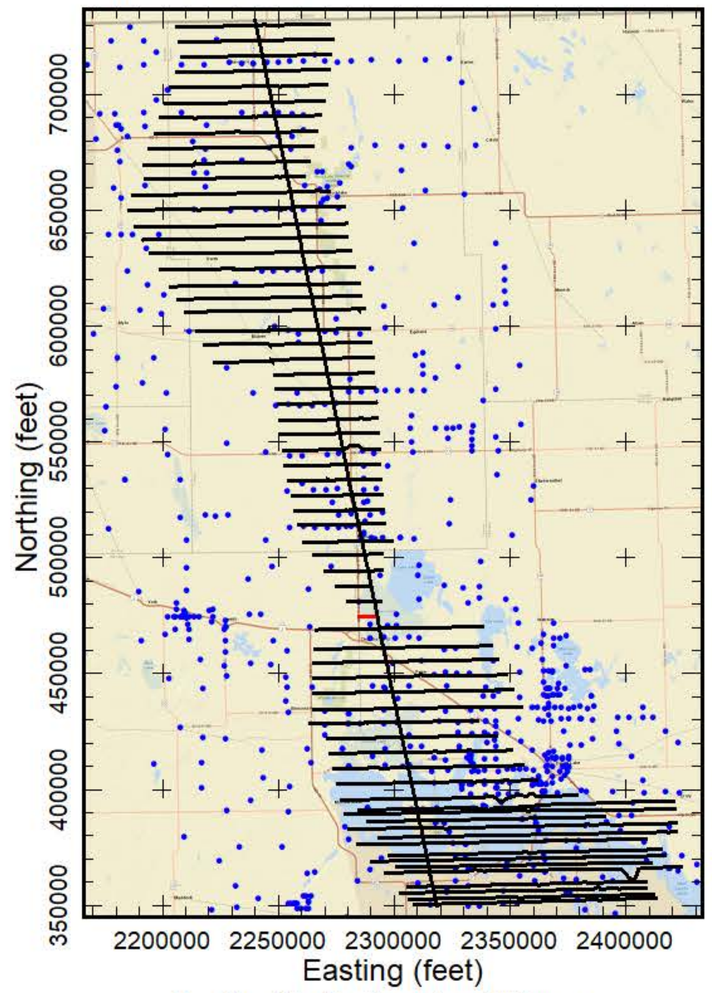
Flight Path Line L1390



AEM Inversion Line L1390



Flight Area Towner



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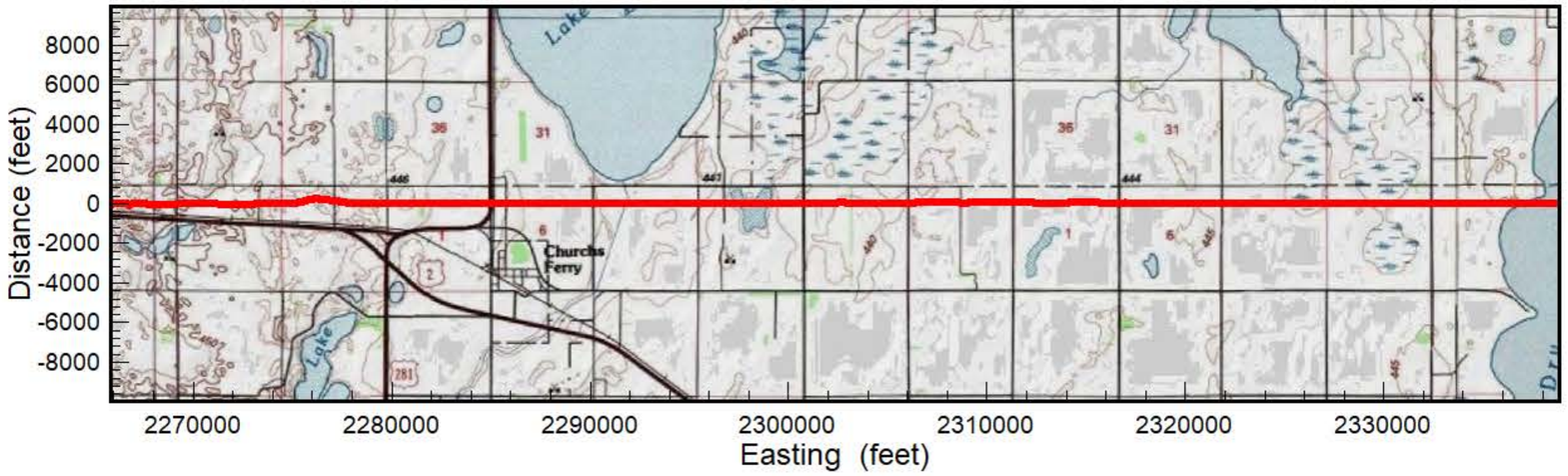
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SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

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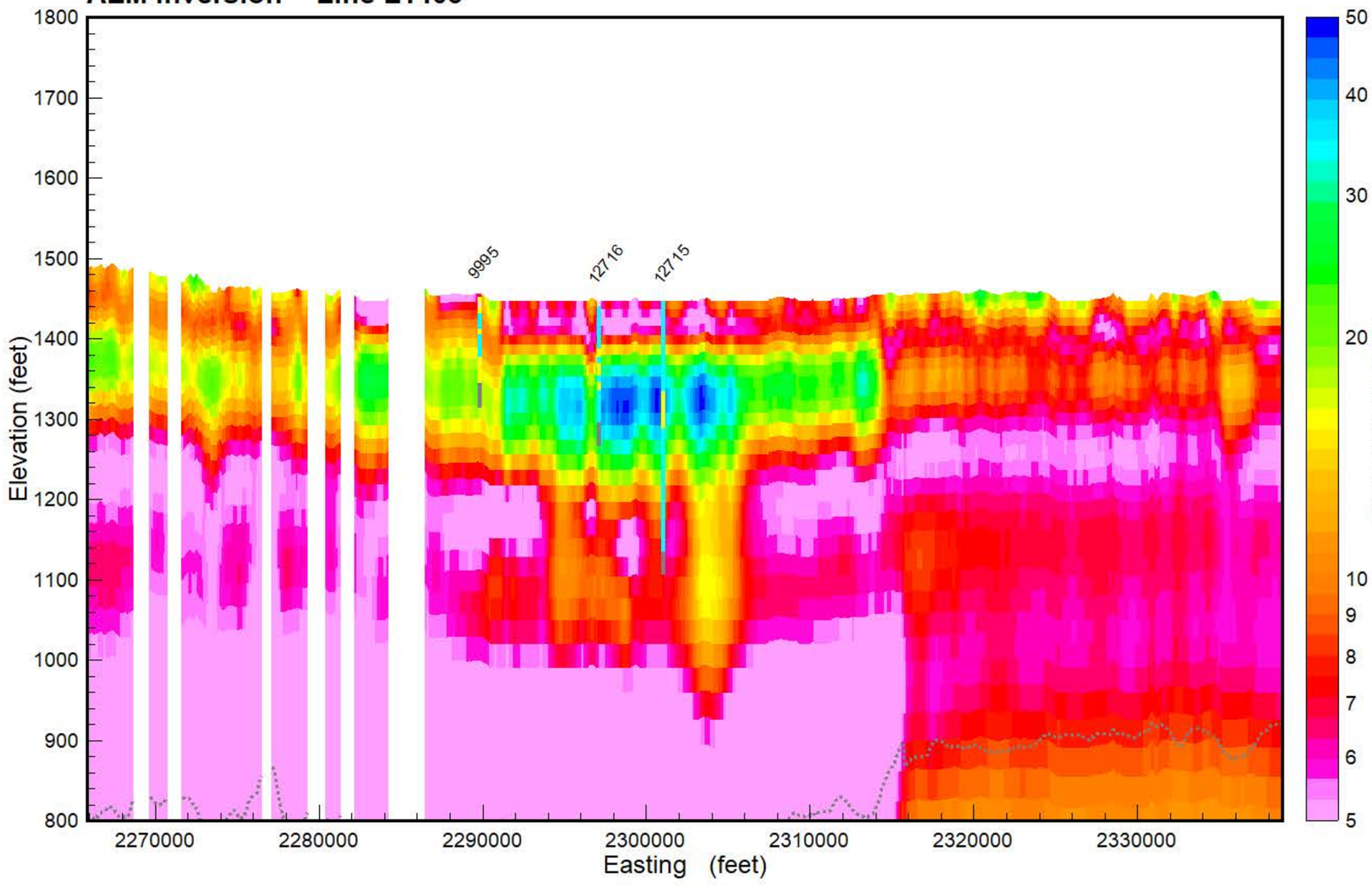
GEOTECH

AGF Aqua Geo Frameworks

Flight Path Line L1405

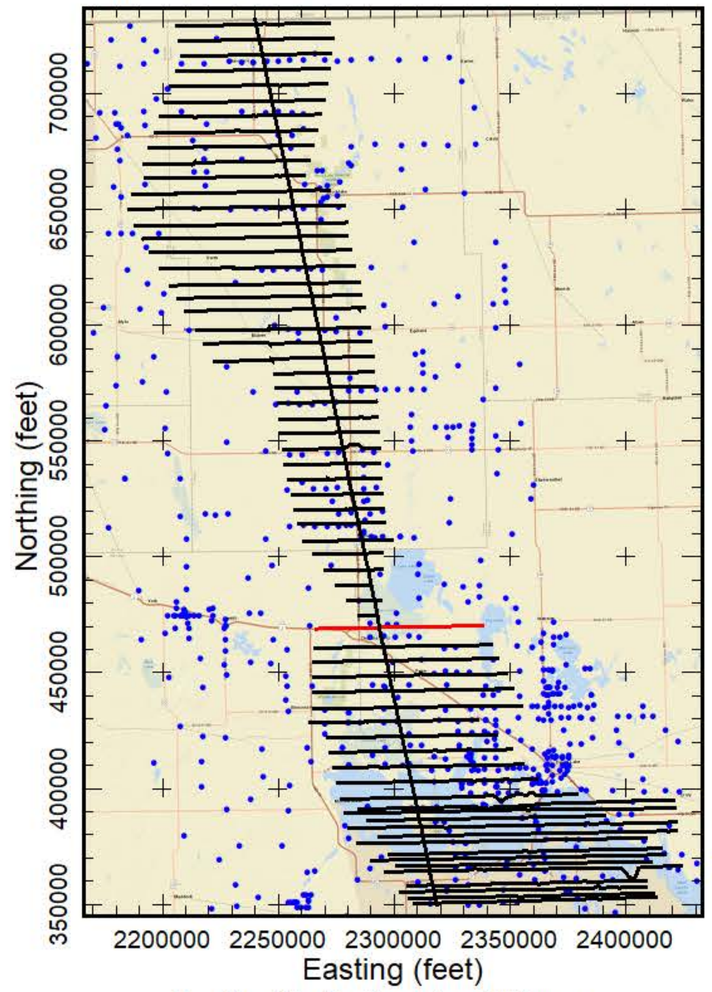


AEM Inversion Line L1405



NORTH Dakota | Water Commission & State Engineer

Flight Area Towner



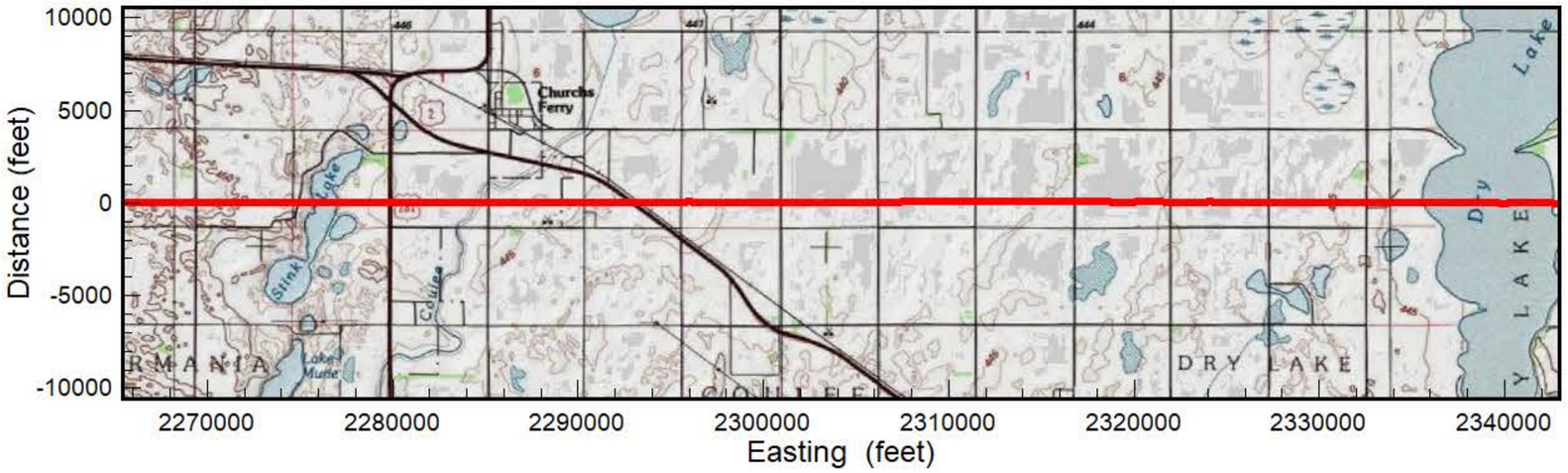
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SHALE
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SAND
INTERBEDDED
SILT
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TILL
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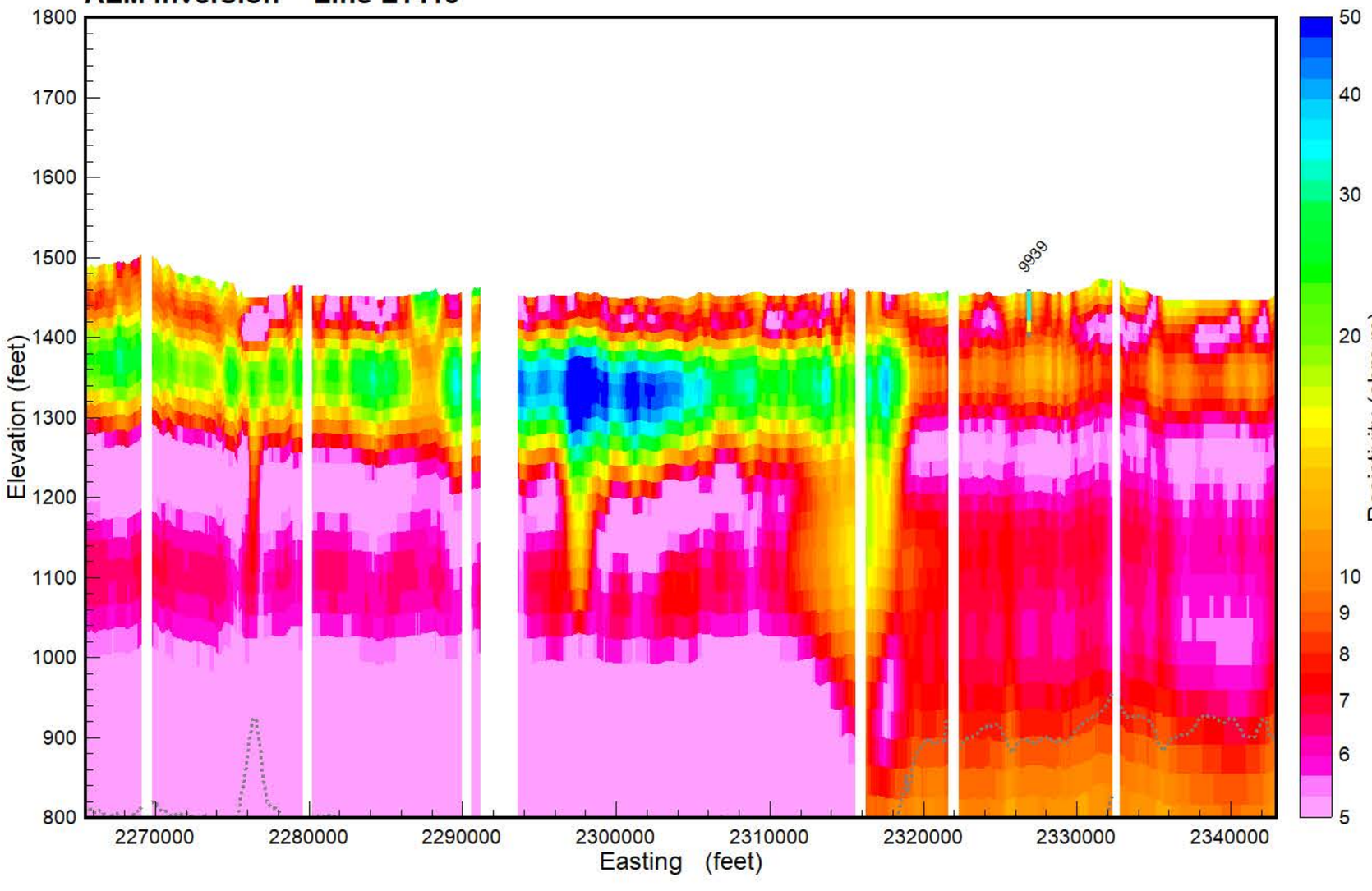
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AGF Aqua Geo Frameworks

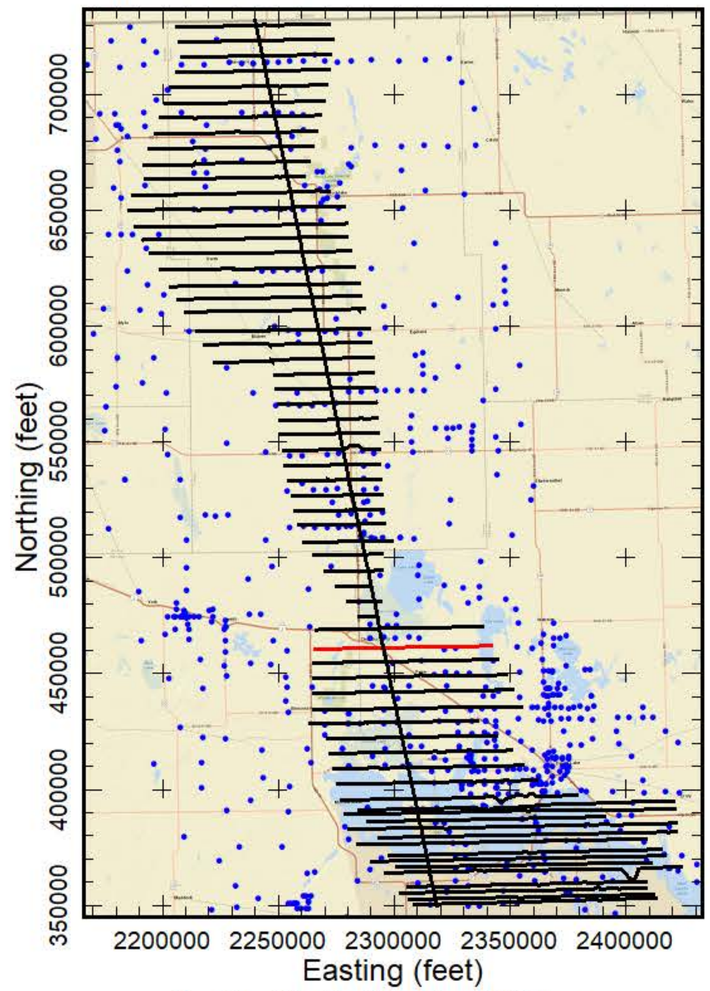
Flight Path Line L1415



AEM Inversion Line L1415



Flight Area Towner



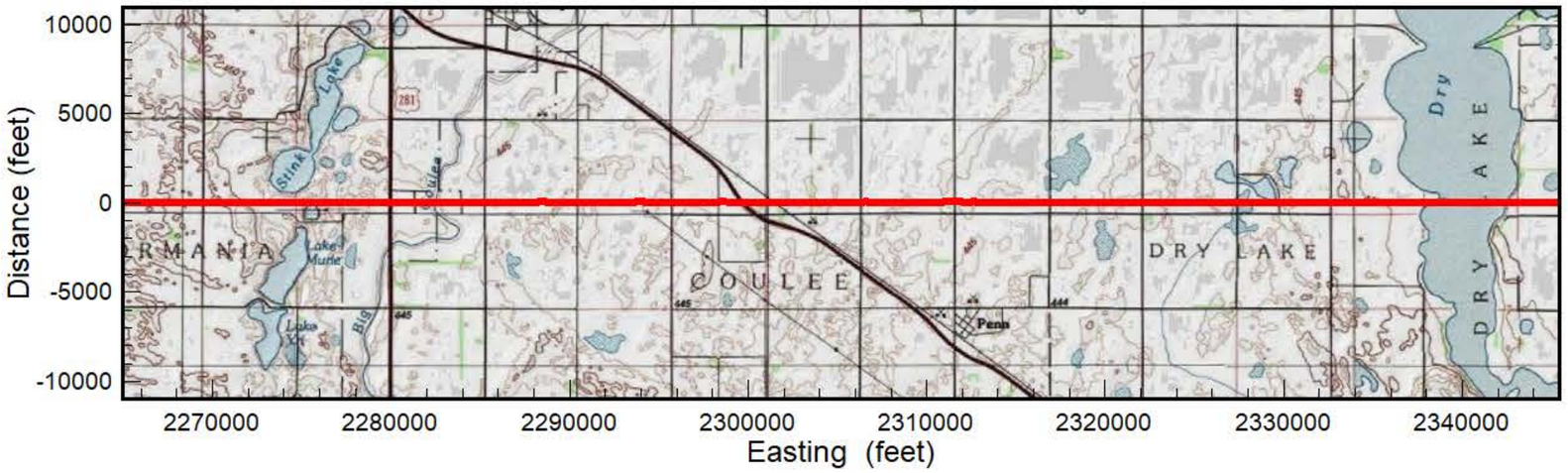
NORTH Dakota | Water Commission & State Engineer

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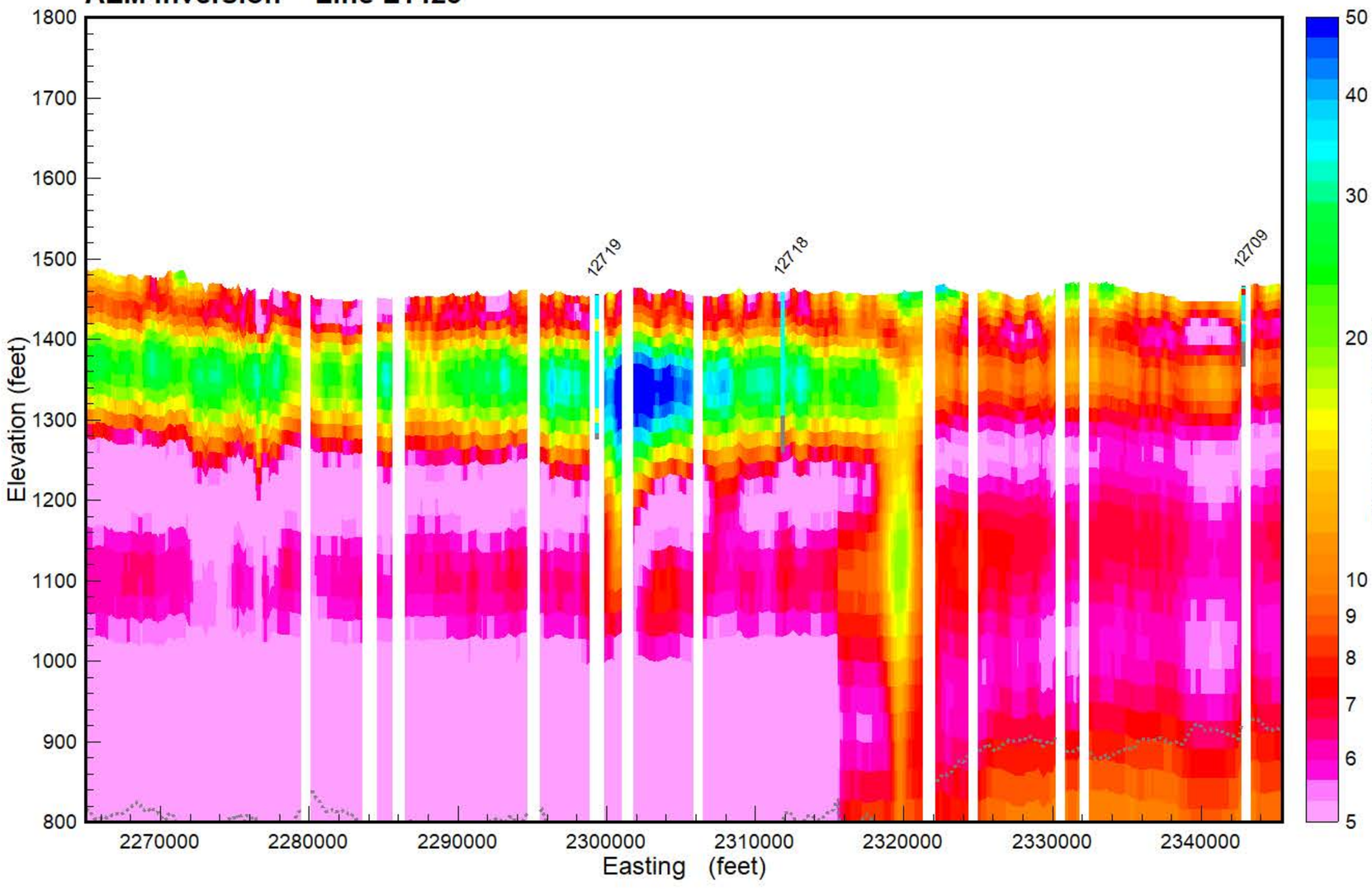
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AGF Aqua Geo Frameworks

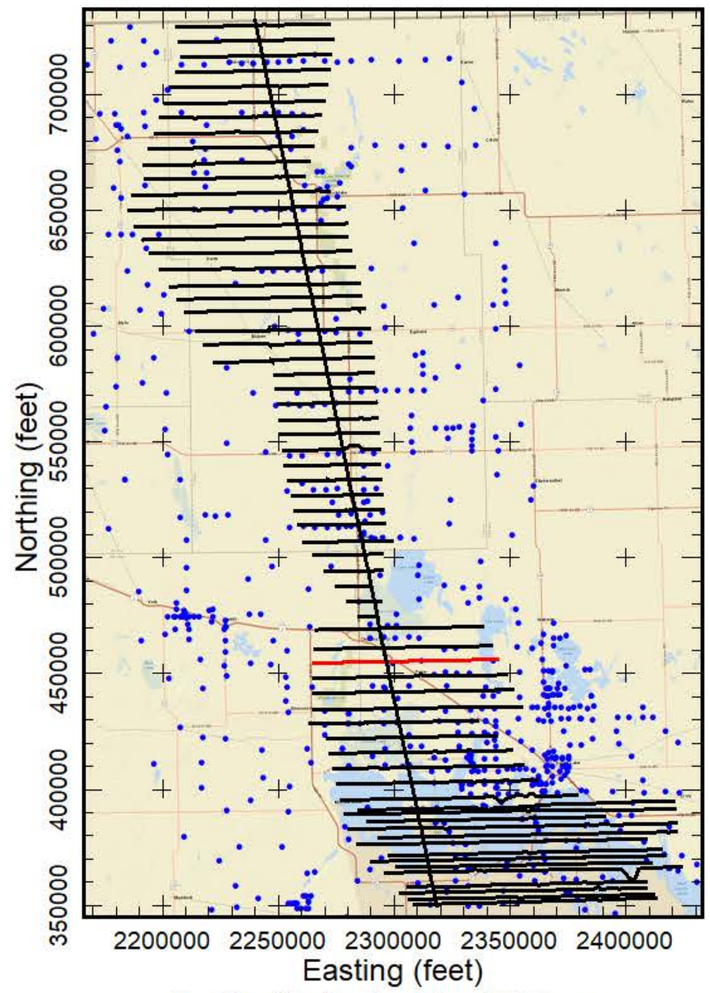
Flight Path Line L1425



AEM Inversion Line L1425



Flight Area Towner



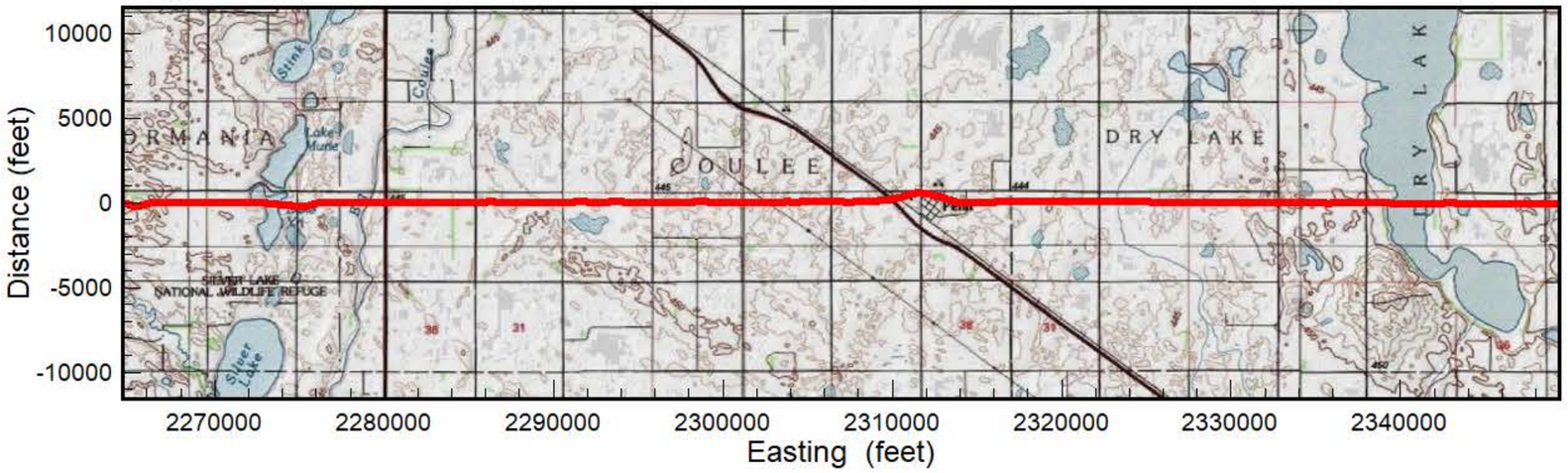
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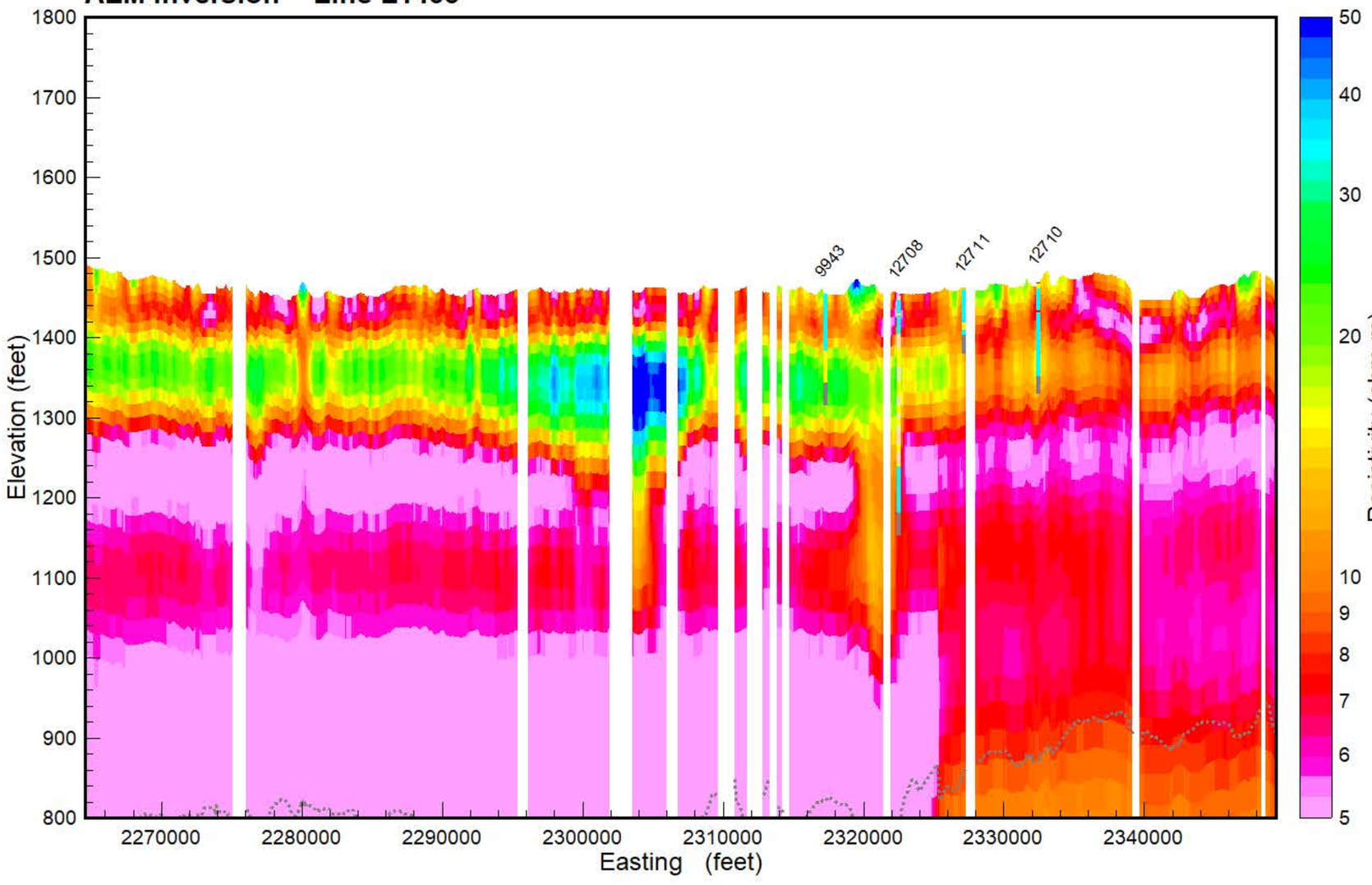
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AGF Aqua Geo Frameworks

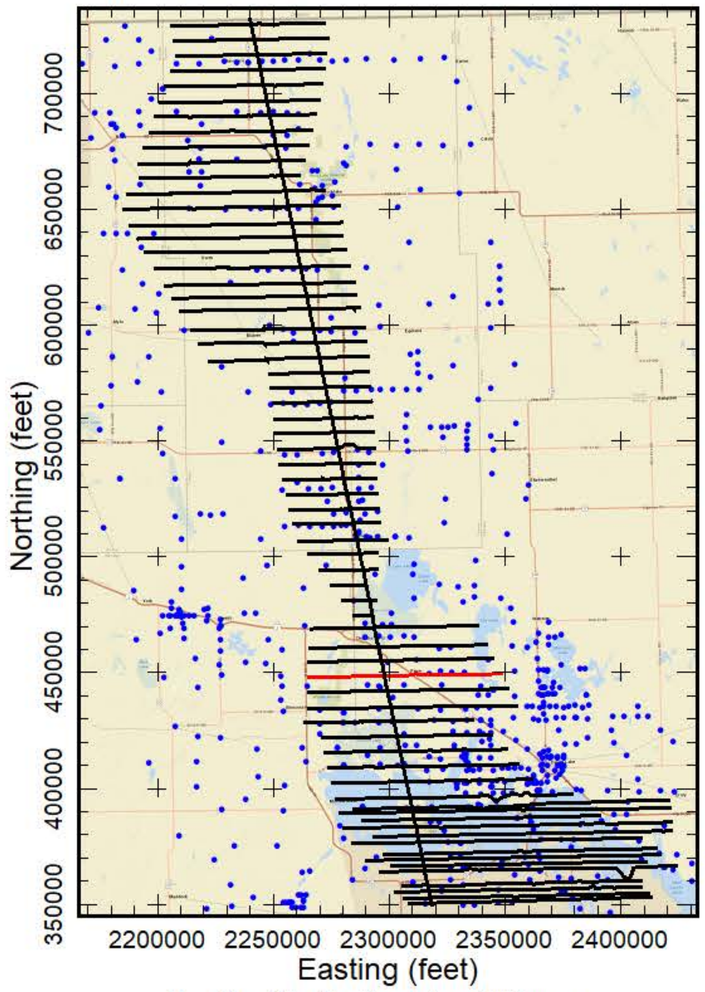
Flight Path Line L1435



AEM Inversion Line L1435



Flight Area Towner



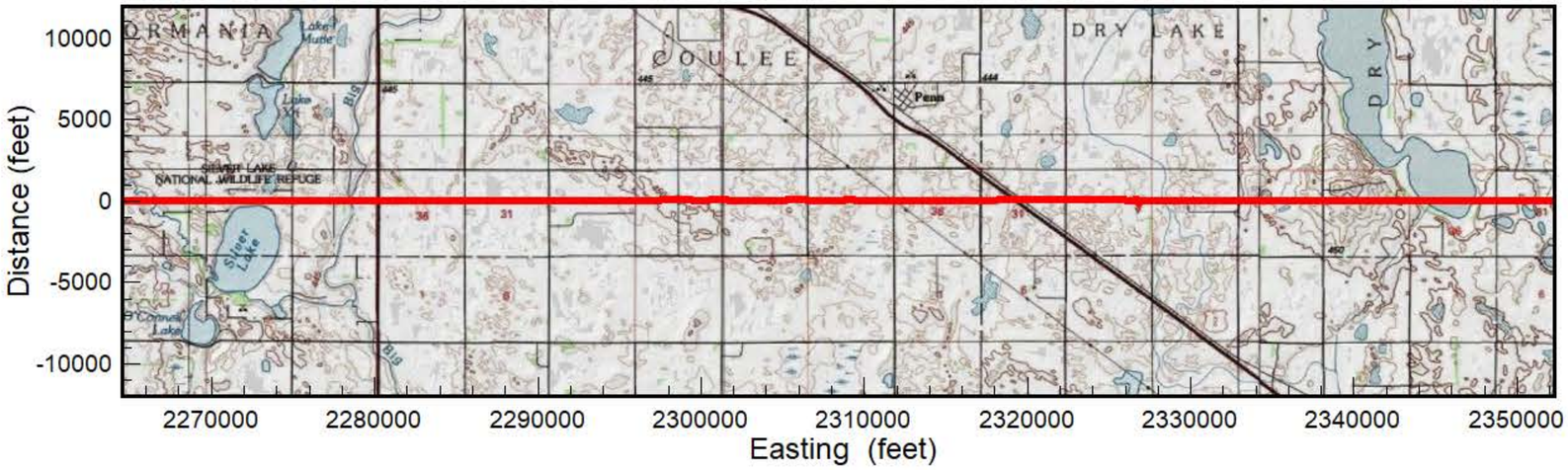
NORTH Dakota | Water Commission & State Engineer

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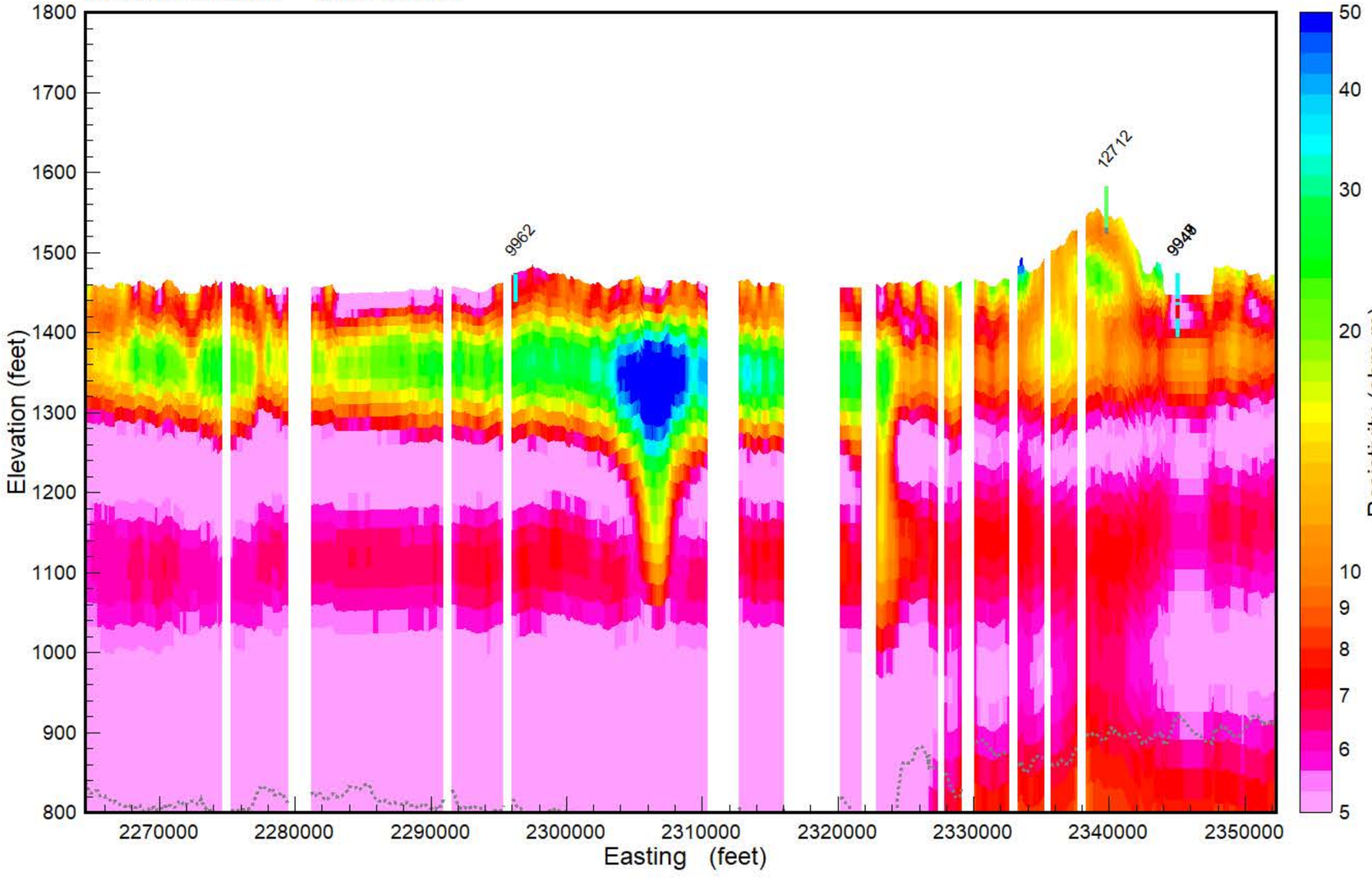
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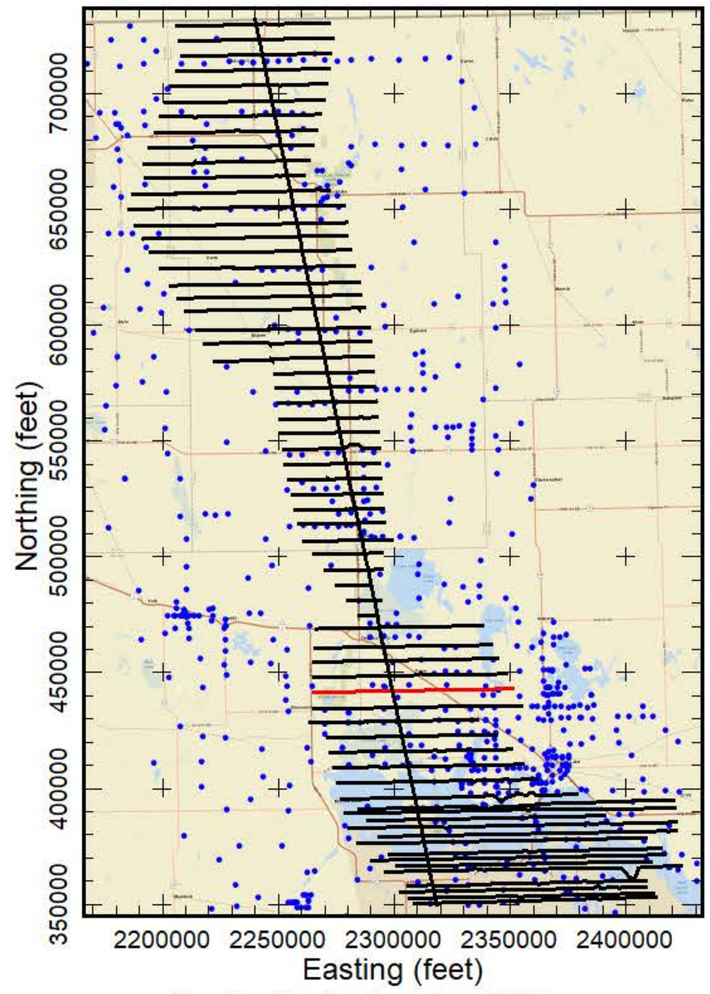
Flight Path Line L1445



AEM Inversion Line L1445



Flight Area Towner



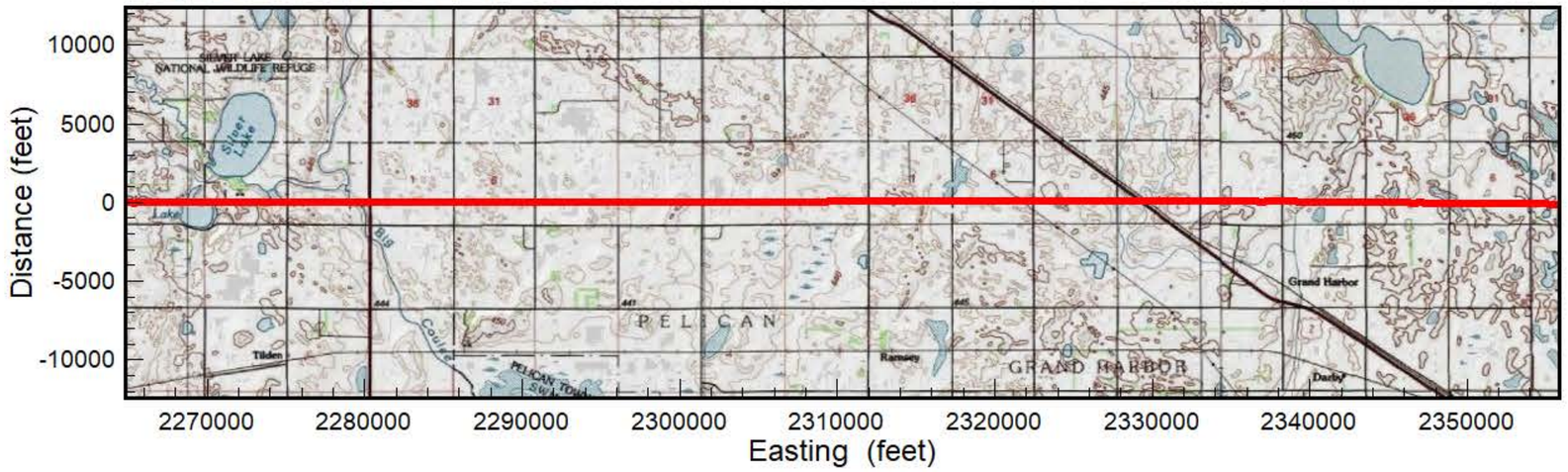
NORTH Dakota | Water Commission & State Engineer
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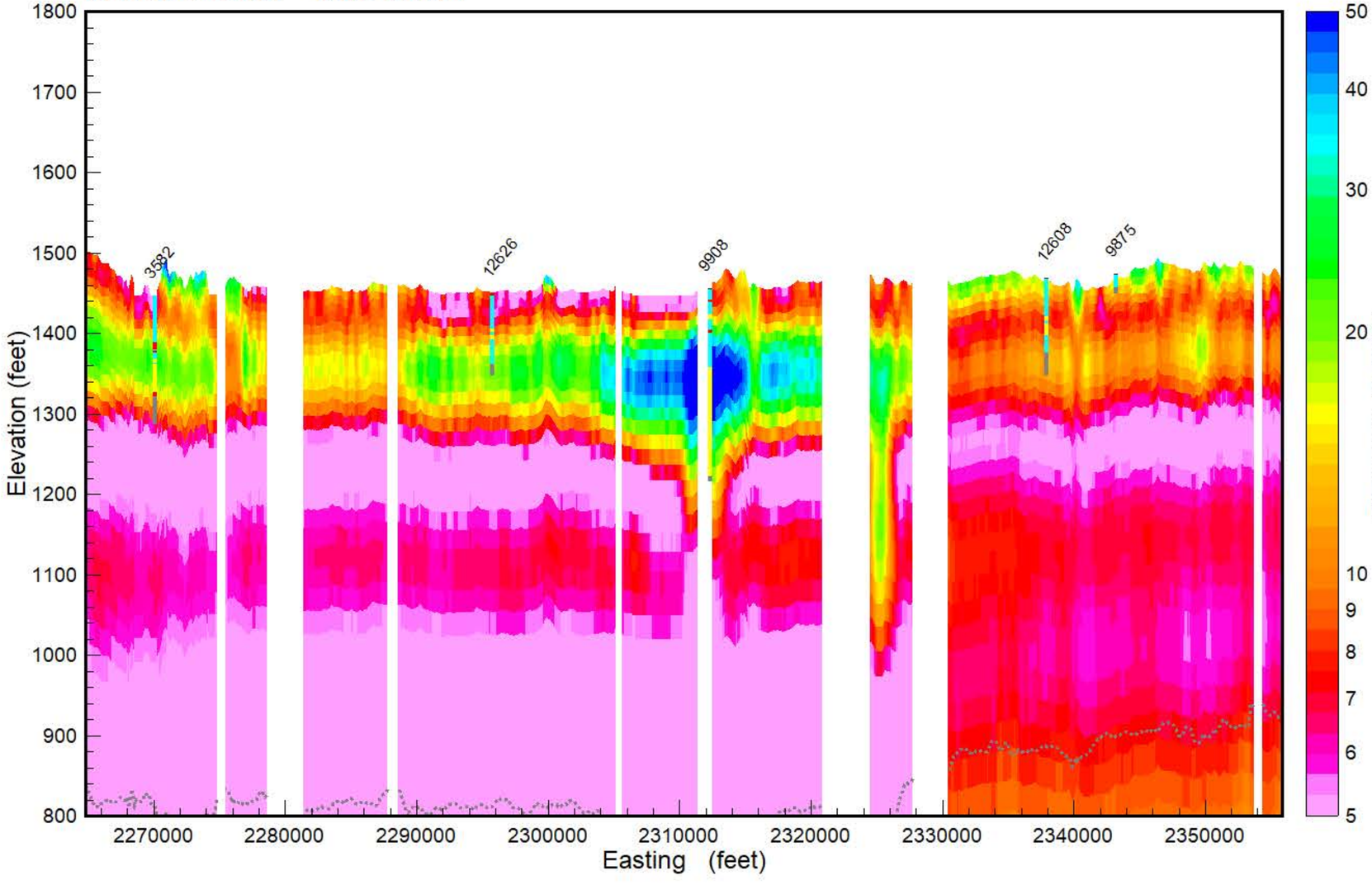
GEOTECH

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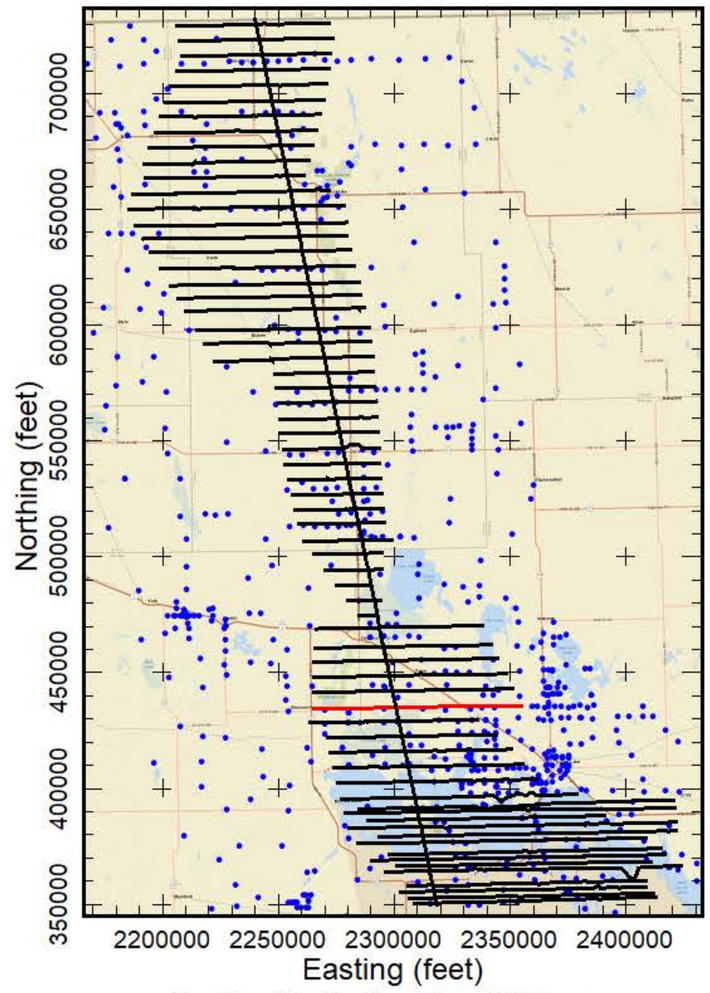
Flight Path Line L1455



AEM Inversion Line L1455



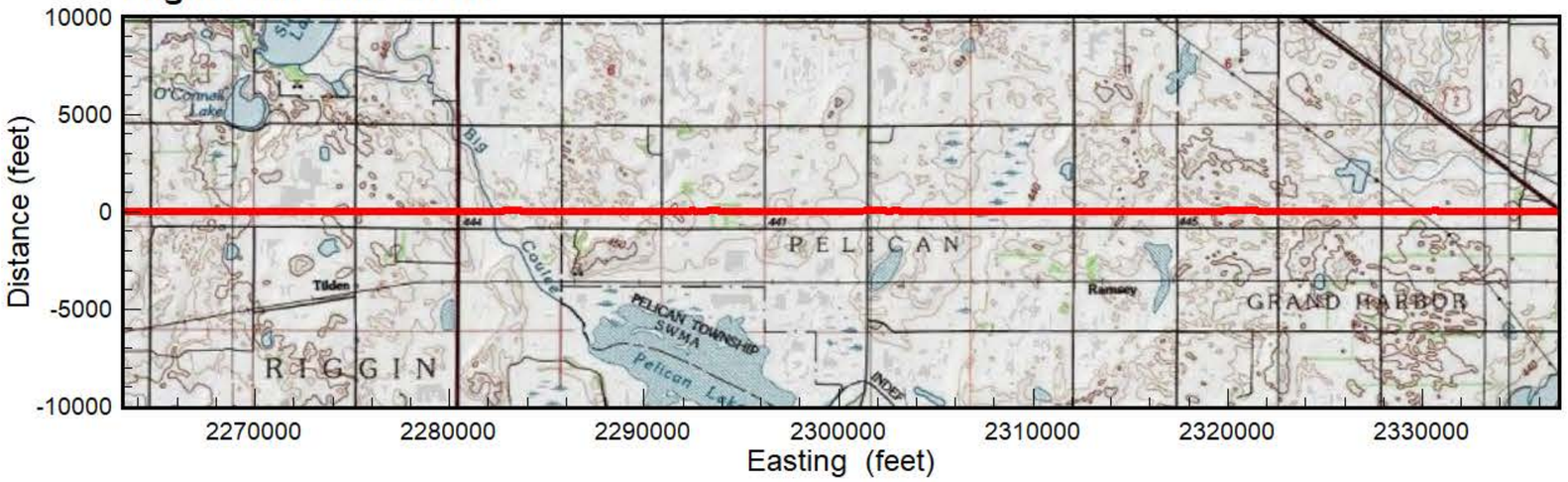
Flight Area Towner



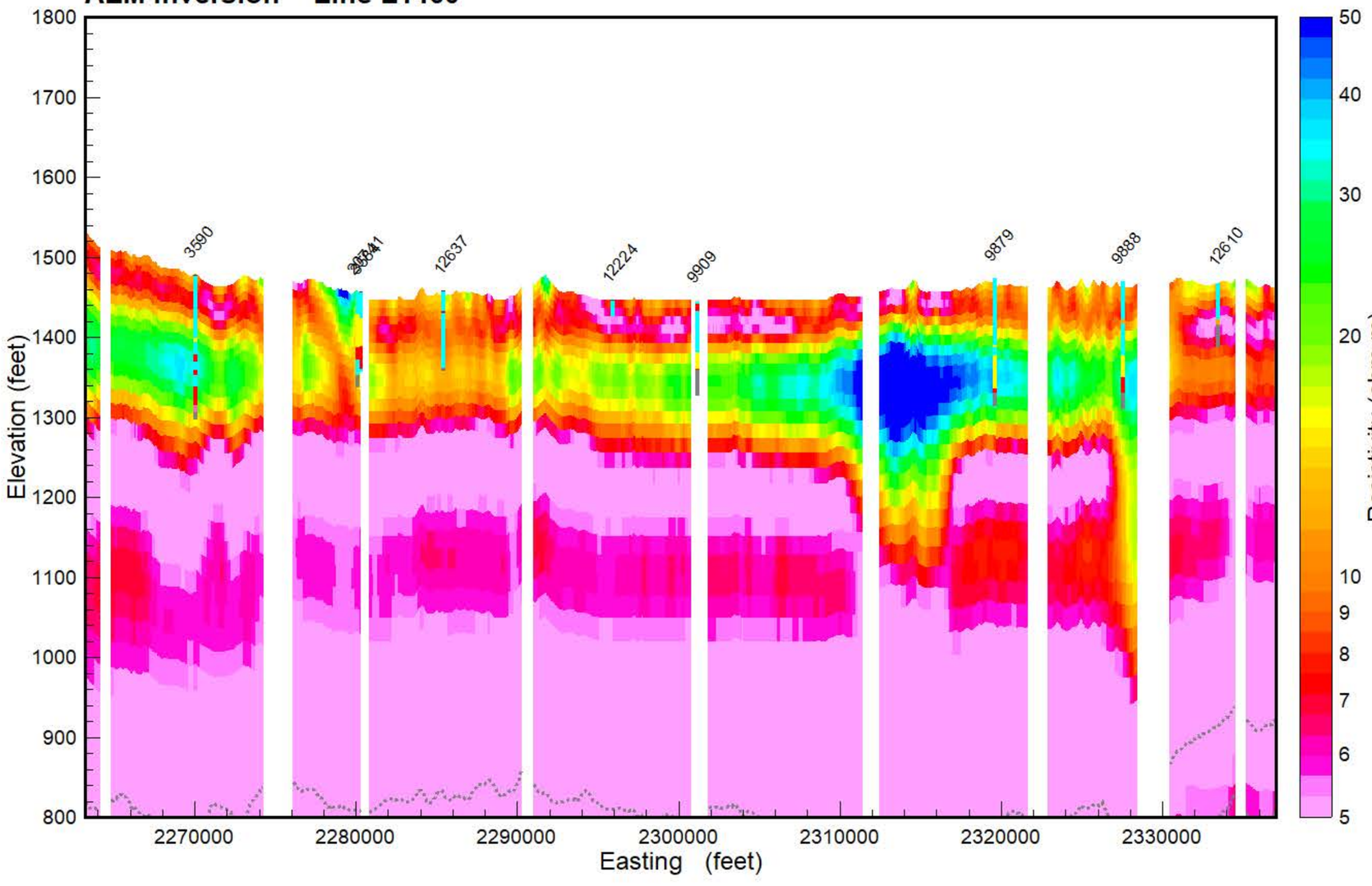
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SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
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NOSAMPLE

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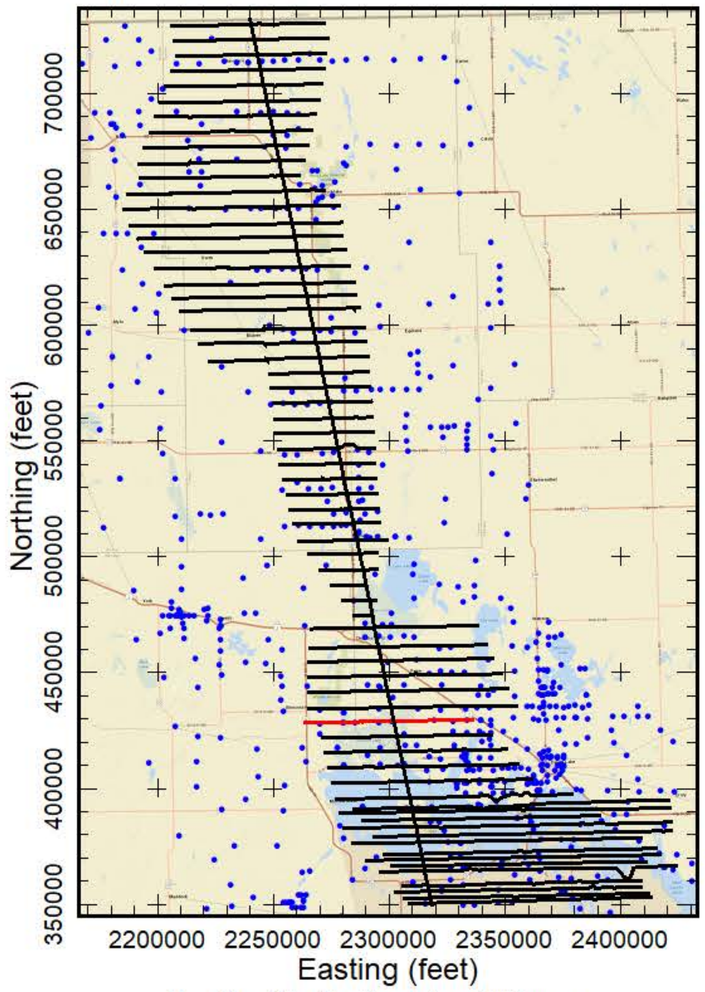
Flight Path Line L1460



AEM Inversion Line L1460



Flight Area Towner



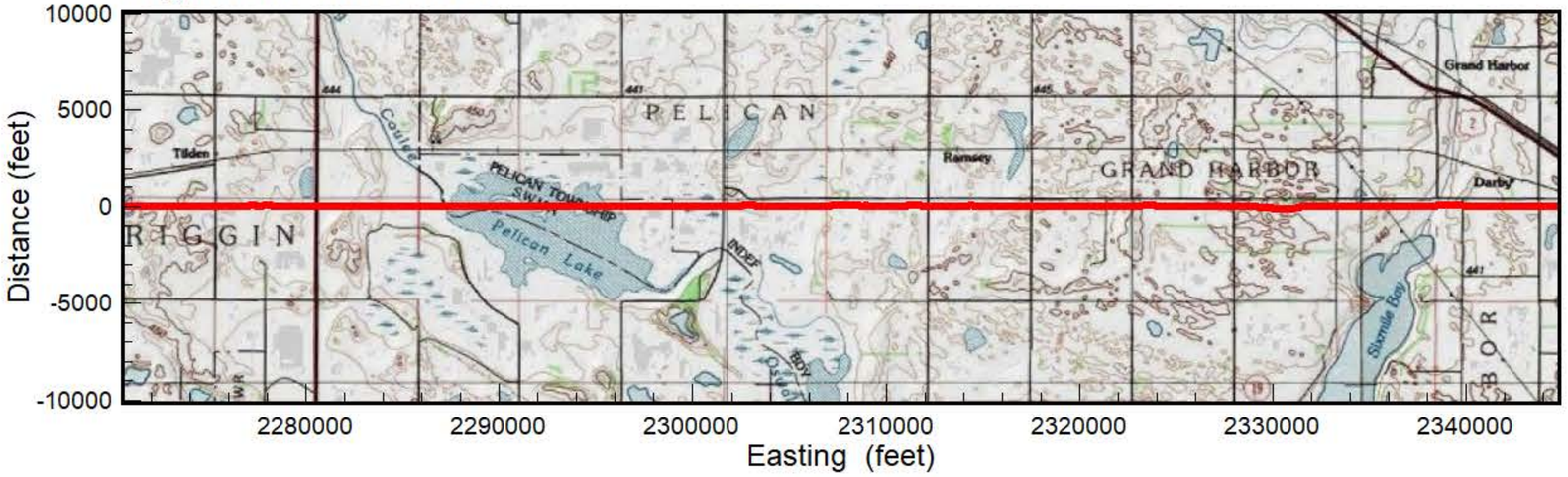
NORTH Dakota | Water Commission & State Engineer

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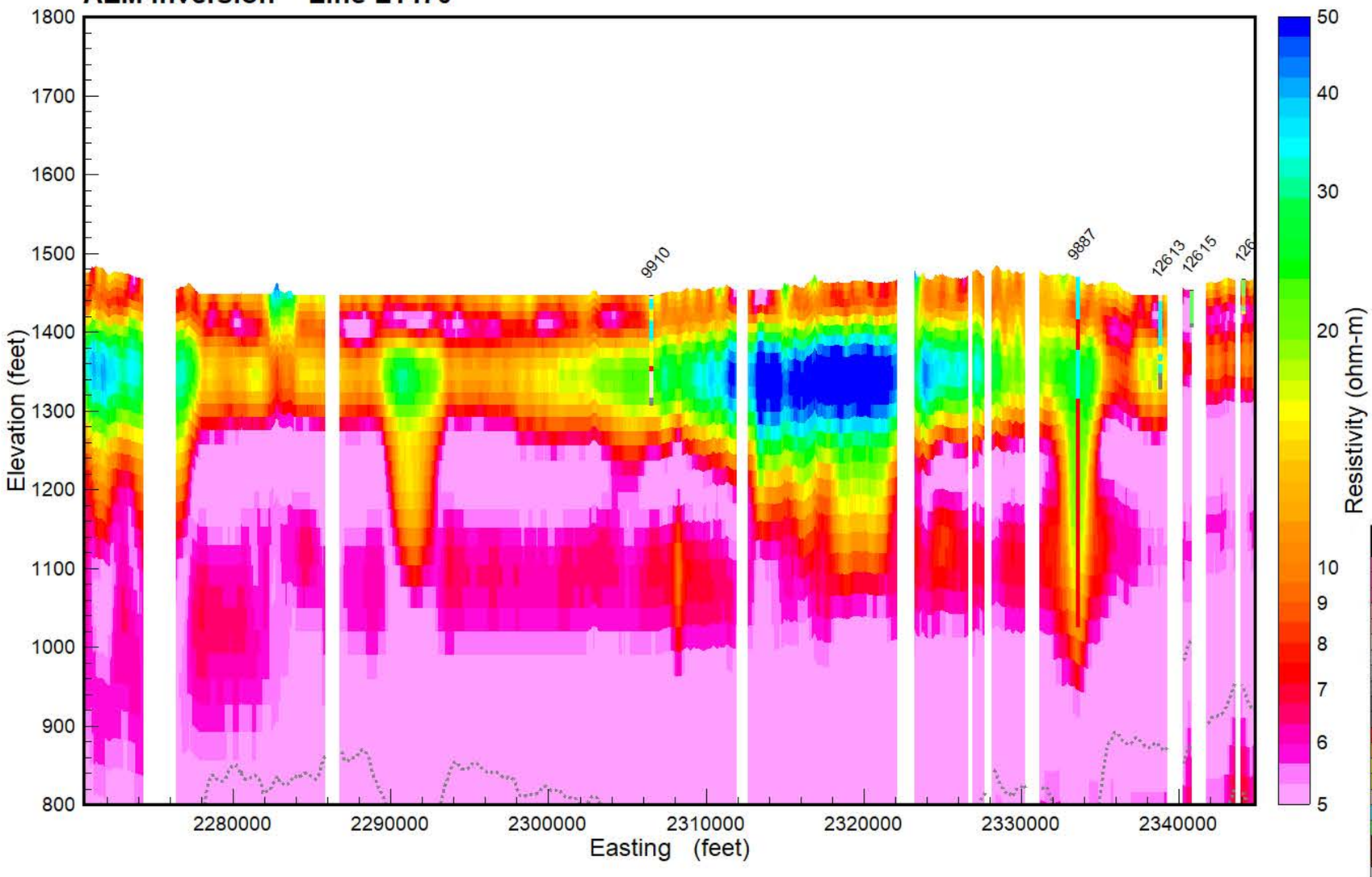
GEOTECH

AGF Aqua Geo Frameworks

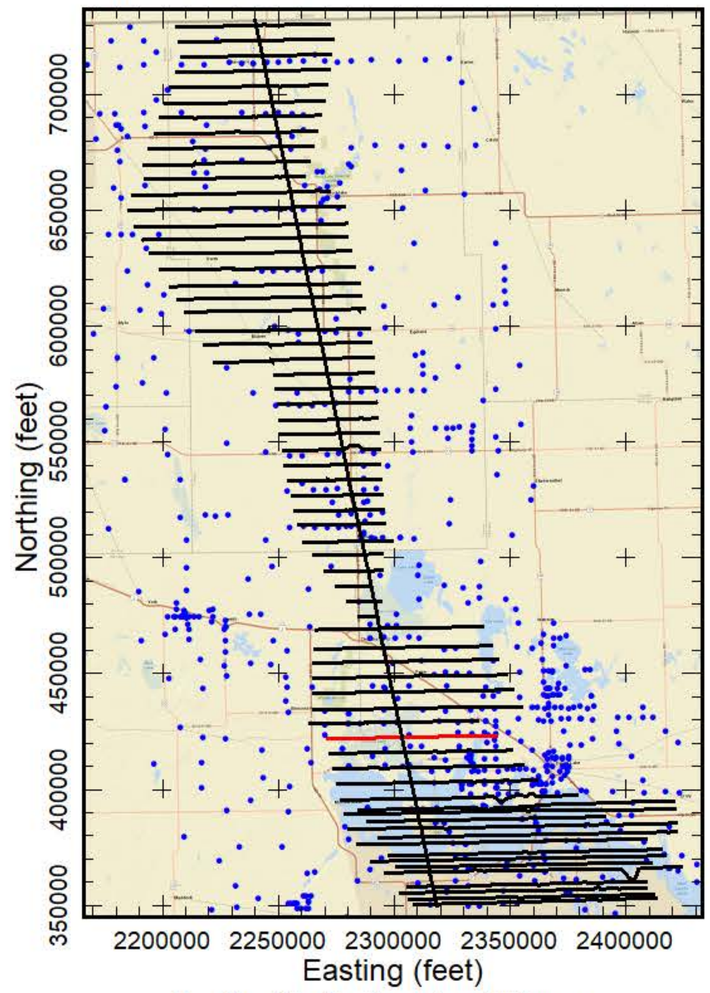
Flight Path Line L1470



AEM Inversion Line L1470



Flight Area Towner



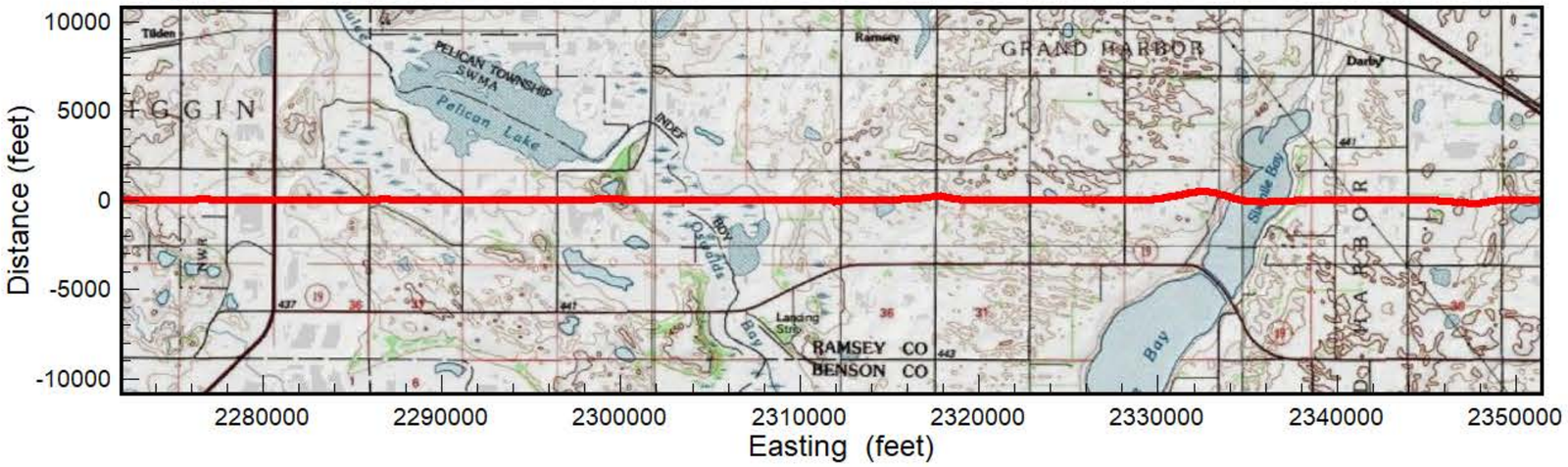
NORTH Dakota | Water Commission & State Engineer
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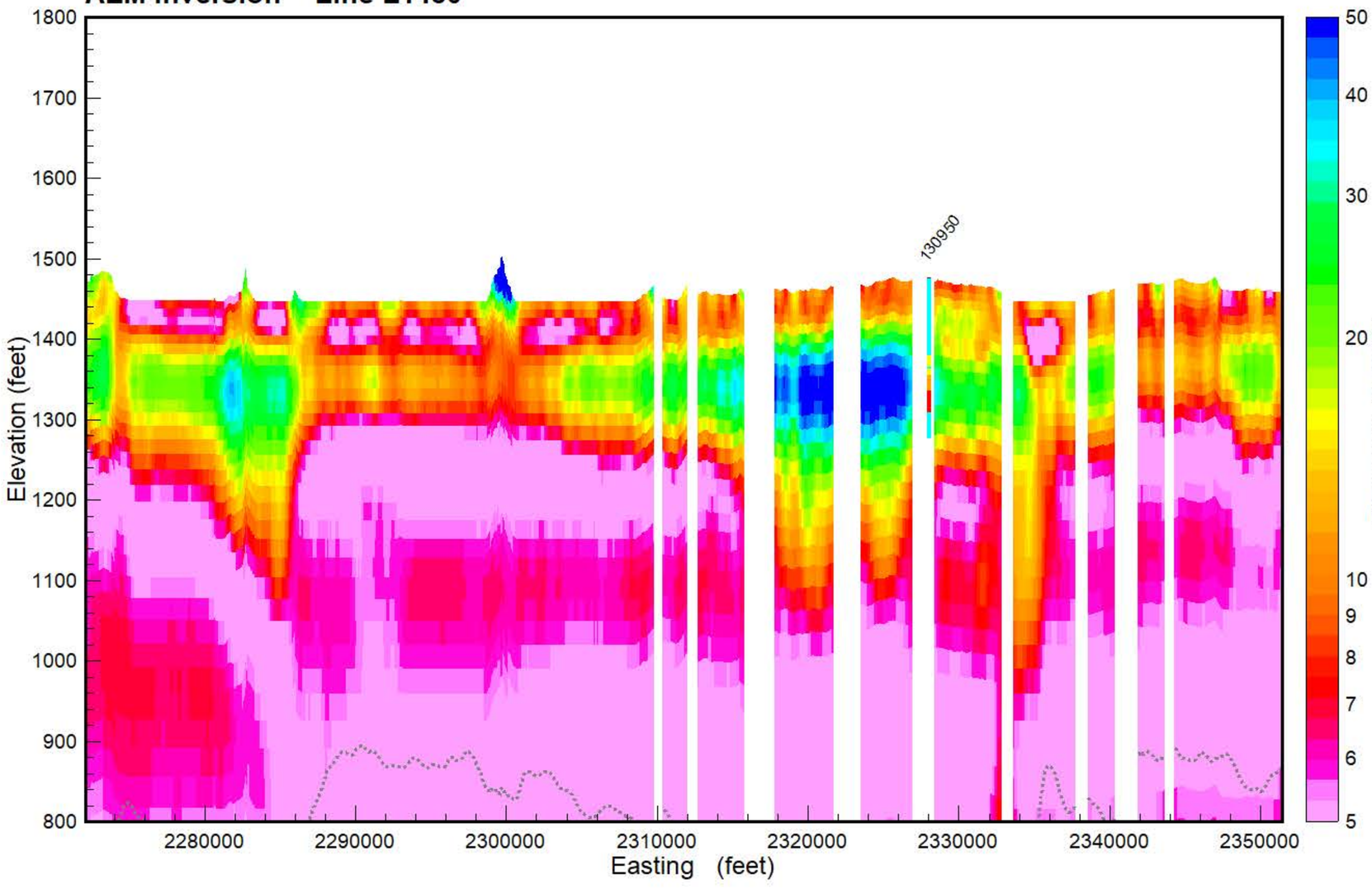
GEOTECH

AGF Aqua Geo Frameworks

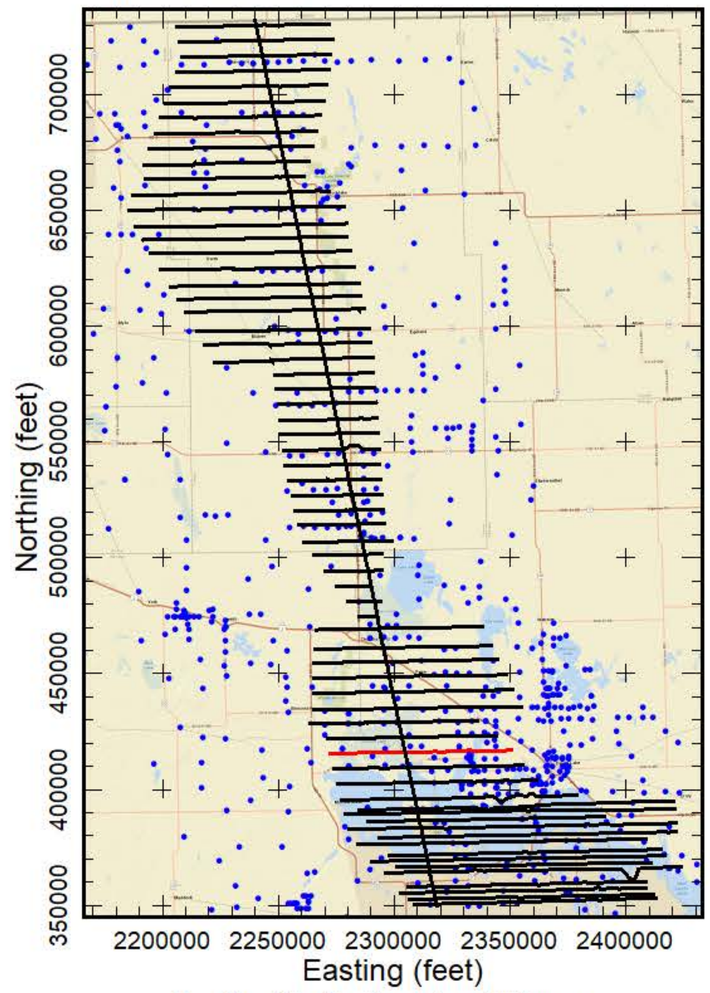
Flight Path Line L1480



AEM Inversion Line L1480



Flight Area Towner



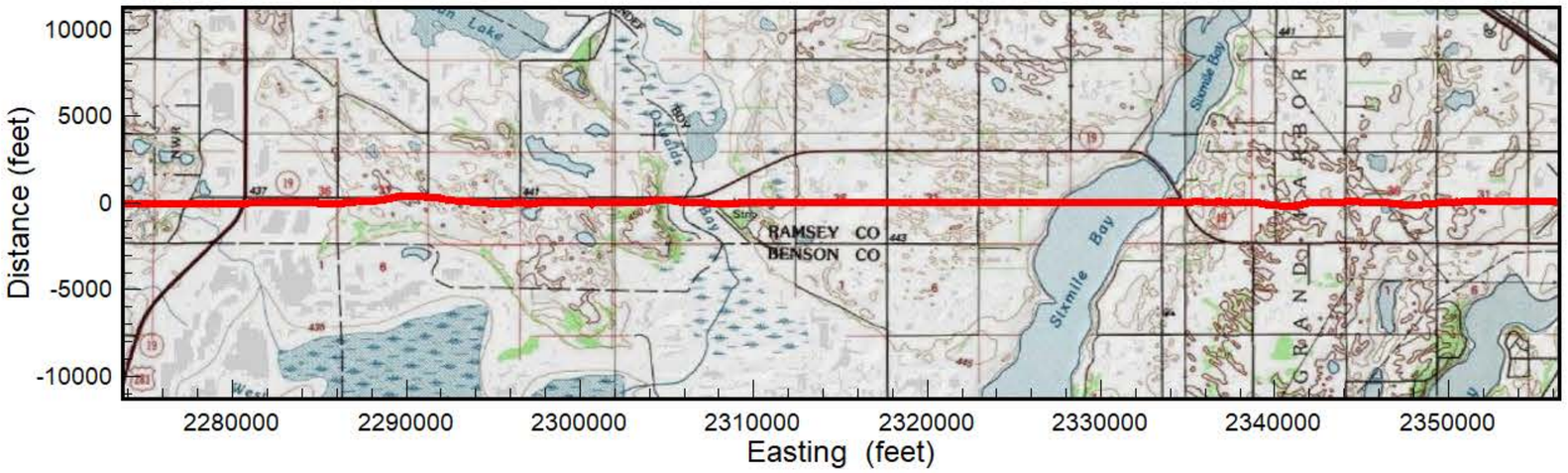
NORTH Dakota | Water Commission & State Engineer
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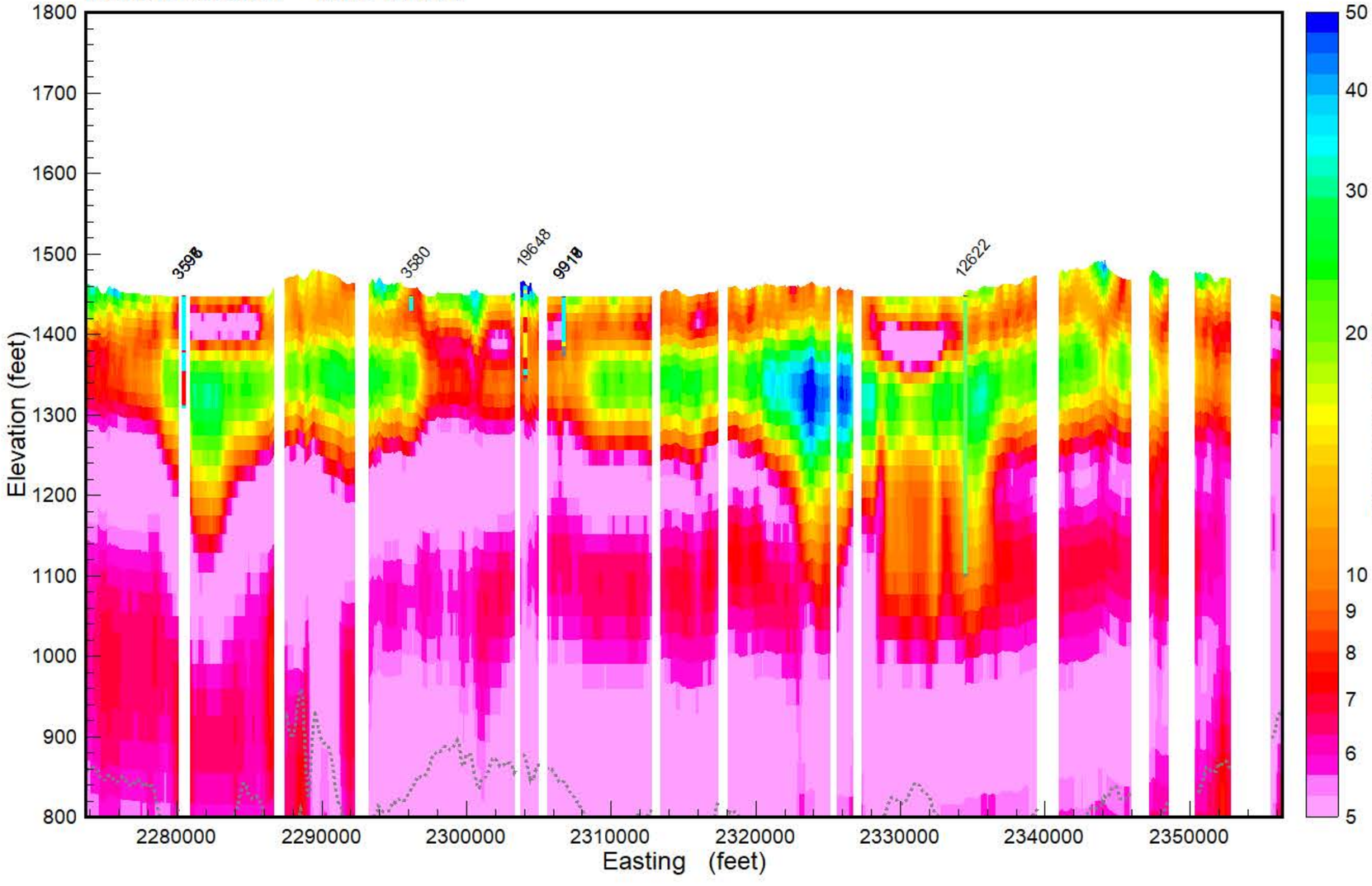
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AGF Aqua Geo Frameworks

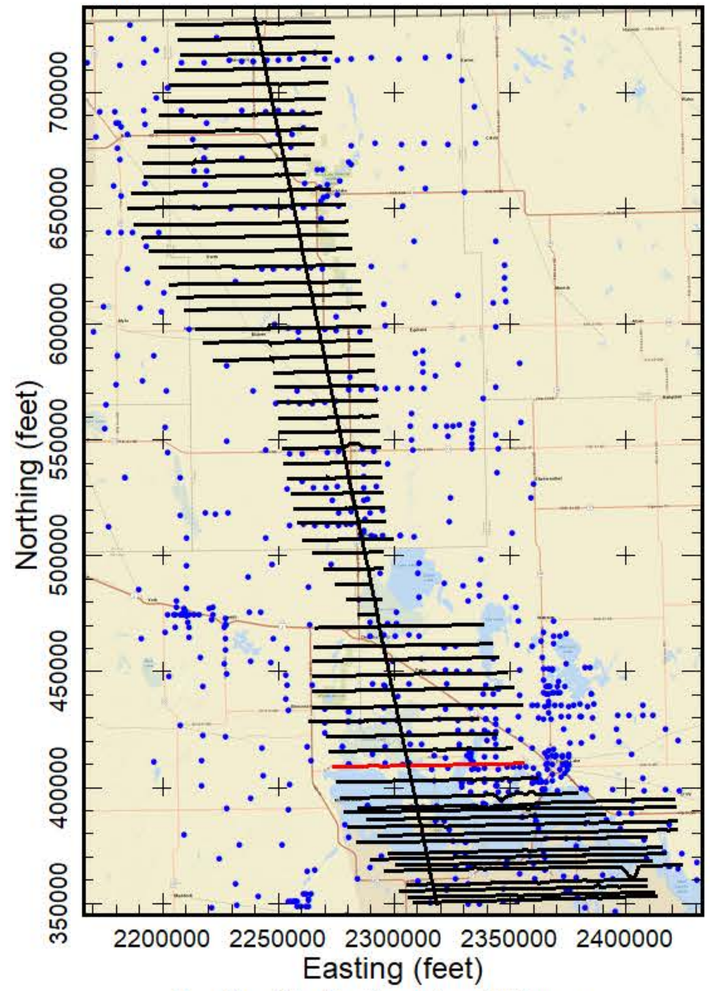
Flight Path Line L1490



AEM Inversion Line L1490



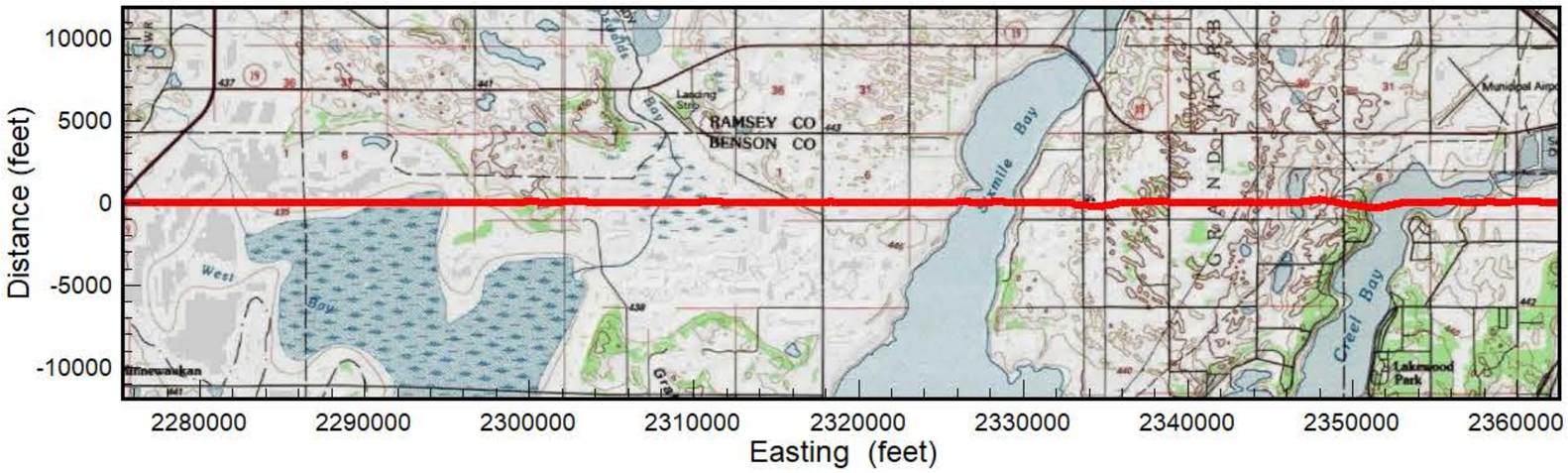
Flight Area Towner



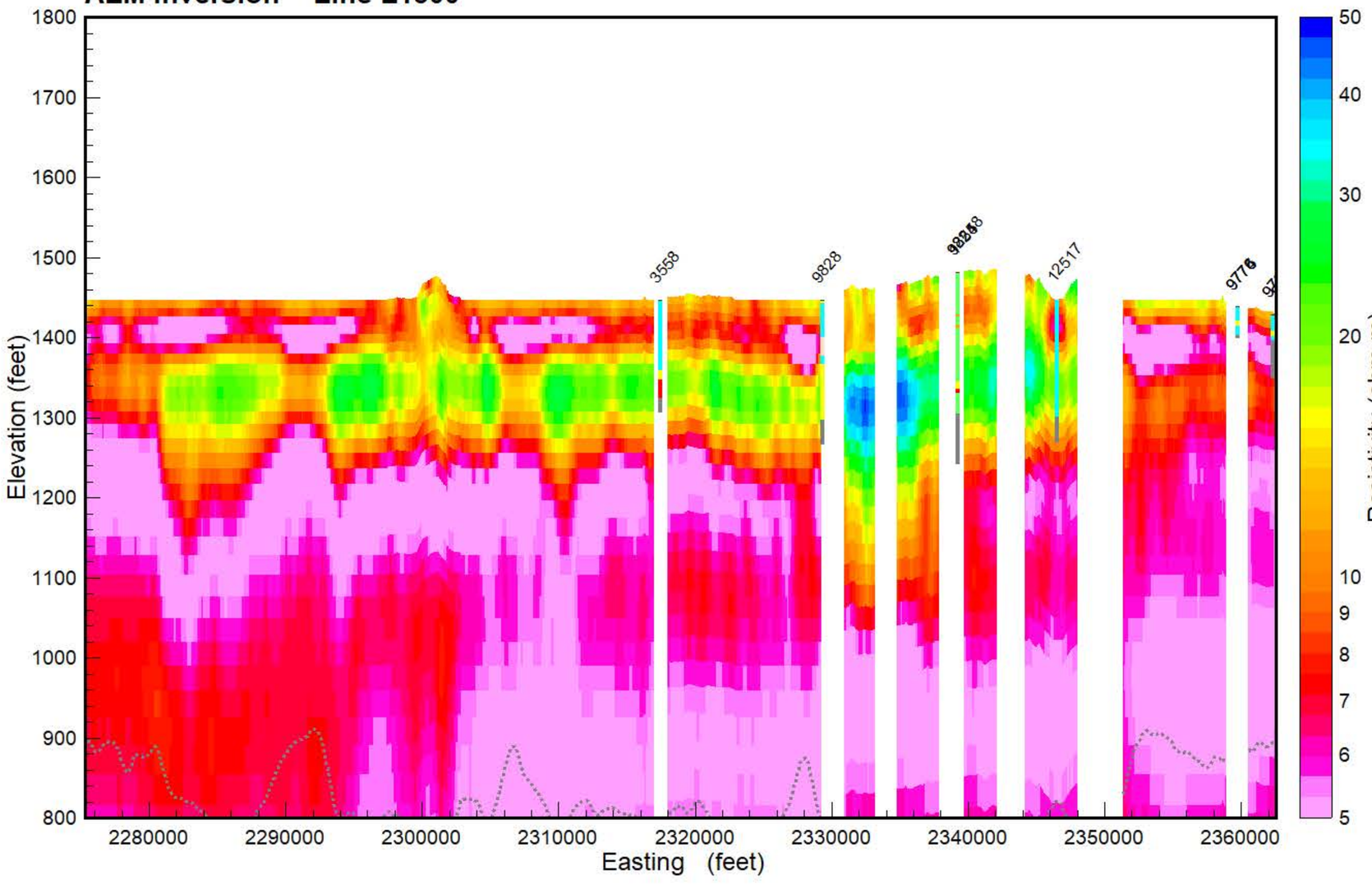
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LIGNITE
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ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

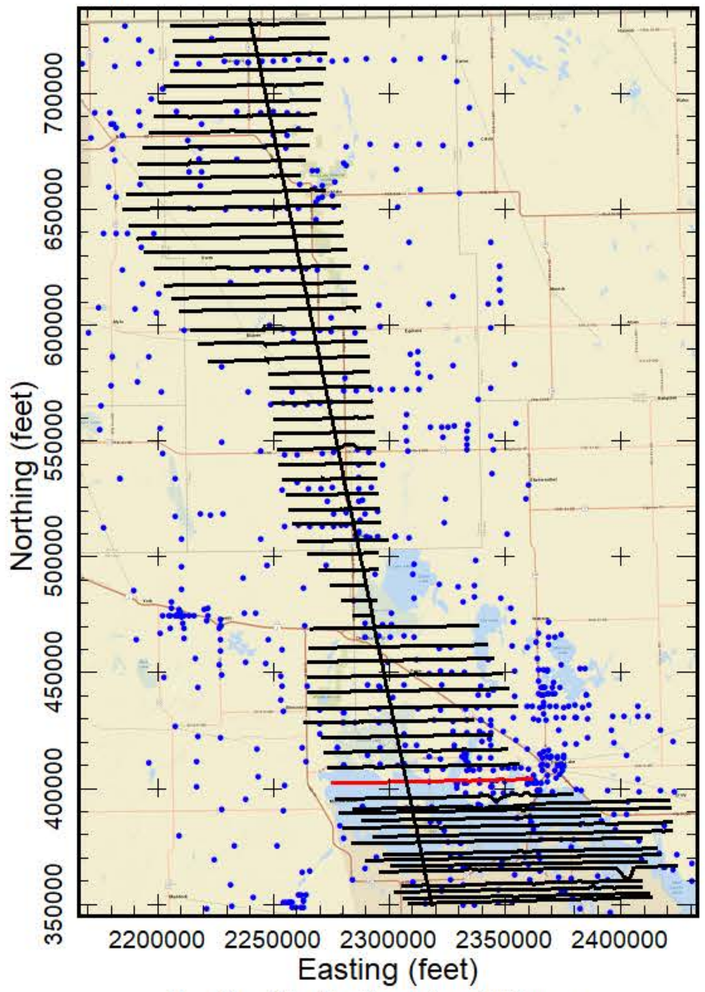
Flight Path Line L1500



AEM Inversion Line L1500



Flight Area Towner



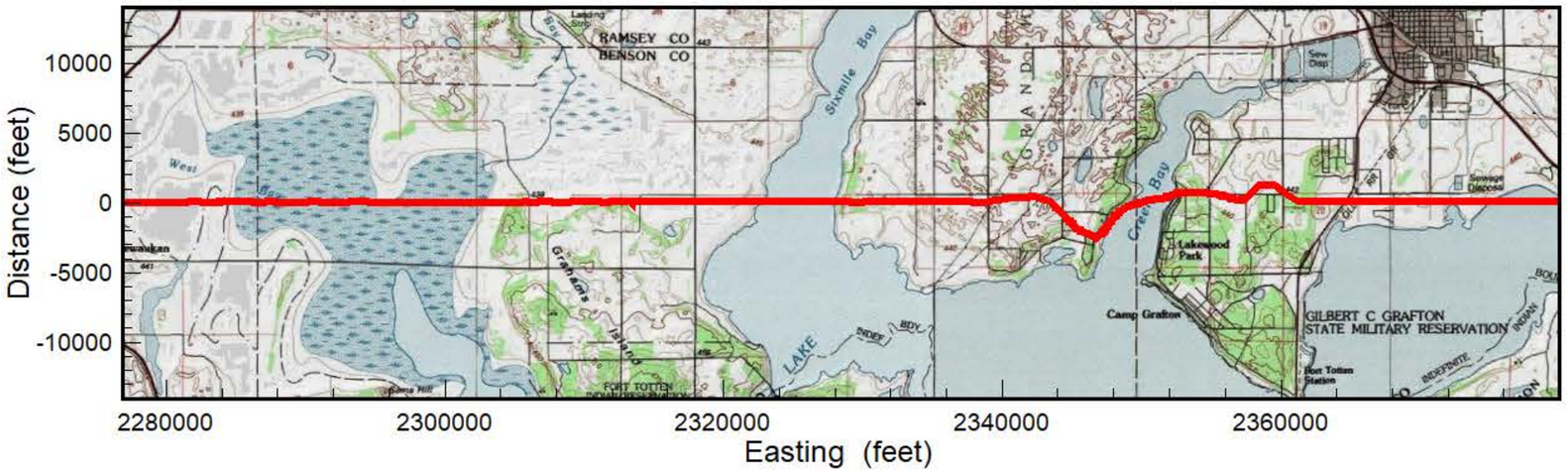
NORTH Dakota | Water Commission & State Engineer

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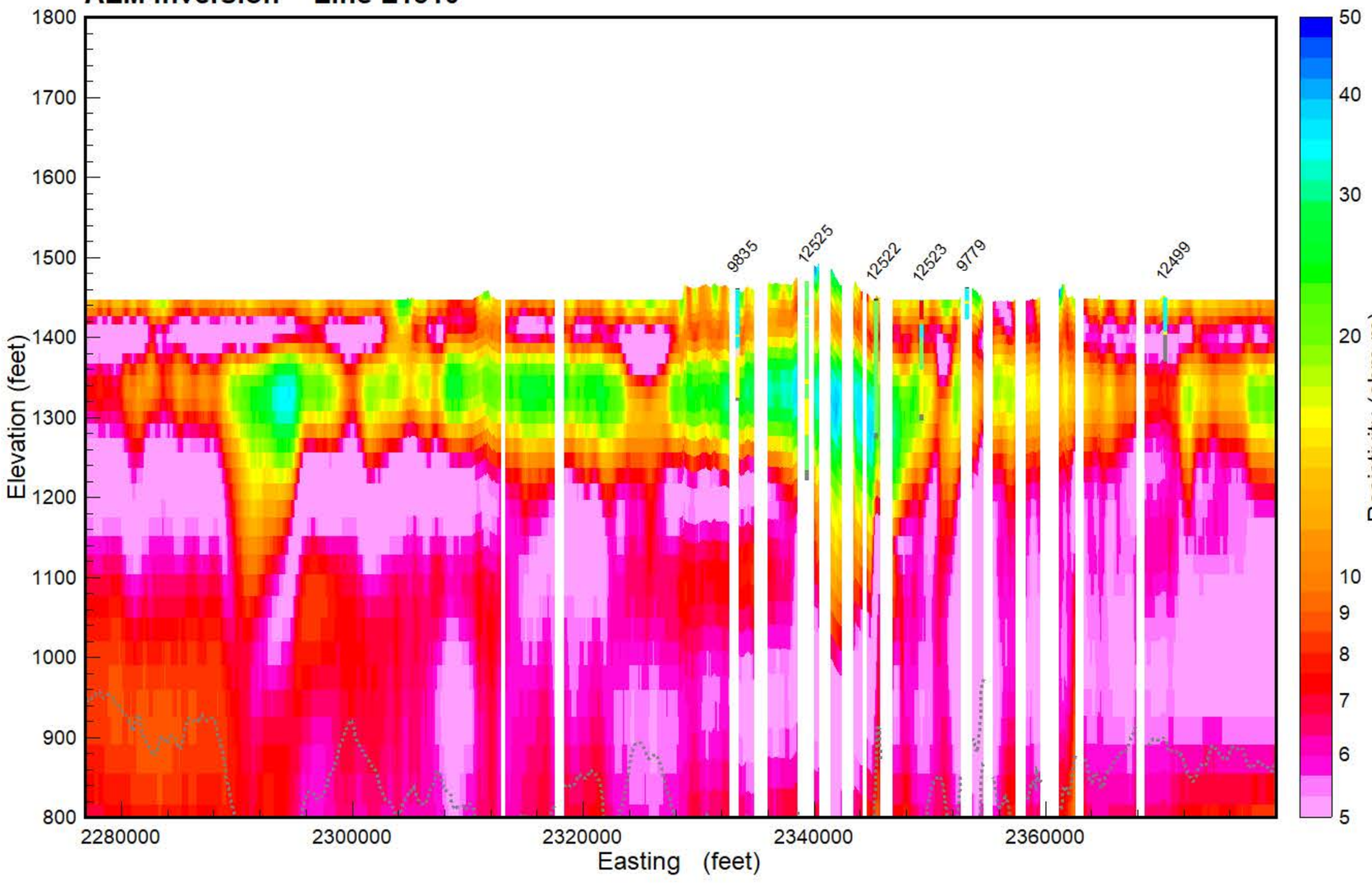
GEOTECH

AGF Aqua Geo Frameworks

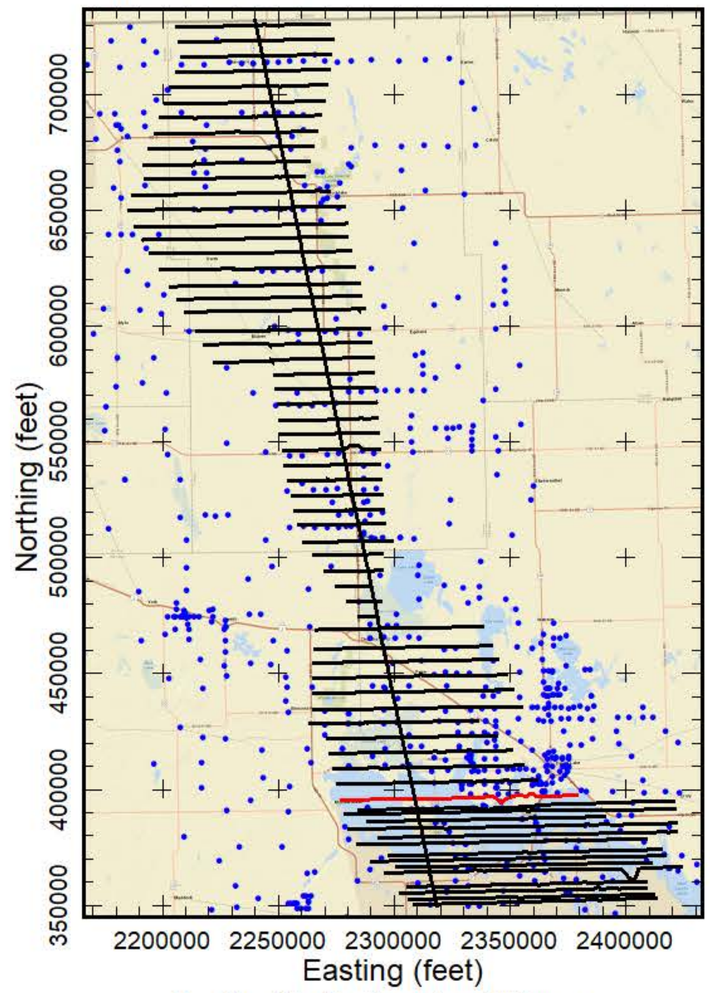
Flight Path Line L1510



AEM Inversion Line L1510



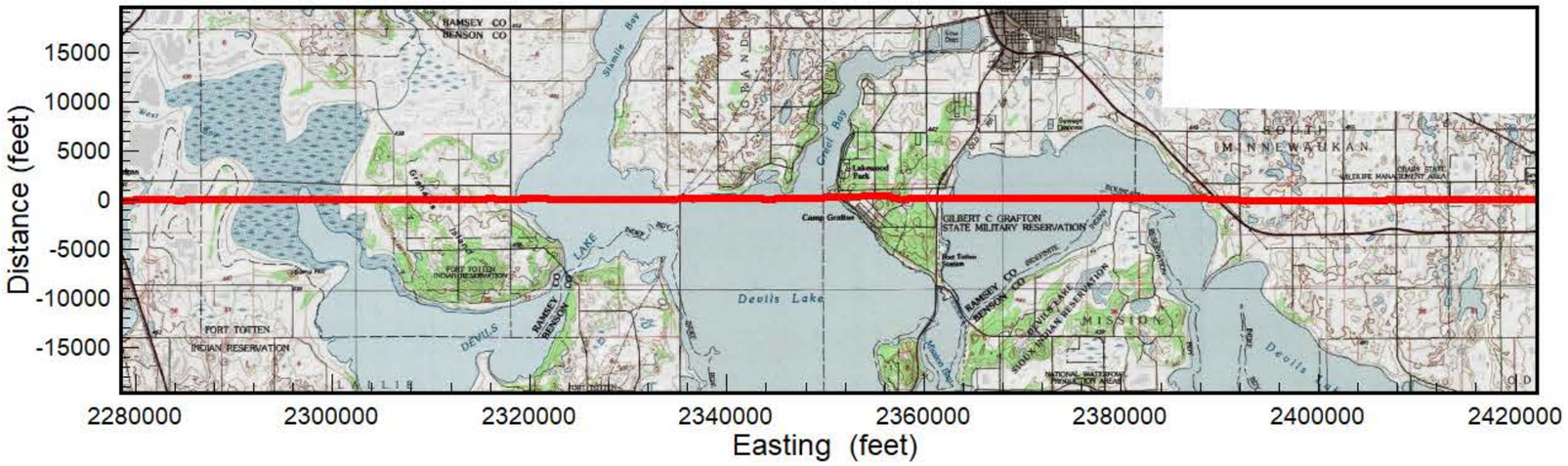
Flight Area Towner



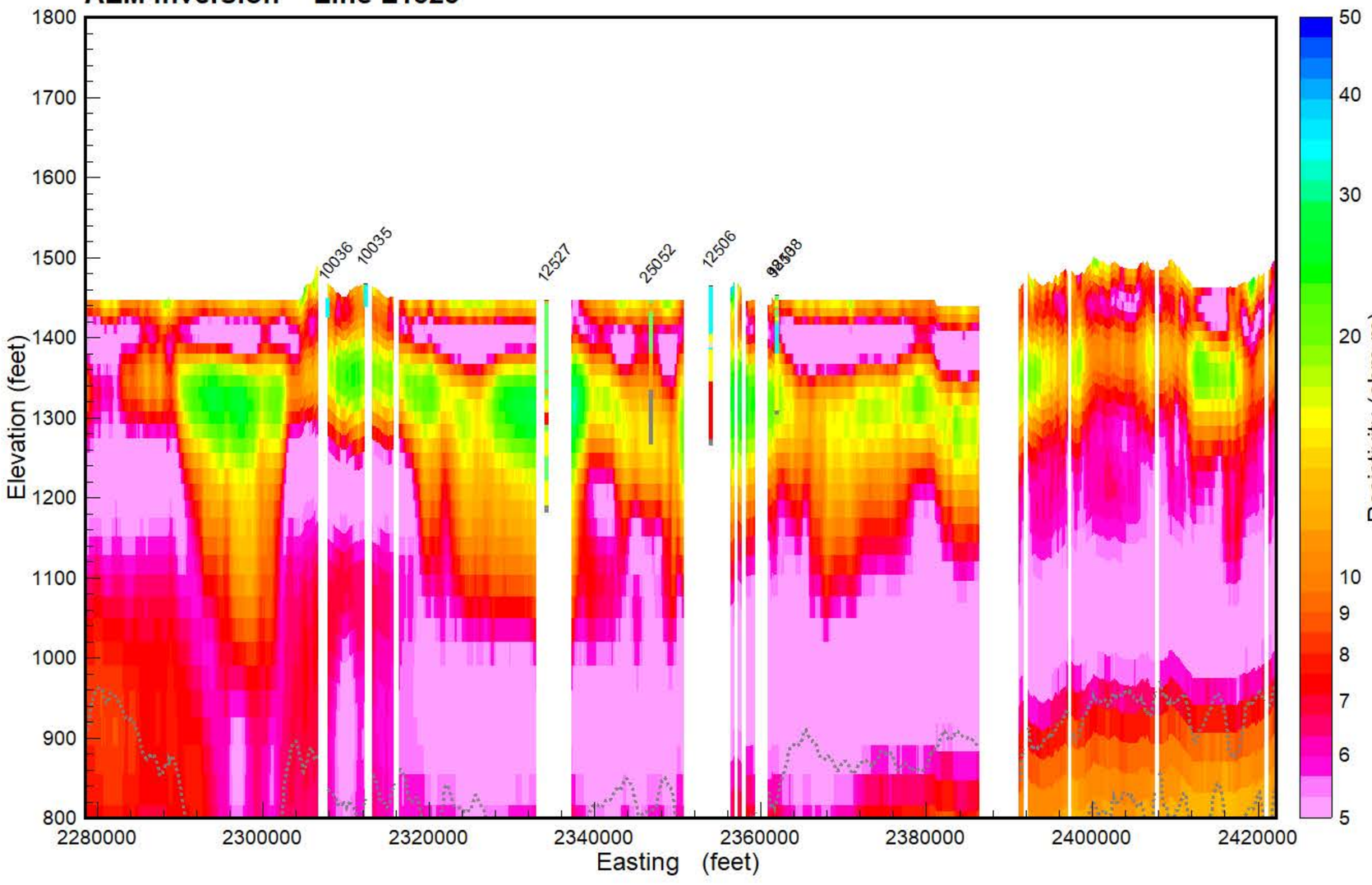
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LIGNITE
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BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

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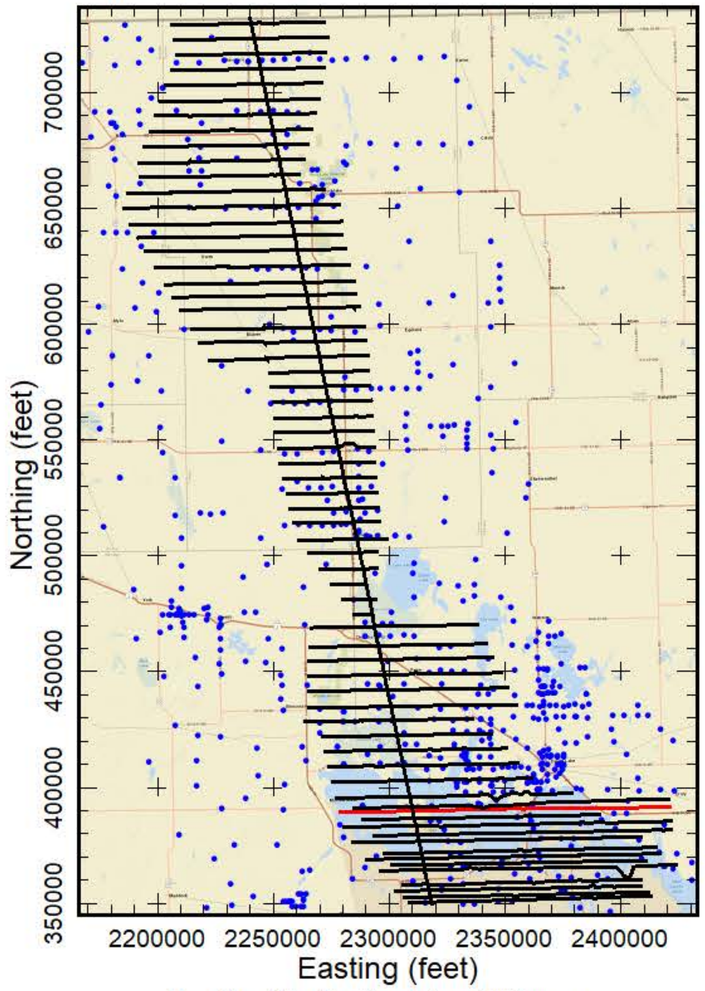
Flight Path Line L1525



AEM Inversion Line L1525



Flight Area Towner



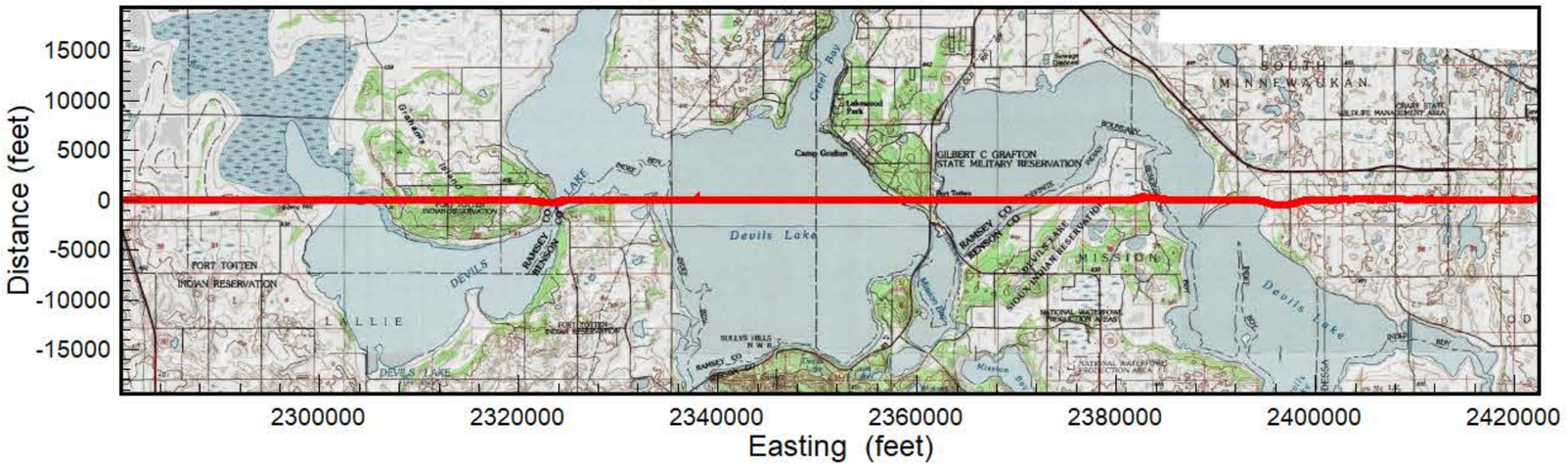
NORTH Dakota | Water Commission & State Engineer

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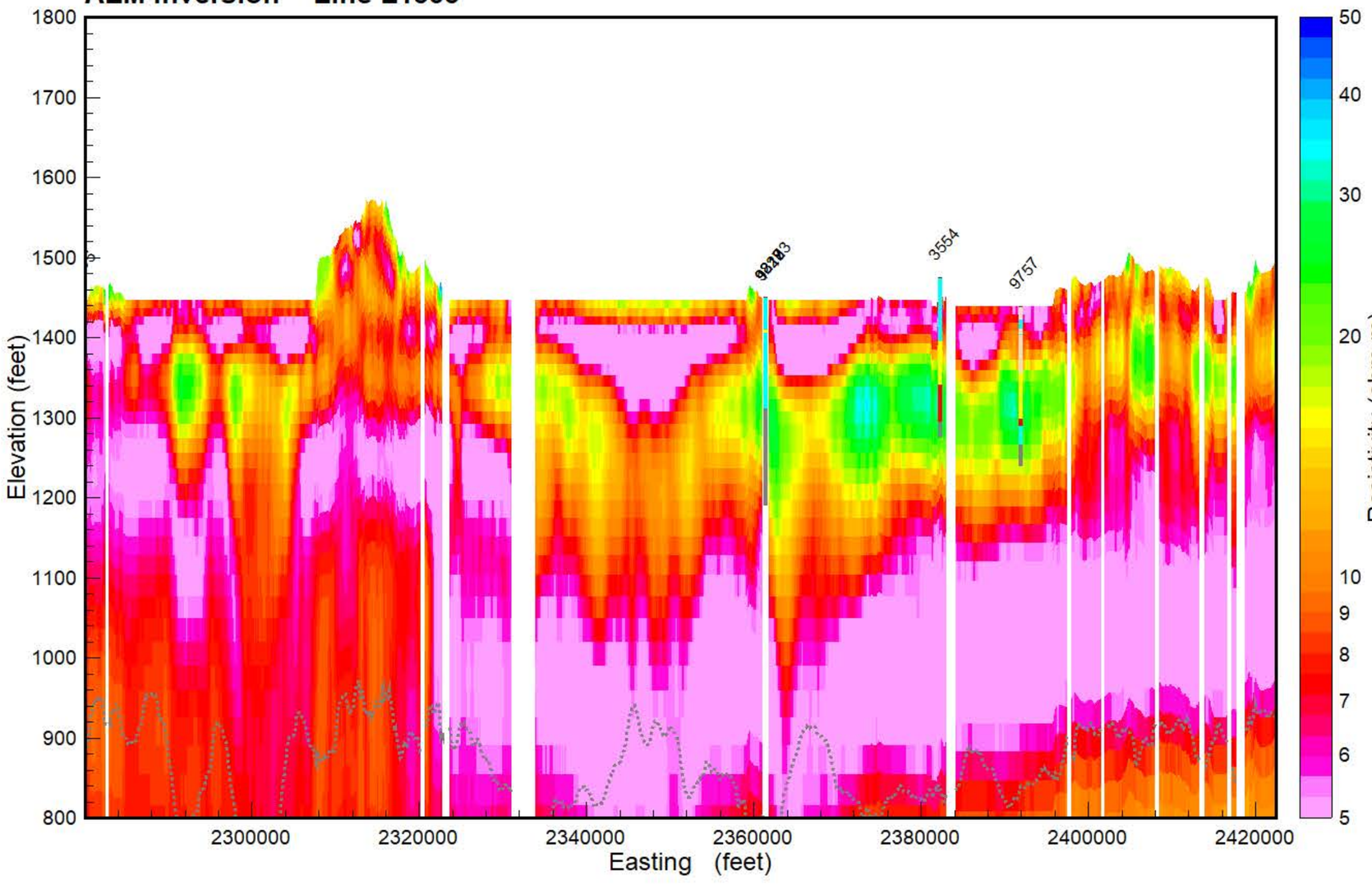
GEOTECH

AGF Aqua Geo Frameworks

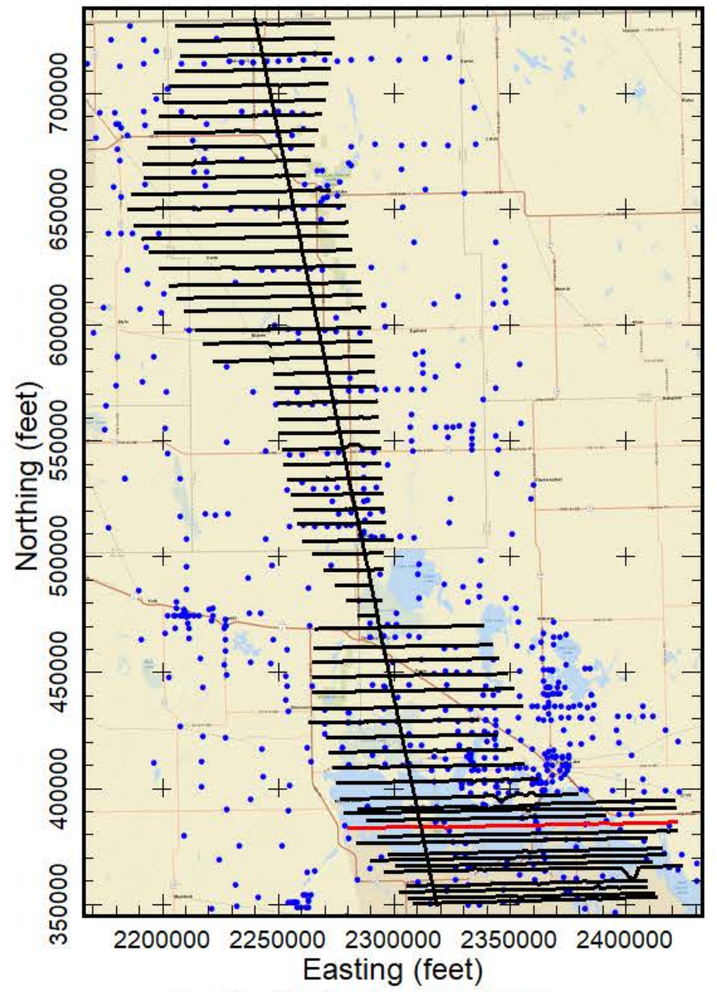
Flight Path Line L1535



AEM Inversion Line L1535



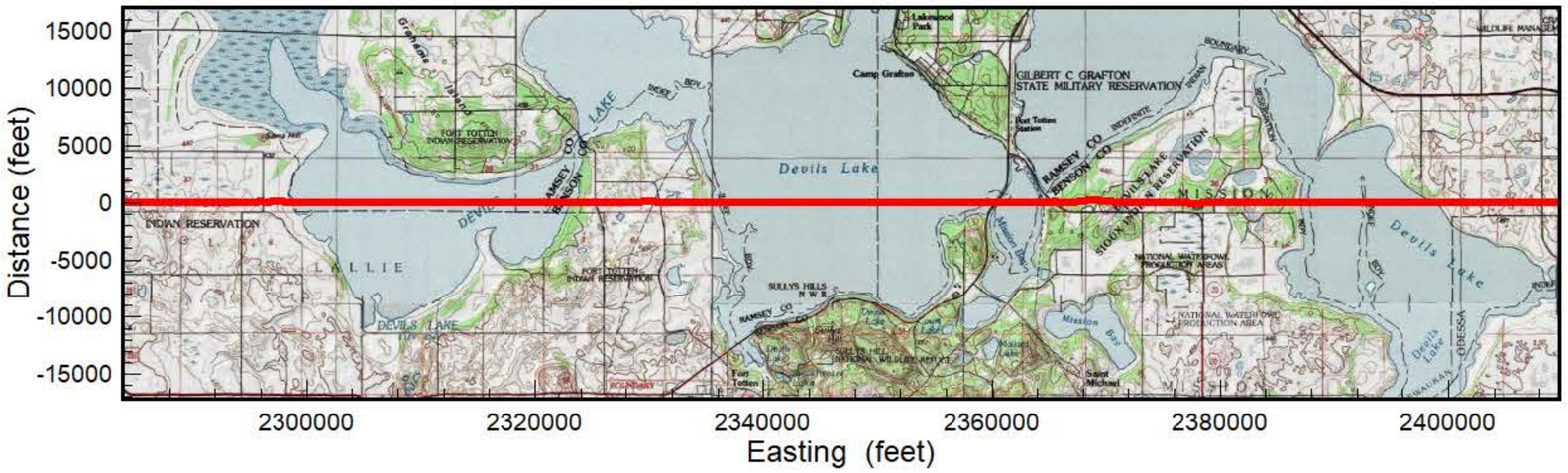
Flight Area Towner



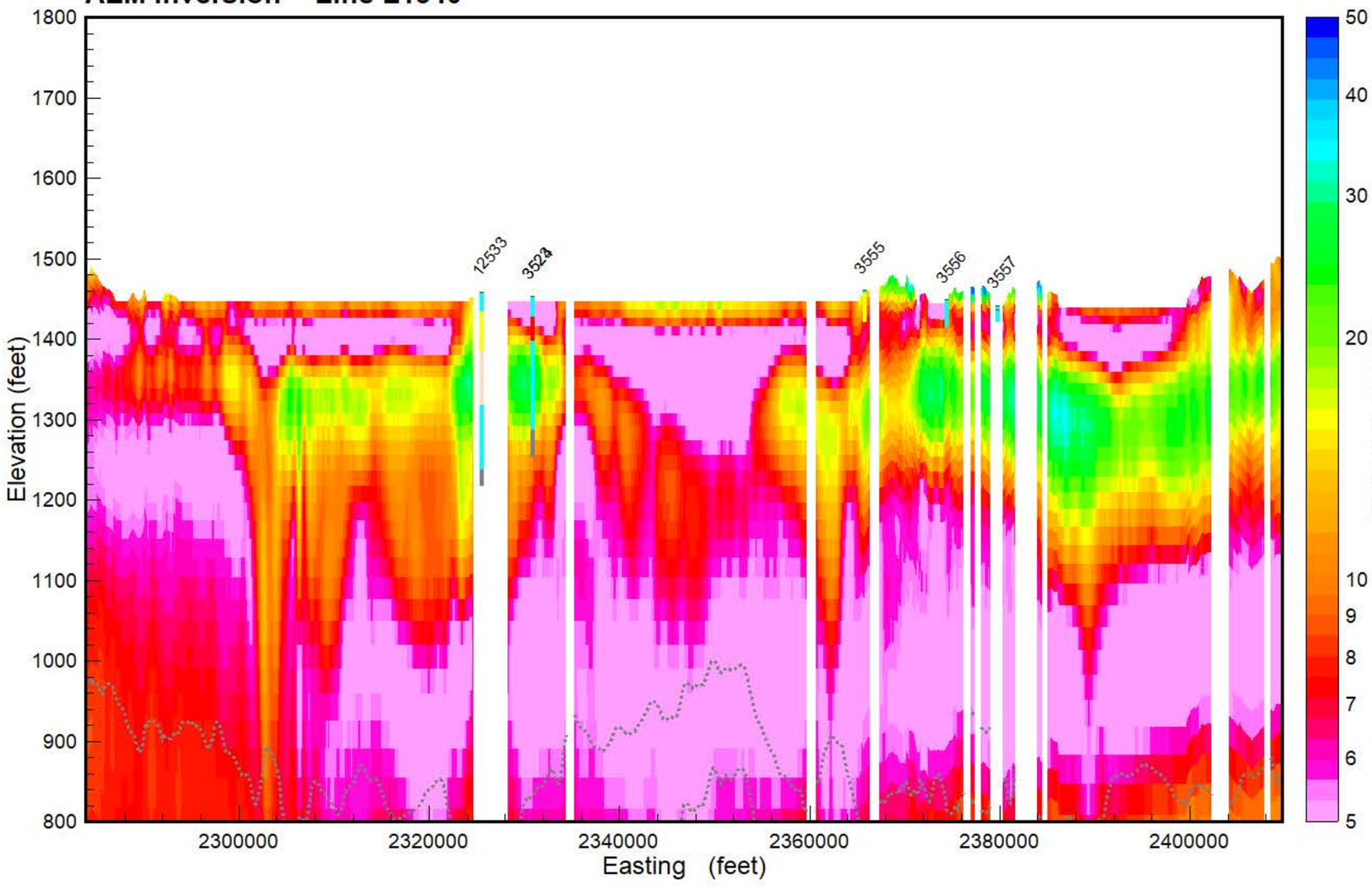
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SHALE
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SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

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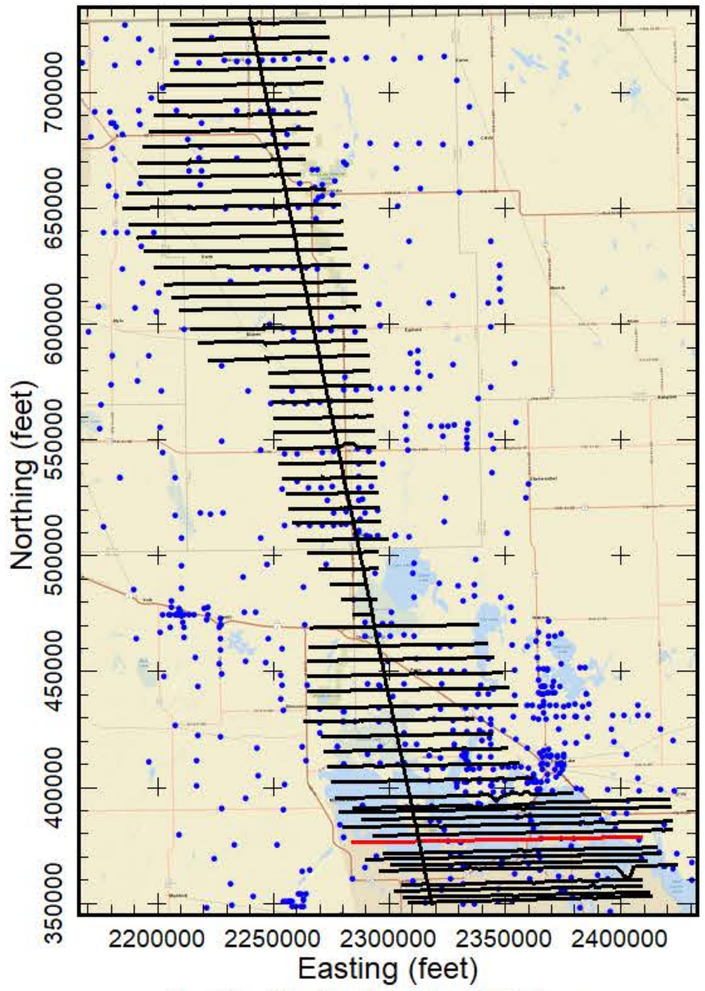
Flight Path Line L1540



AEM Inversion Line L1540



Flight Area Towner



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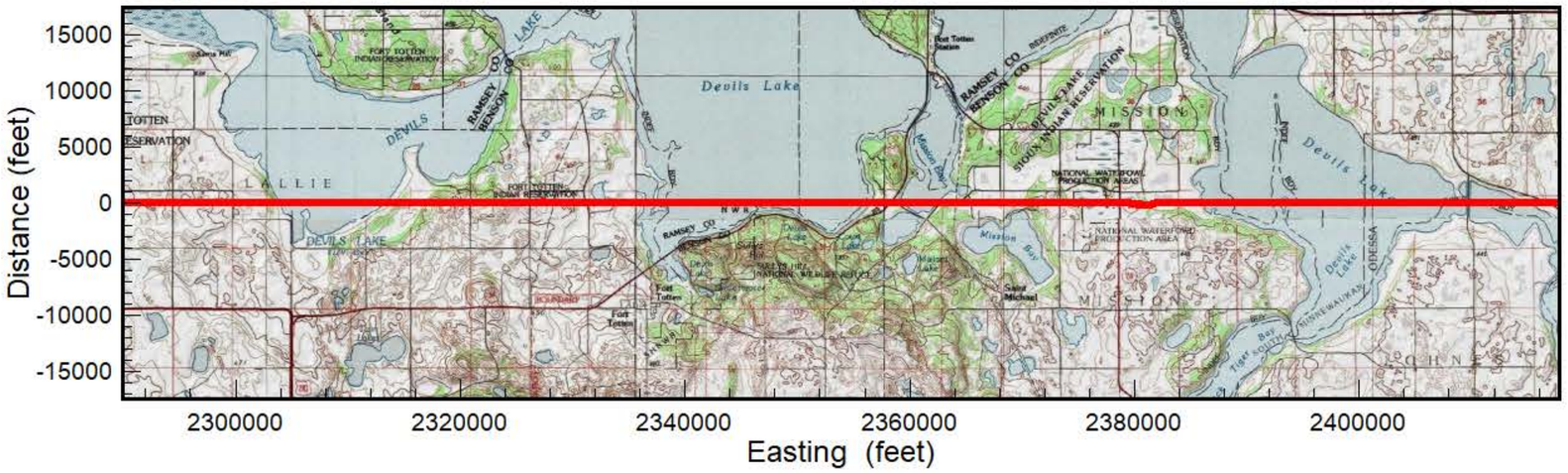
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SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
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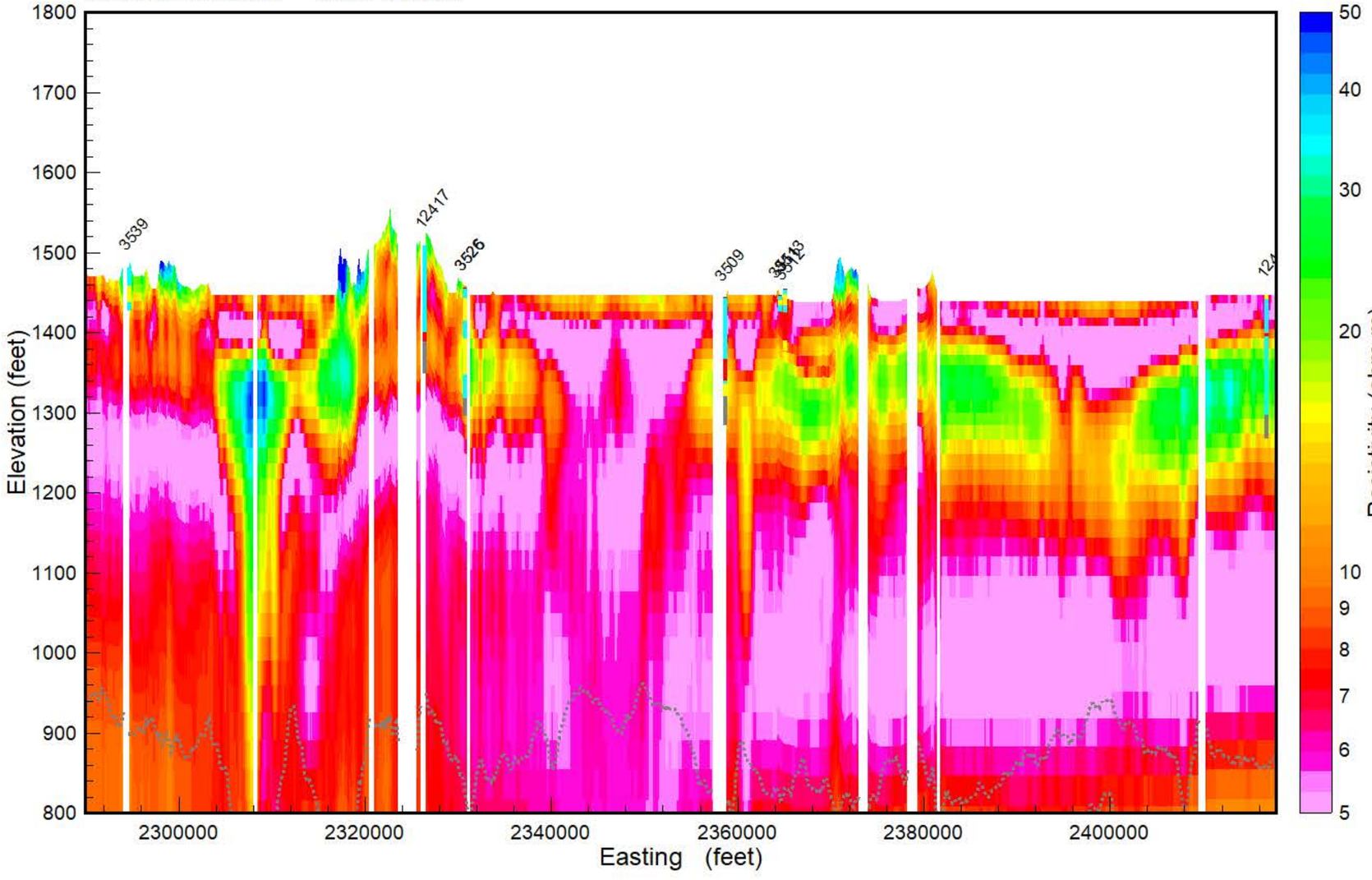
GEOTECH

AGF Aqua Geo Frameworks

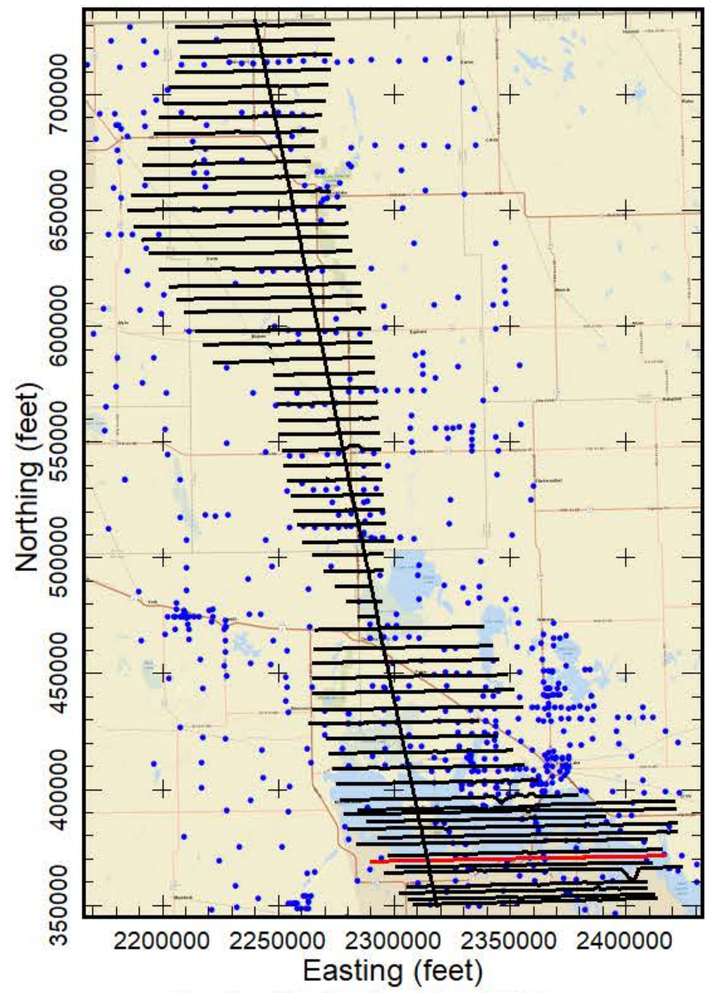
Flight Path Line L1550



AEM Inversion Line L1550



Flight Area Towner



NORTH Dakota Be Legendary. | Water Commission & State Engineer

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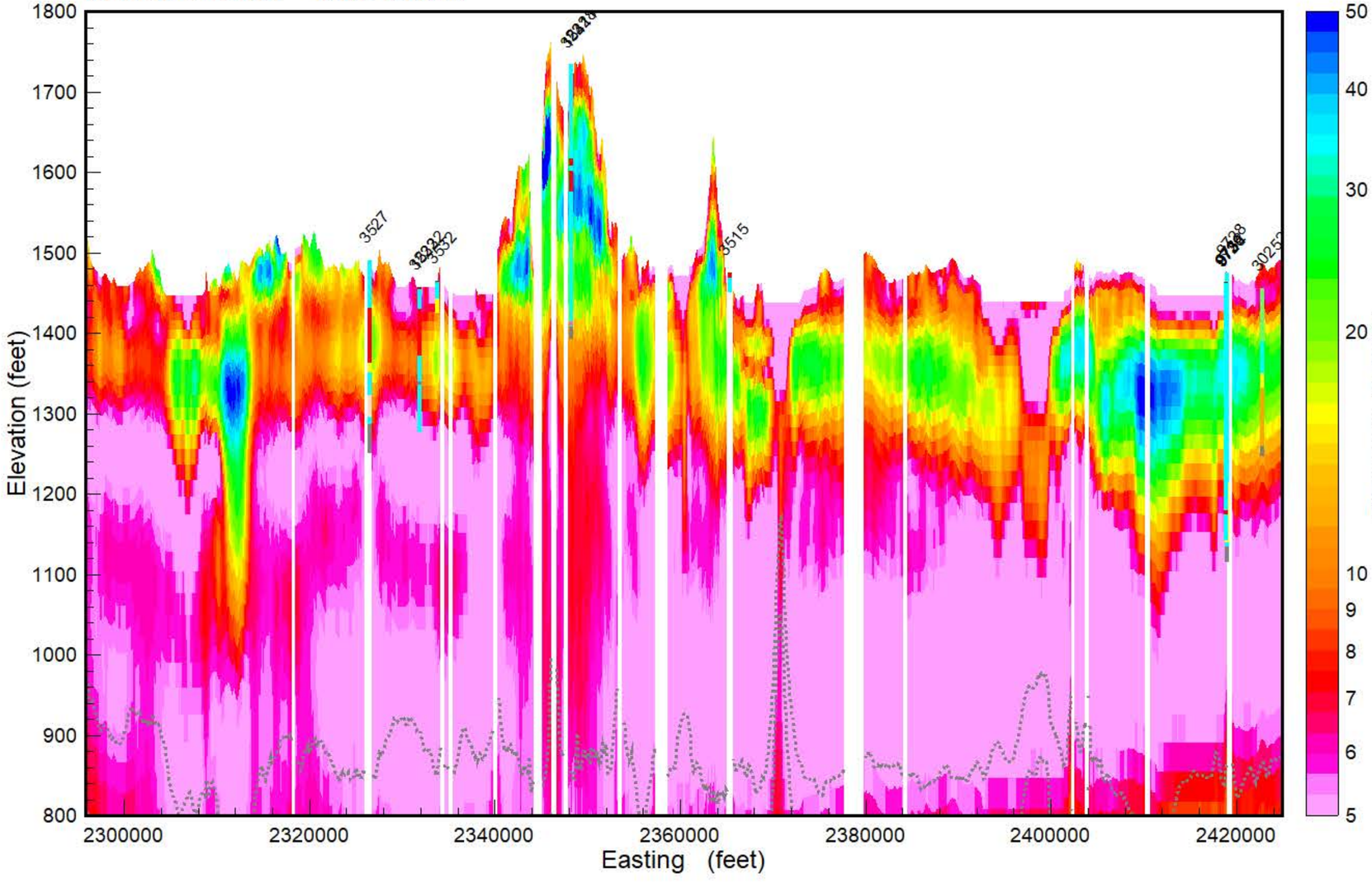
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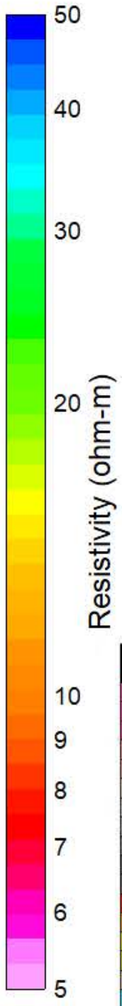
AGF Aqua Geo Frameworks

Flight Path Line L1560



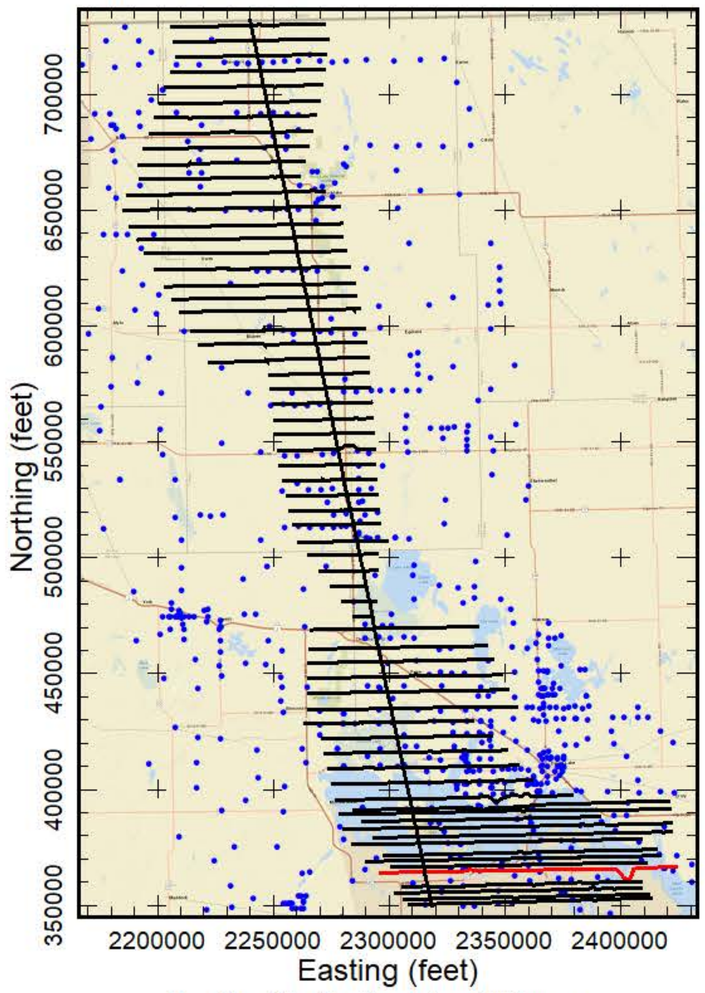
AEM Inversion Line L1560







Flight Area Towner



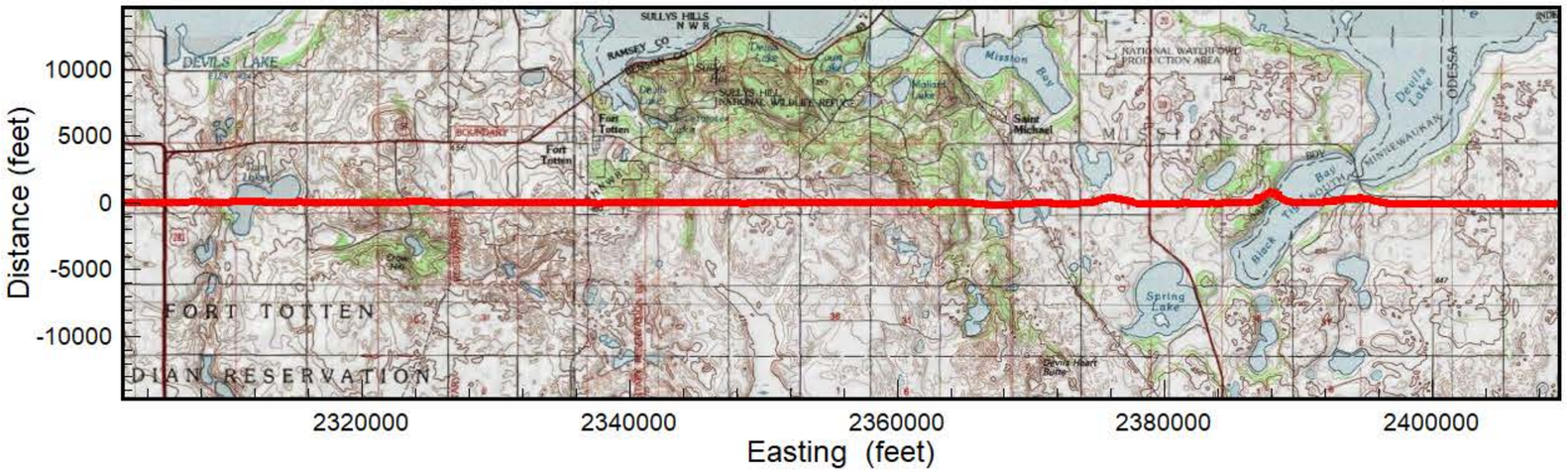
NORTH Dakota | Water Commission & State Engineer
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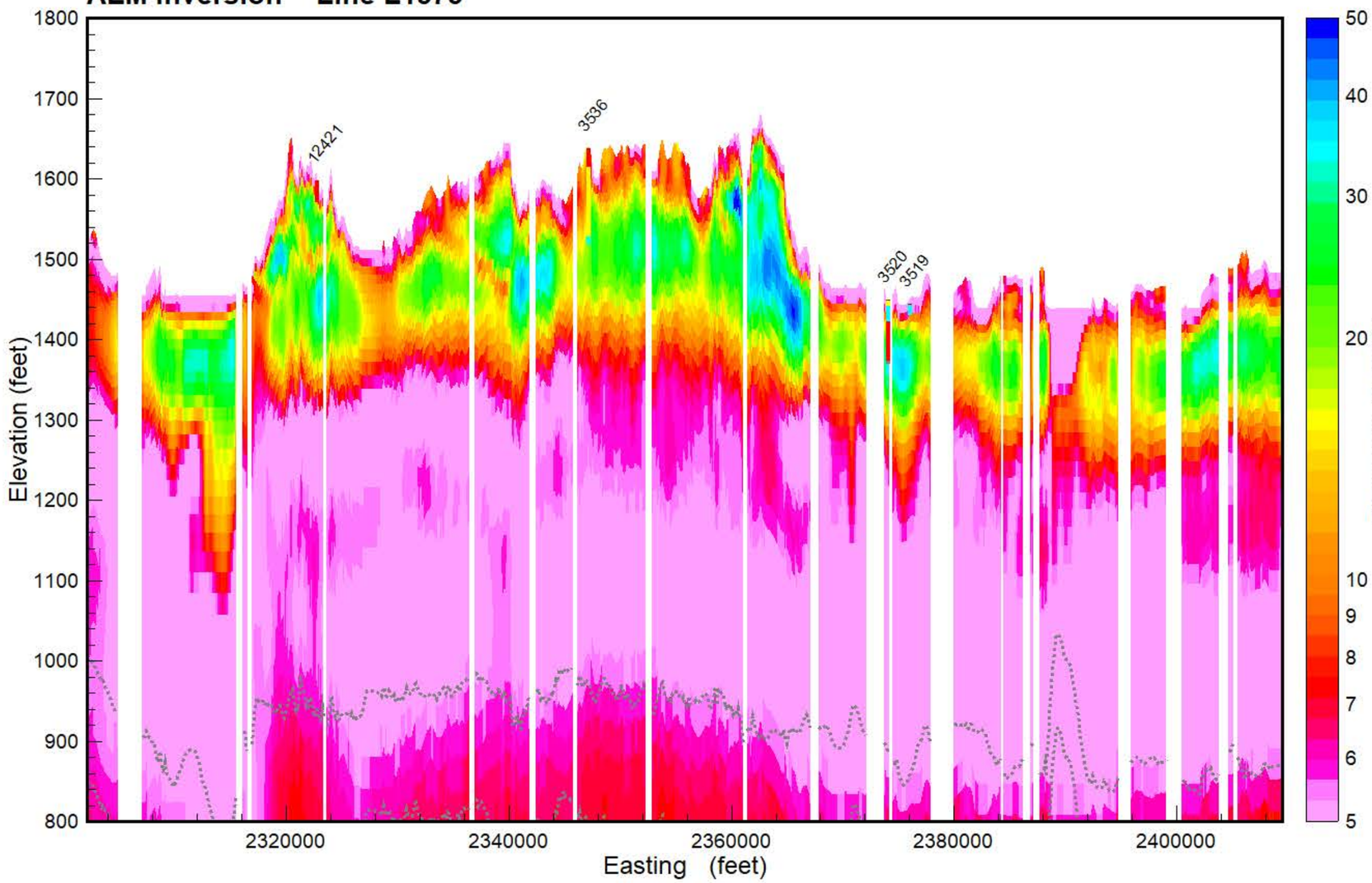
GEOTECH

AGF Aqua Geo Frameworks

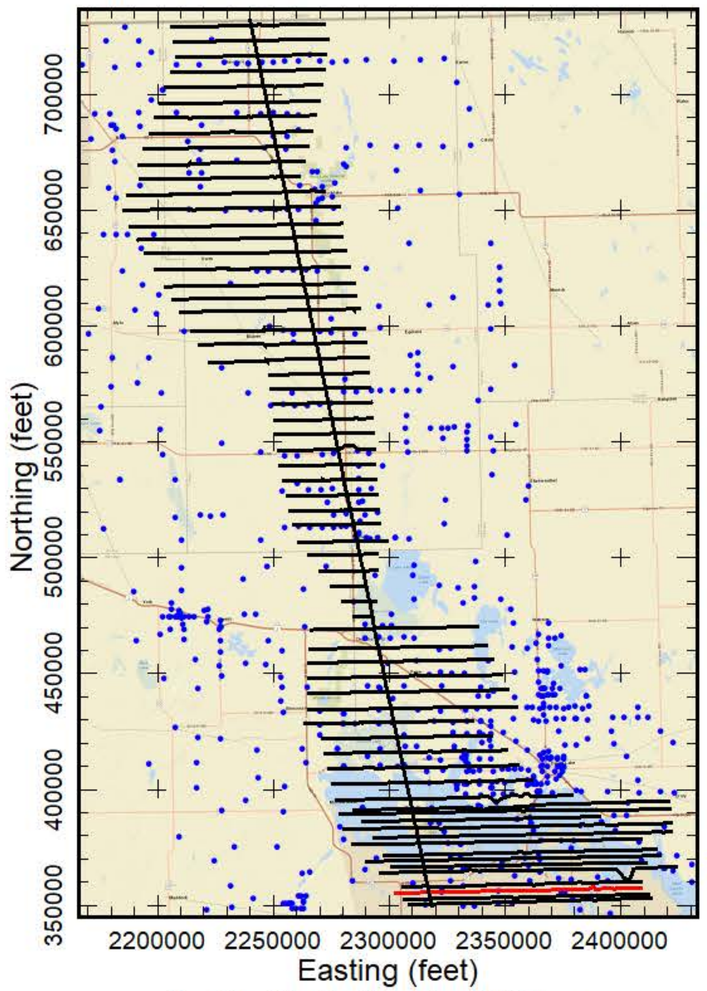
Flight Path Line L1575



AEM Inversion Line L1575



Flight Area Towner



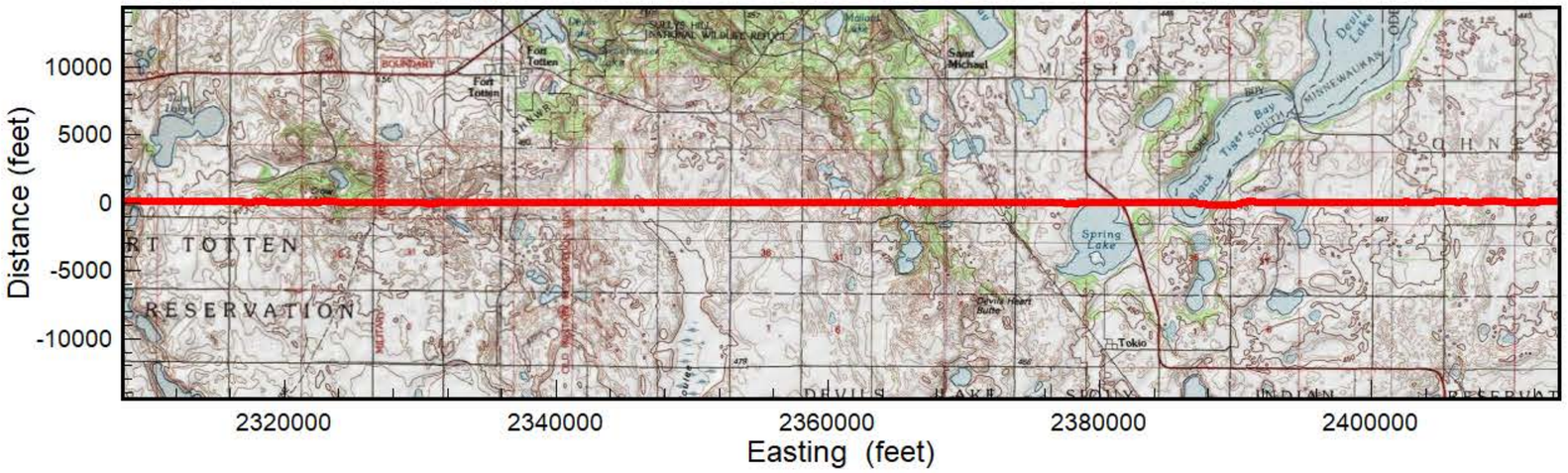
NORTH Dakota | Water Commission & State Engineer
Be Legendary.

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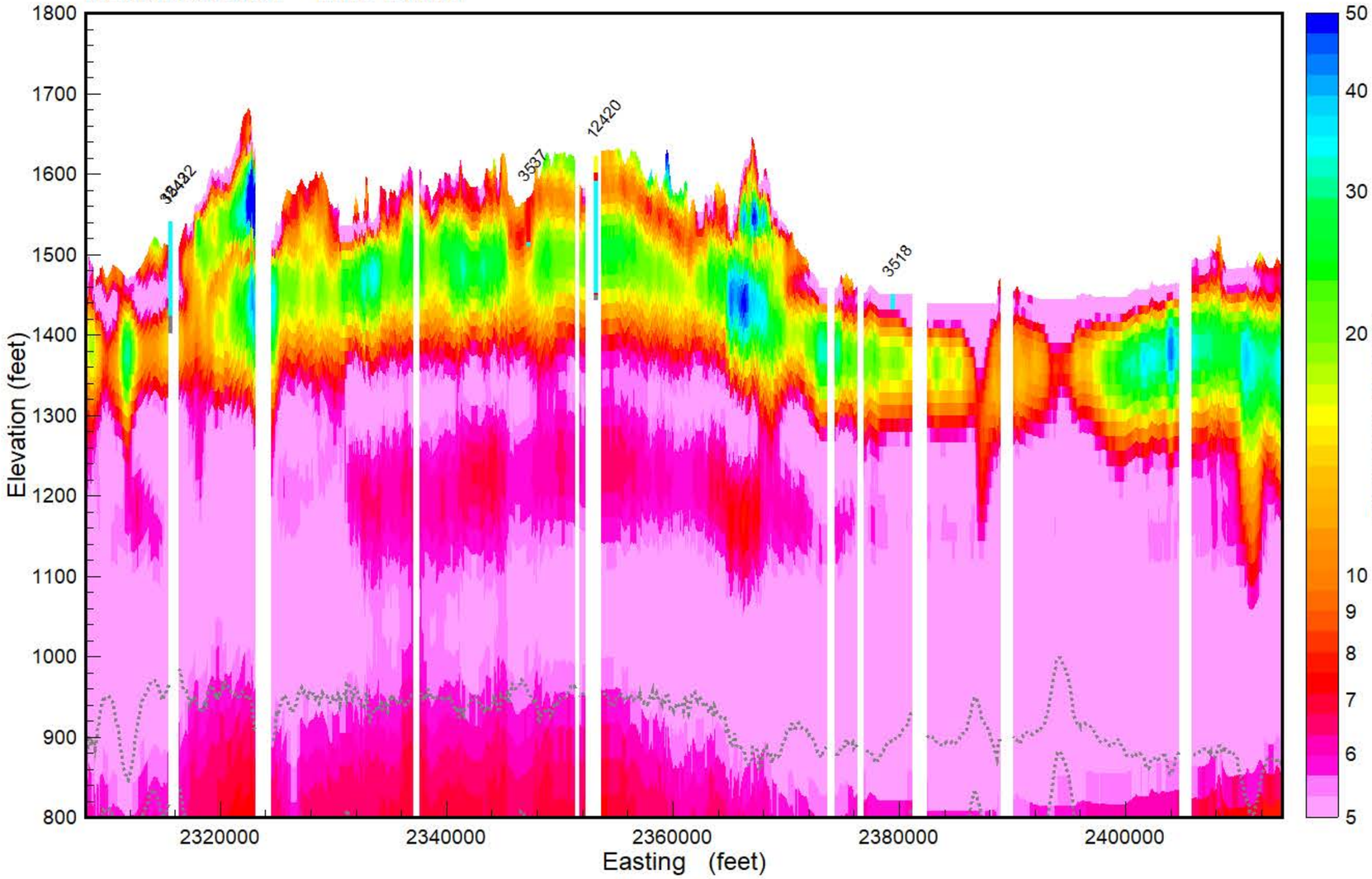
GEOTECH

AGF Aqua Geo Frameworks

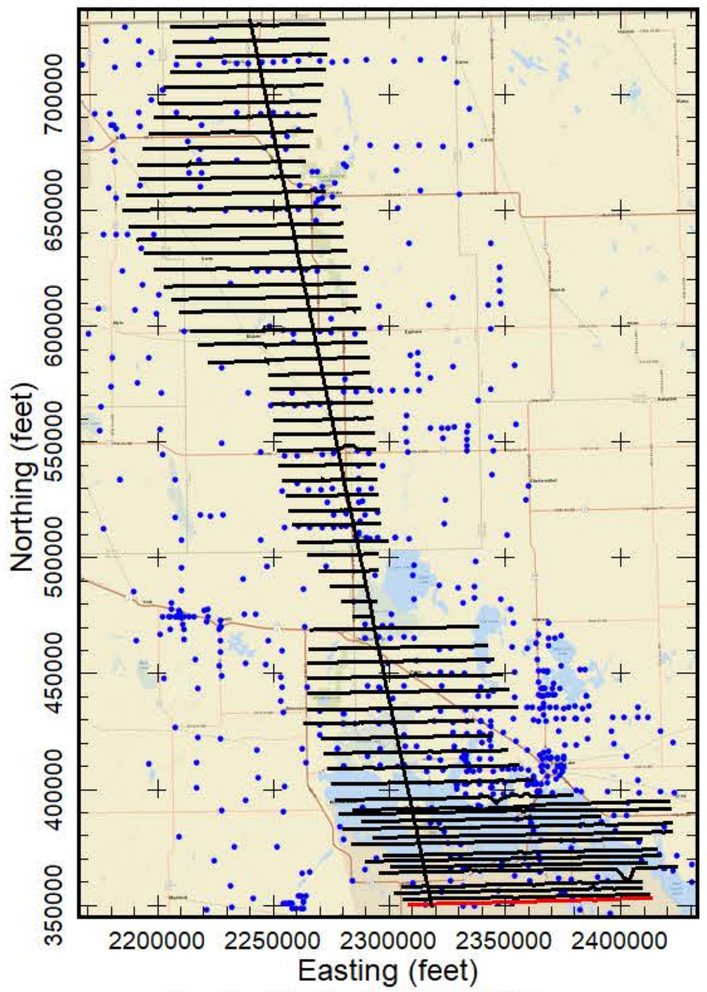
Flight Path Line L1585



AEM Inversion Line L1585



Flight Area Towner



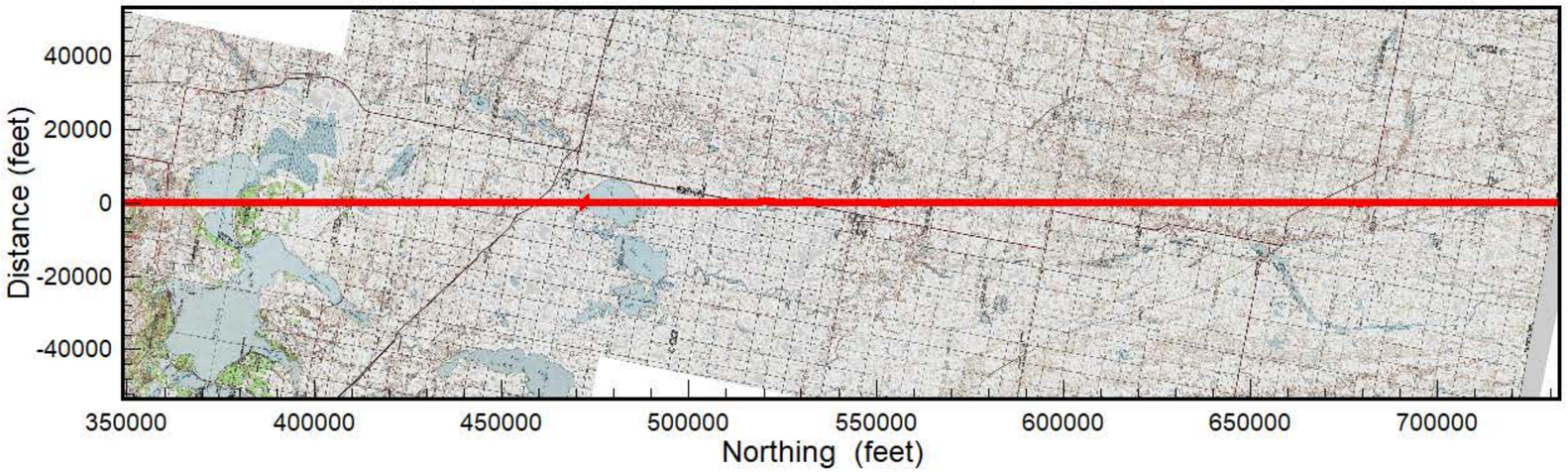
NORTH Dakota | Water Commission & State Engineer
Be Legendary.

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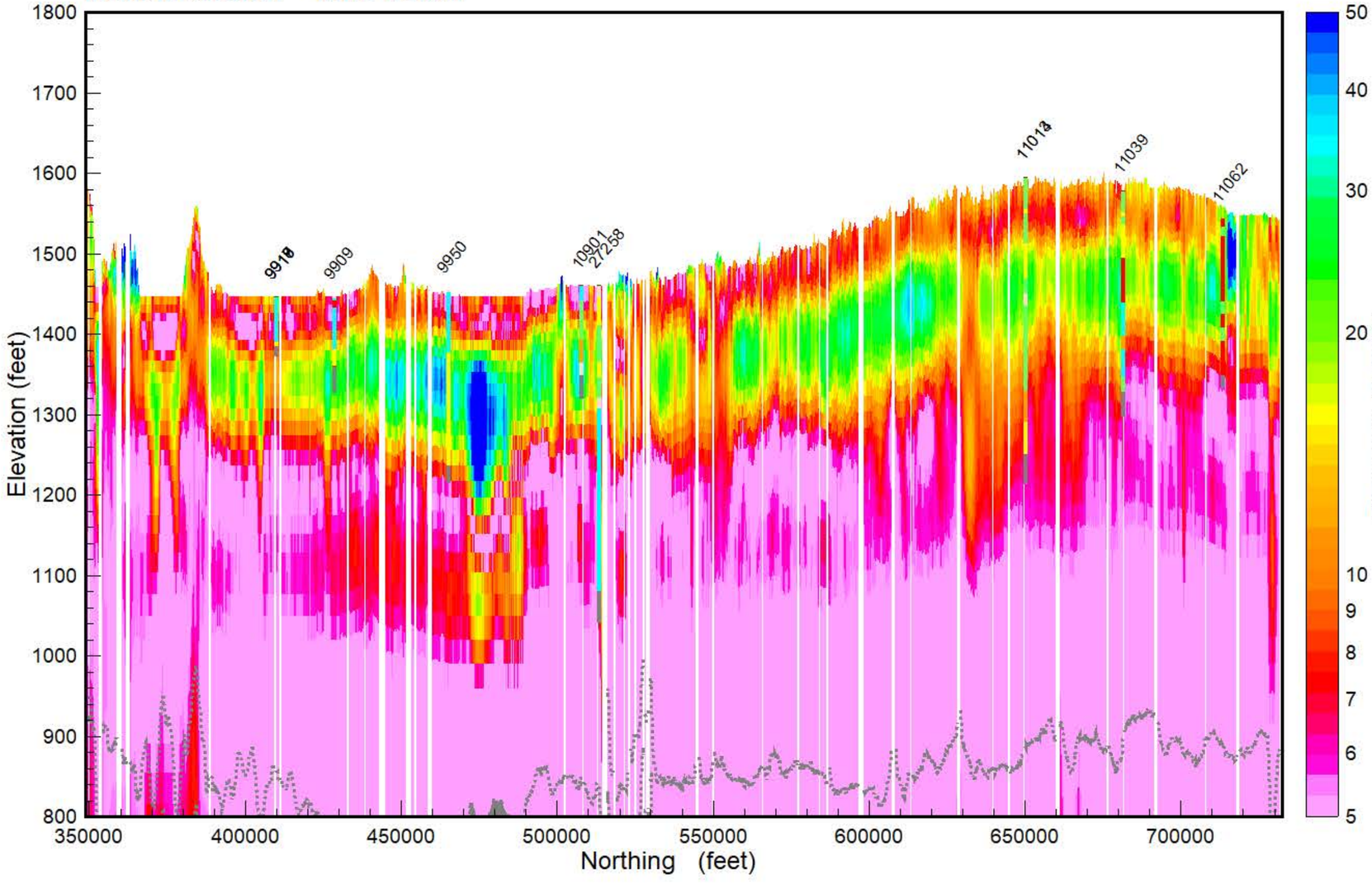
GEOTECH

AGF Aqua Geo Frameworks

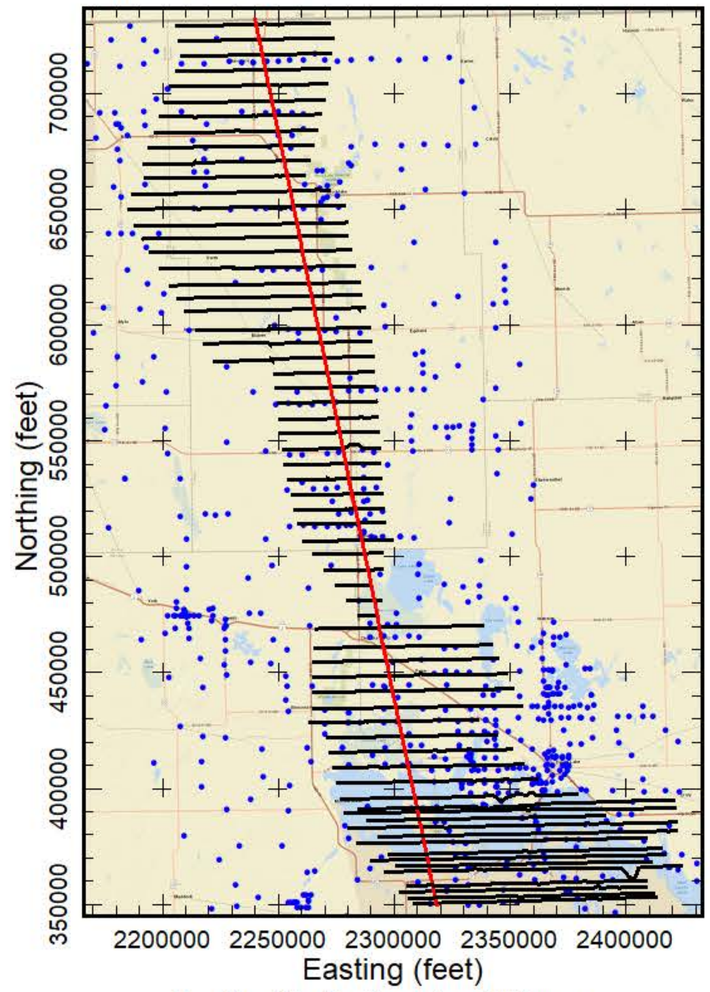
Flight Path Line L2005



AEM Inversion Line L2005



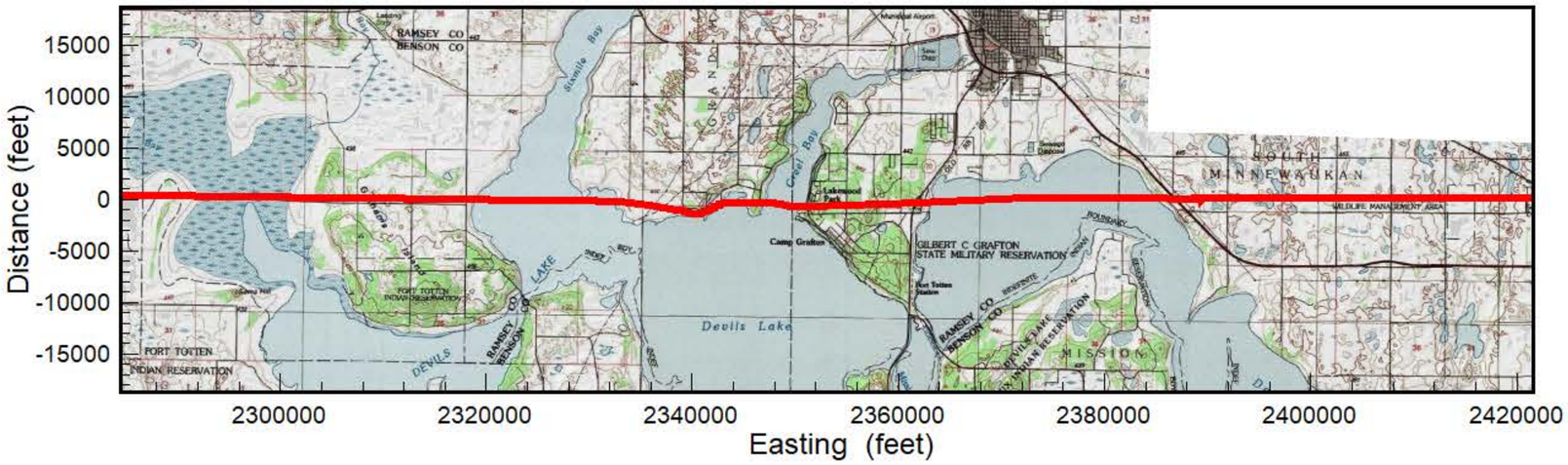
Flight Area Towner



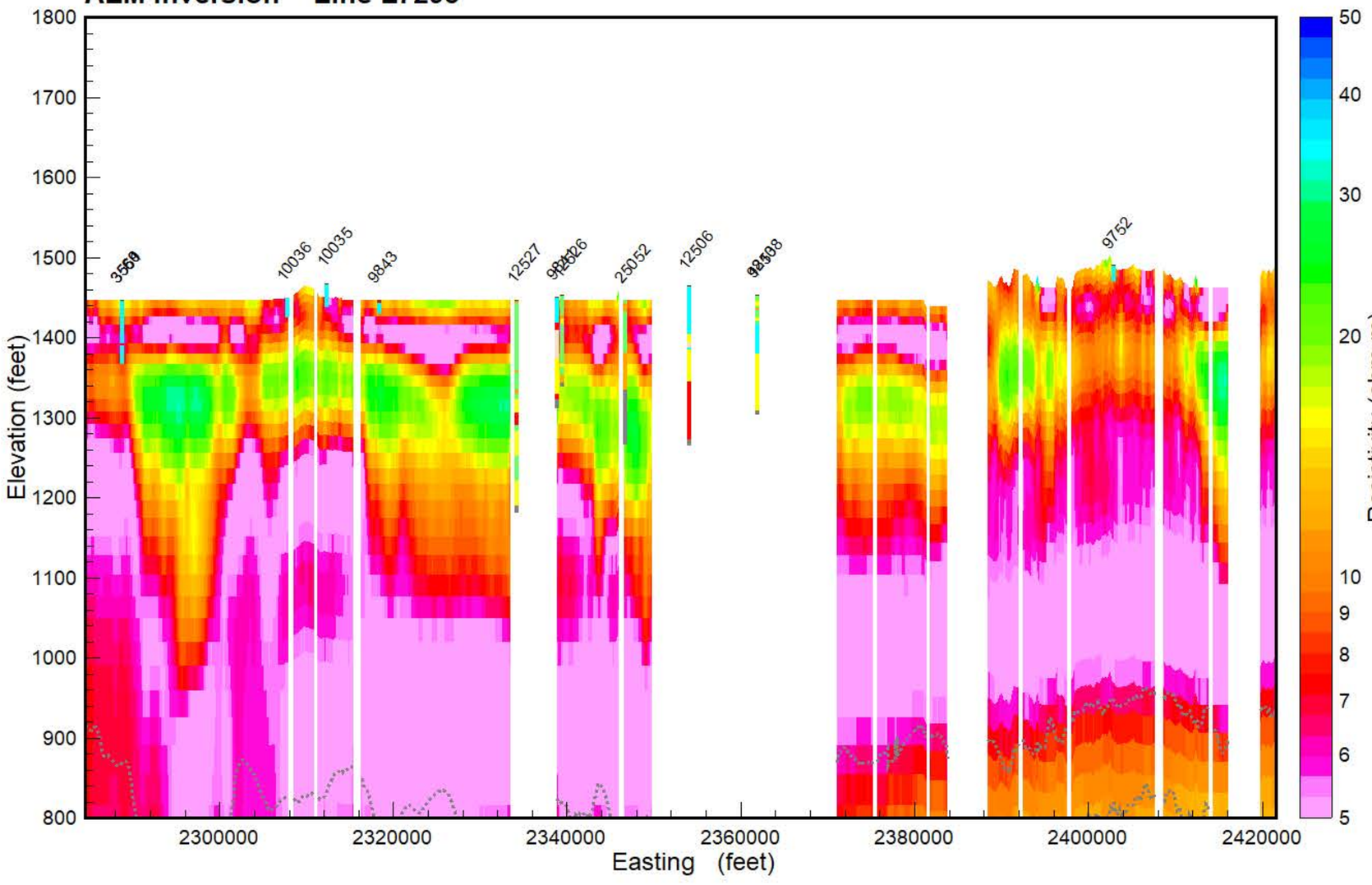
PEAT
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ROCK
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CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
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CLAY
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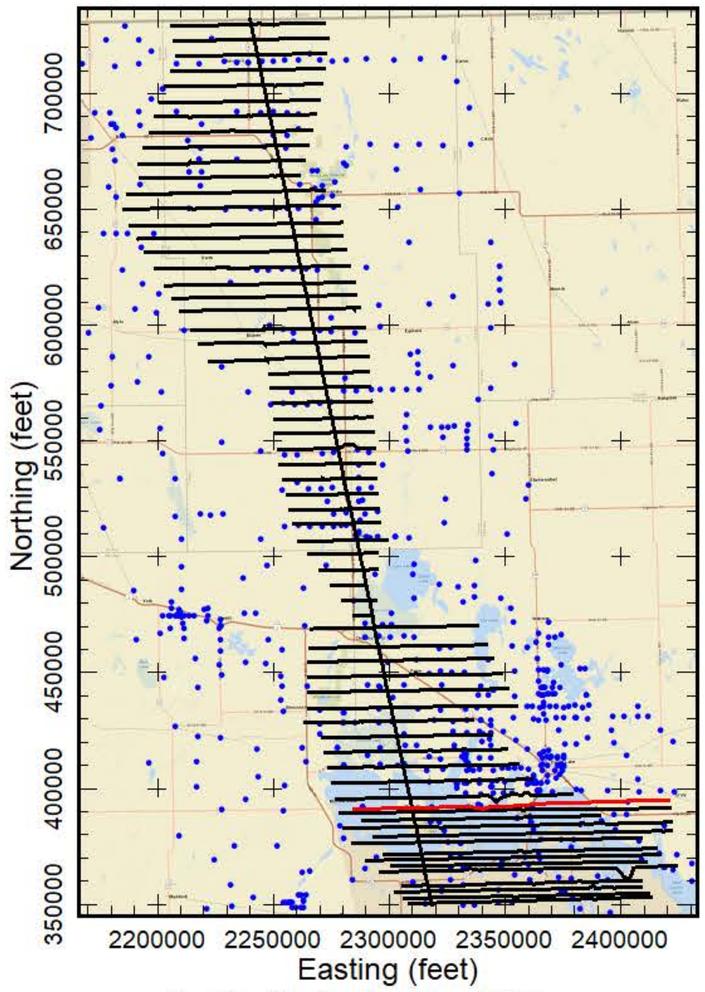
Flight Path Line L7295



AEM Inversion Line L7295



Flight Area Towner



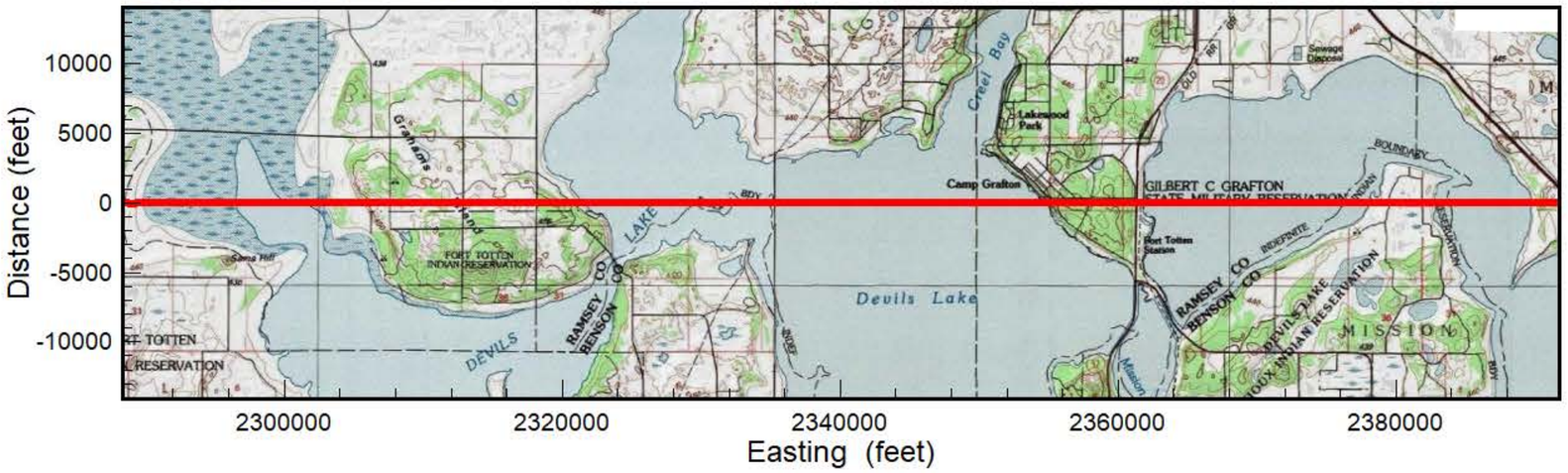
NORTH Dakota | Water Commission & State Engineer
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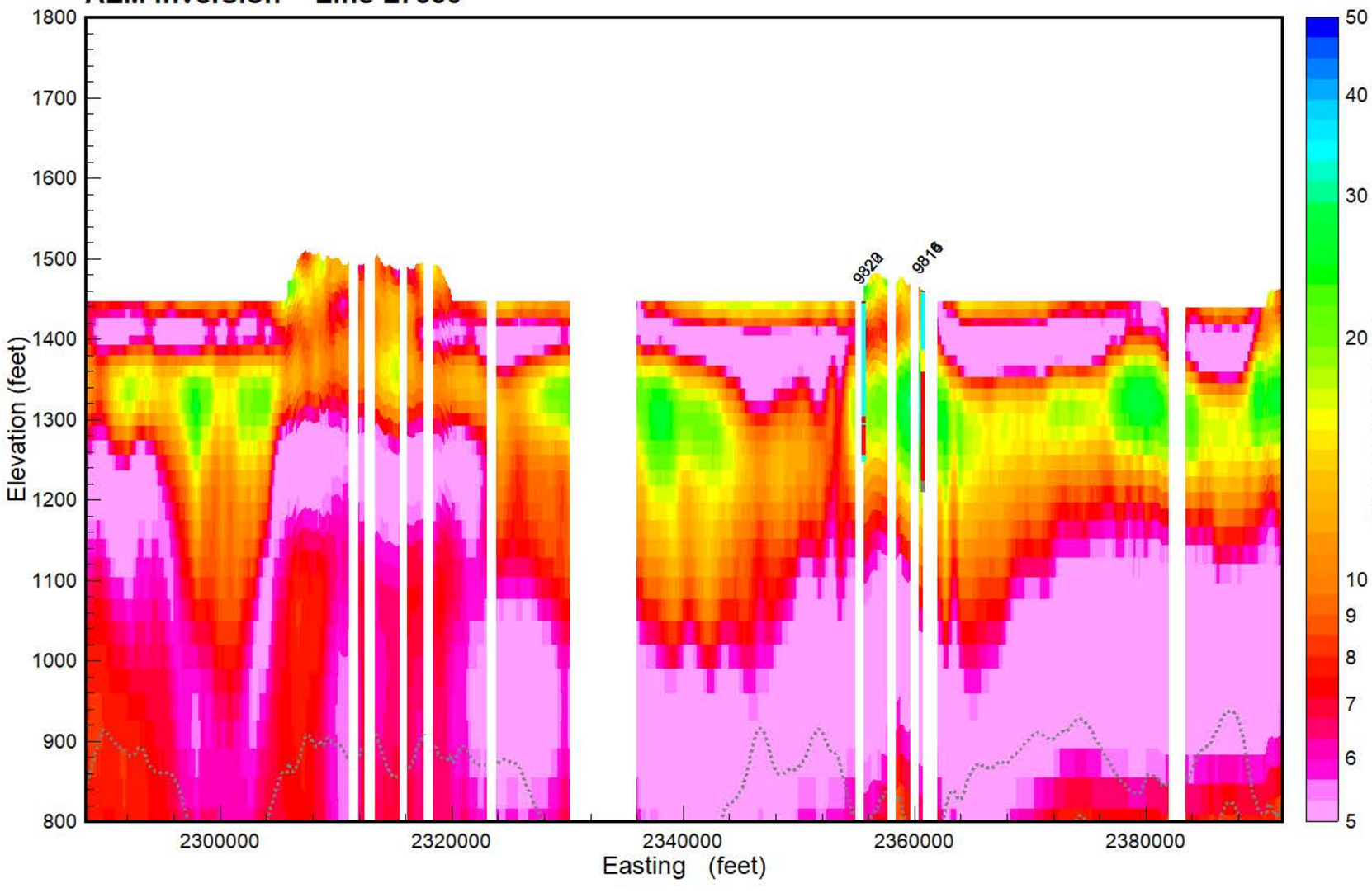
GEOTECH

AGF Aqua Geo Frameworks

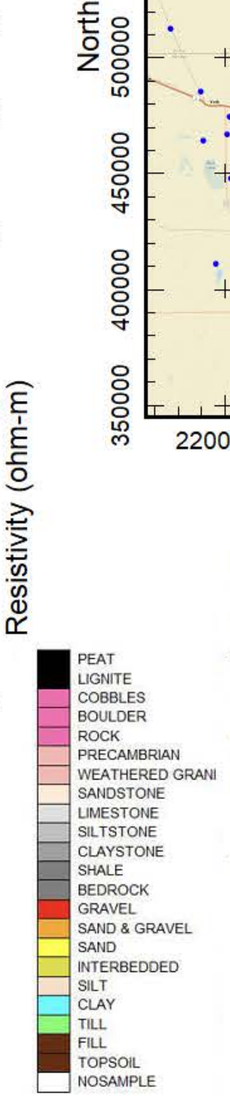
Flight Path Line L7330



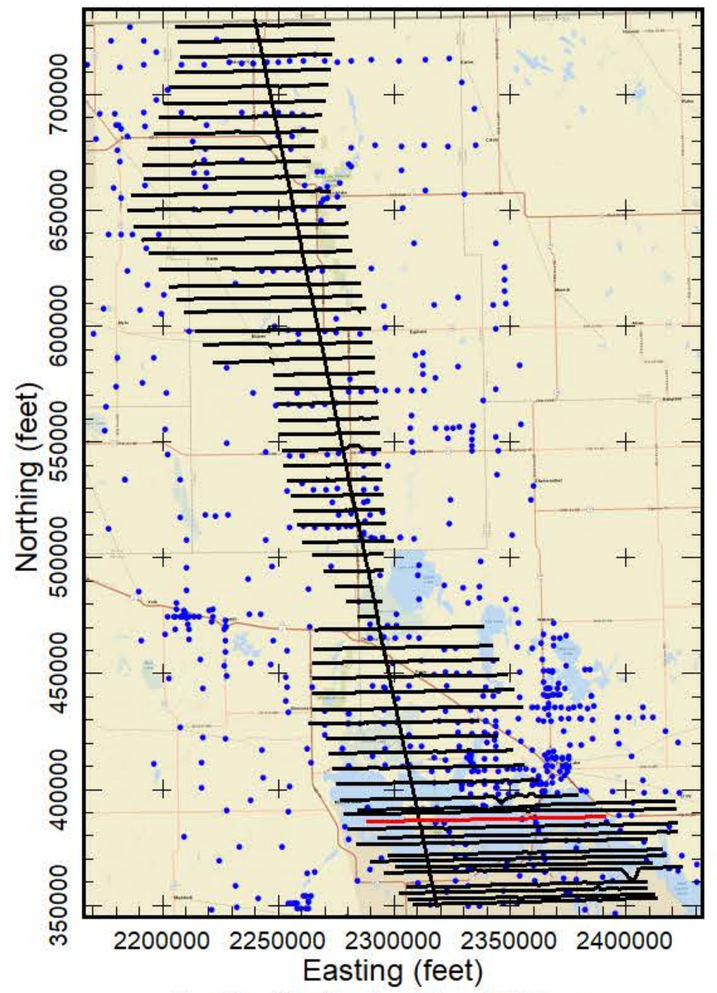
AEM Inversion Line L7330







Flight Area Towner



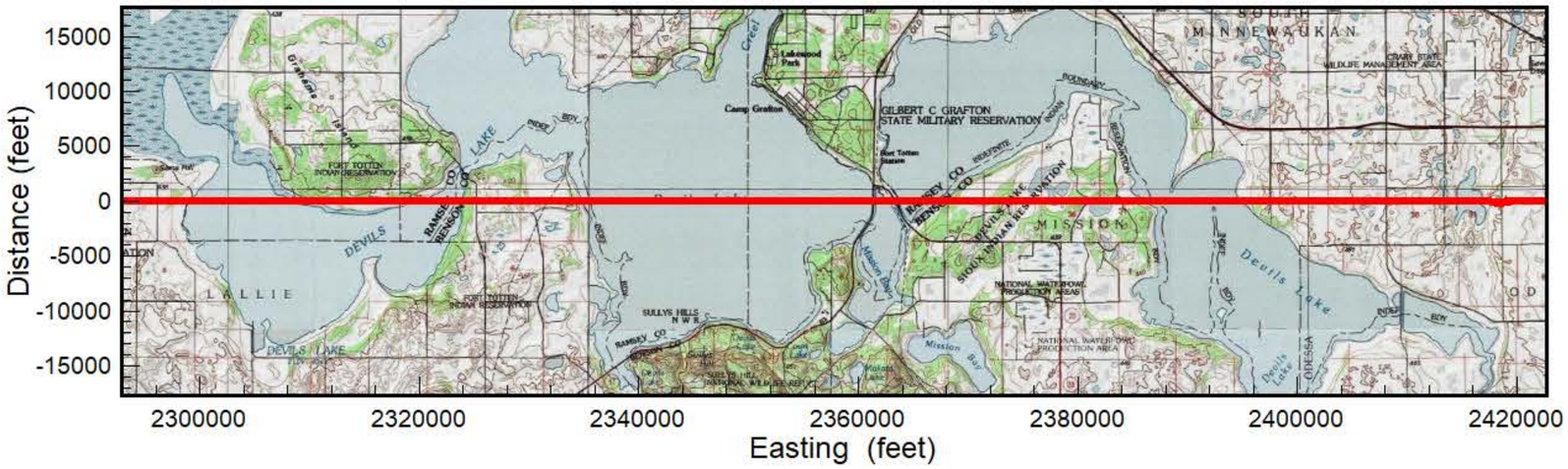
NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

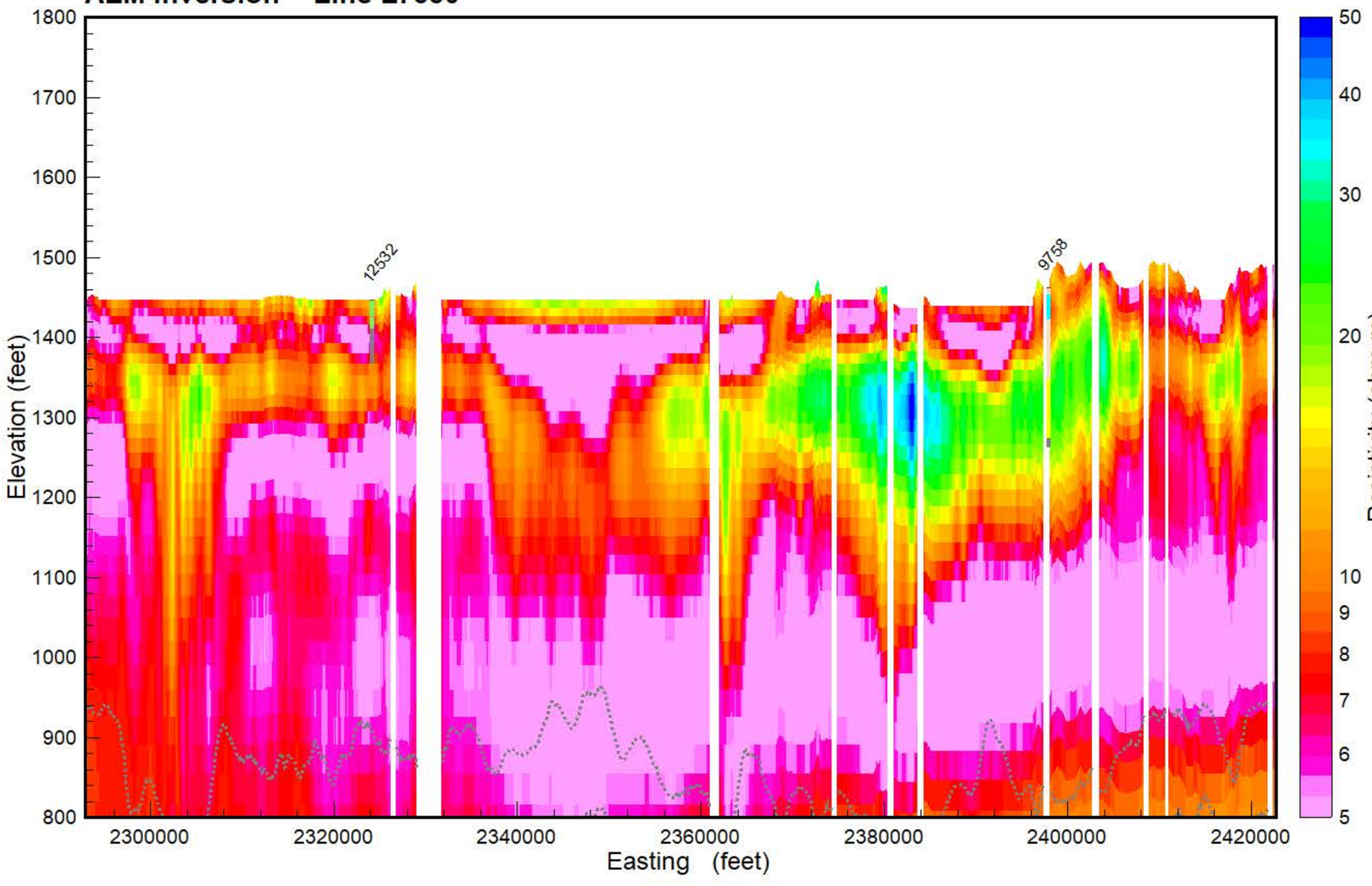
GEOTECH

AGF Aqua Geo Frameworks

Flight Path Line L7350

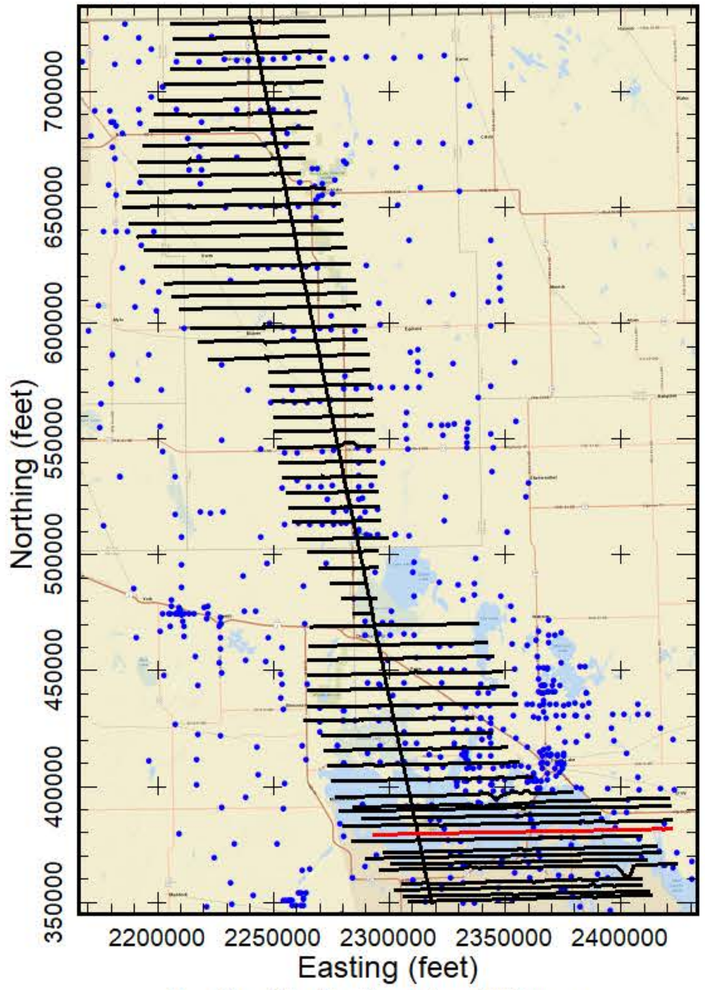


AEM Inversion Line L7350



NORTH Dakota | Water Commission & State Engineer

Flight Area Towner

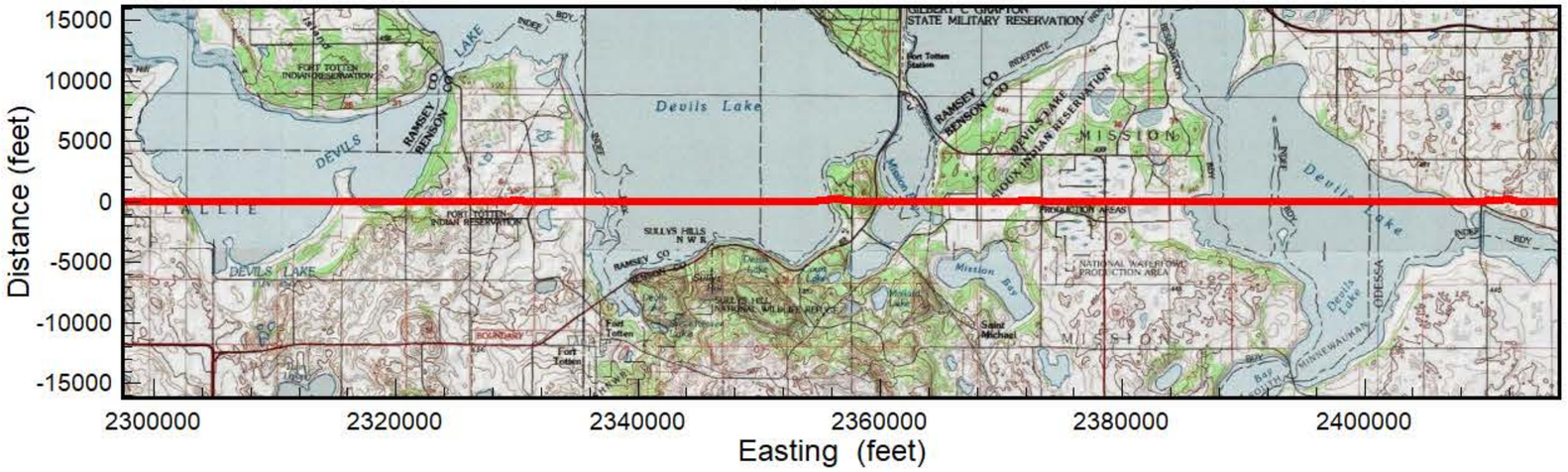


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

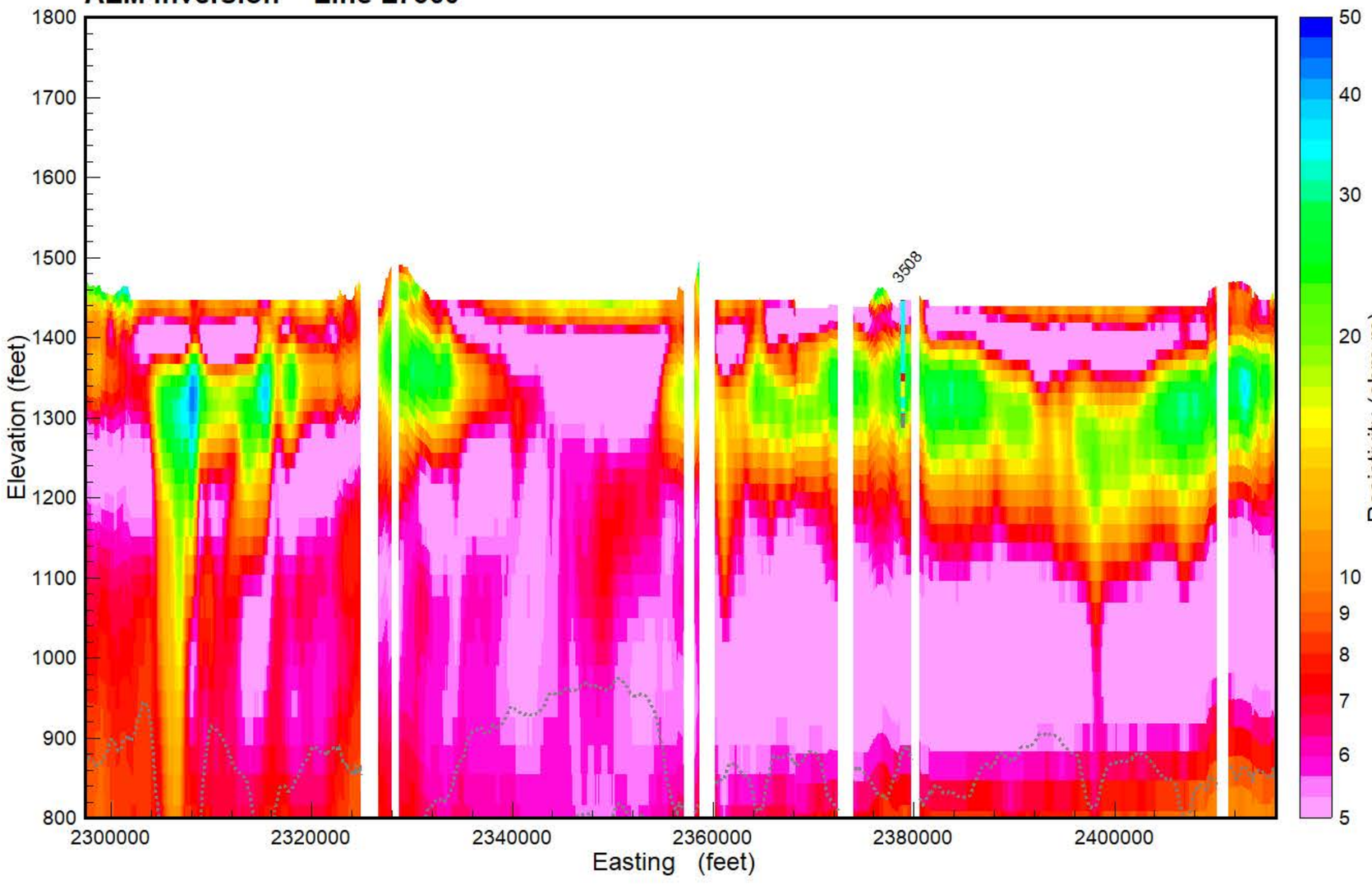
GEOTECH

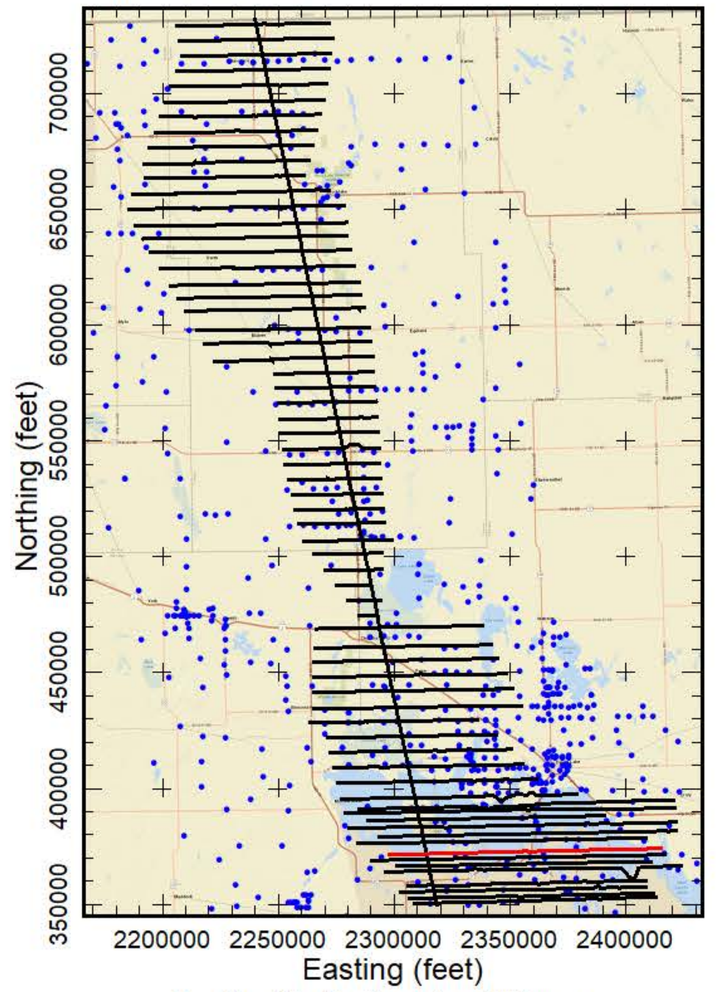
AGF Aqua Geo Frameworks

Flight Path Line L7360



AEM Inversion Line L7360





NORTH Dakota | Water Commission & State Engineer
Be Legendary.

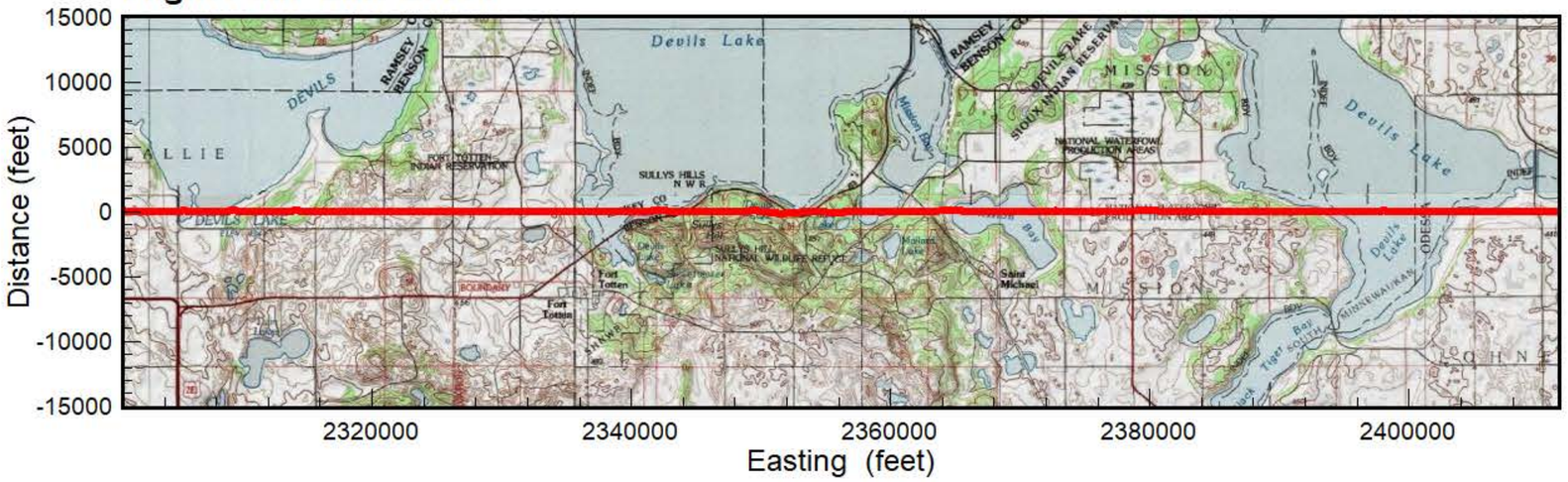
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LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

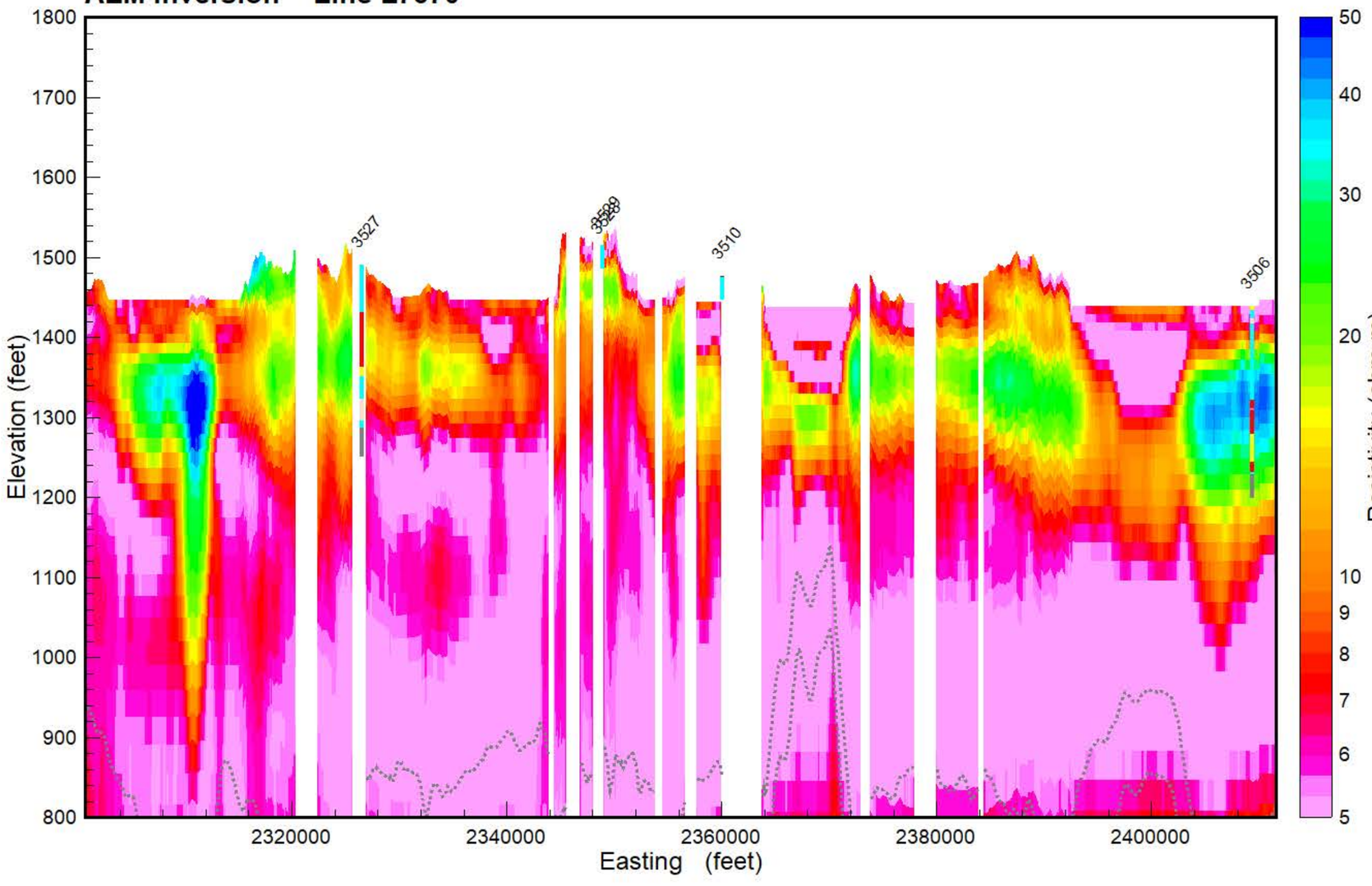
GEOTECH

AGF Aqua Geo Frameworks

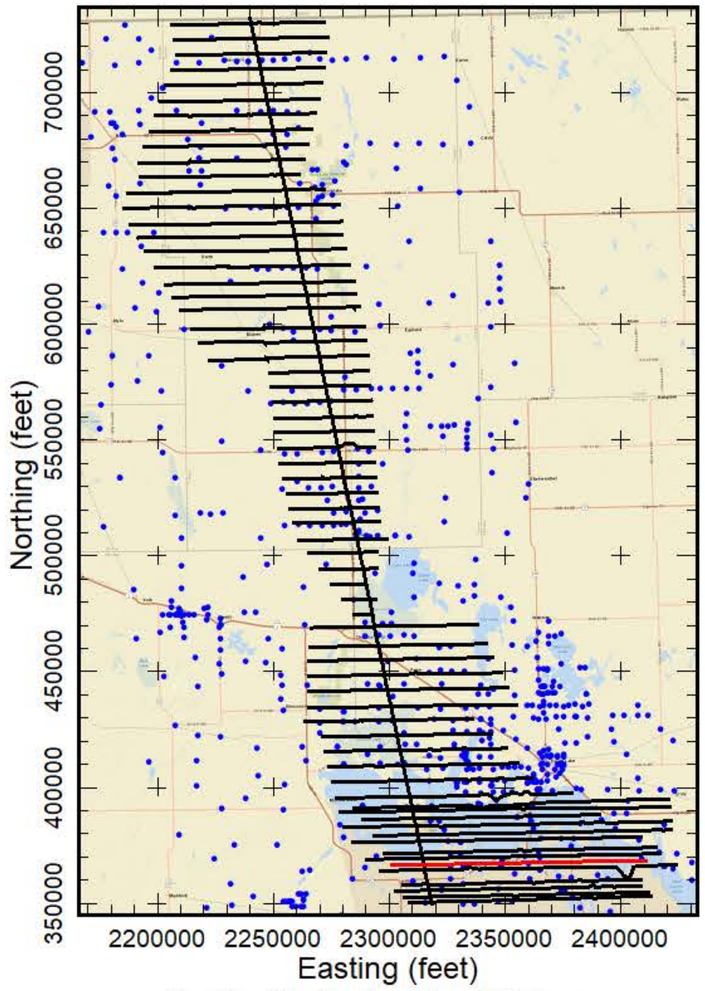
Flight Path Line L7370



AEM Inversion Line L7370



Flight Area Towner



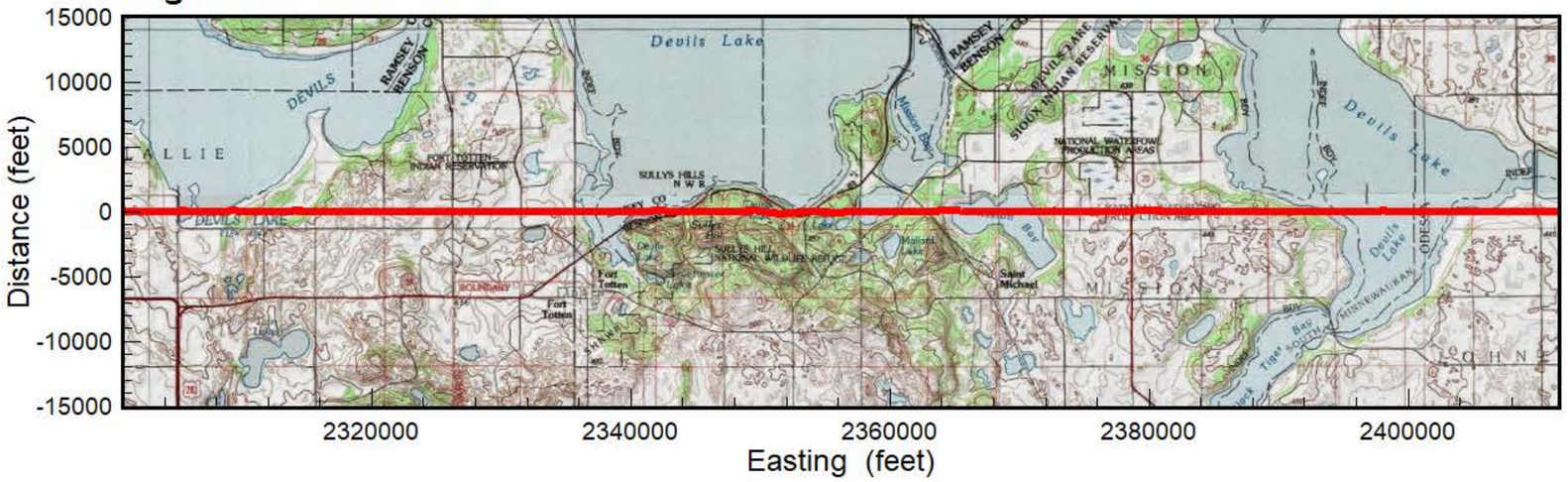
NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

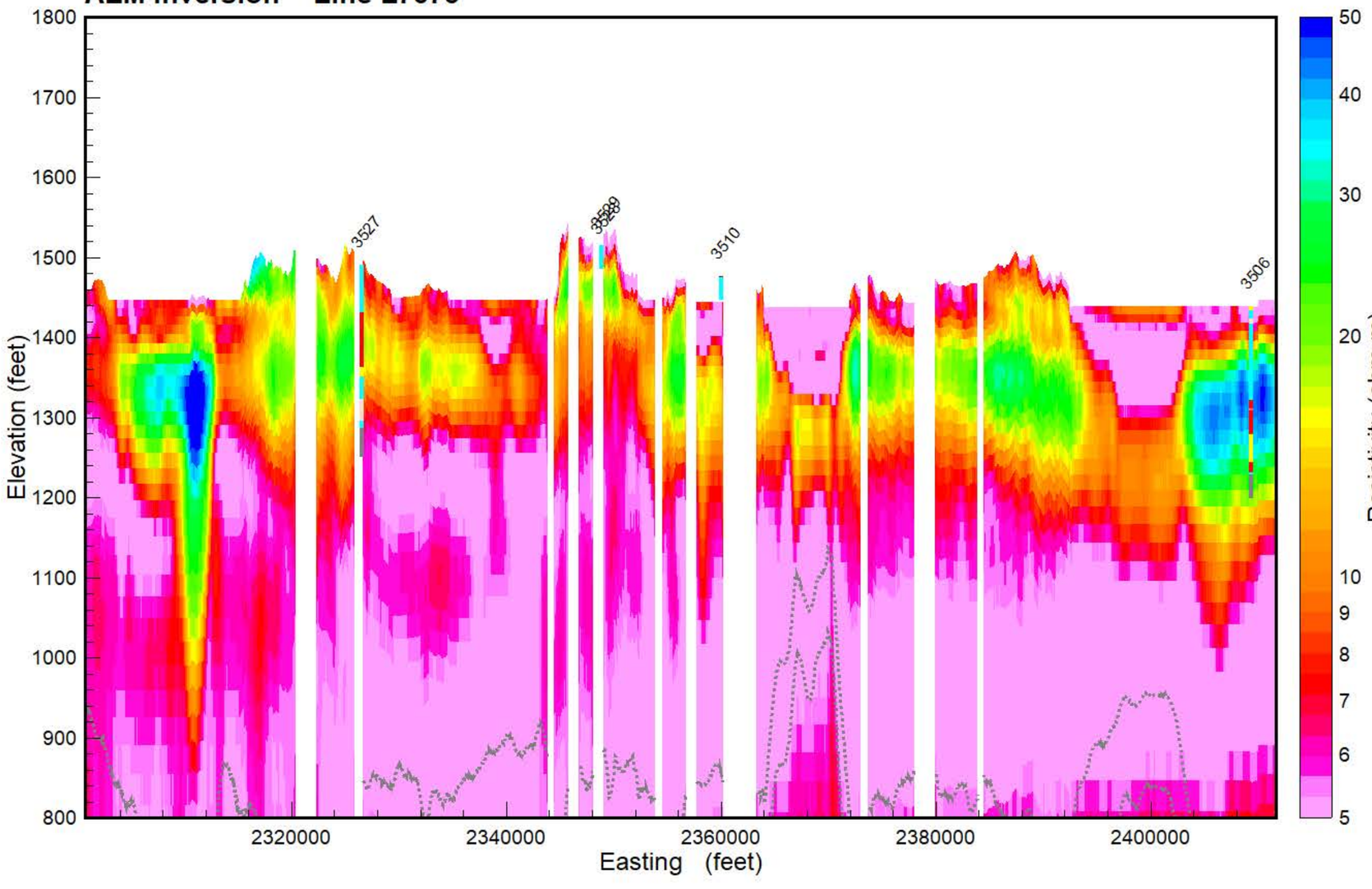
GEOTECH

AGF Aqua Geo Frameworks

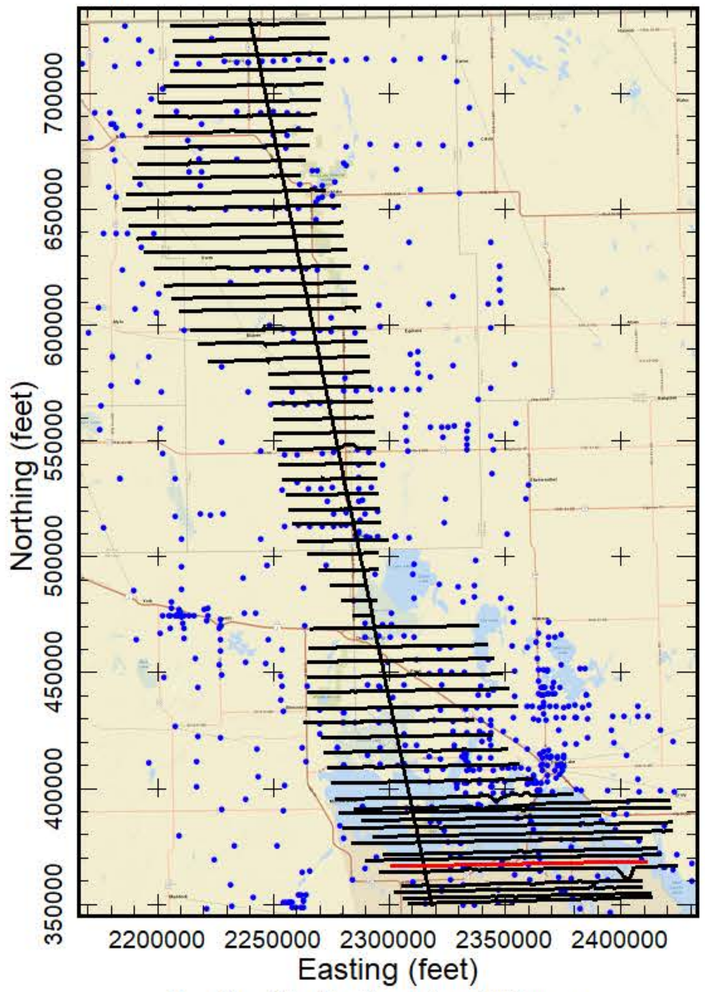
Flight Path Line L7375



AEM Inversion Line L7375



Flight Area Towner



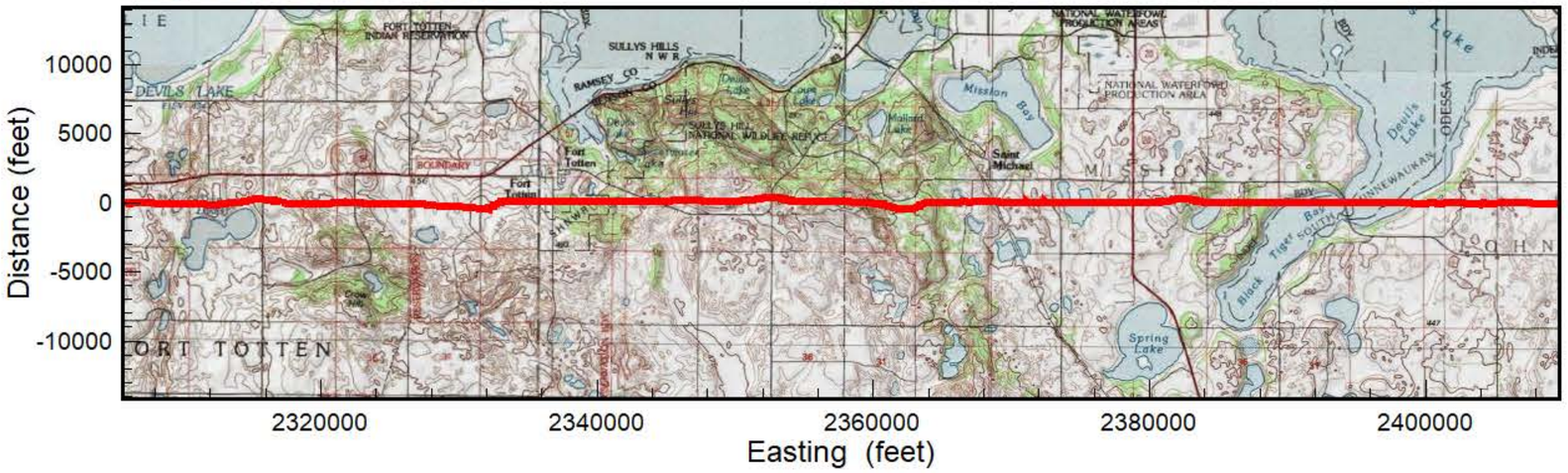
NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

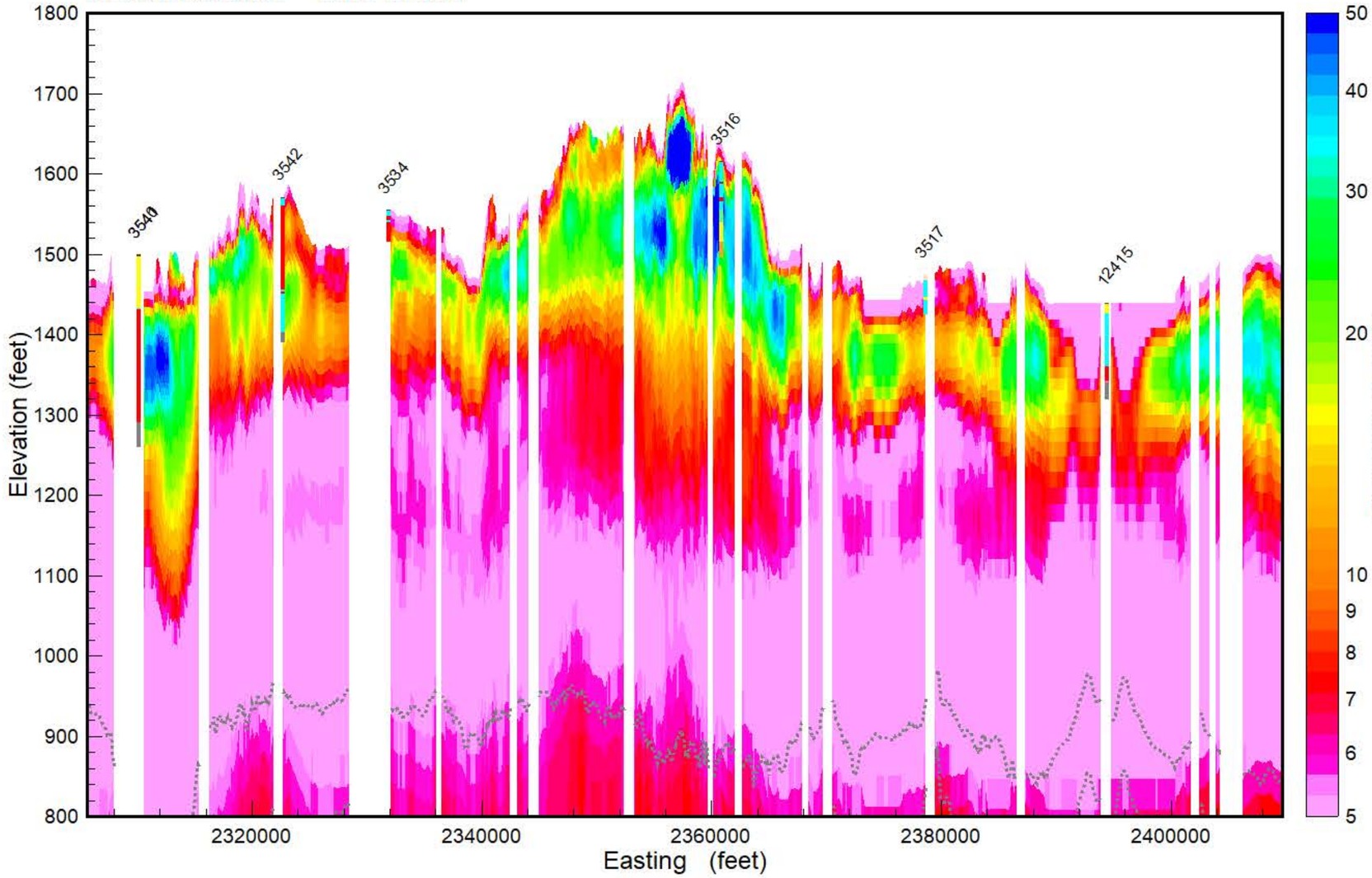
GEOTECH

AGF Aqua Geo Frameworks

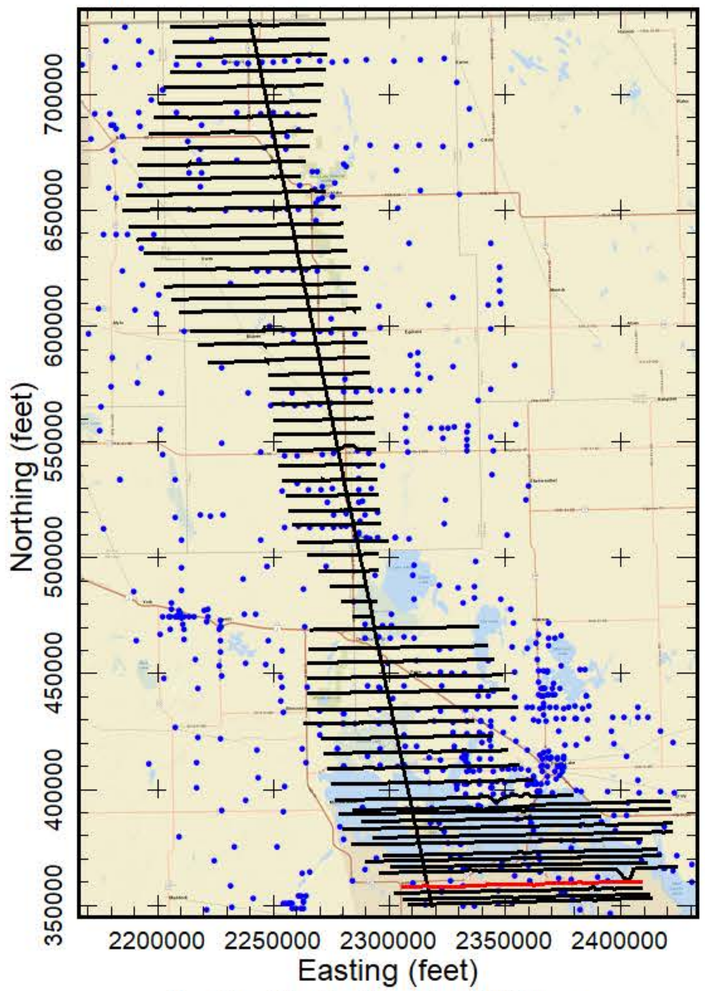
Flight Path Line L7385



AEM Inversion Line L7385



Flight Area Towner



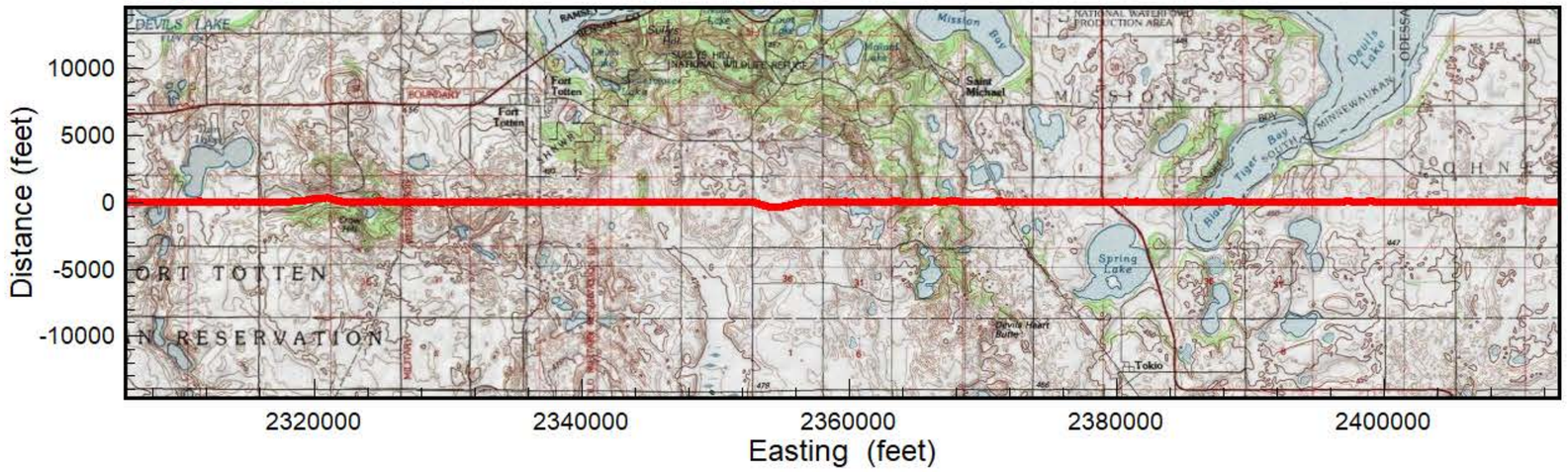
NORTH Dakota | Water Commission & State Engineer
Be Legendary.

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

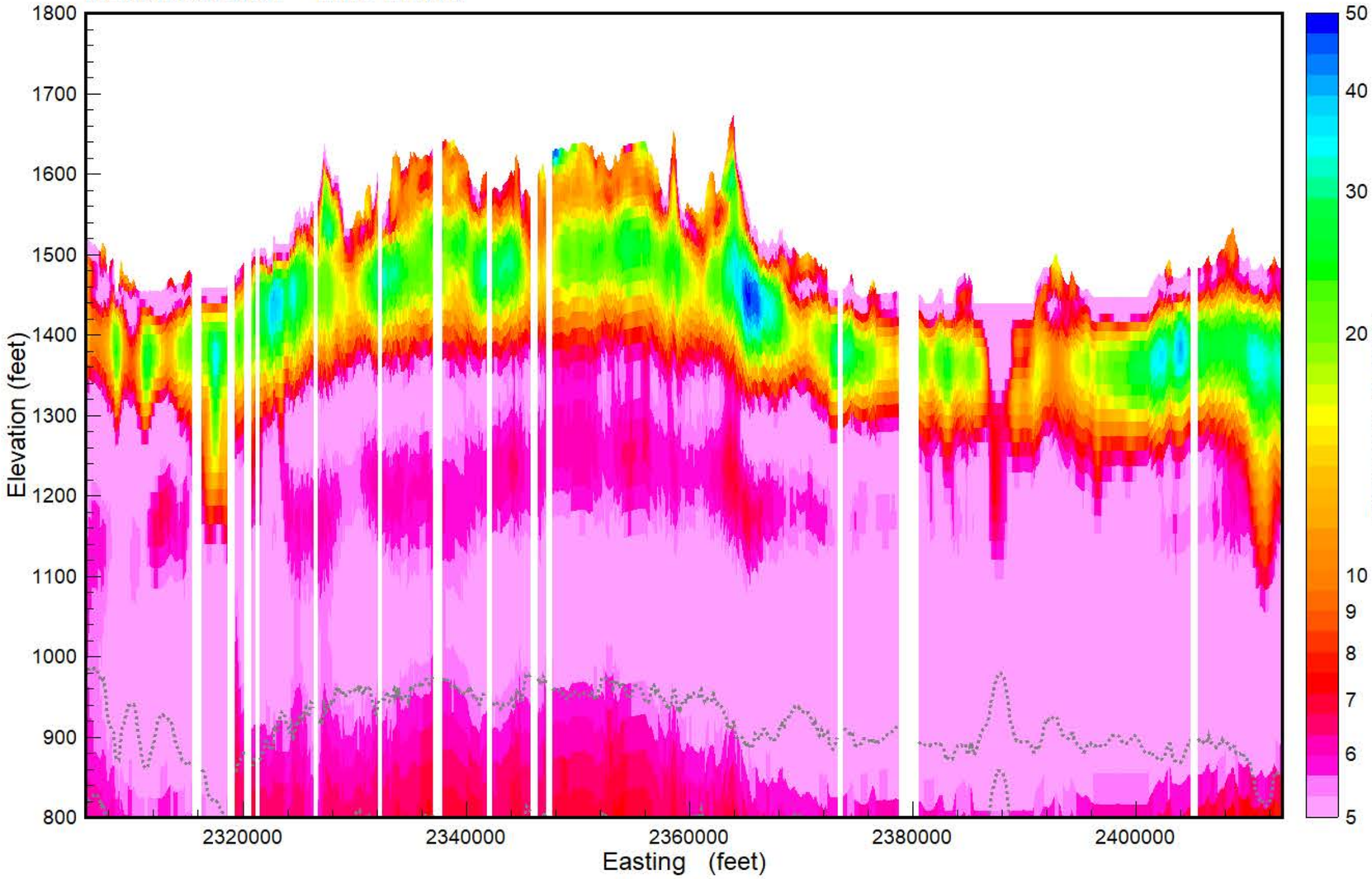
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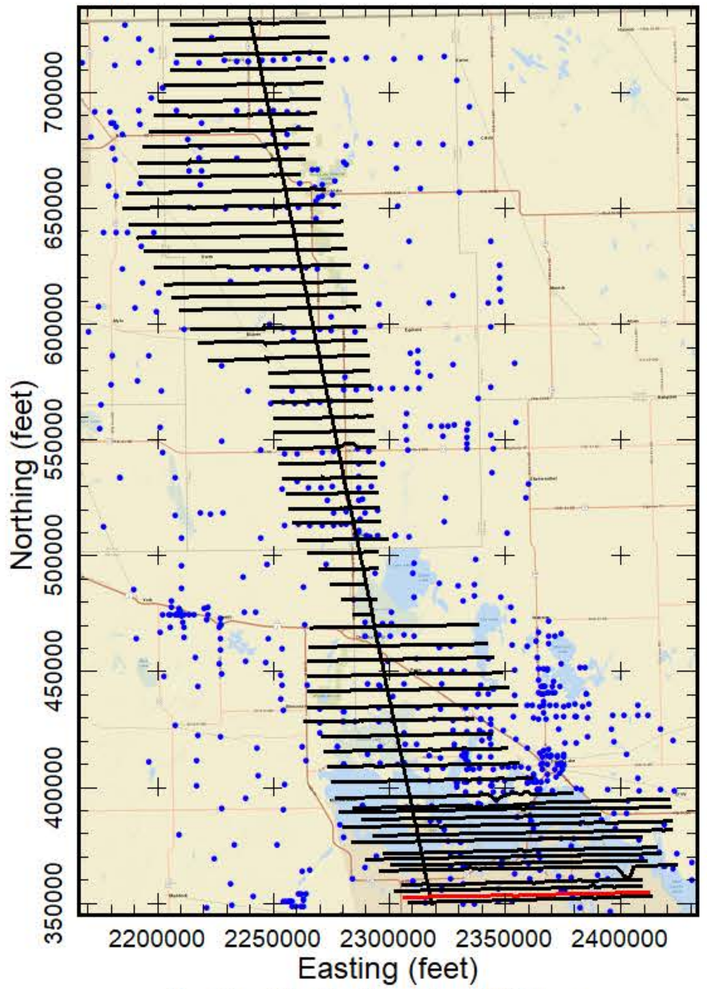
AGF Aqua Geo Frameworks

Flight Path Line L7410



AEM Inversion Line L7410

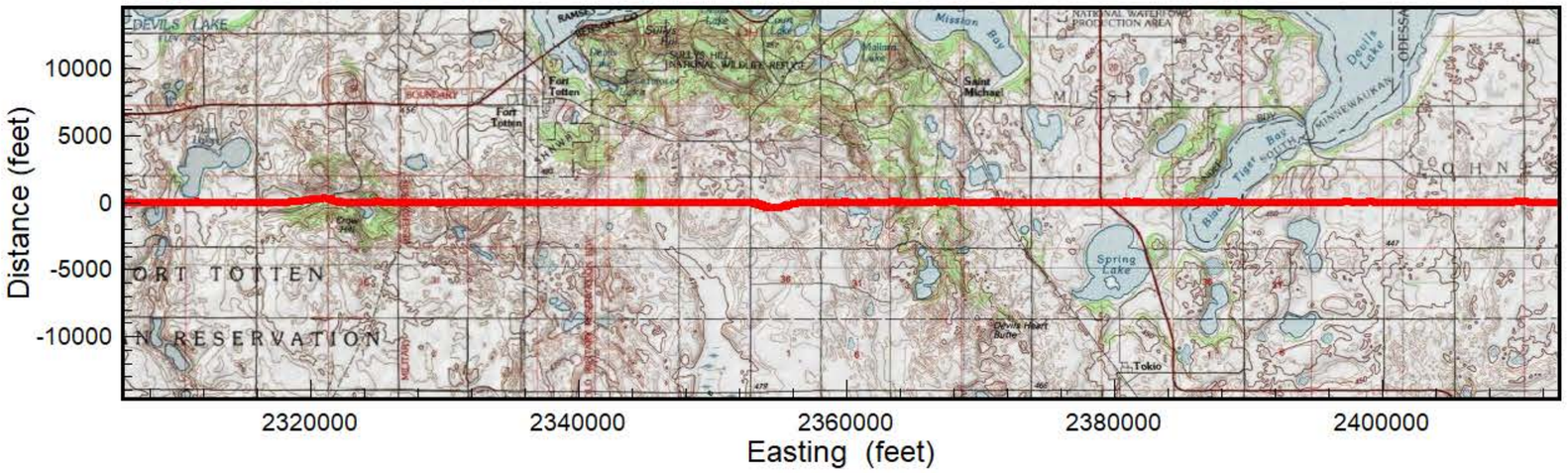




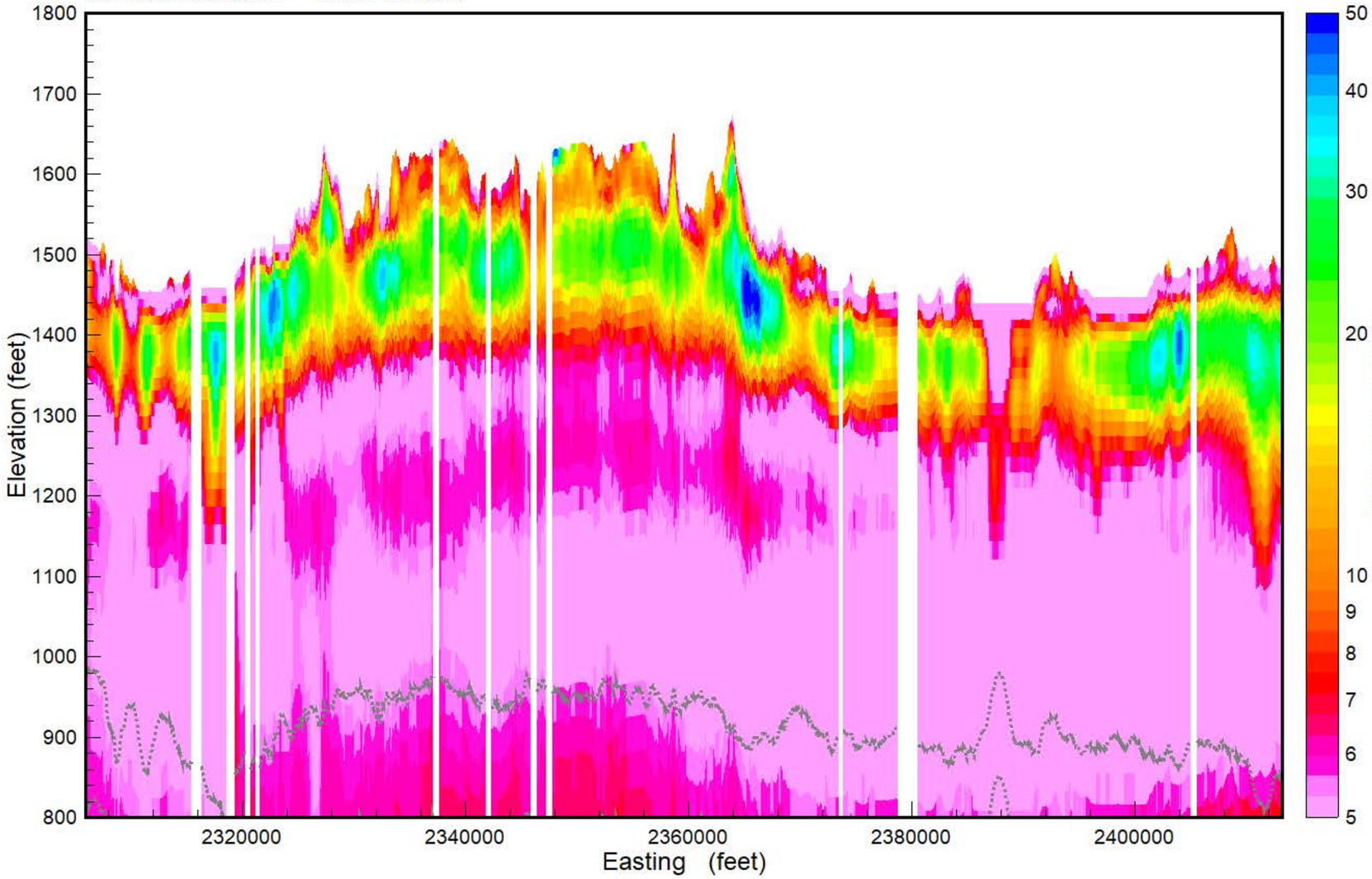


Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Towner Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

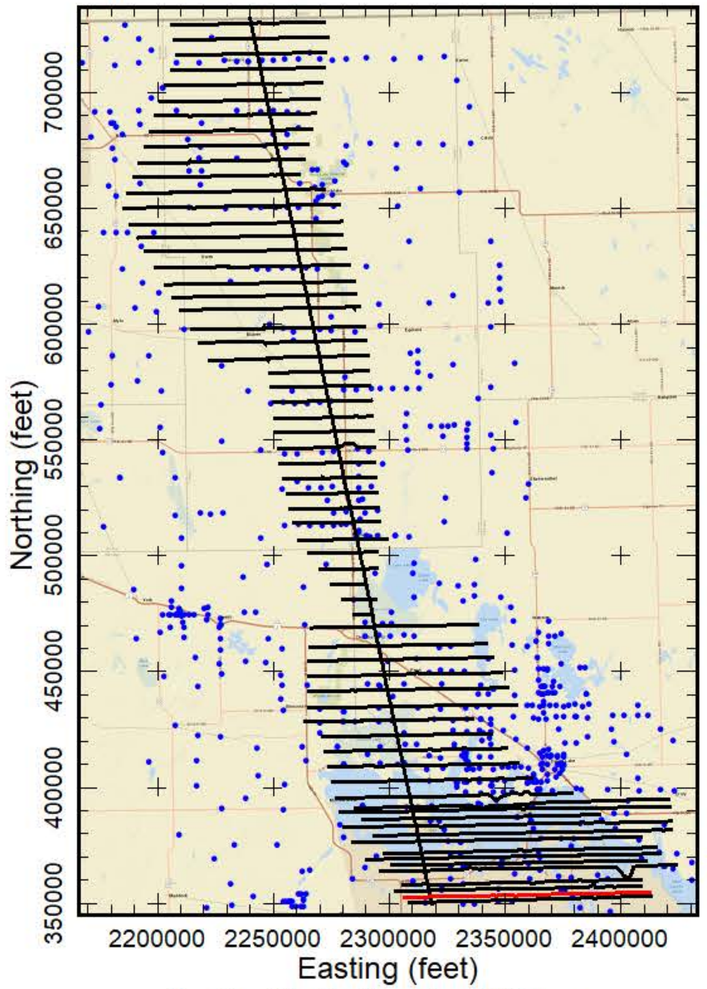
Flight Path Line L7415



AEM Inversion Line L7415



Flight Area Towner



PEAT
LIGNITE
COBBLES
BOULDER
ROCK
PRECAMBRIAN
WEATHERED GRANI
SANDSTONE
LIMESTONE
SILTSTONE
CLAYSTONE
SHALE
BEDROCK
GRAVEL
SAND & GRAVEL
SAND
INTERBEDDED
SILT
CLAY
TILL
FILL
TOPSOIL
NOSAMPLE

Results of the final inversion of Airborne Electromagnetic (AEM) data collected along flight lines within the Griggs Block flight area from October 24 ,2019 to November 18, 2019. The inversions shown are Spatially-Constrained using the Aarhus Geo Software Workbench version 6.1.0. Boreholes are from the North Dakota State Water Commission Map service download October 2019 and are plotted within ¼ mile from the flight line. Gray dashed lines are the upper and lower depth of investigation. Map projection is NAD83 State Plane North Dakota North (Int. feet), vertical datum NAVD88 (feet). Prepared for the North Dakota State Water Commission under contract to Geotech LTD by Aqua Geo Frameworks, LLC.

Appendix 1:

2D Profiles – 2019 Towner Block Inverted AEM Resistivities

Page

A1-3 – A1-71

This document contains 2D Profiles of the 2019 Towner AEM survey area.

Each page has a flight line map at the top and one profile section below which is the inverted resistivity, and no text on the side describing the genesis of the profile. This may be found in the Appendix 1 – 2D Profiles Full Description.

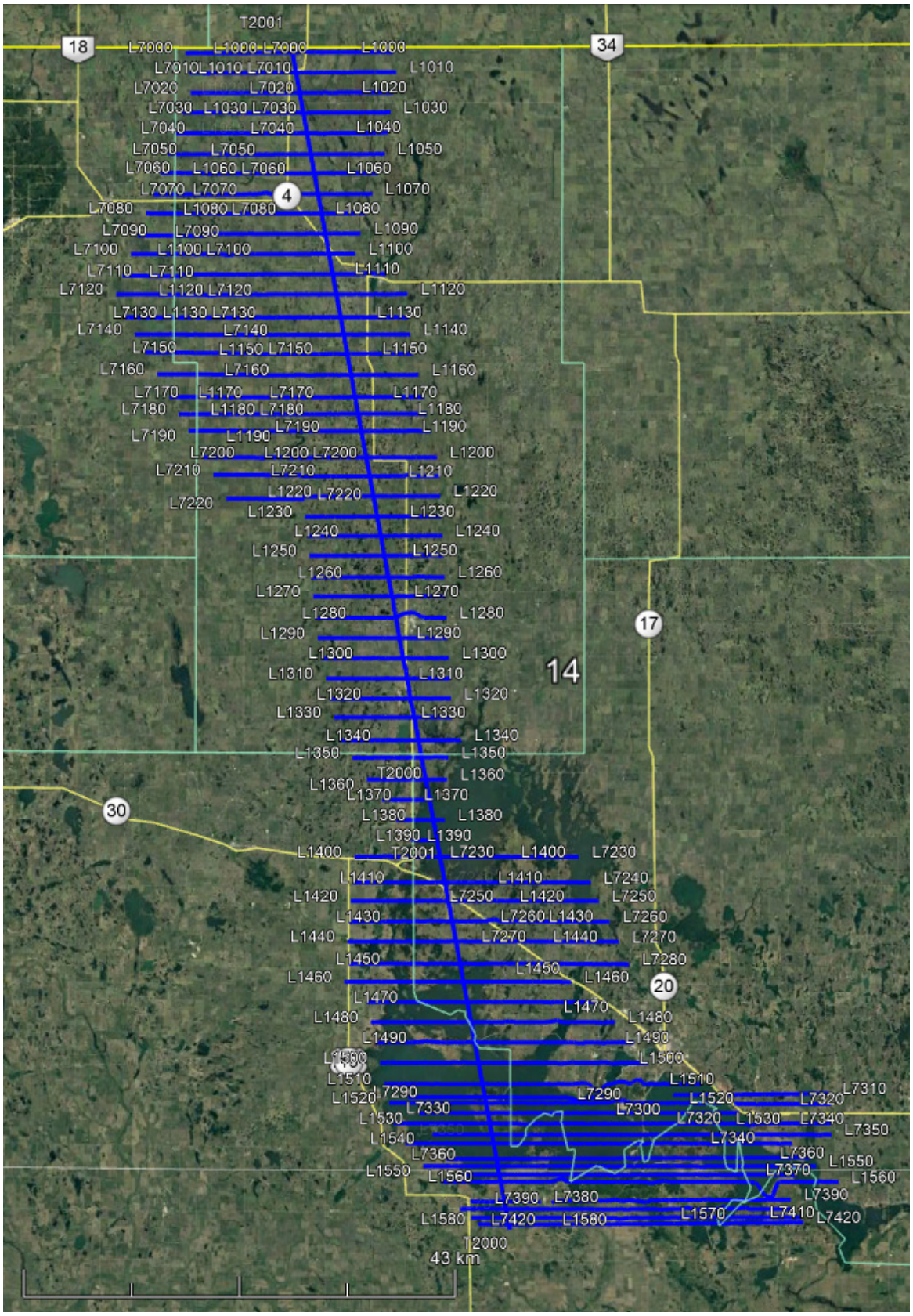
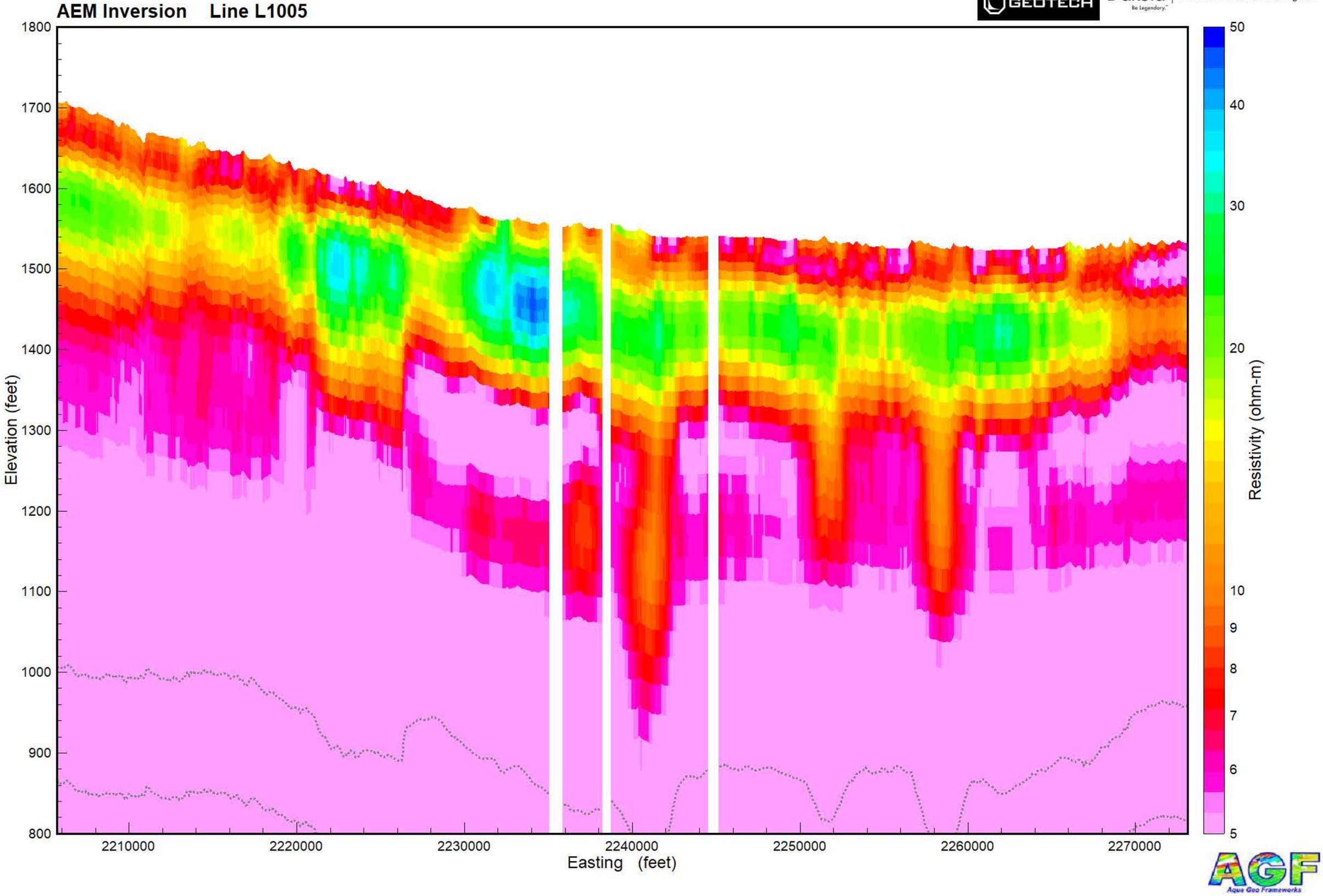


Figure A1-1. Map of the 2019 Towner AEM survey with flight line labels in Google Earth.

GEOTECH

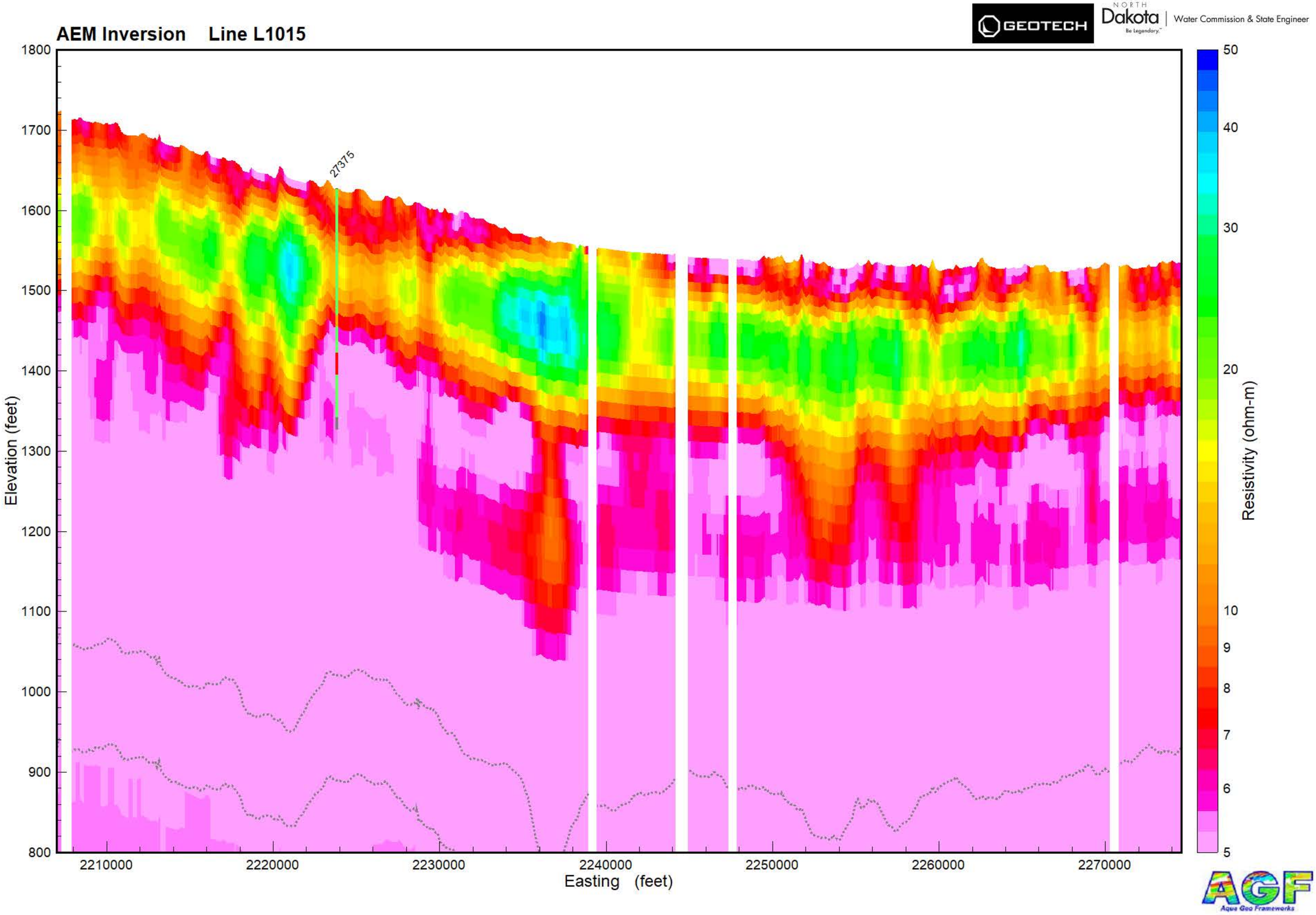
NORTH Dakota Be Legendary. | Water Commission & State Engineer



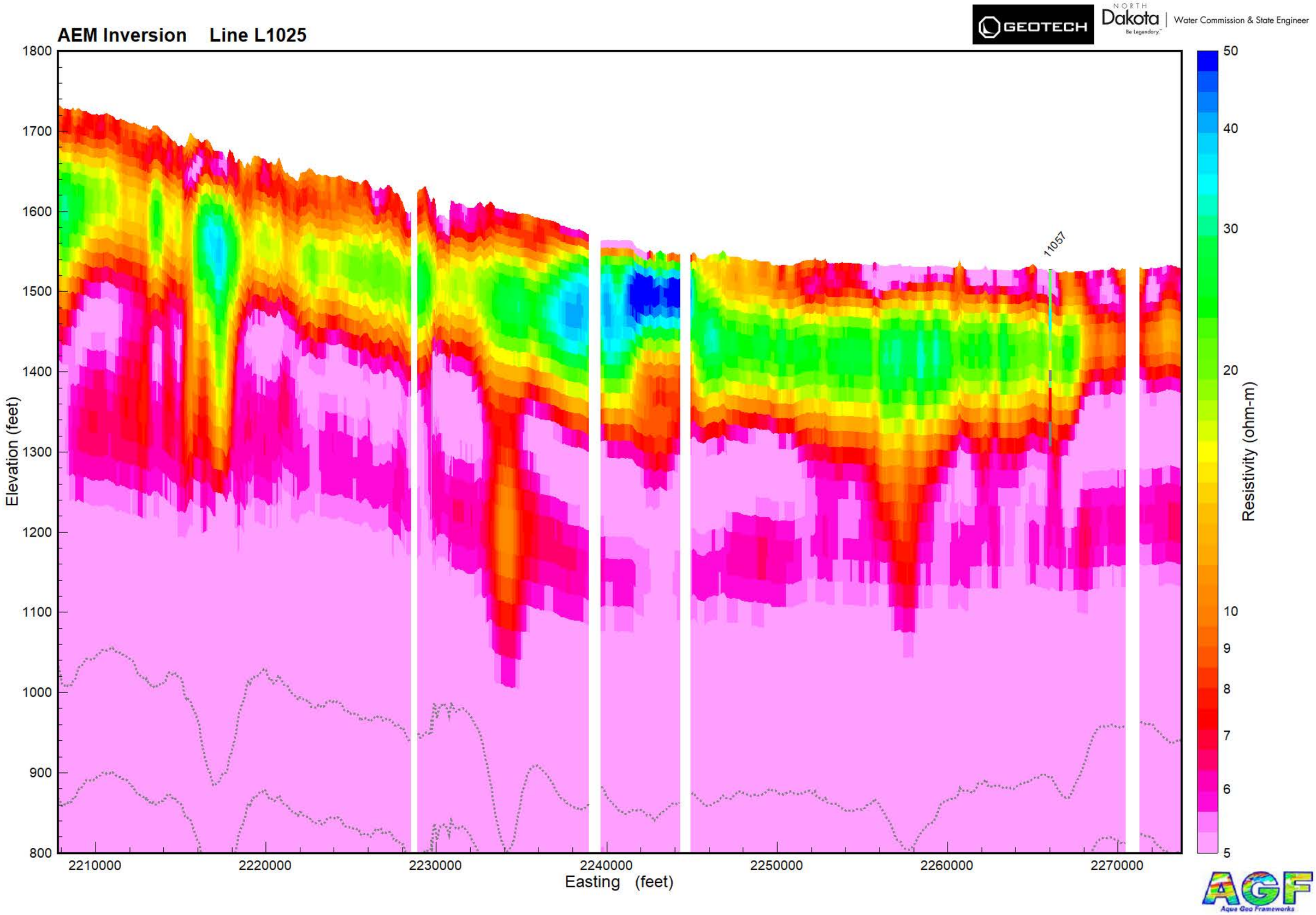
AGF Aqua Geo Frameworks

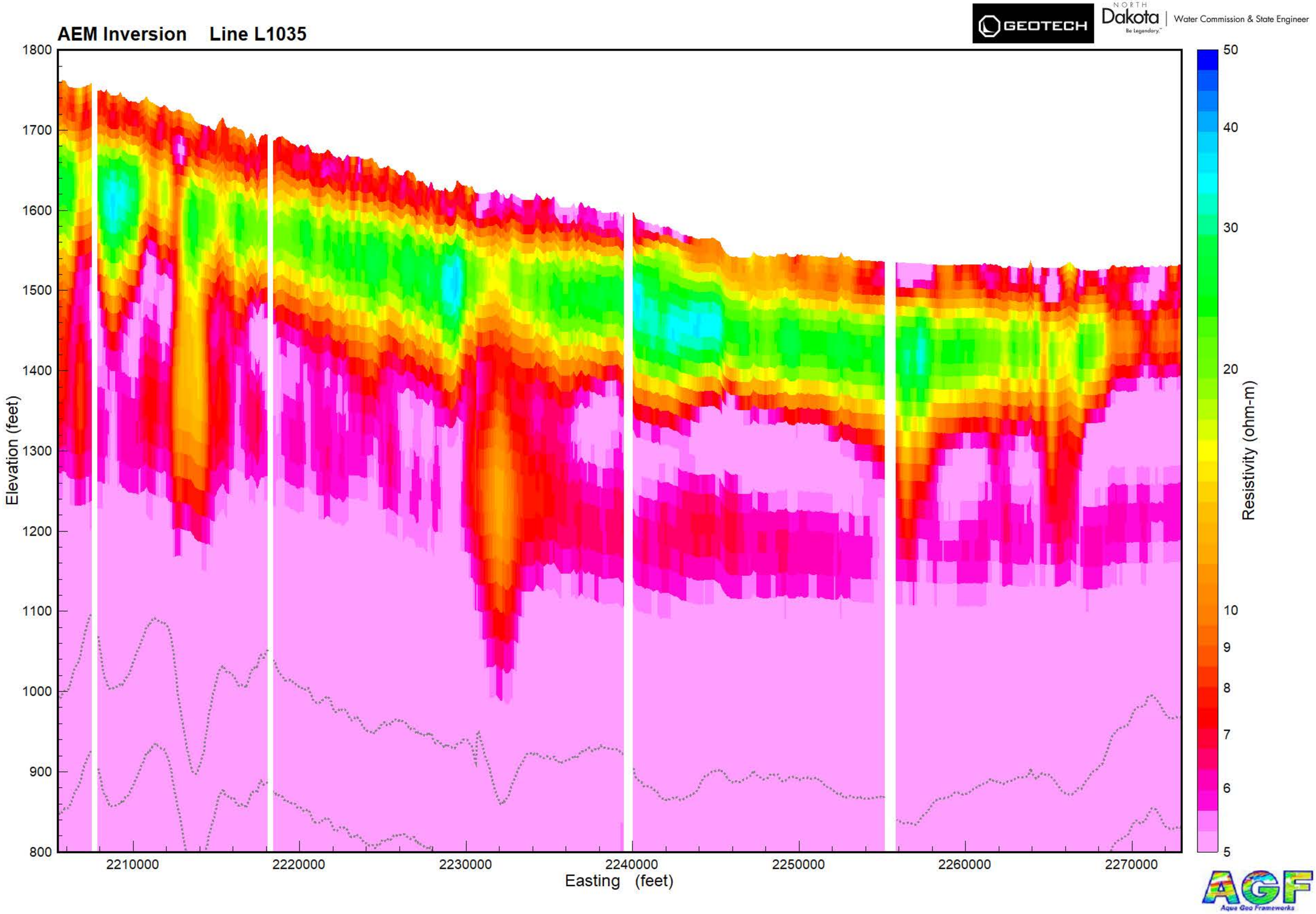
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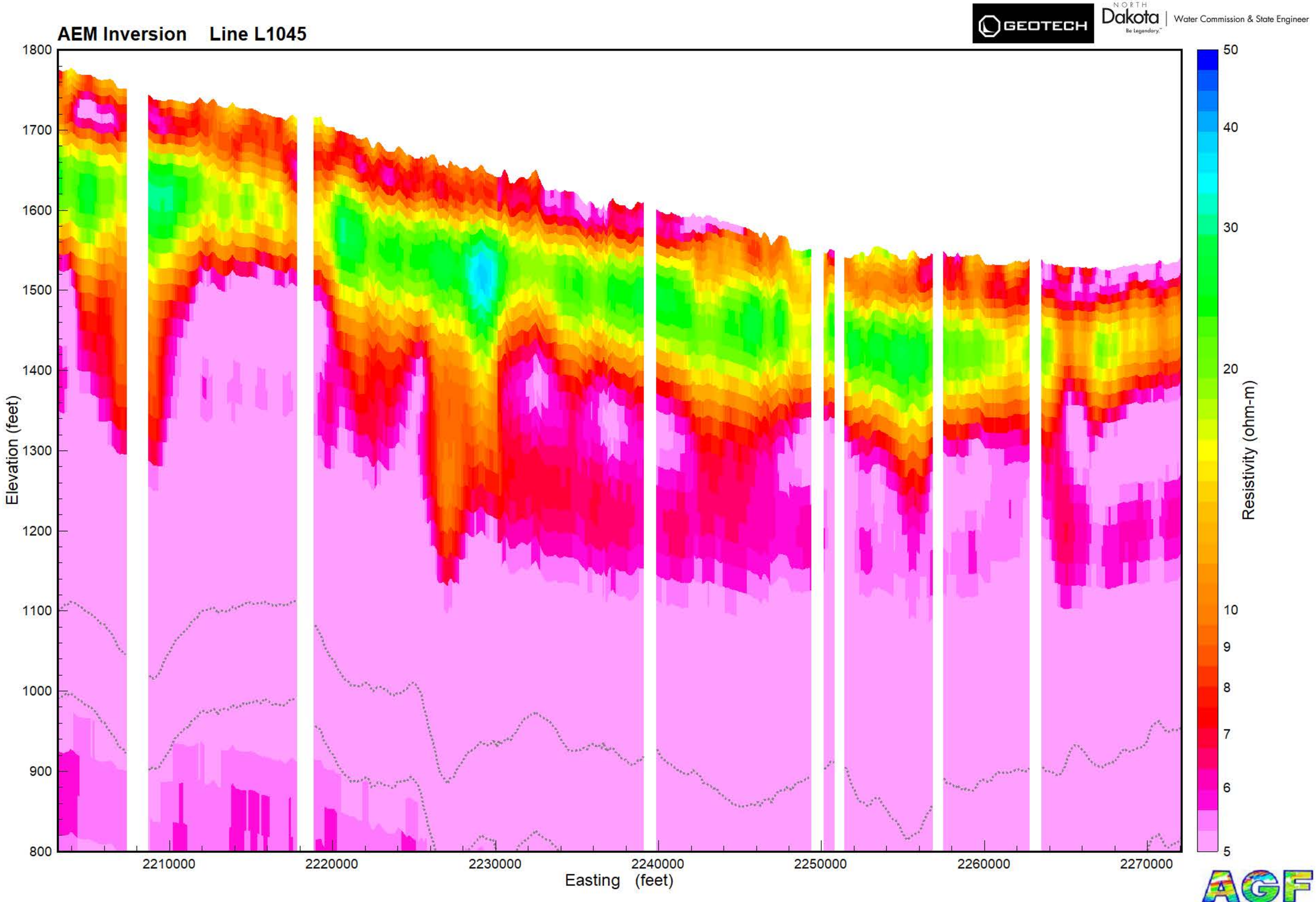
NORTH Dakota Be Legendary. | Water Commission & State Engineer

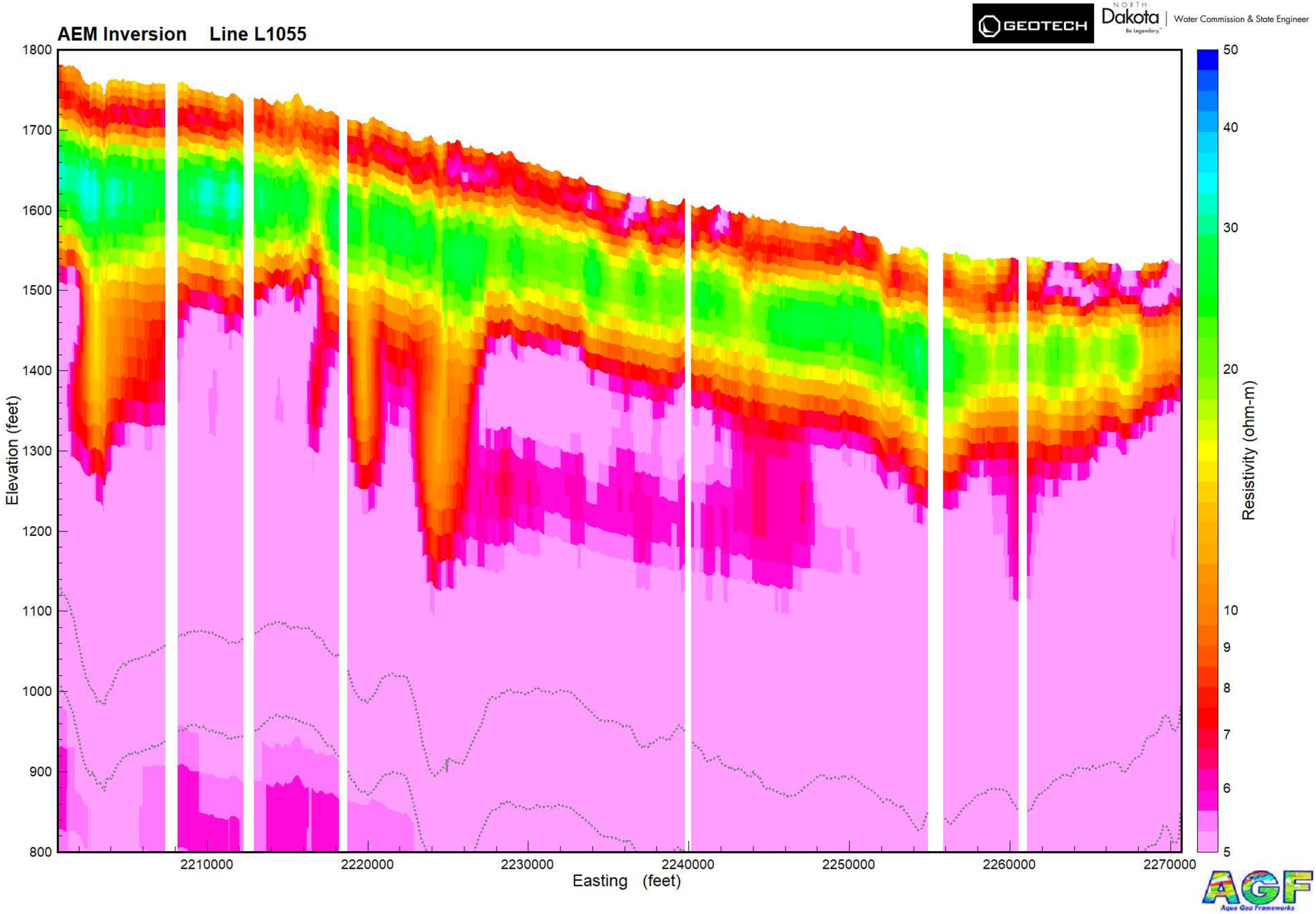


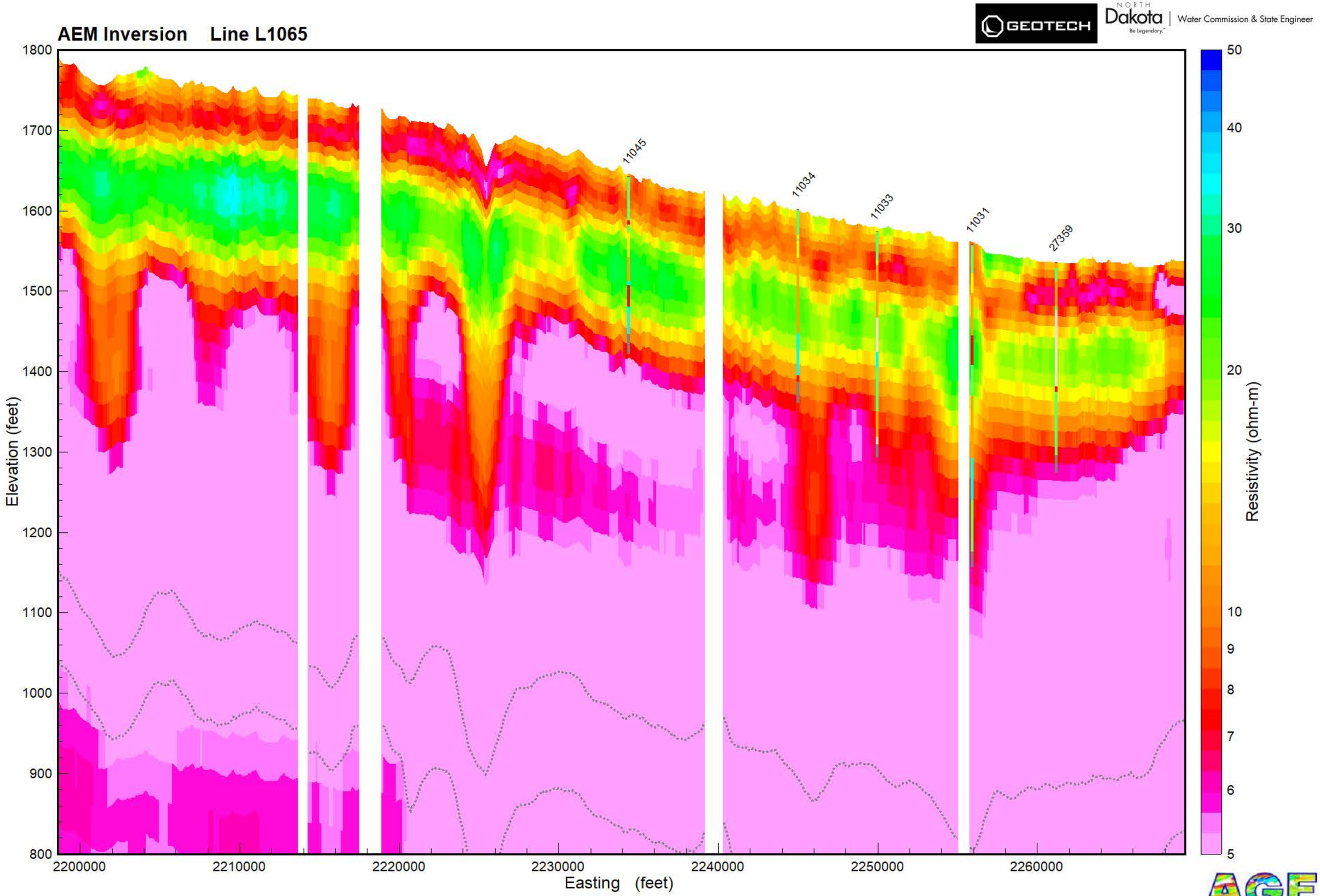
AGF Aqua Geo Frameworks


AEM Inversion Line L1025
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
11057
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2210000
2220000
2230000
2240000
2250000
2260000
2270000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1035
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2210000
2220000
2230000
2240000
2250000
2260000
2270000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

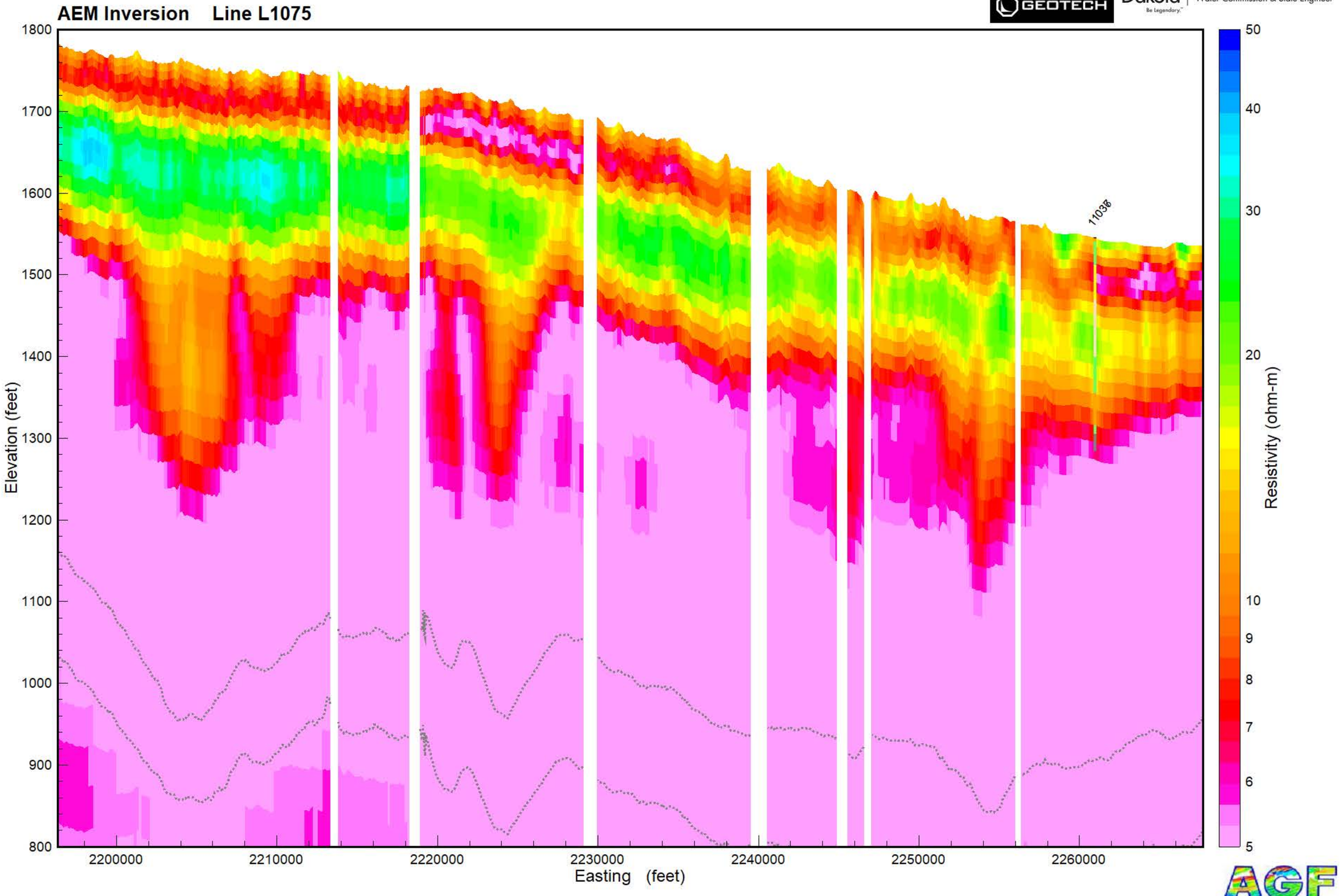

AEM Inversion Line L1045
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2210000
2220000
2230000
2240000
2250000
2260000
2270000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1055
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2210000
2220000
2230000
2240000
2250000
2260000
2270000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1065
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
11045
11034
11033
11031
27359
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2200000
2210000
2220000
2230000
2240000
2250000
2260000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

GEOTECH

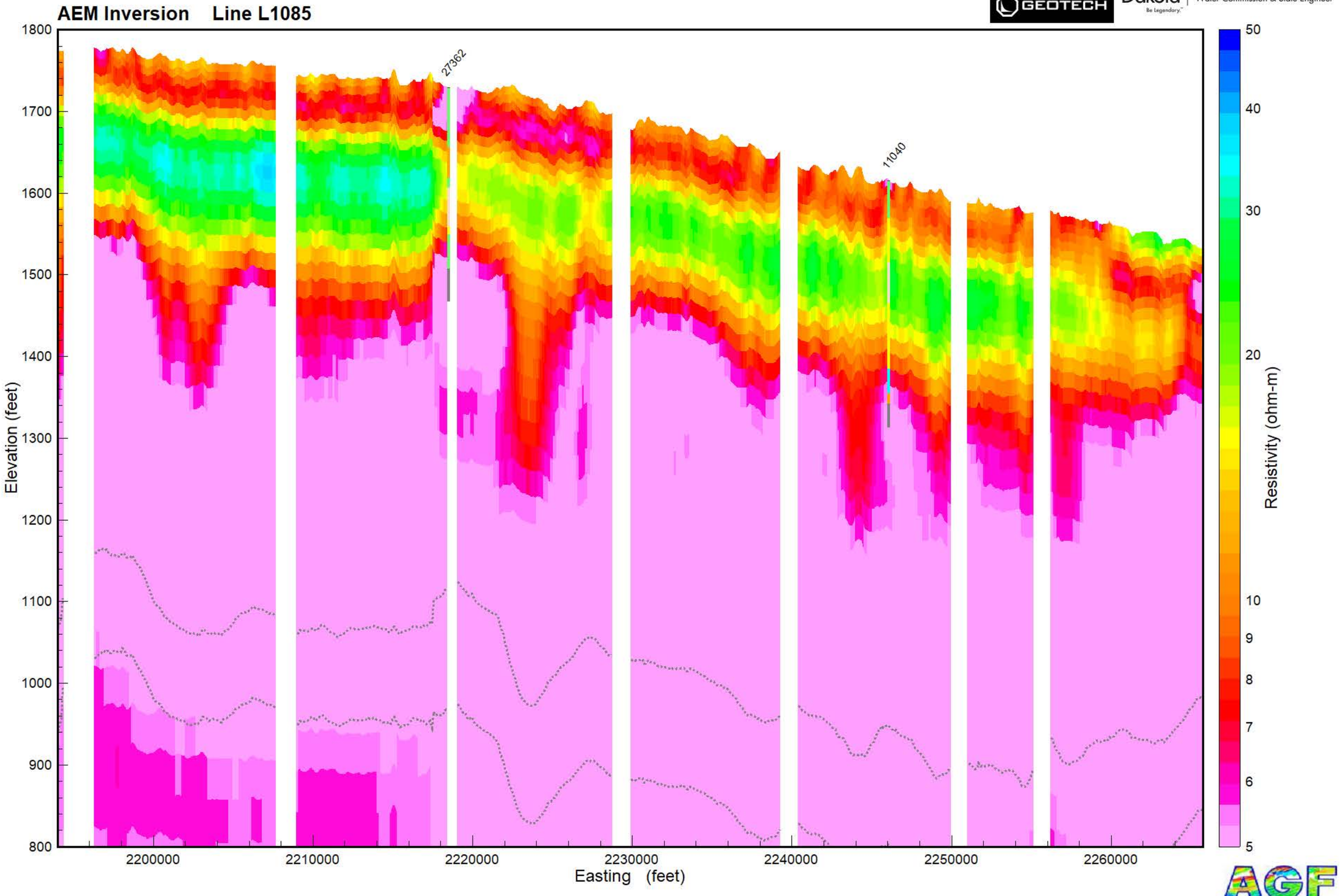
NORTH Dakota Be Legendary. | Water Commission & State Engineer



AGF Aqua Geo Frameworks

GEOTECH

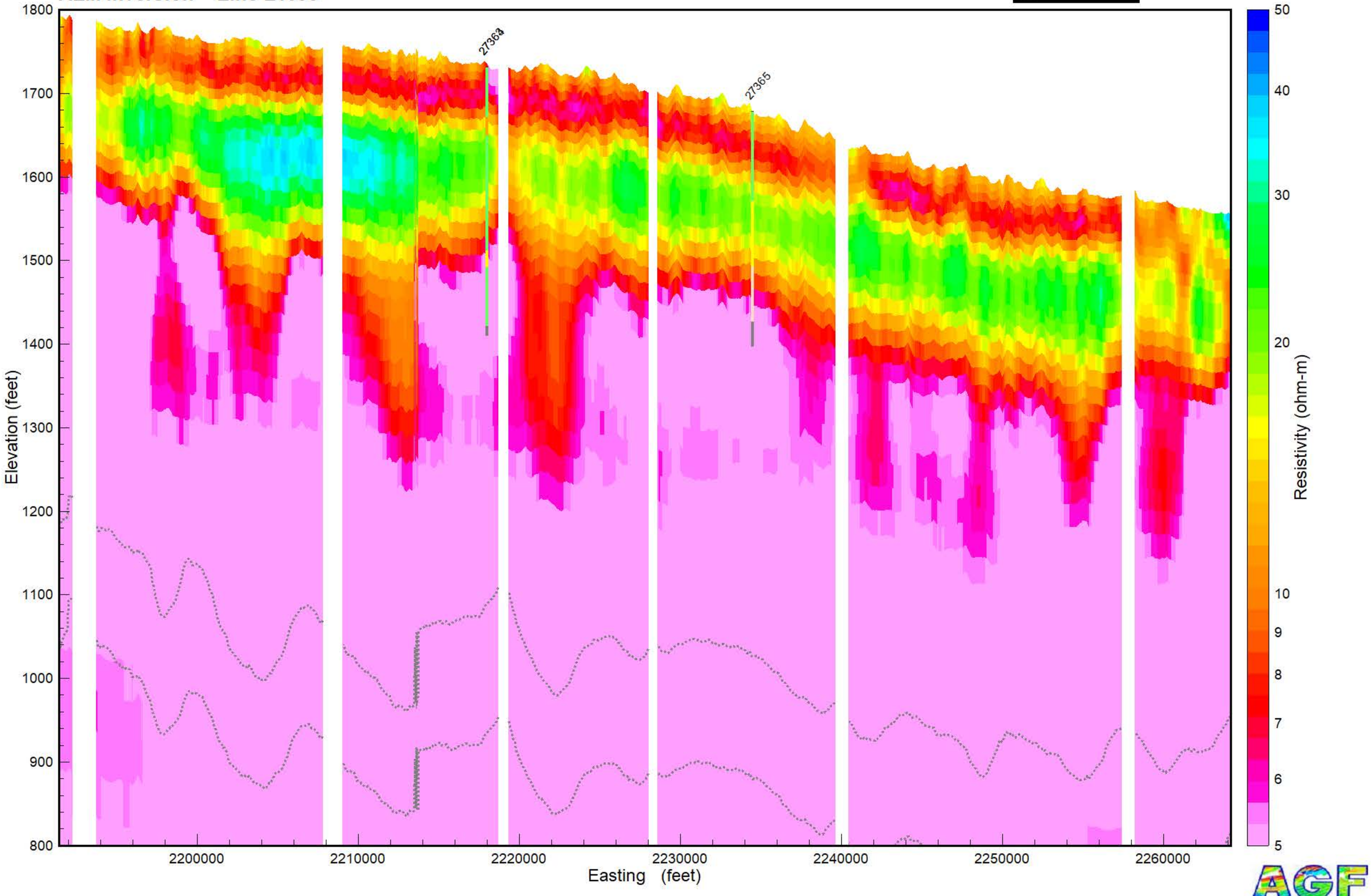
NORTH Dakota Be Legendary. | Water Commission & State Engineer



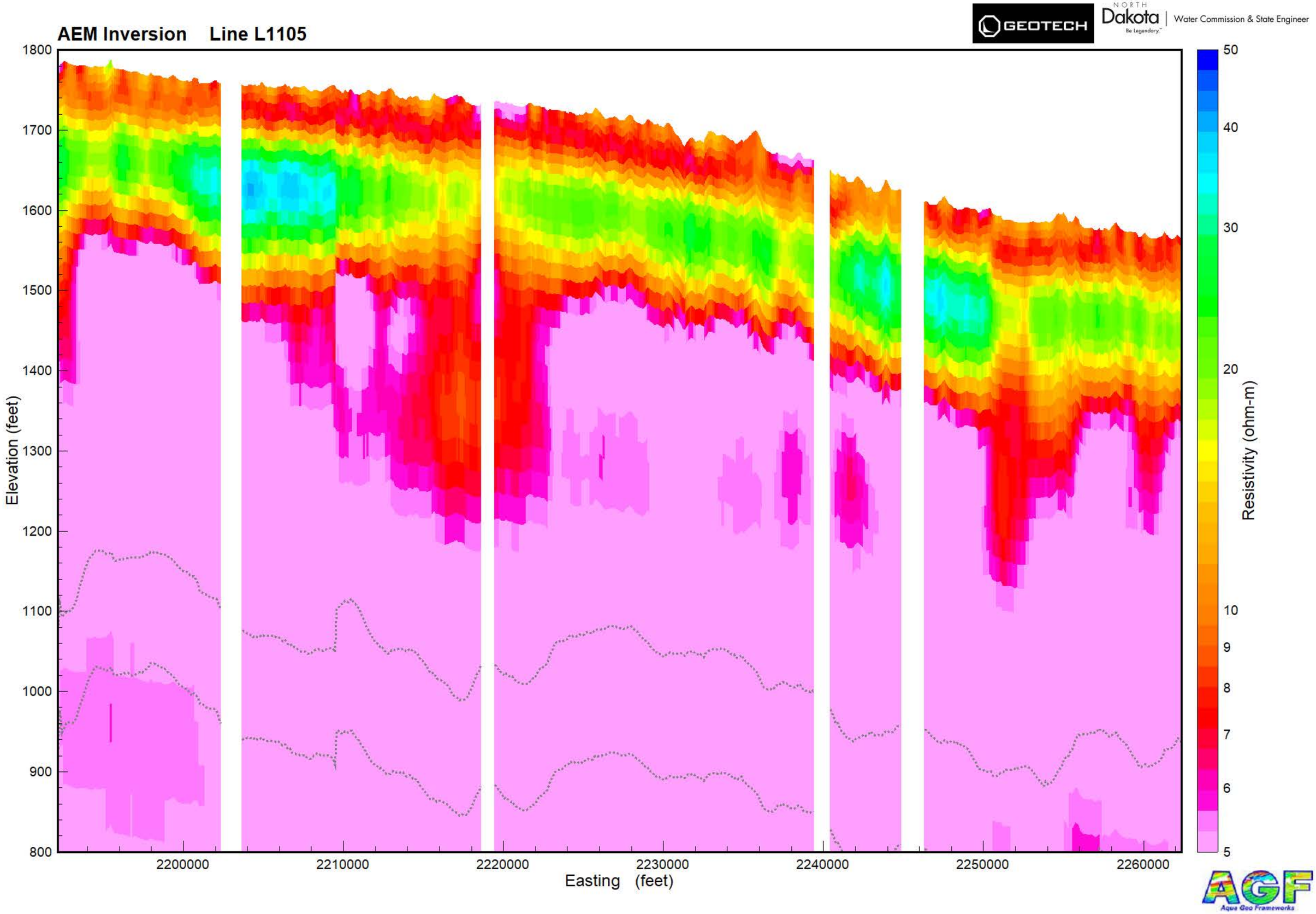
AGF Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



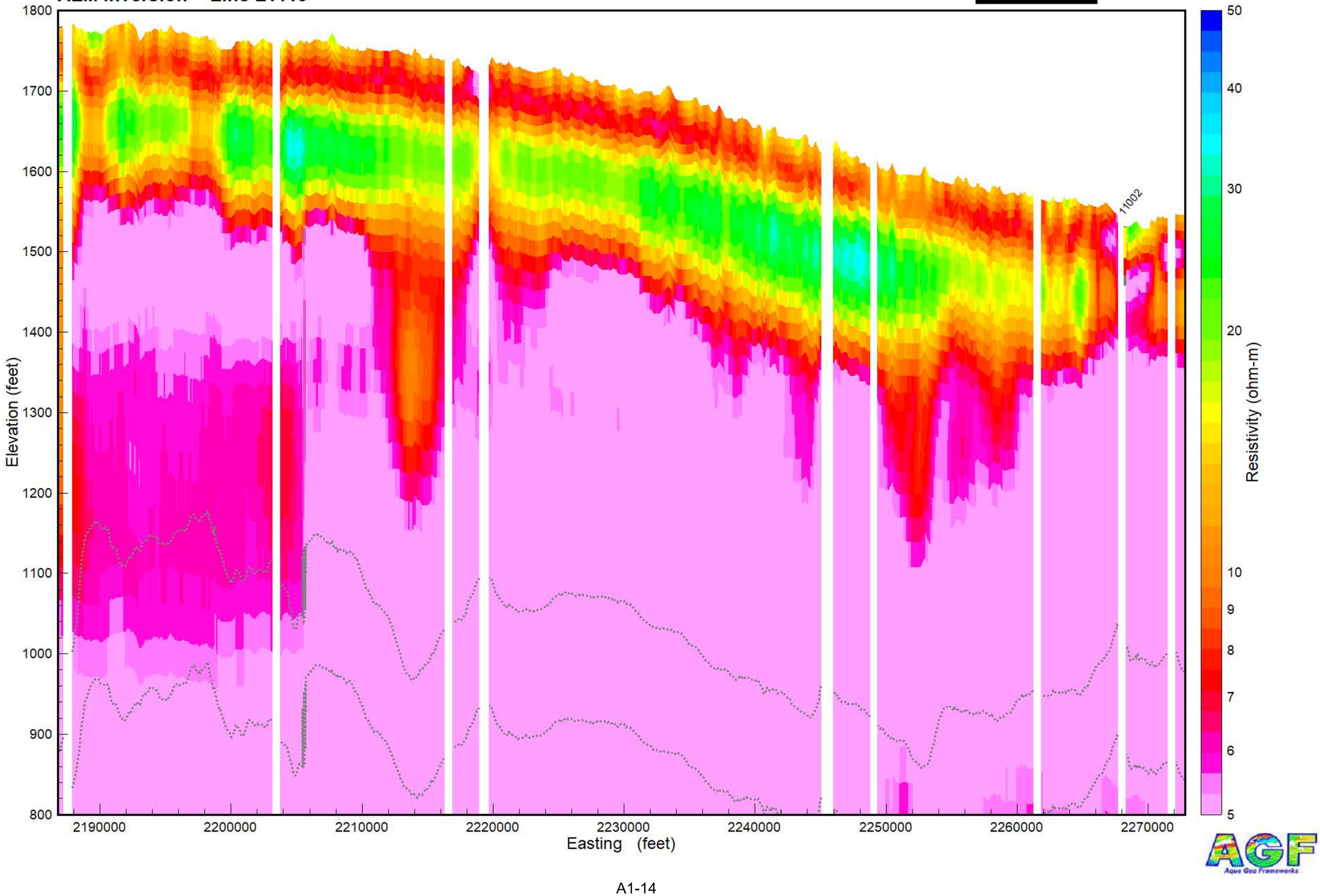
AGF Aqua Geo Frameworks


AEM Inversion Line L1105
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
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1700
1600
1500
1400
1300
1200
1100
1000
900
800
2200000
2210000
2220000
2230000
2240000
2250000
2260000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

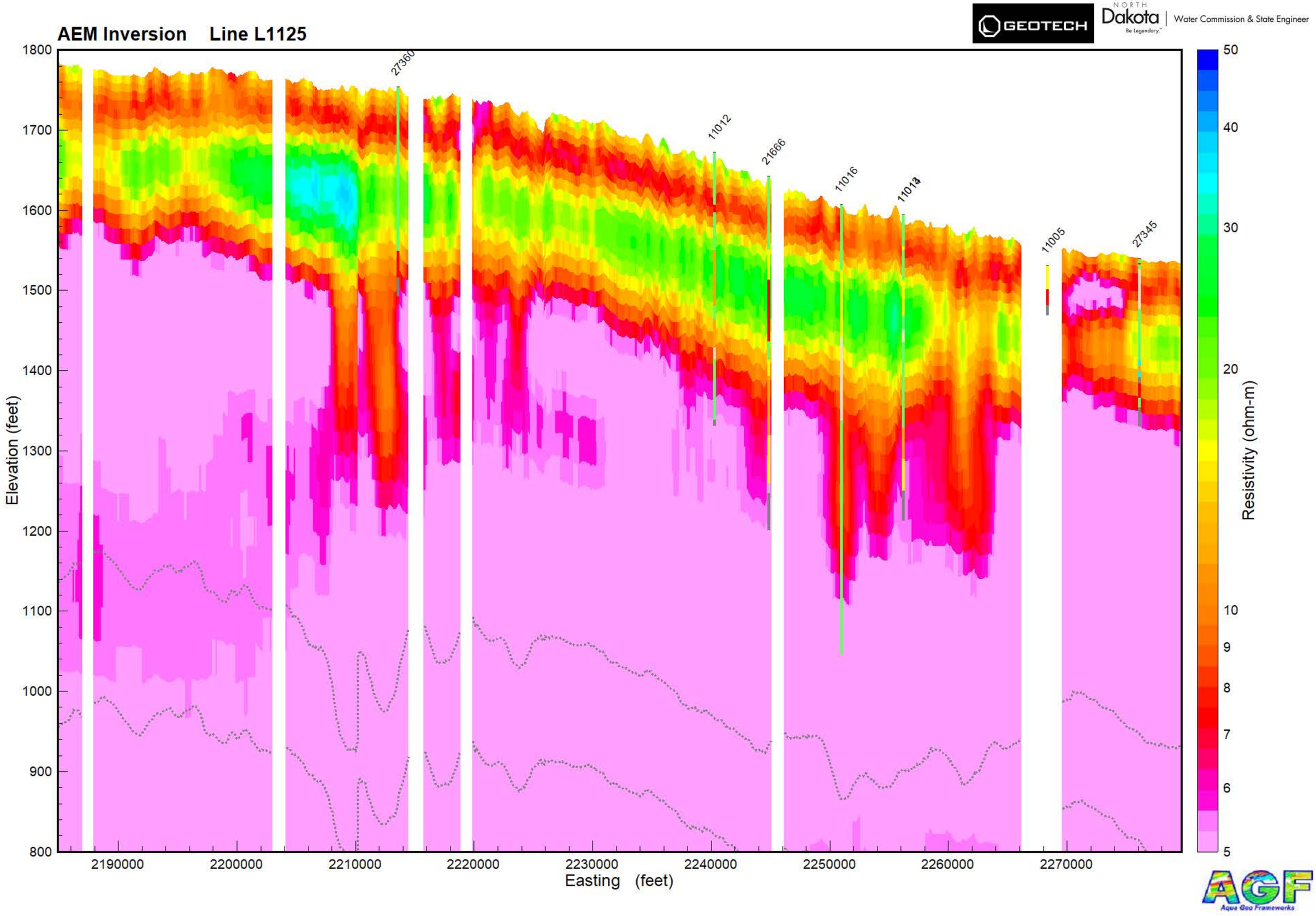
GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer

AEM Inversion Line L1115

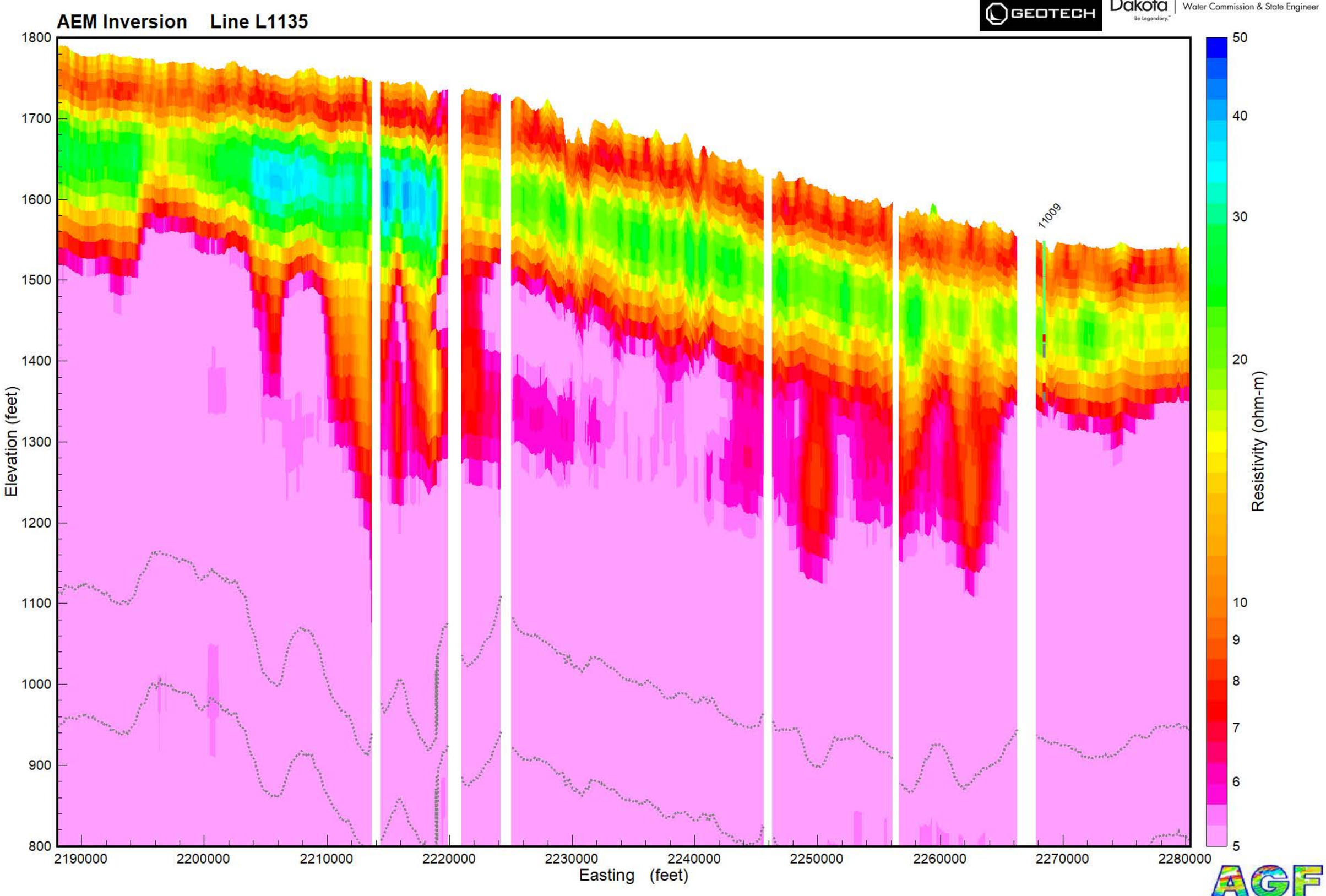


AGF Aqua Geo Frameworks

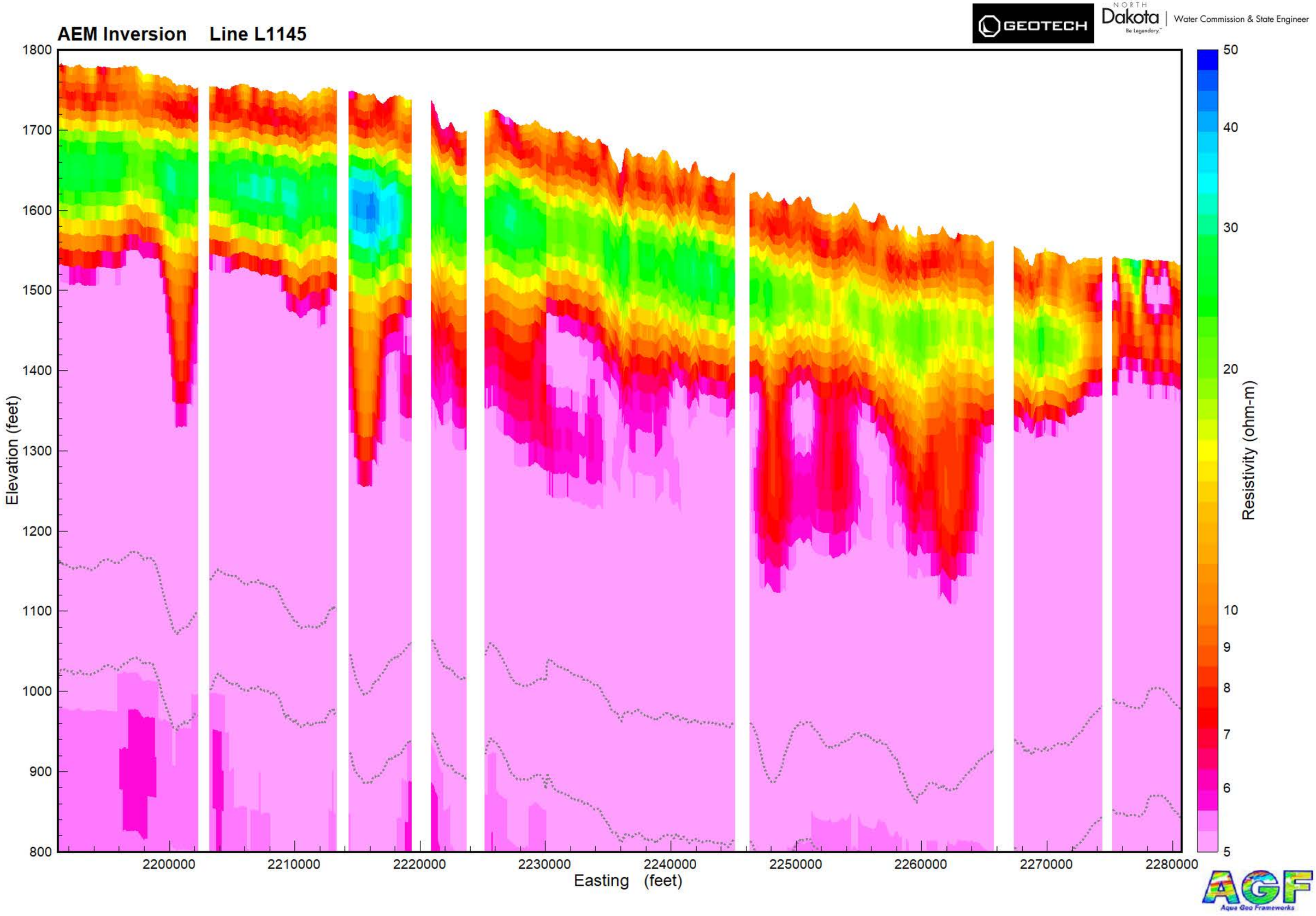

AEM Inversion Line L1125
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
27360
11012
21666
11016
11014
11005
27345
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2190000
2200000
2210000
2220000
2230000
2240000
2250000
2260000
2270000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks

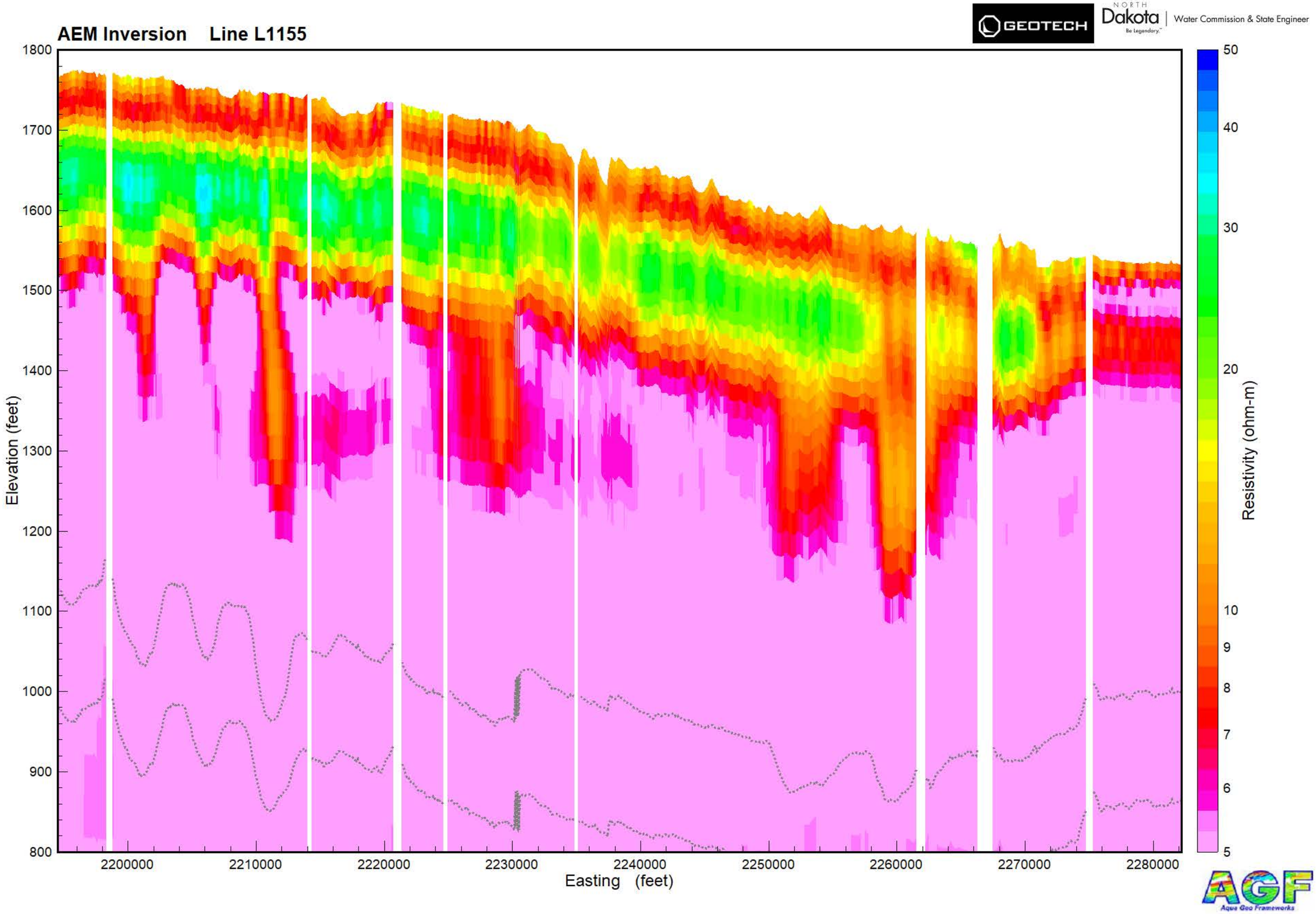
GEOTECH

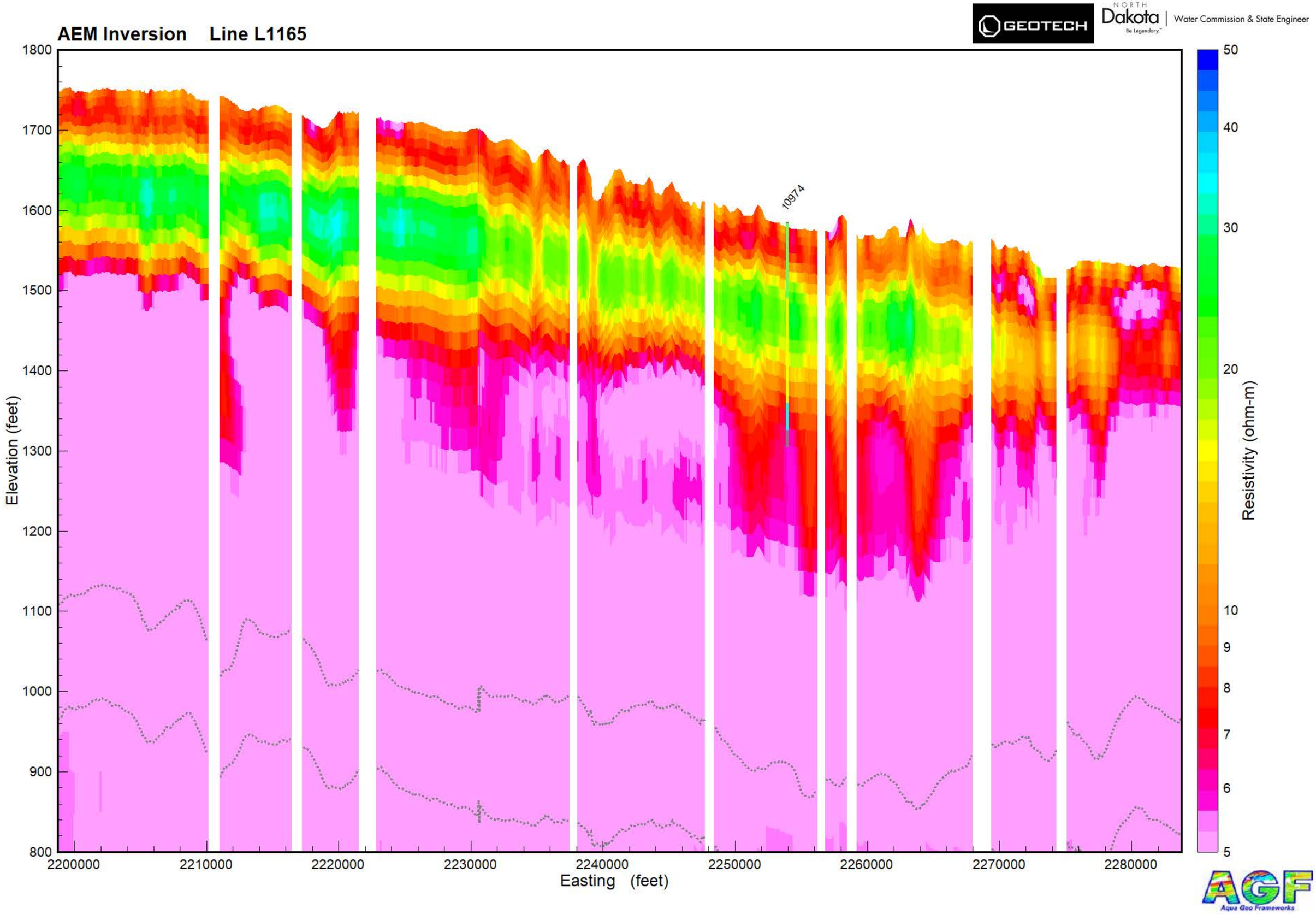
NORTH Dakota Be Legendary. | Water Commission & State Engineer



AGF Aqua Geo Frameworks

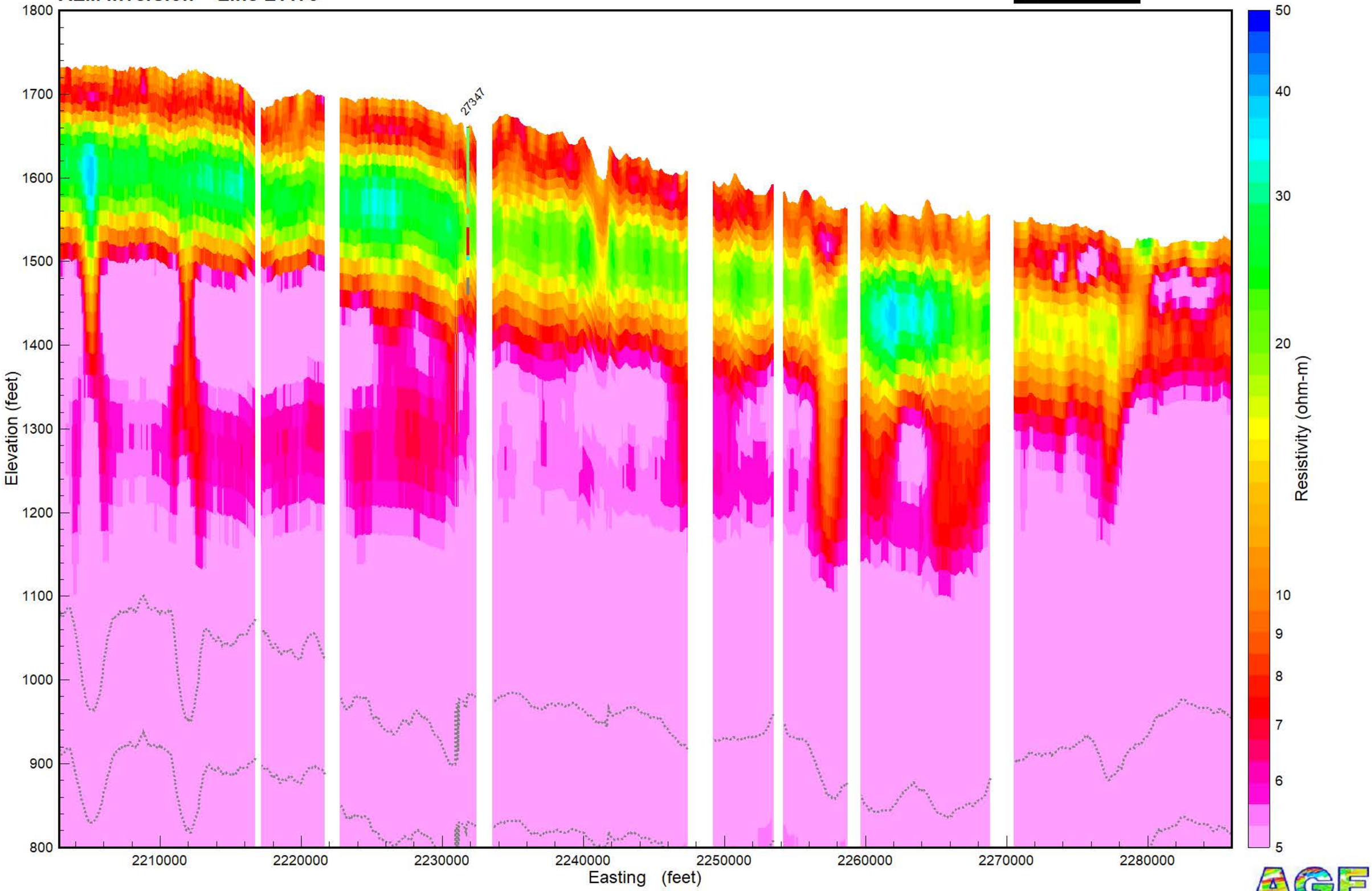

AEM Inversion Line L1145
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2200000
2210000
2220000
2230000
2240000
2250000
2260000
2270000
2280000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1155
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2200000
2210000
2220000
2230000
2240000
2250000
2260000
2270000
2280000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks


AEM Inversion Line L1165
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
10974
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2200000
2210000
2220000
2230000
2240000
2250000
2260000
2270000
2280000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks

GEOTECH

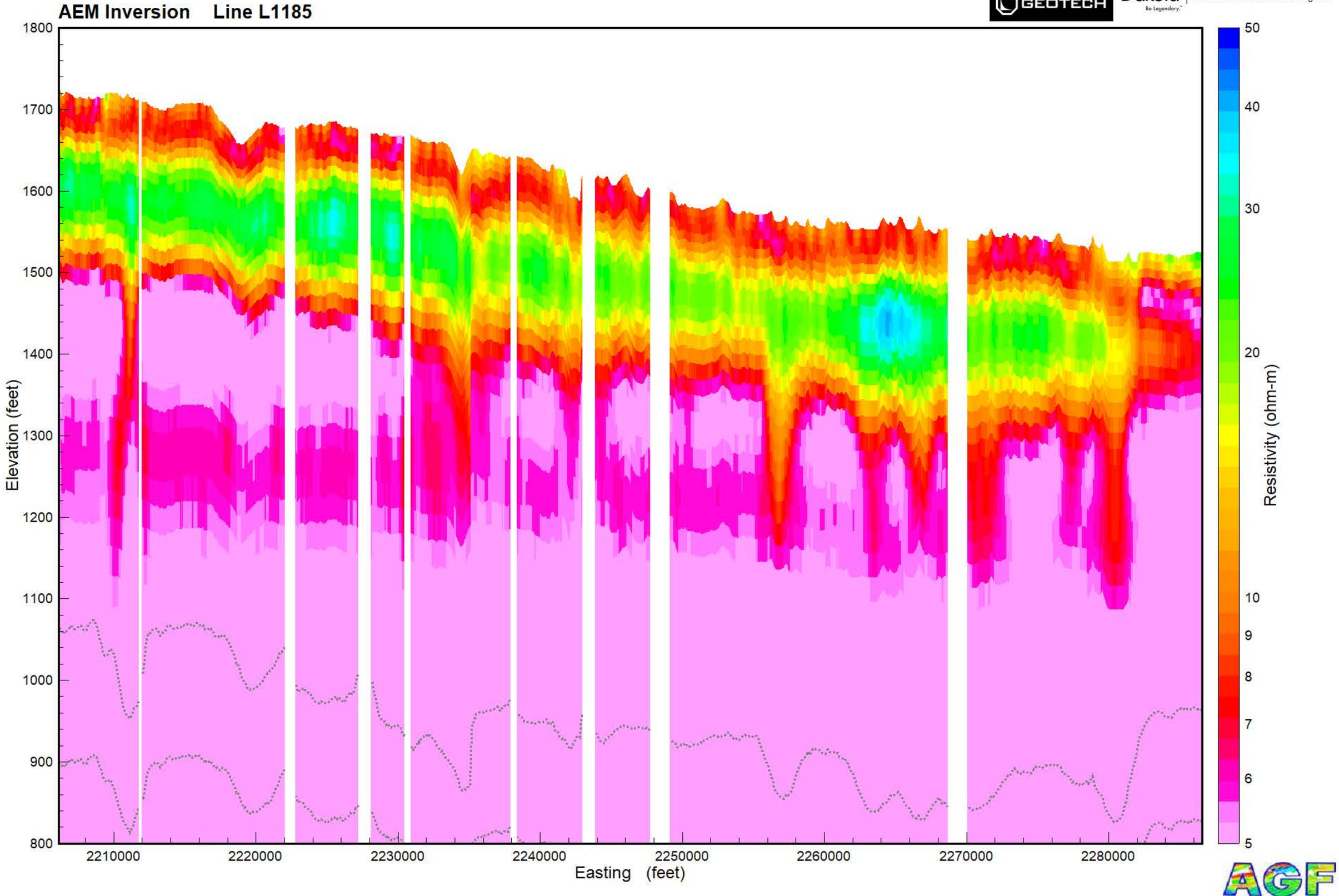
NORTH Dakota Be Legendary. | Water Commission & State Engineer



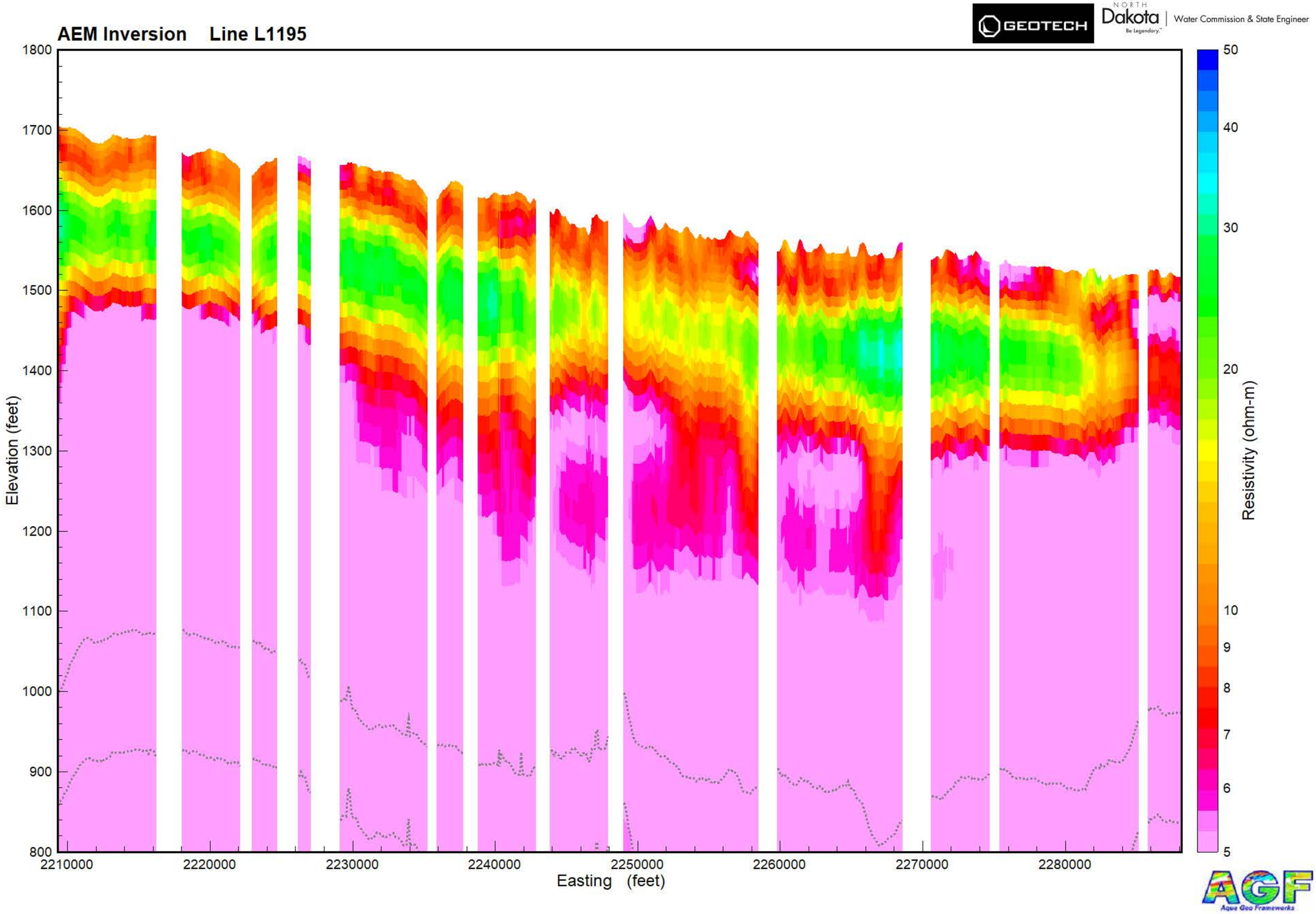
AGF Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



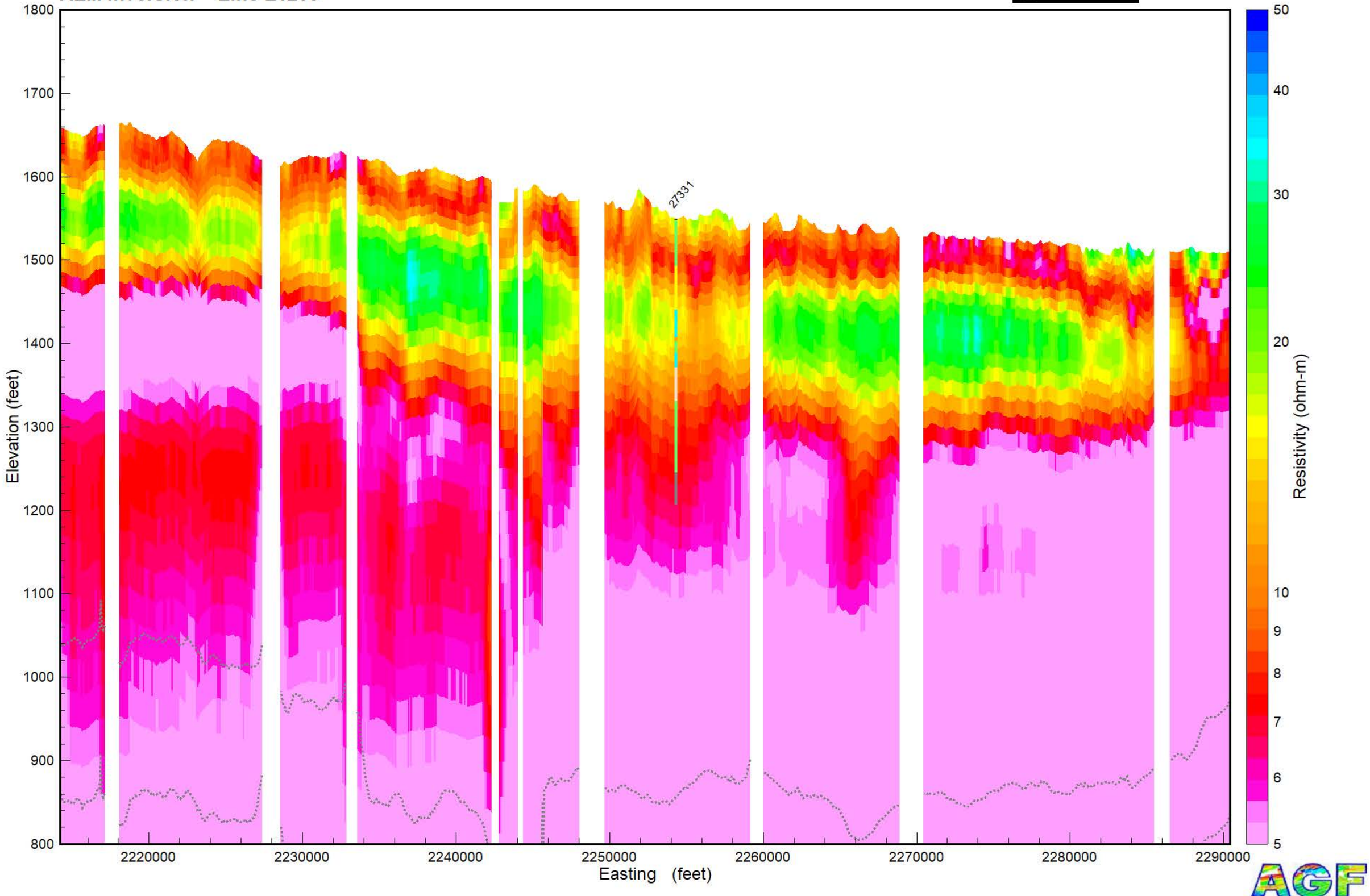
AGF Aqua Geo Frameworks


AEM Inversion Line L1195
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2210000
2220000
2230000
2240000
2250000
2260000
2270000
2280000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks

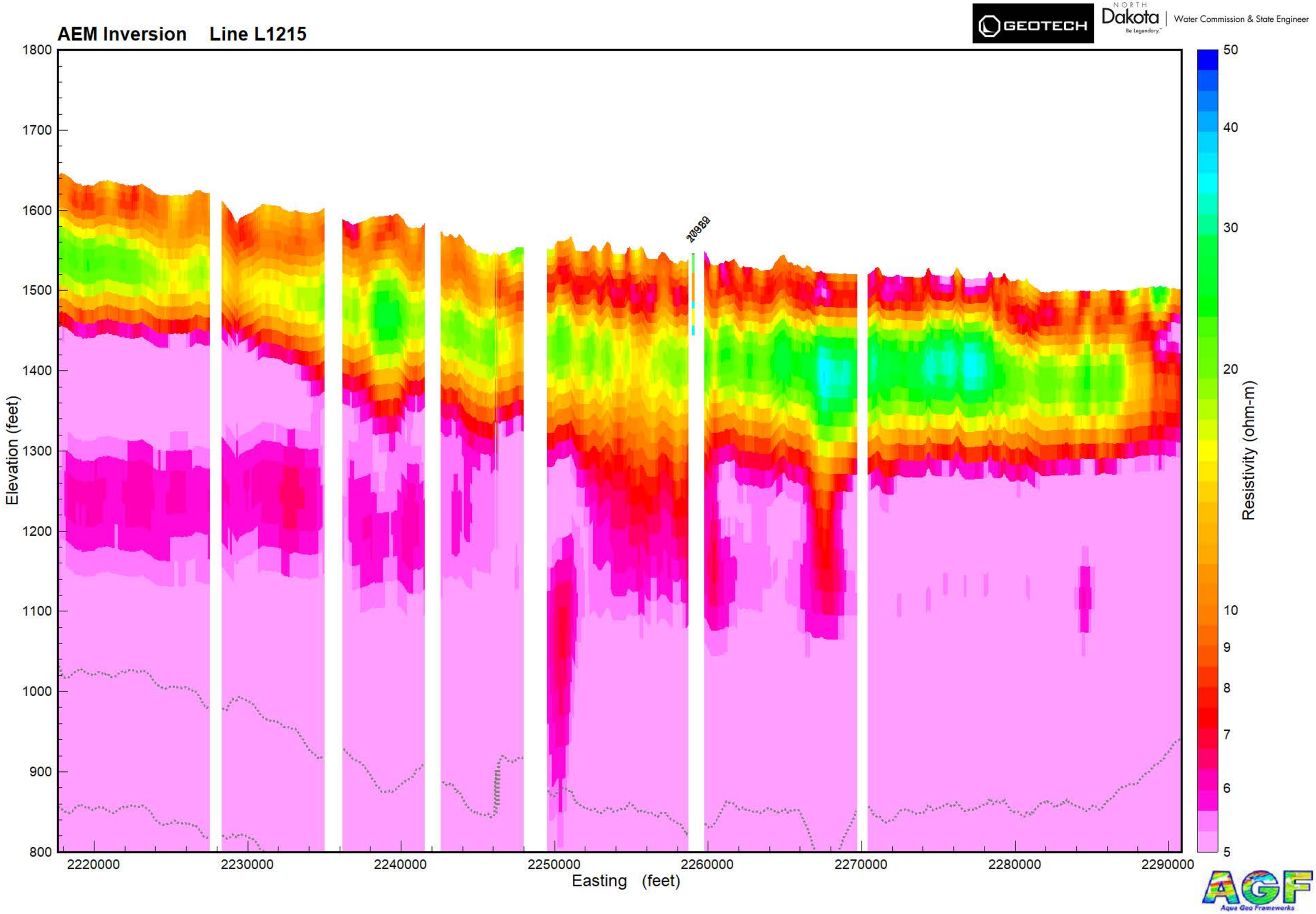
GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer

AEM Inversion Line L1205

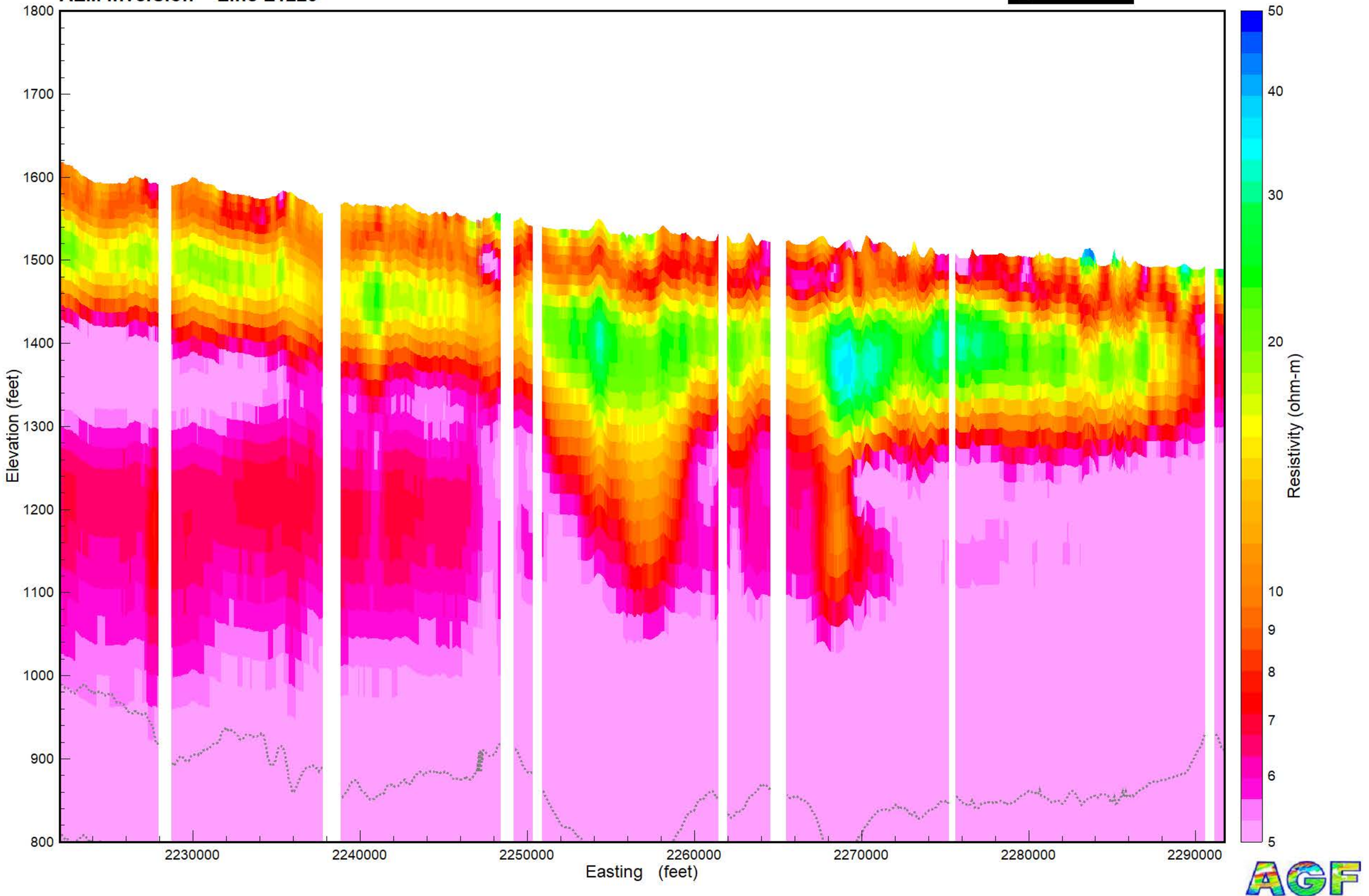


AGF Aqua Geo Frameworks

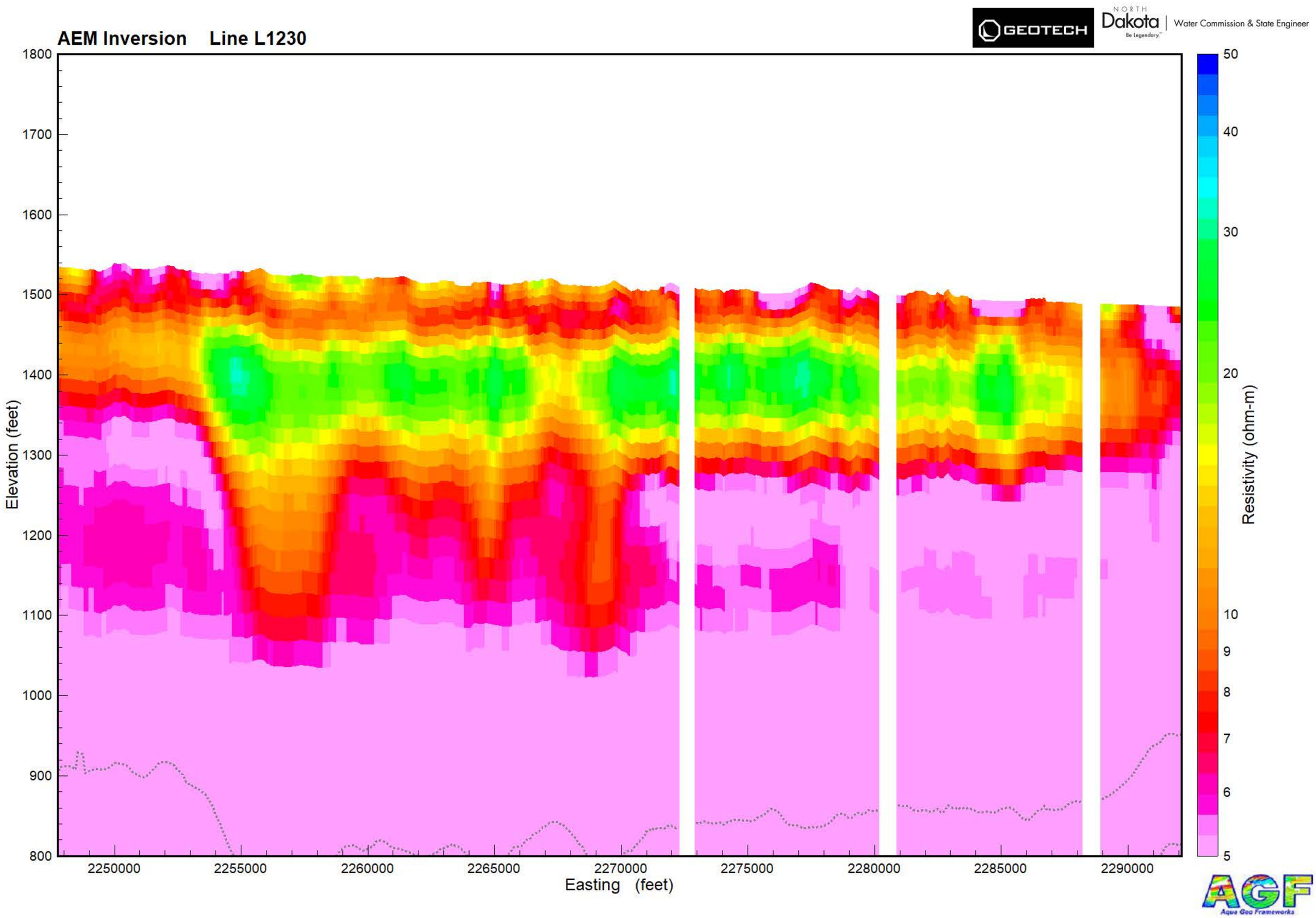

AEM Inversion Line L1215
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
209889
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2220000
2230000
2240000
2250000
2260000
2270000
2280000
2290000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer

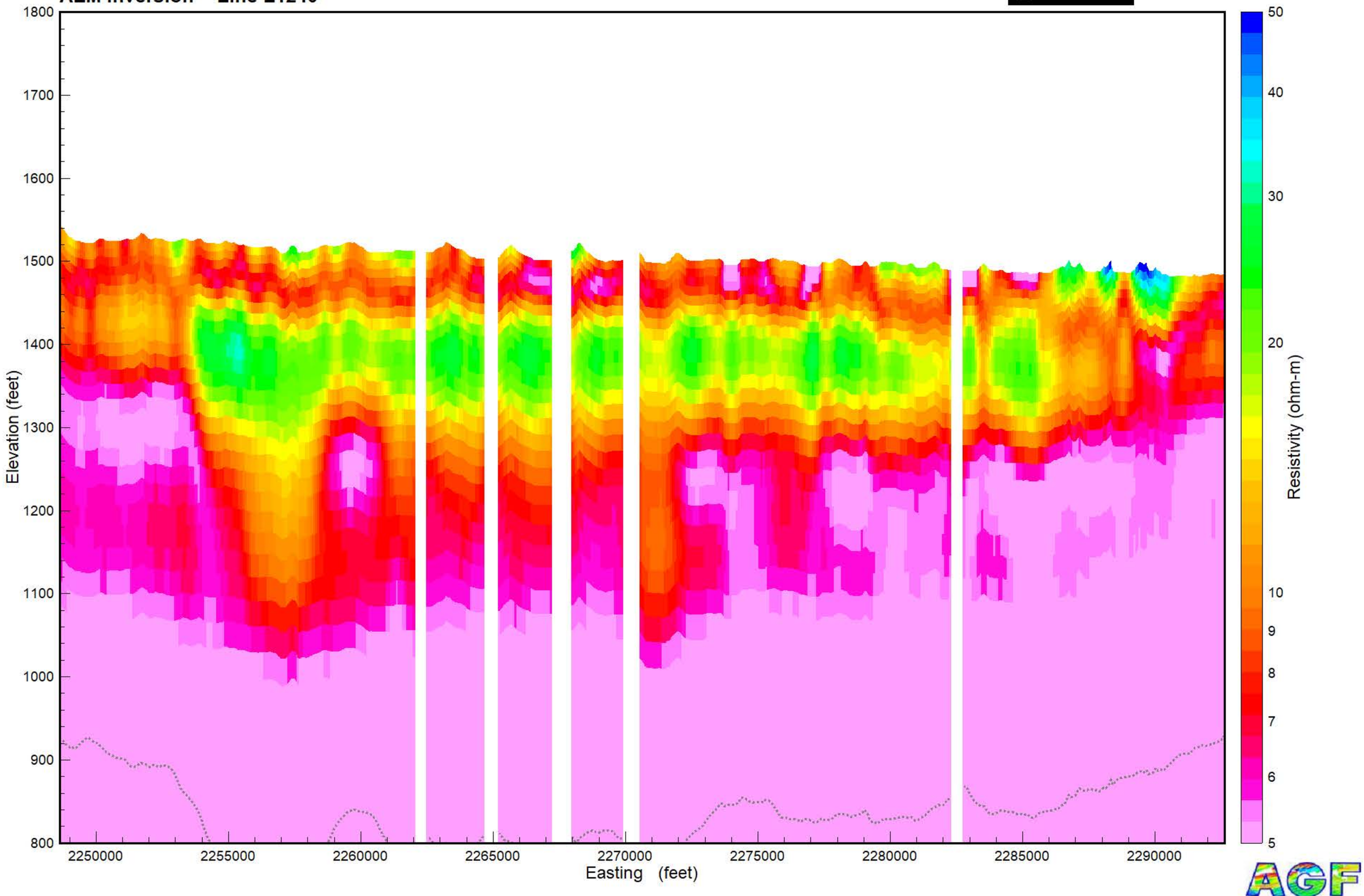


AGF Aqua Geo Frameworks


AEM Inversion Line L1230
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2250000
2255000
2260000
2265000
2270000
2275000
2280000
2285000
2290000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

GEOTECH

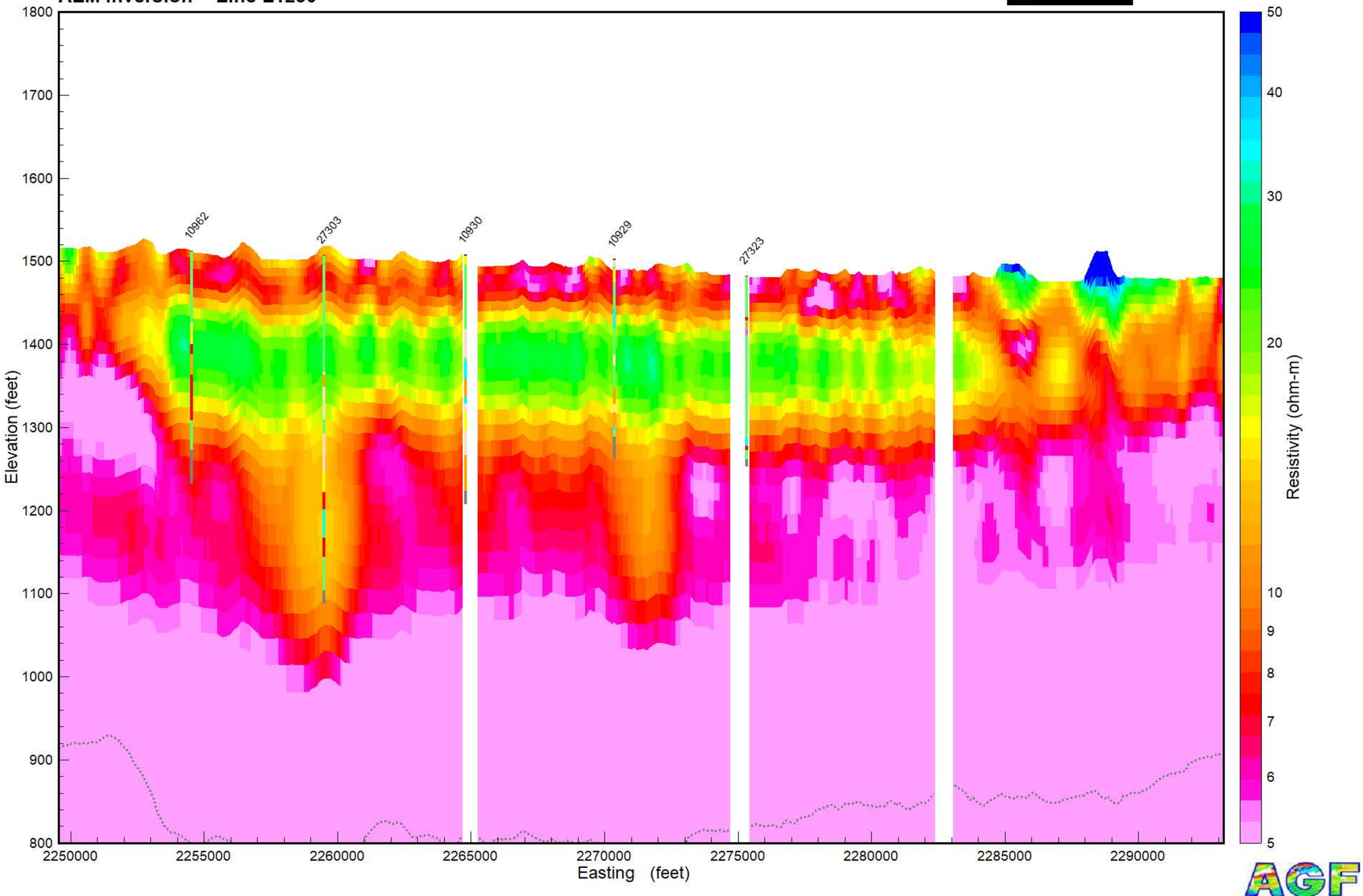
NORTH Dakota Be Legendary. | Water Commission & State Engineer



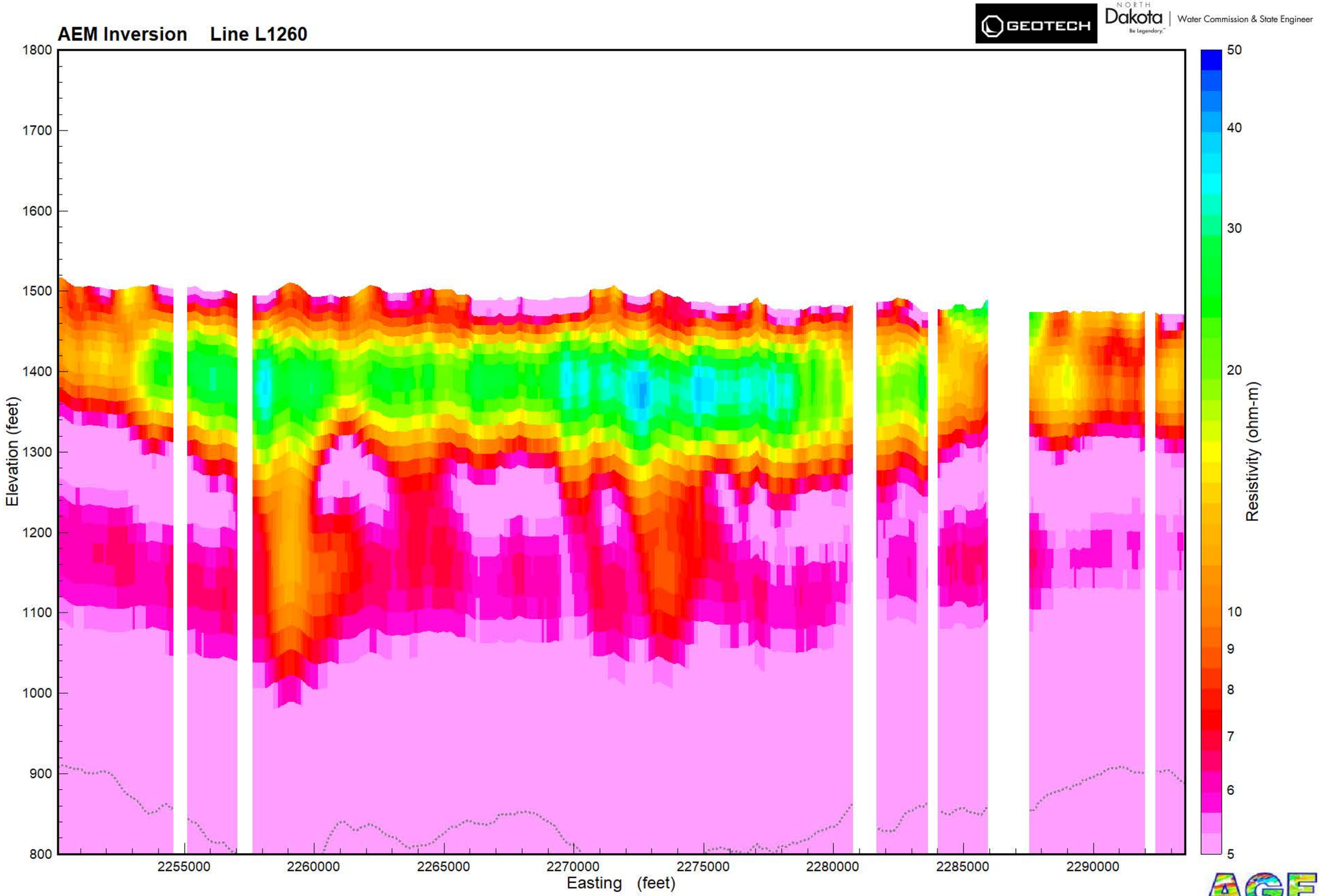
AGF Aqua Geo Frameworks

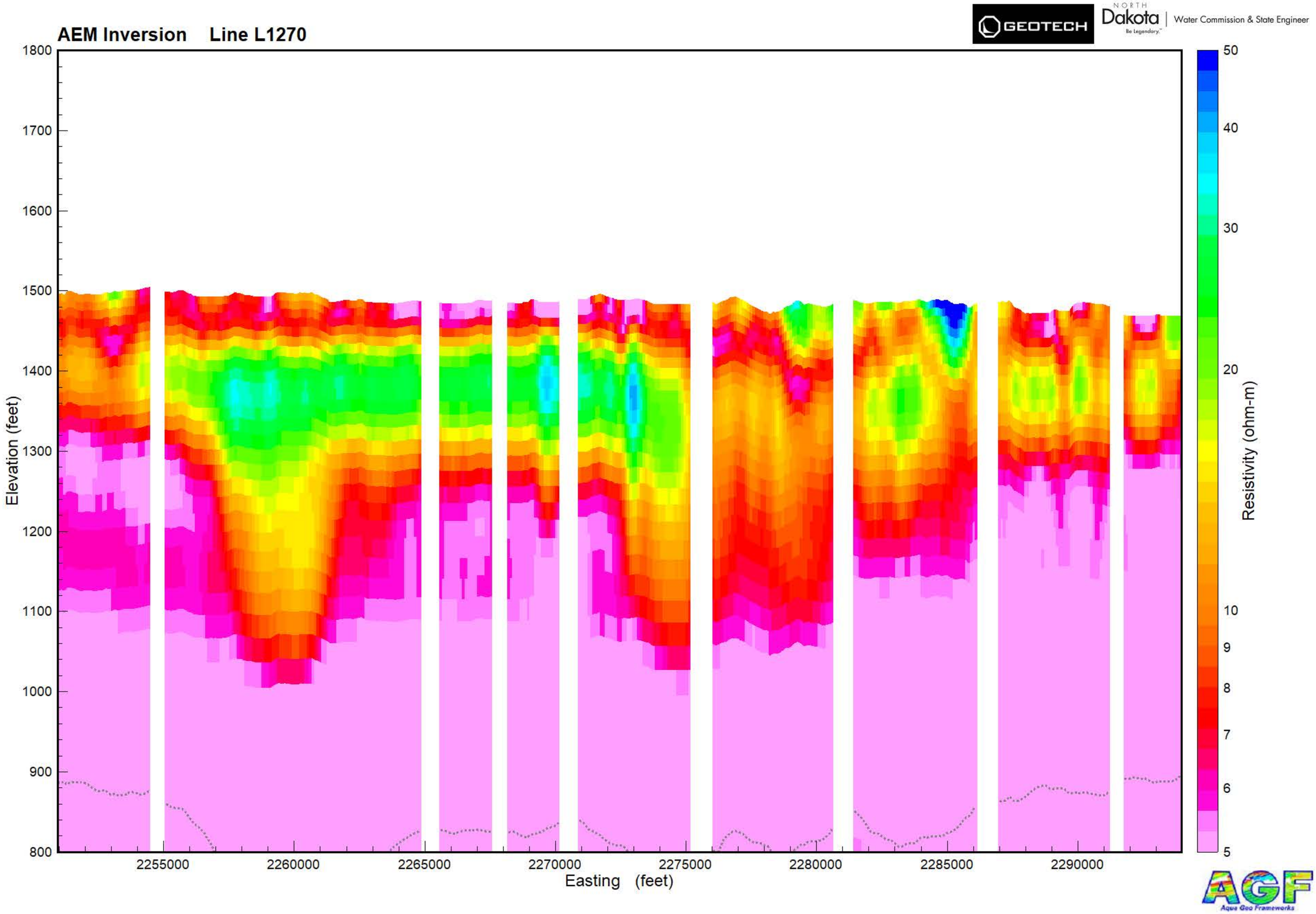
GEOTECH

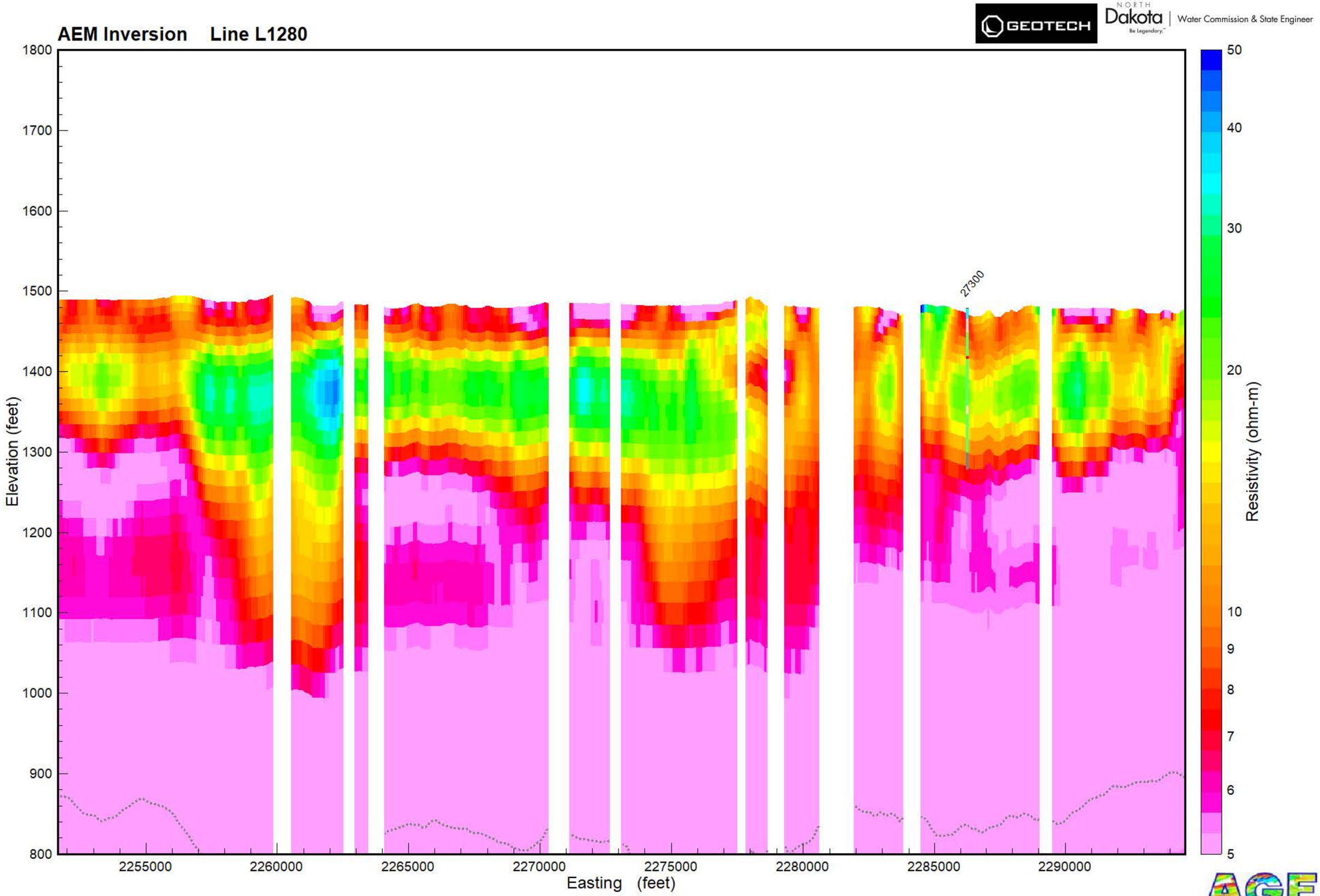
NORTH Dakota Be Legendary. | Water Commission & State Engineer

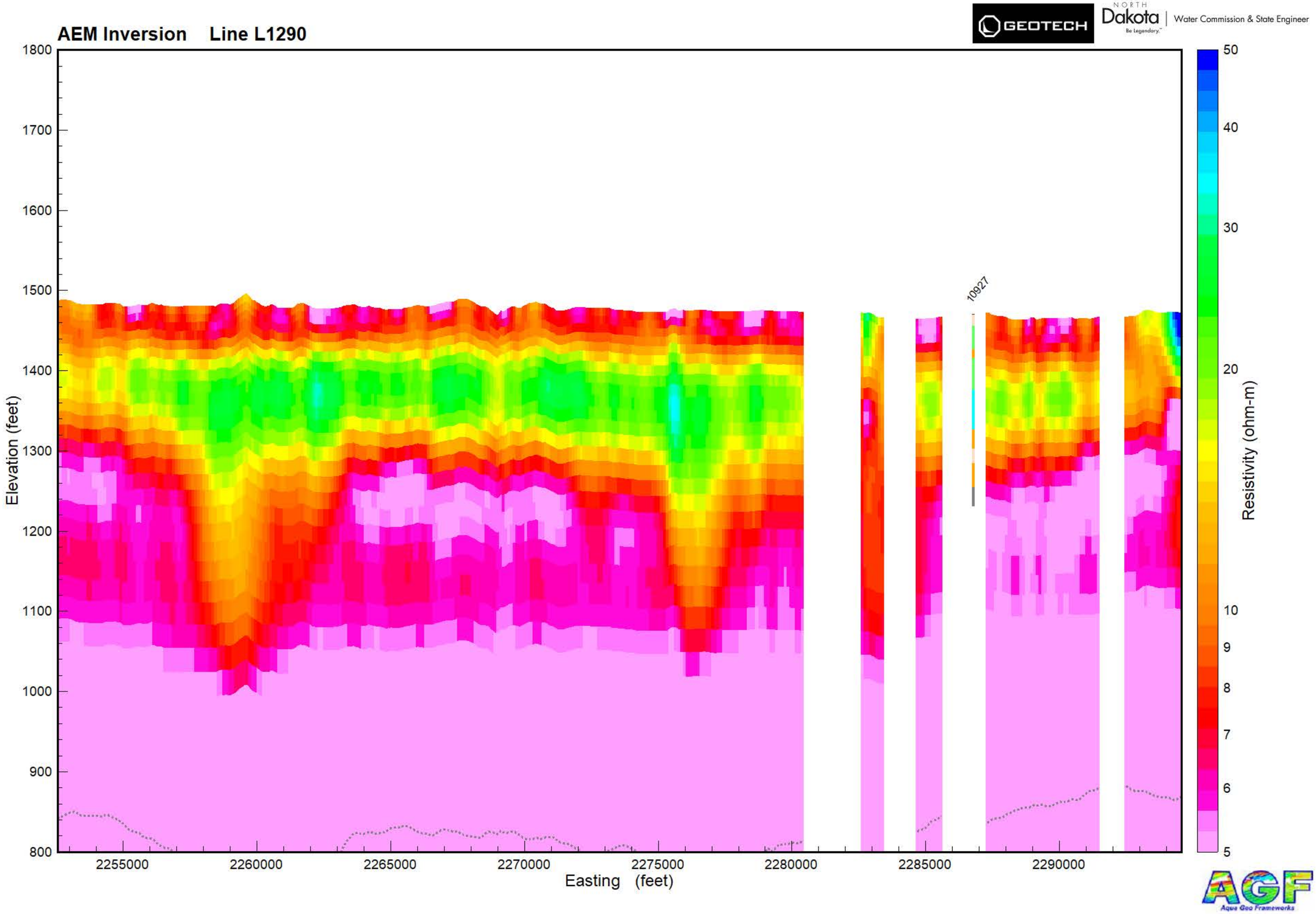


AGF Aqua Geo Frameworks


AEM Inversion Line L1260
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2255000
2260000
2265000
2270000
2275000
2280000
2285000
2290000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

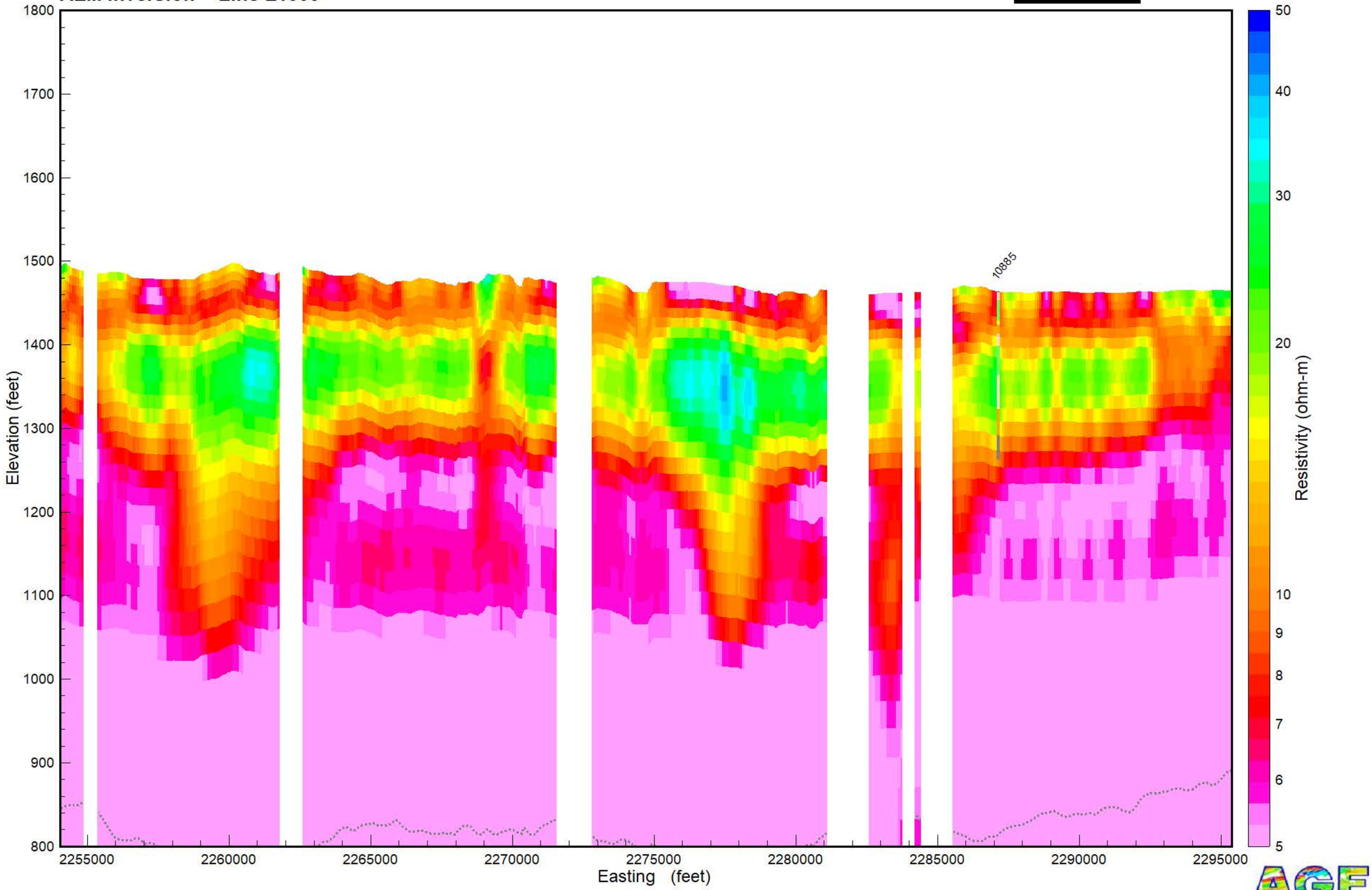

AEM Inversion Line L1270
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2255000
2260000
2265000
2270000
2275000
2280000
2285000
2290000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1280
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
27300
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2255000
2260000
2265000
2270000
2275000
2280000
2285000
2290000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

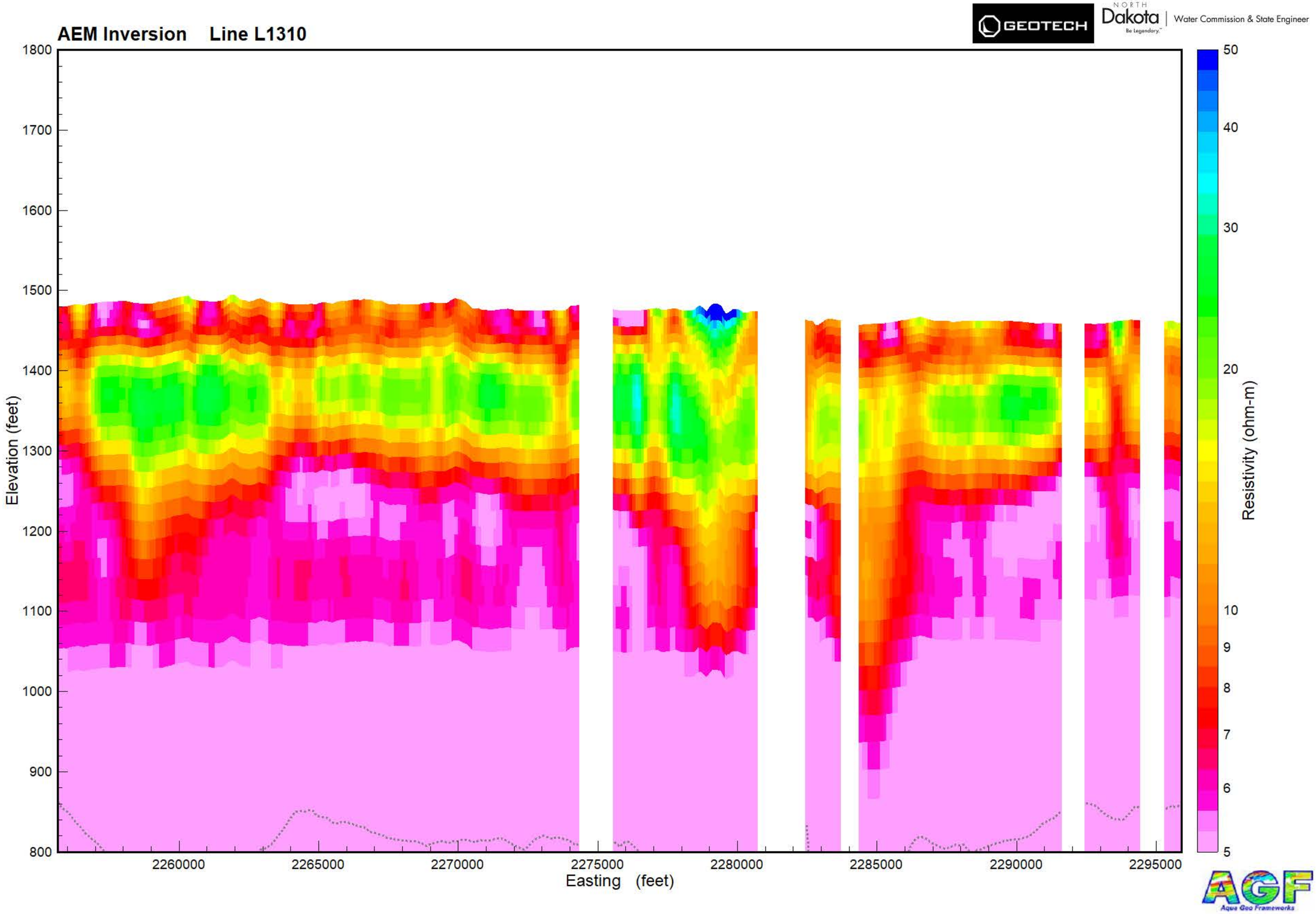

AEM Inversion Line L1290
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
10927
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2255000
2260000
2265000
2270000
2275000
2280000
2285000
2290000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer

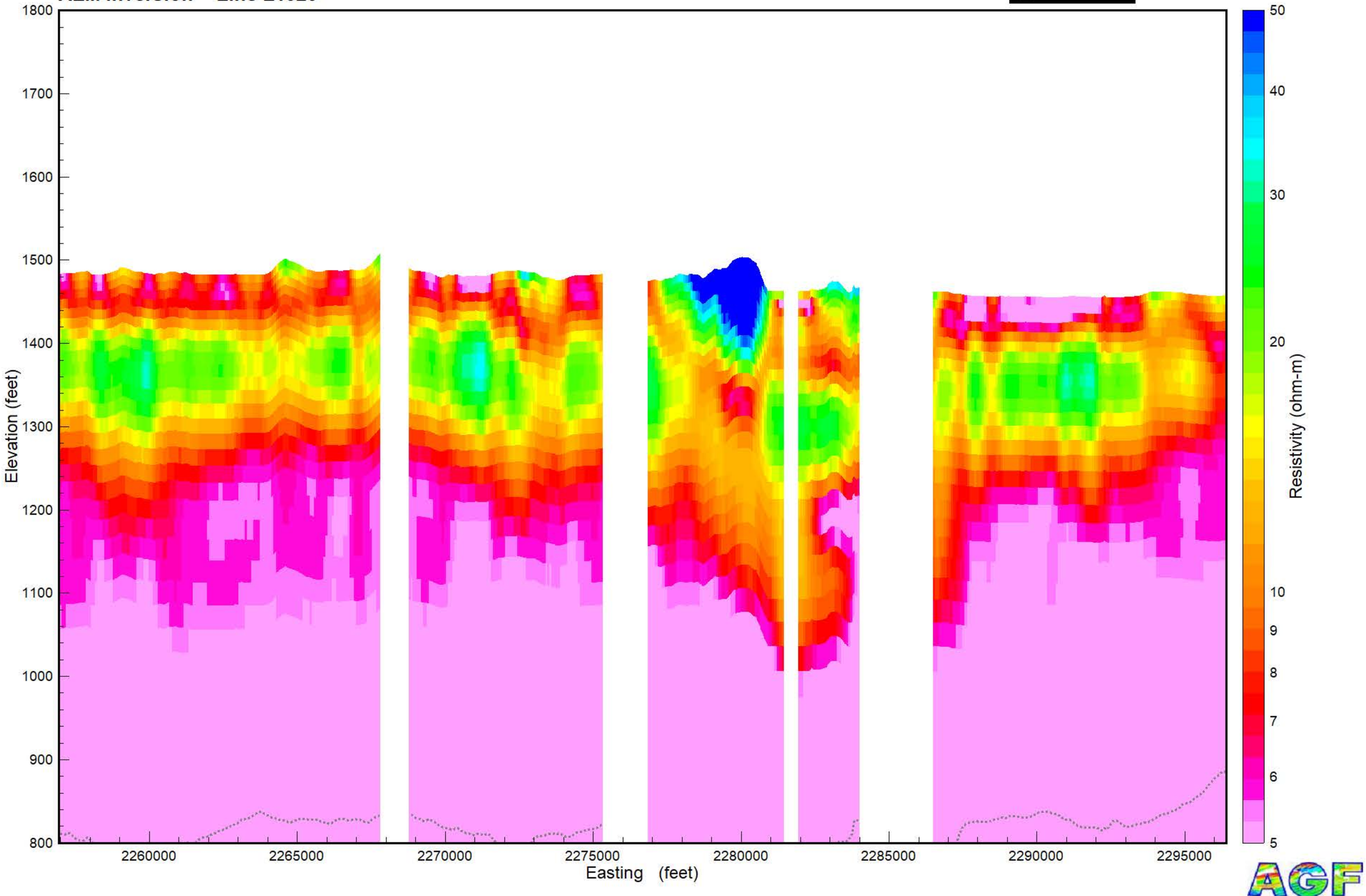


AGF Aqua Geo Frameworks


AEM Inversion Line L1310
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2260000
2265000
2270000
2275000
2280000
2285000
2290000
2295000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

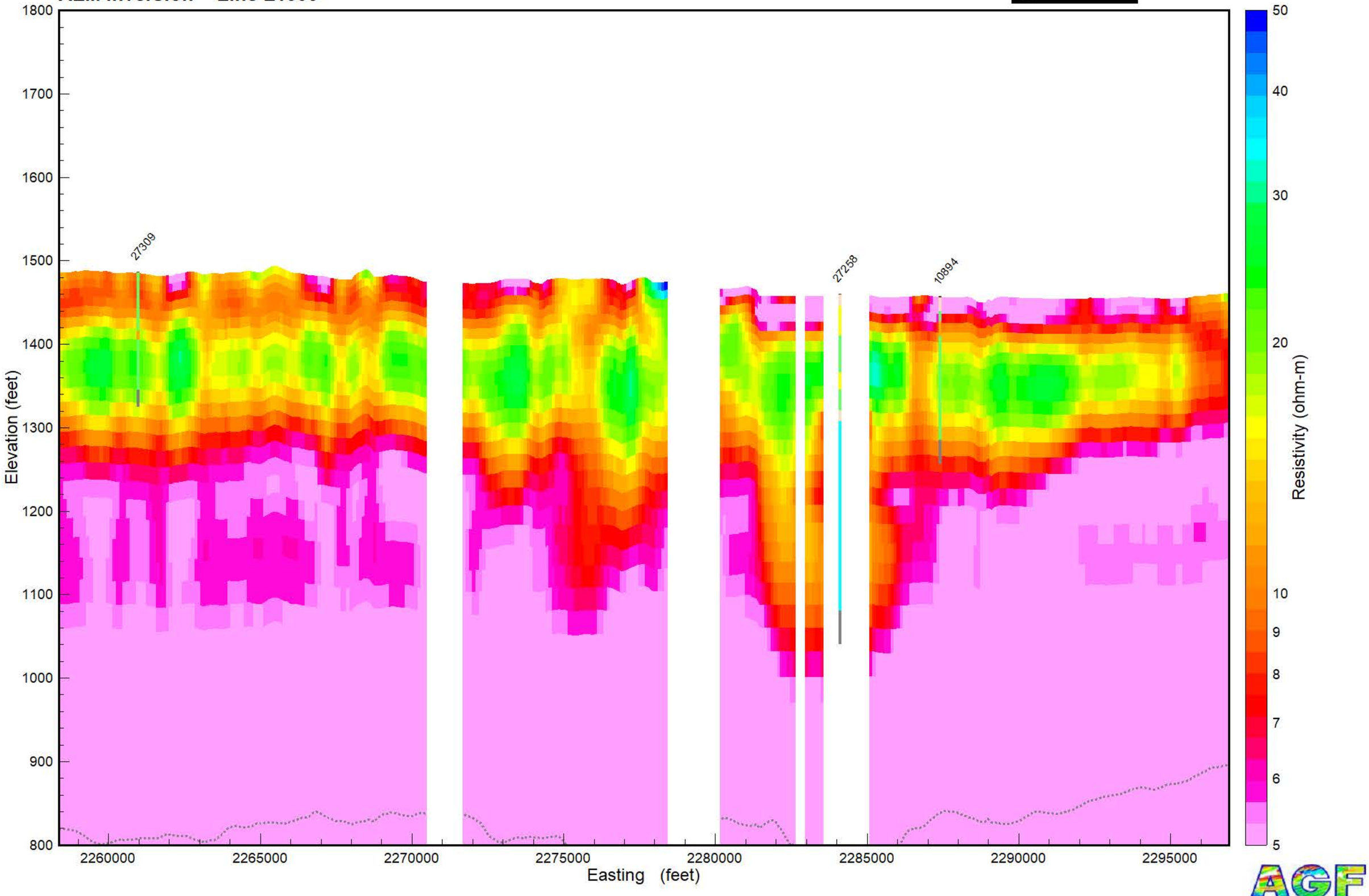
GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



AGF Aqua Geo Frameworks

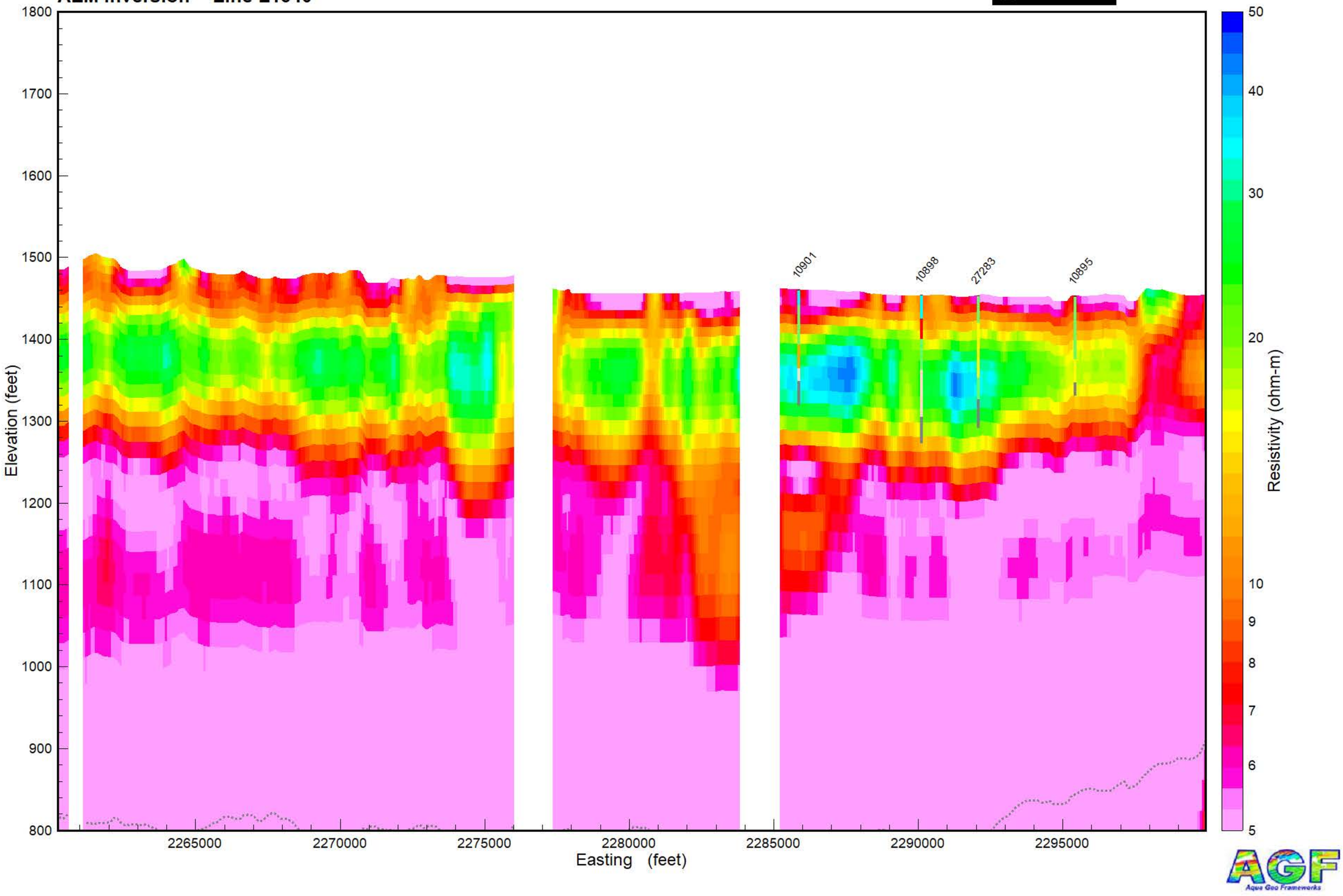
GEOTECH | NORTH Dakota Be Legendary. | Water Commission & State Engineer



AGF Aqua Geo Frameworks

GEOTECH

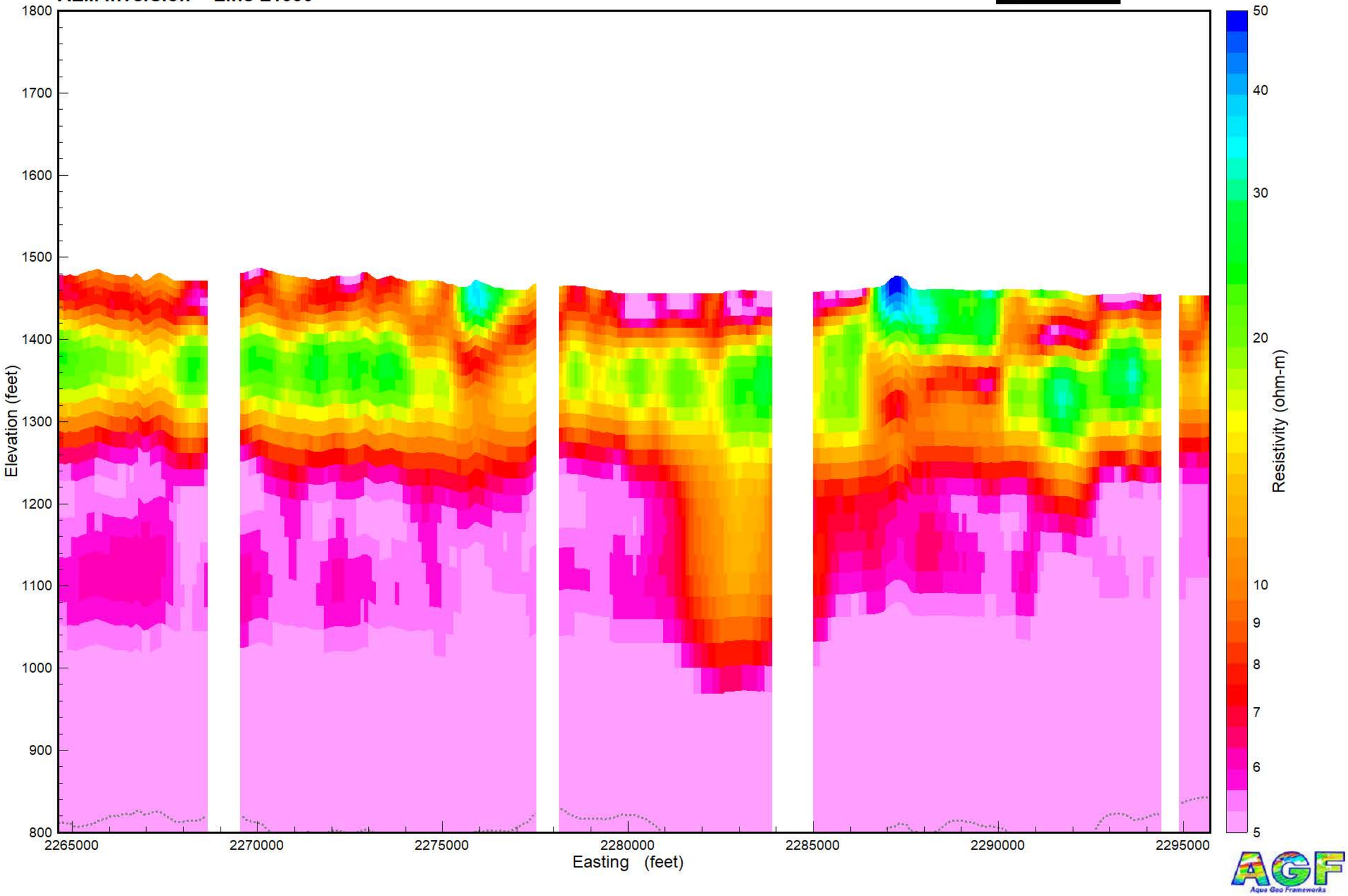
NORTH Dakota Be Legendary. | Water Commission & State Engineer



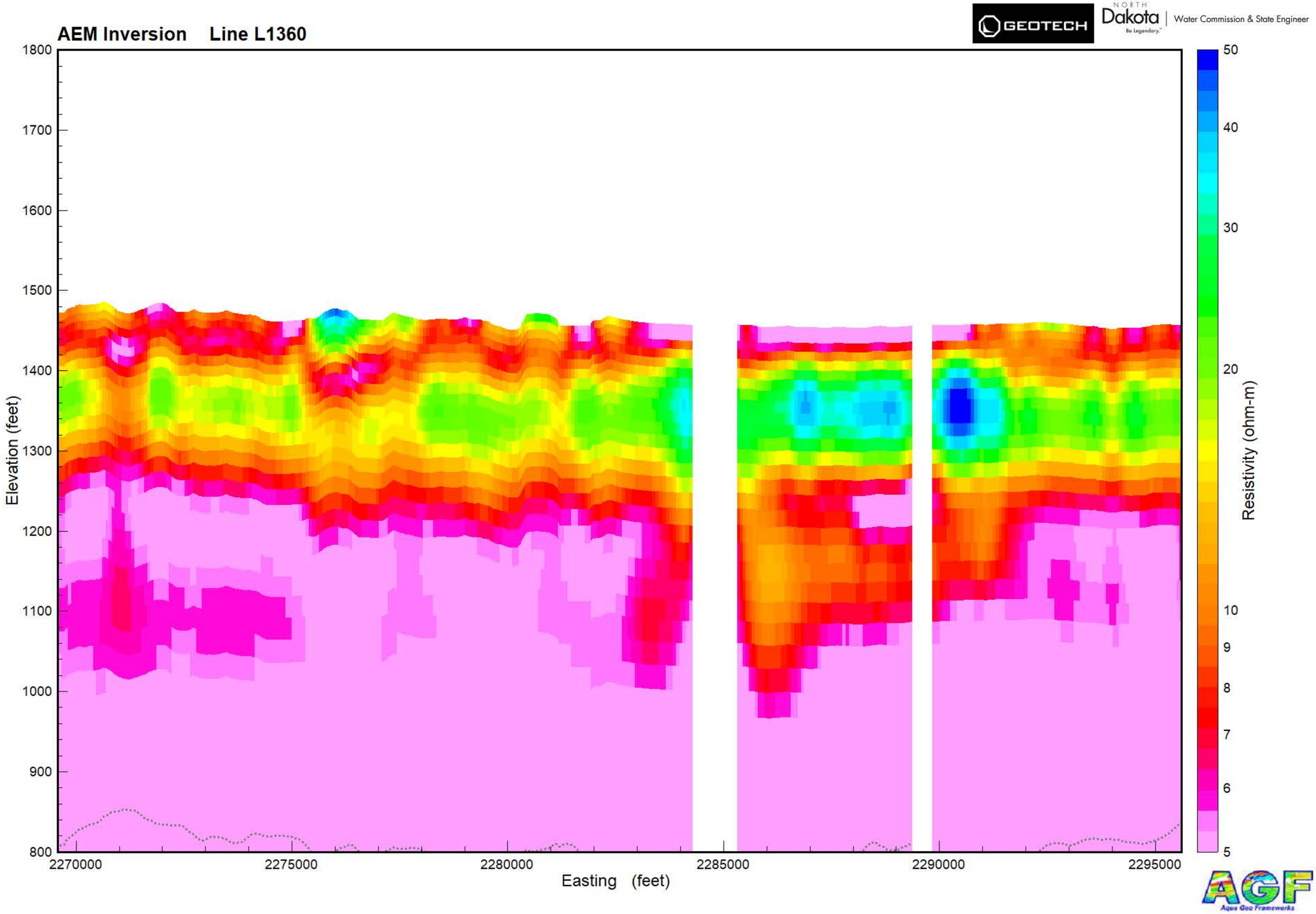
AGF Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



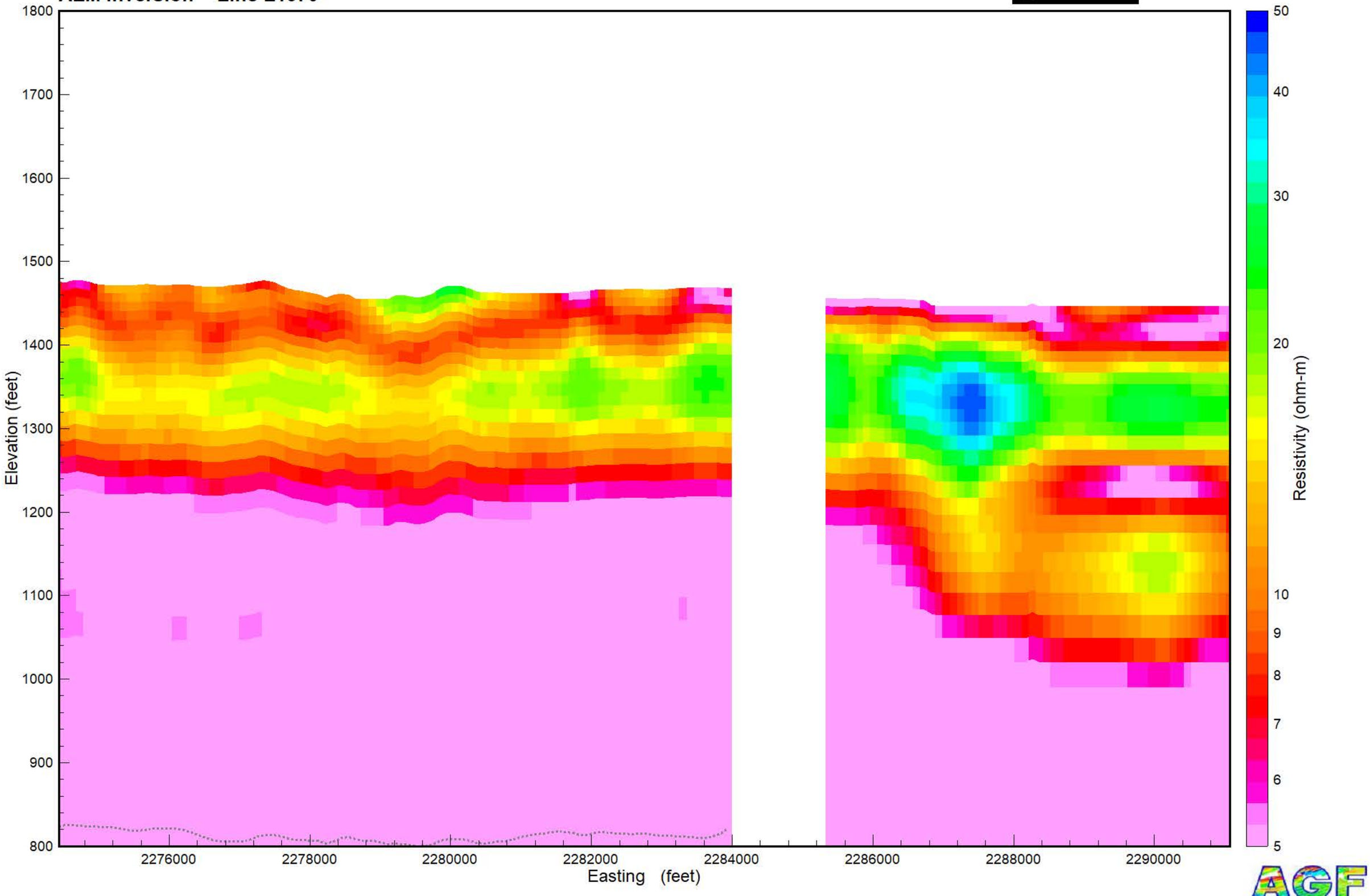
AGF Aqua Geo Frameworks


AEM Inversion Line L1360
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2270000
2275000
2280000
2285000
2290000
2295000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

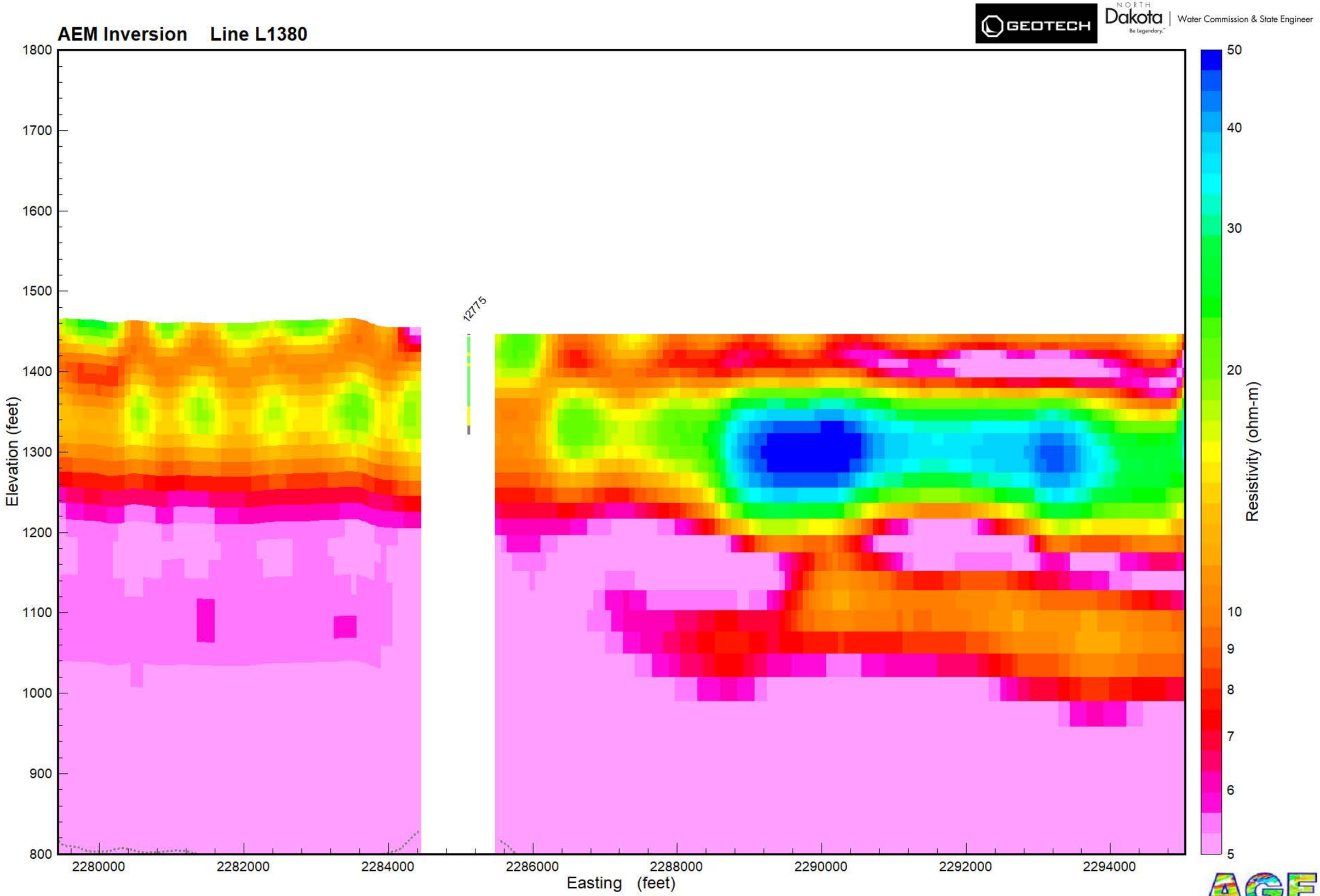
GEOTECH

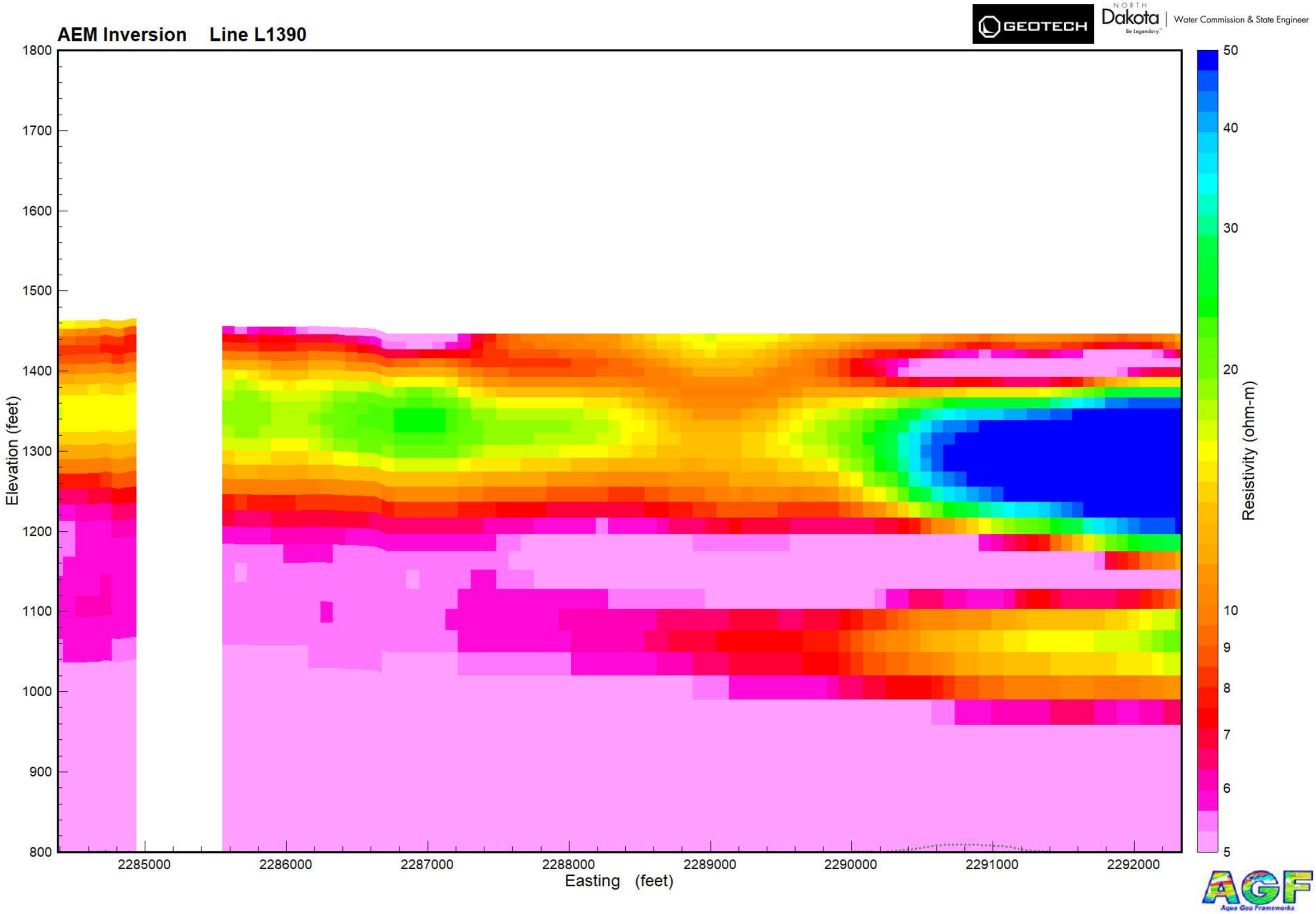
NORTH Dakota Be Legendary. | Water Commission & State Engineer

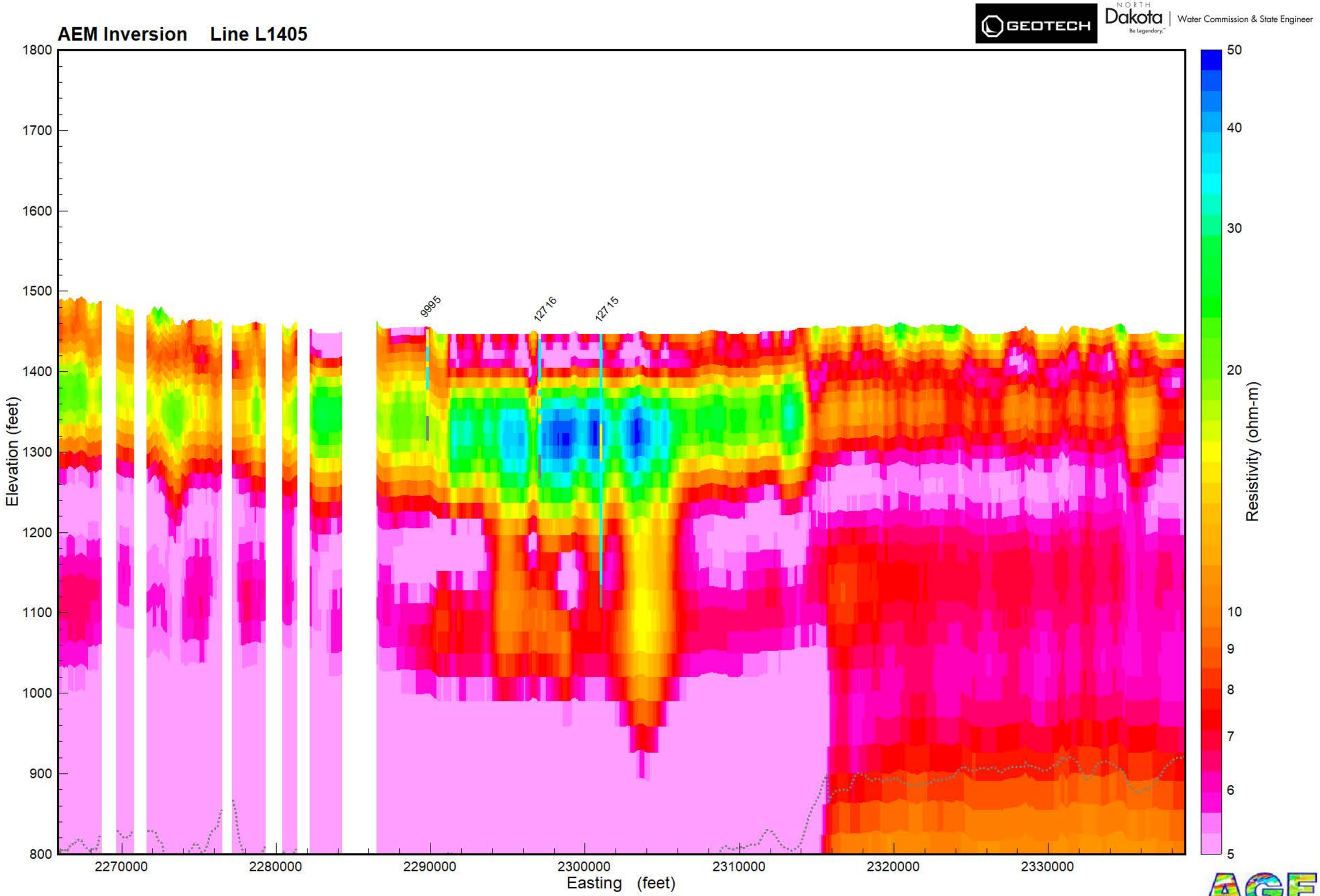
AEM Inversion Line L1370

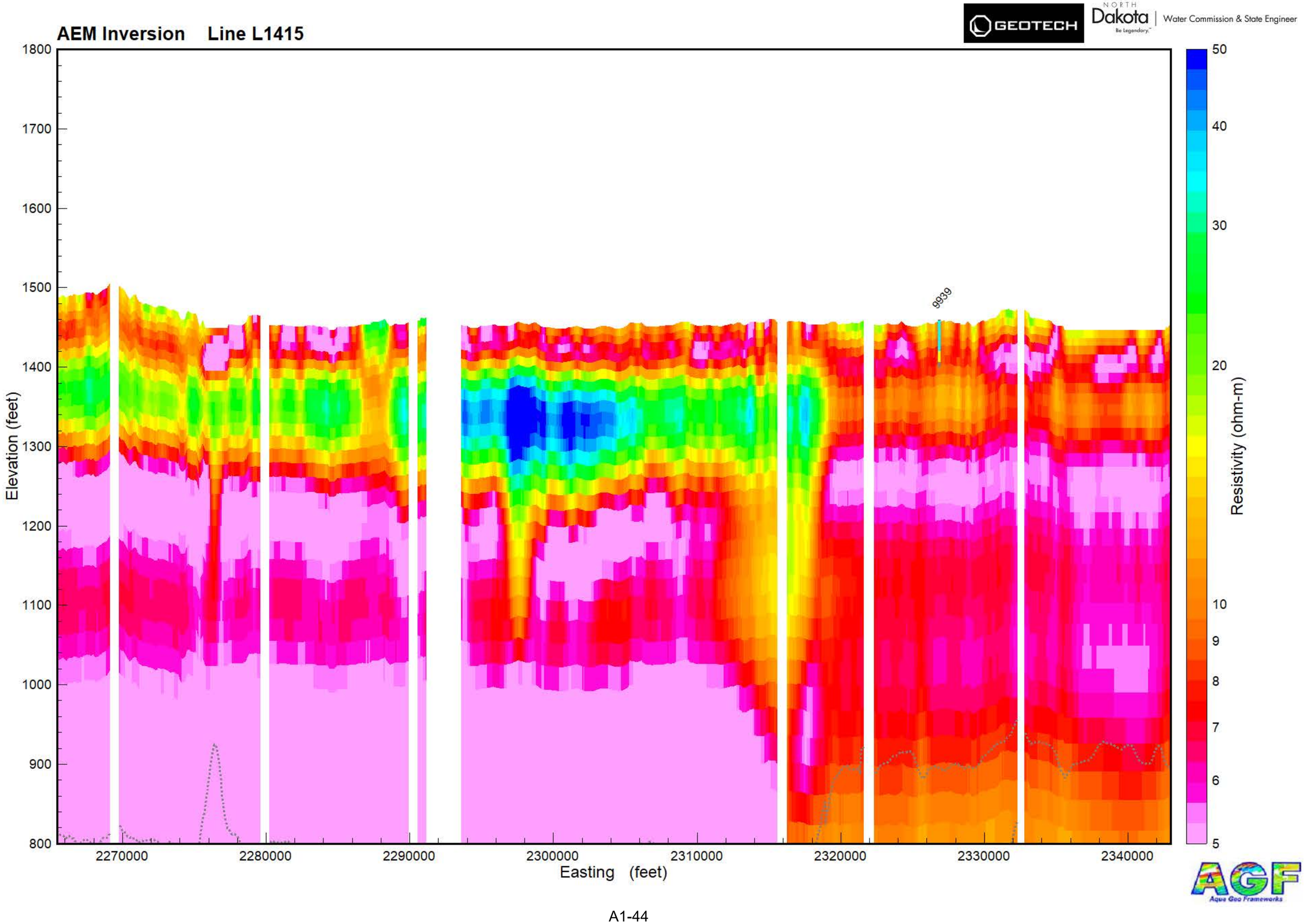


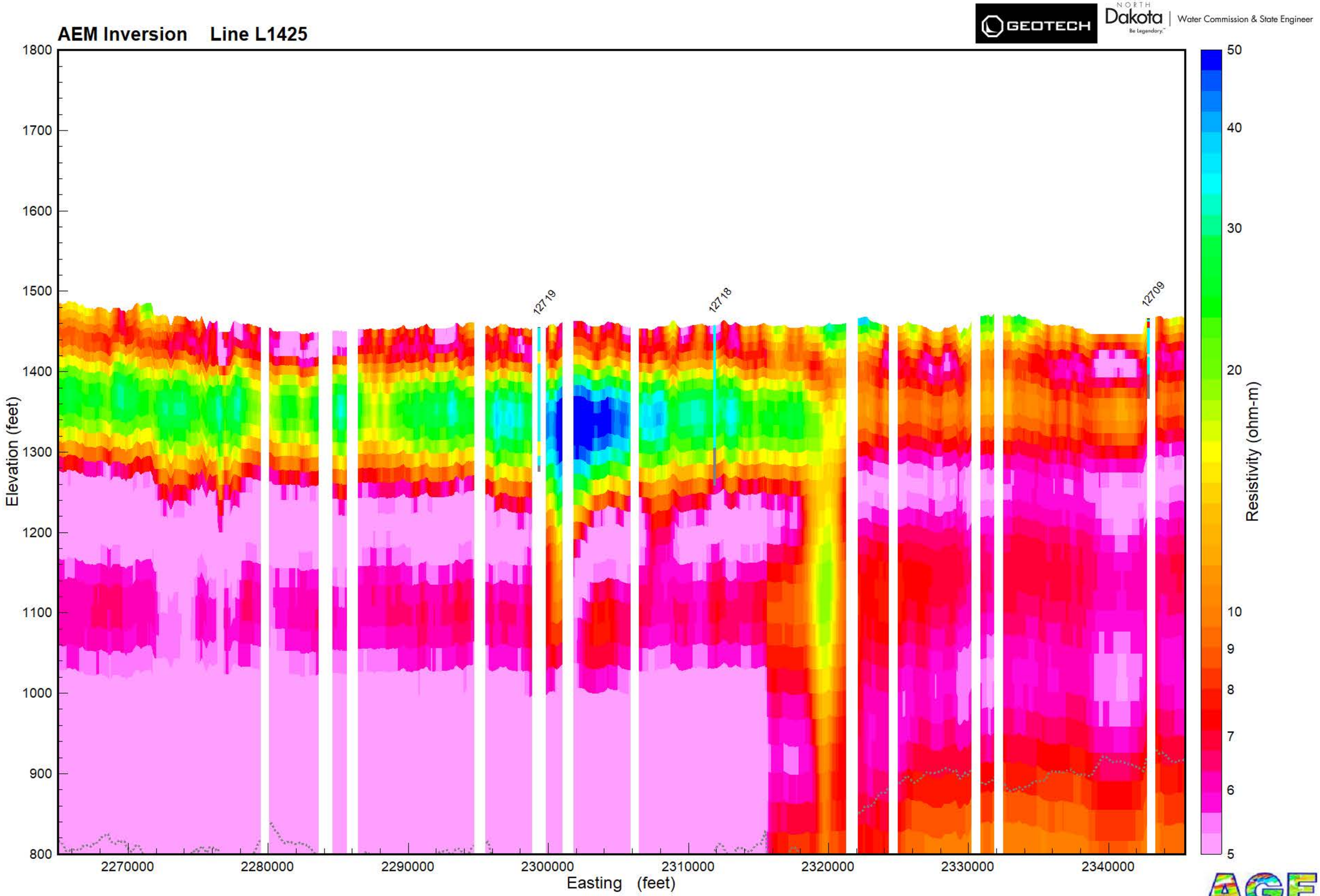
AGF Aqua Geo Frameworks


AEM Inversion Line L1380
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
12775
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2280000
2282000
2284000
2286000
2288000
2290000
2292000
2294000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1390
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2285000
2286000
2287000
2288000
2289000
2290000
2291000
2292000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

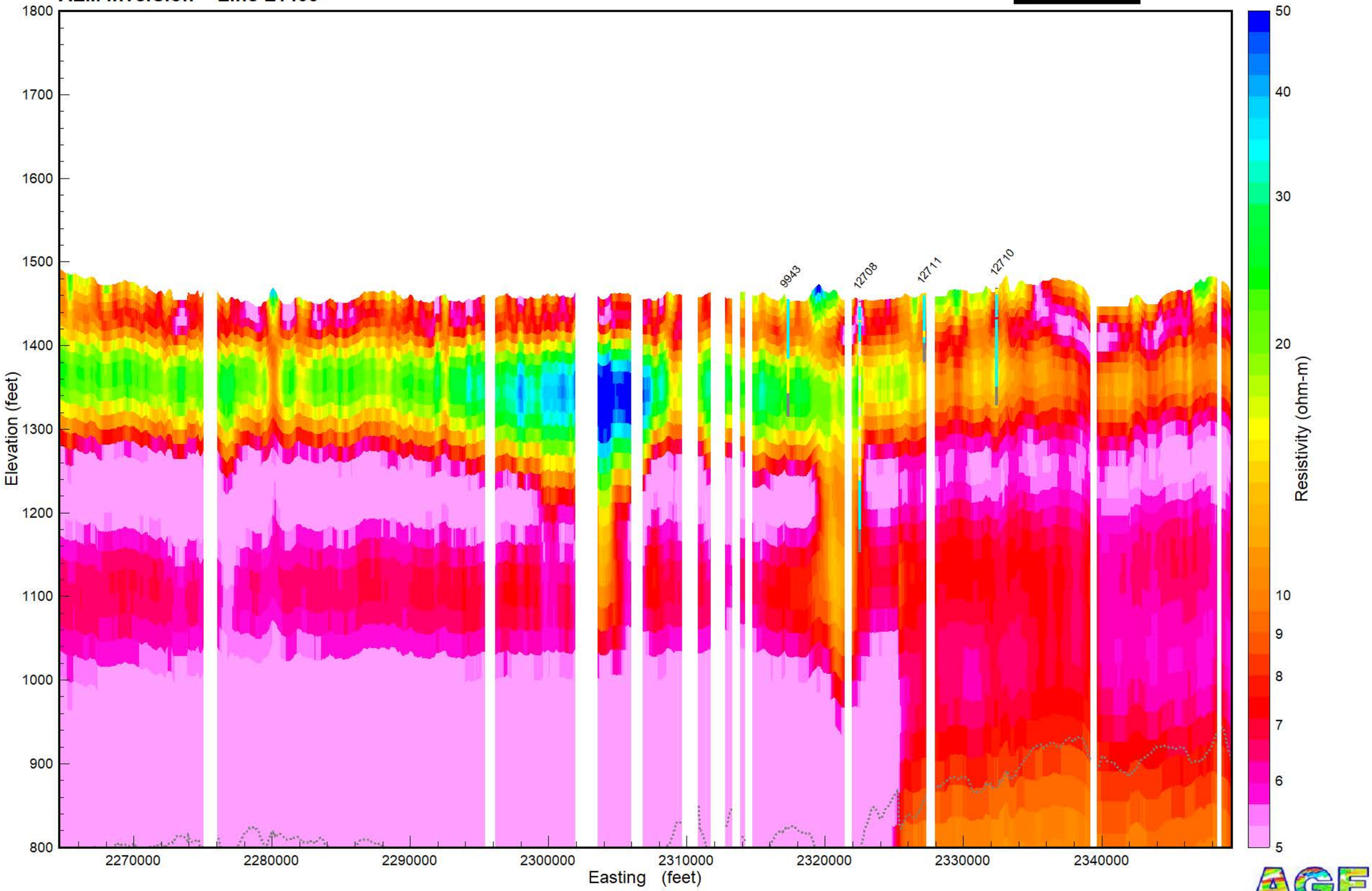

AEM Inversion Line L1405
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
9995
12716
12715
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2270000
2280000
2290000
2300000
2310000
2320000
2330000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1415
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
9939
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2270000
2280000
2290000
2300000
2310000
2320000
2330000
2340000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1425
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
Elevation (feet)
12719
12718
12709
2270000
2280000
2290000
2300000
2310000
2320000
2330000
2340000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks

GEOTECH

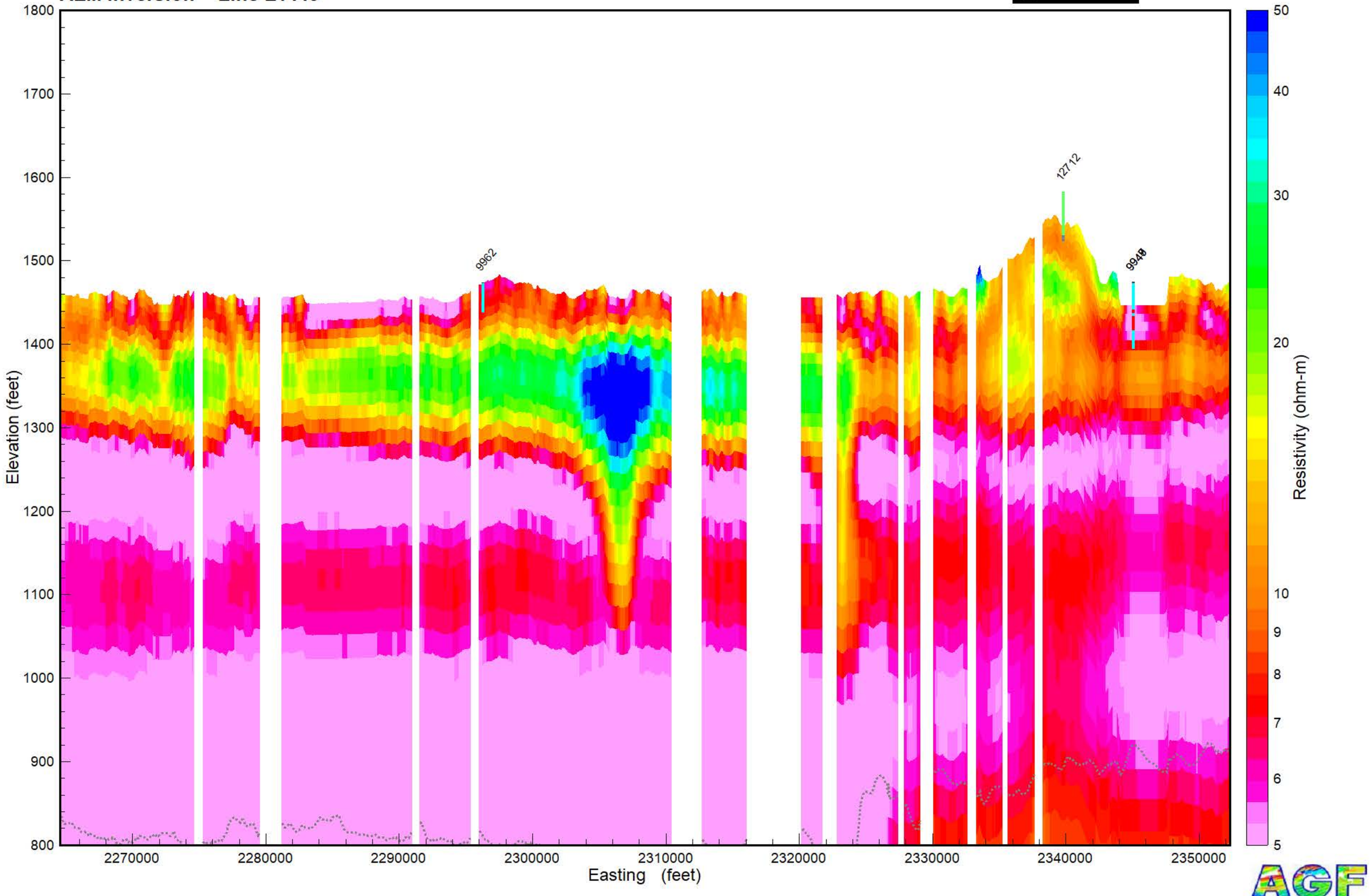
NORTH Dakota Be Legendary. | Water Commission & State Engineer



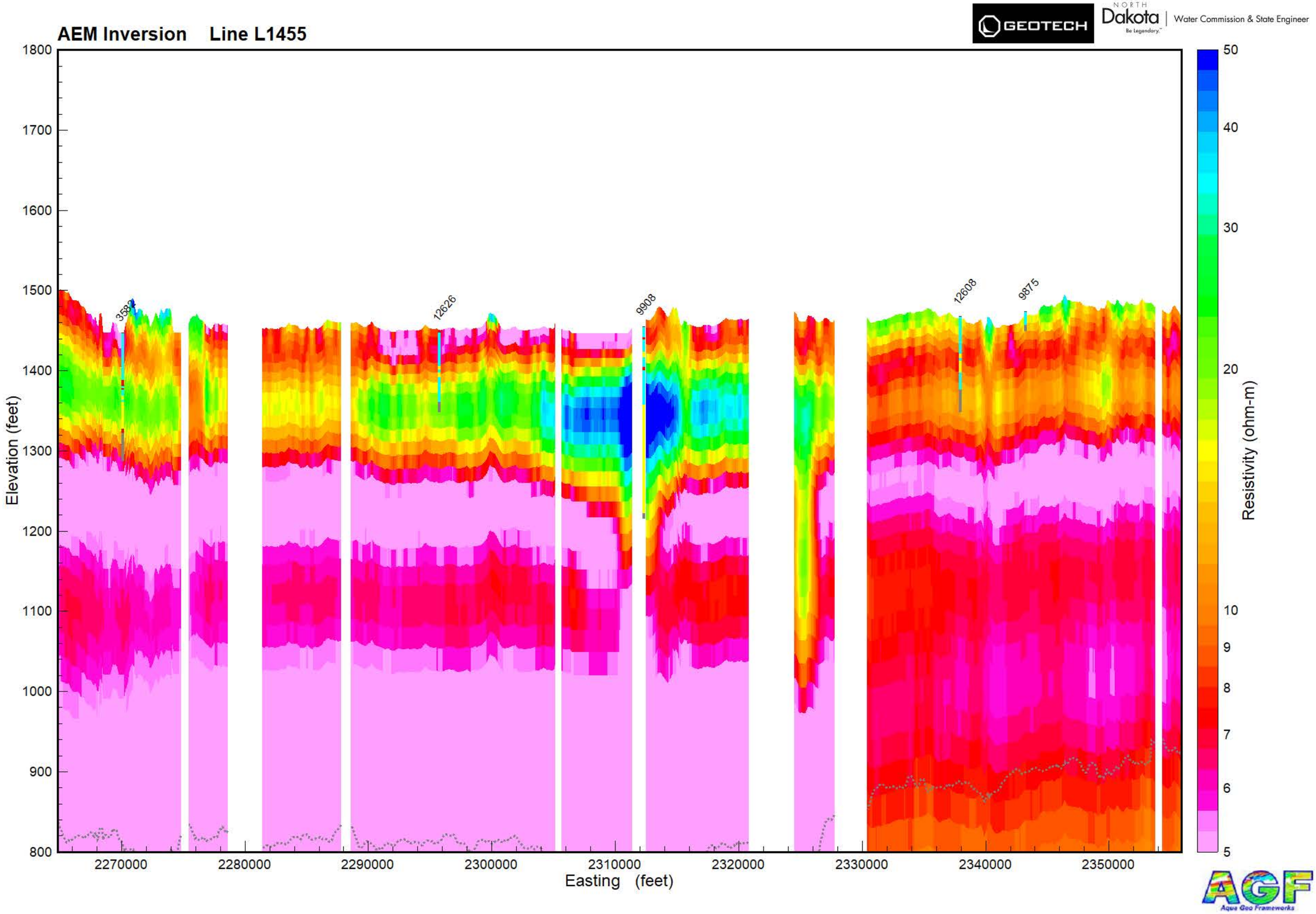
AGF Aqua Geo Frameworks

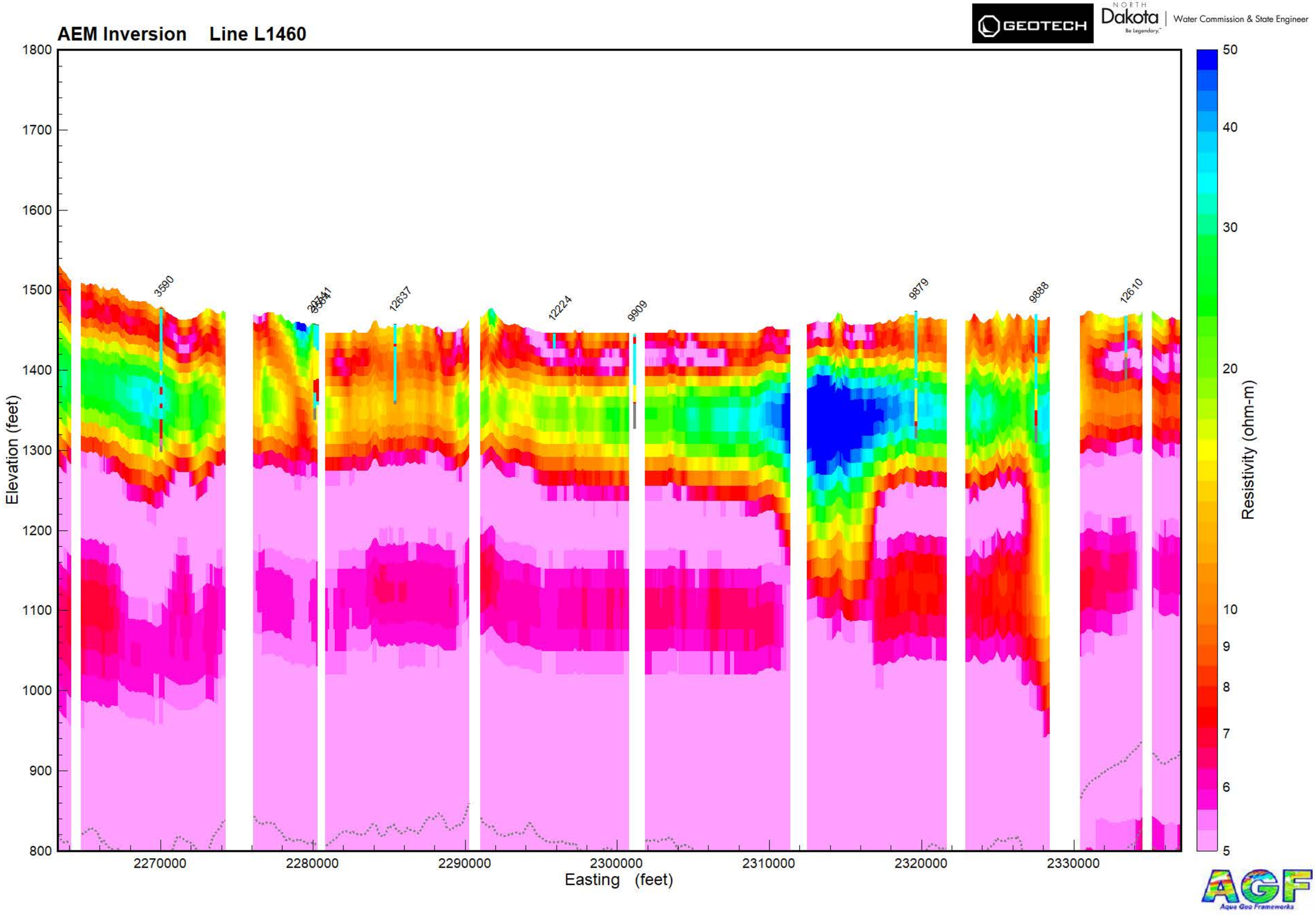
GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



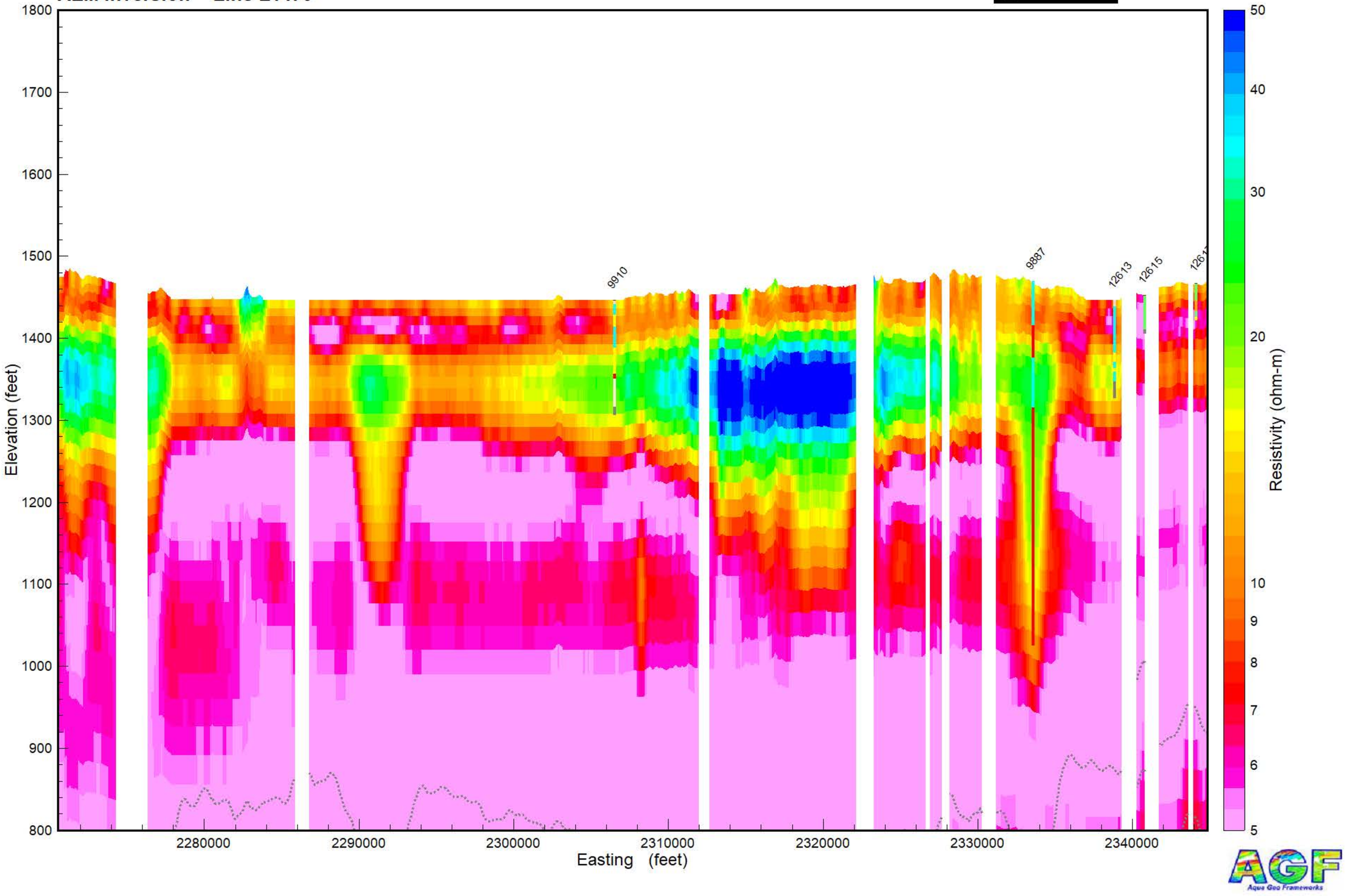
AGF Aqua Geo Frameworks


AEM Inversion Line L1455
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
3582
12626
9908
12608
9875
2270000
2280000
2290000
2300000
2310000
2320000
2330000
2340000
2350000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1460
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
3590
12637
12224
9909
9879
9888
12610
2270000
2280000
2290000
2300000
2310000
2320000
2330000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

GEOTECH

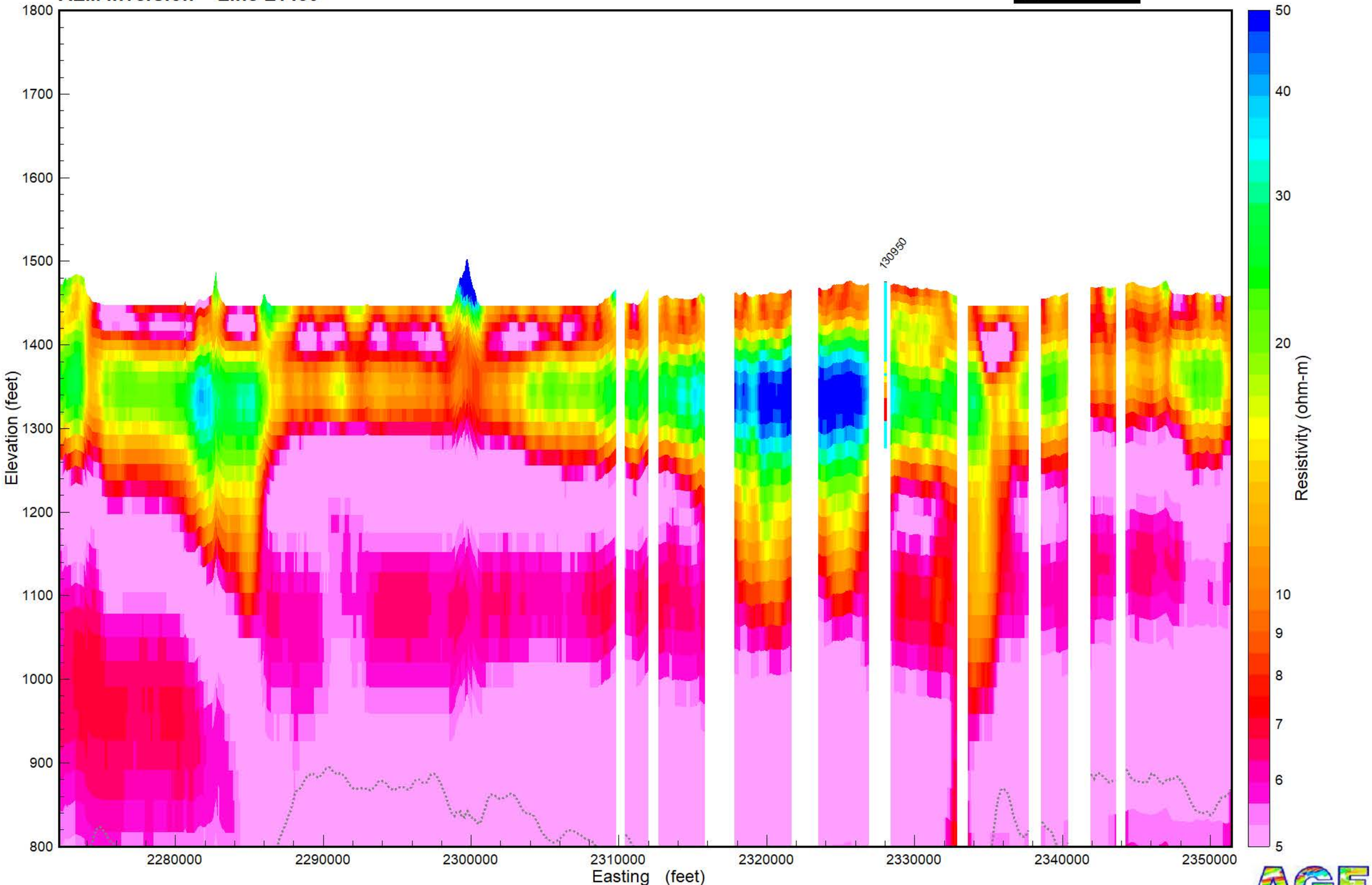
NORTH Dakota Be Legendary. | Water Commission & State Engineer



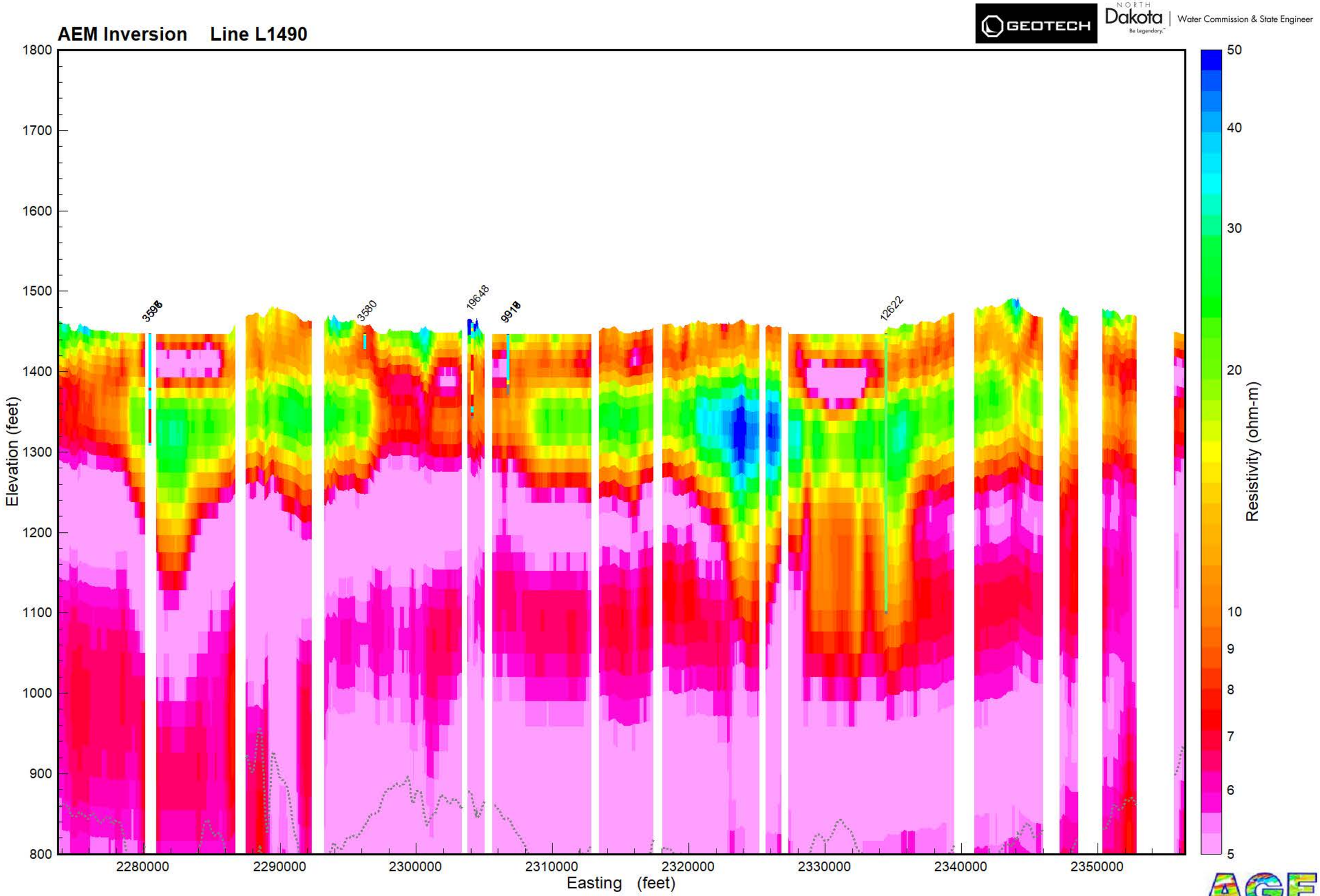
AGF Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer

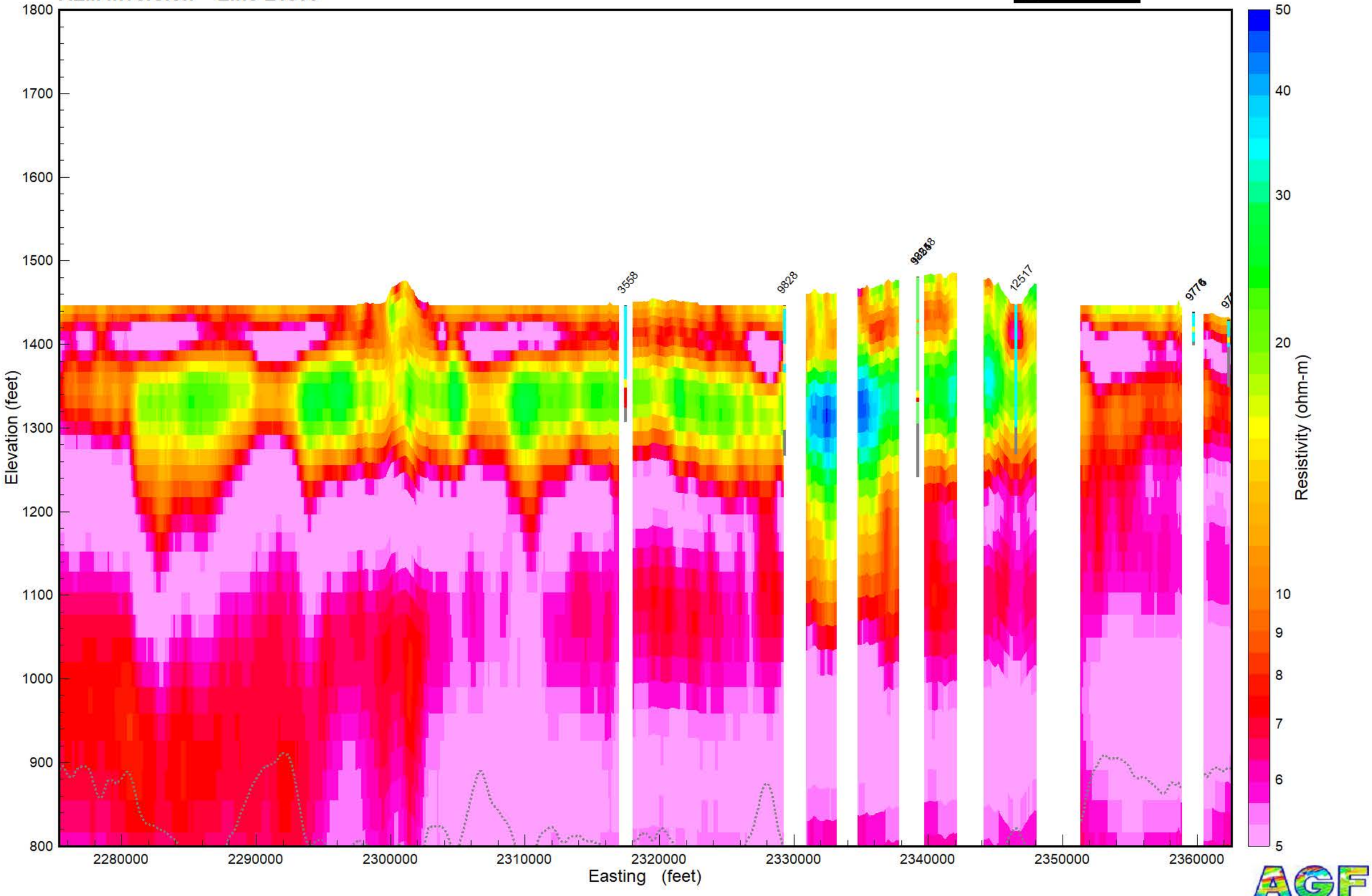


AGF Aqua Geo Frameworks


AEM Inversion Line L1490
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
Elevation (feet)
3598
3580
19648
9918
12622
2280000
2290000
2300000
2310000
2320000
2330000
2340000
2350000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks

GEOTECH

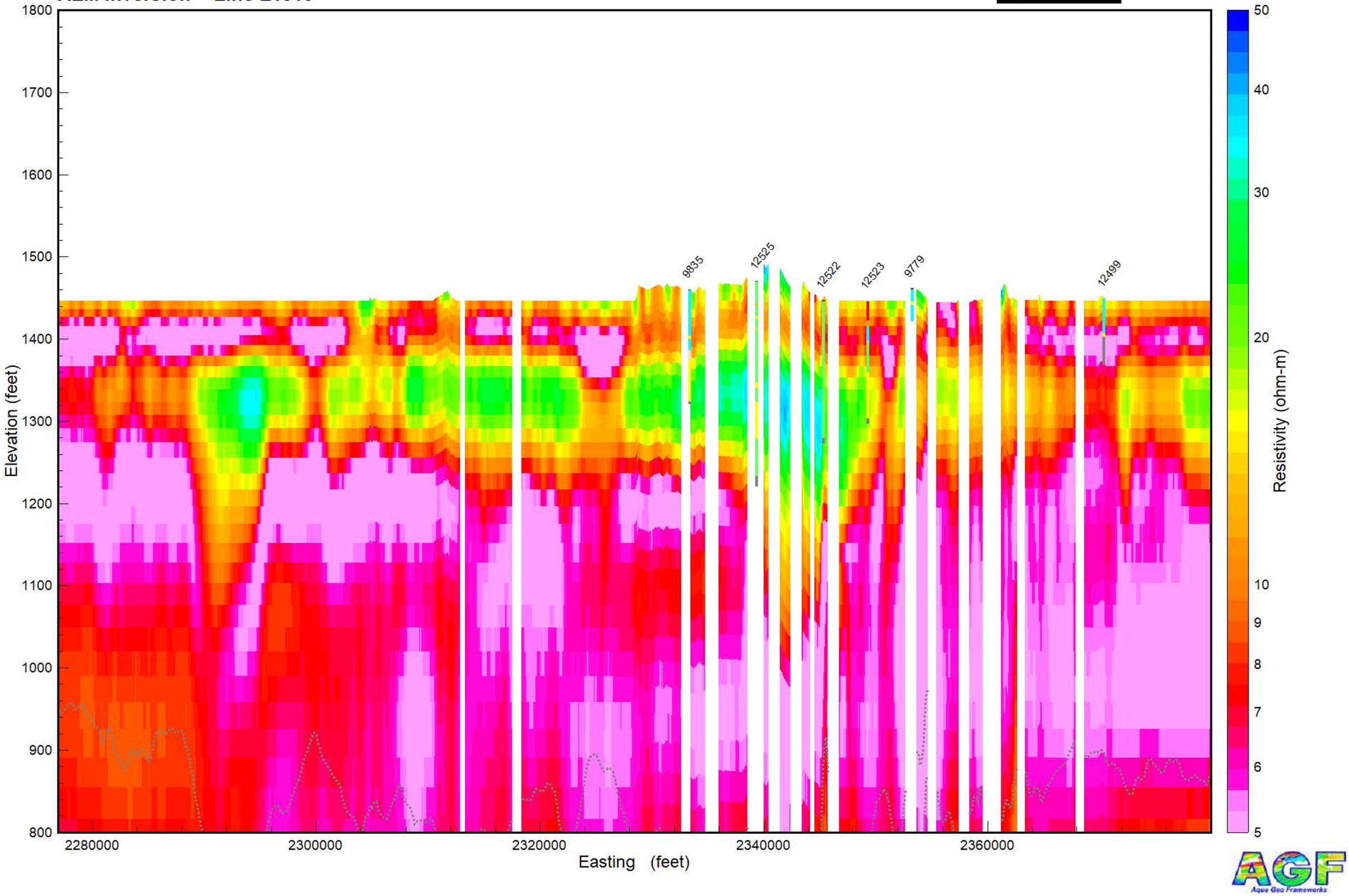
NORTH Dakota Be Legendary. | Water Commission & State Engineer



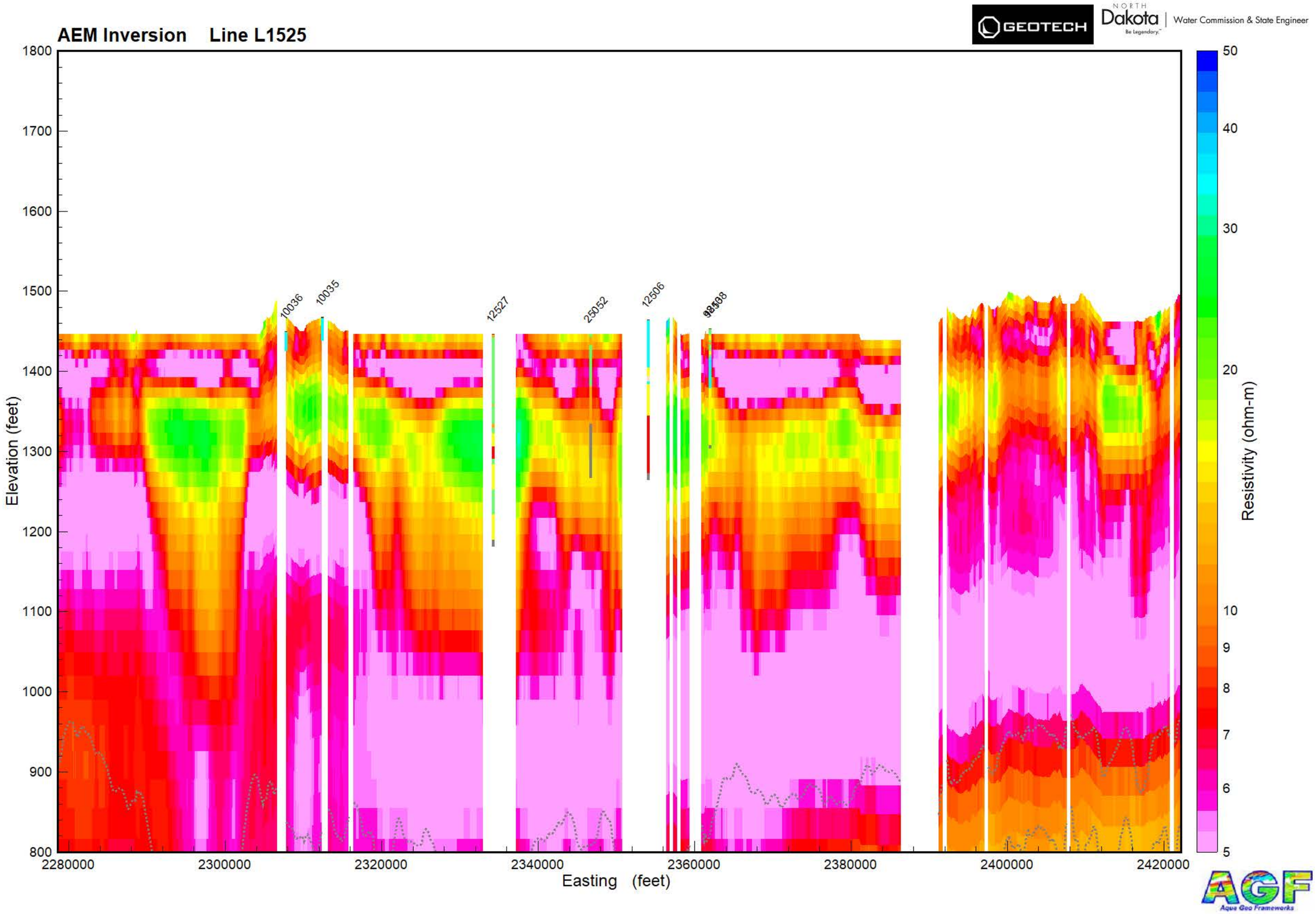
AGF Aqua Geo Frameworks

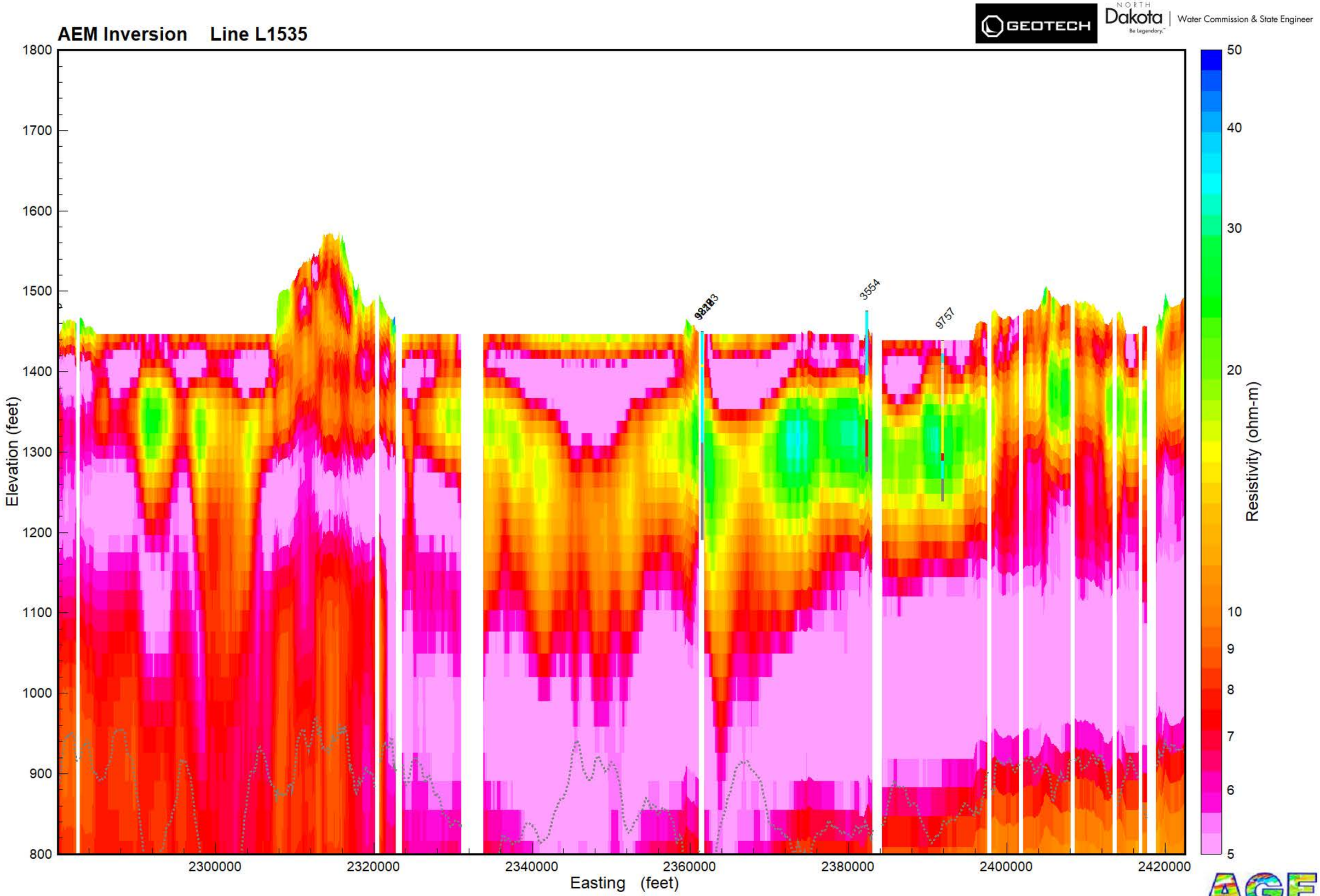
GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



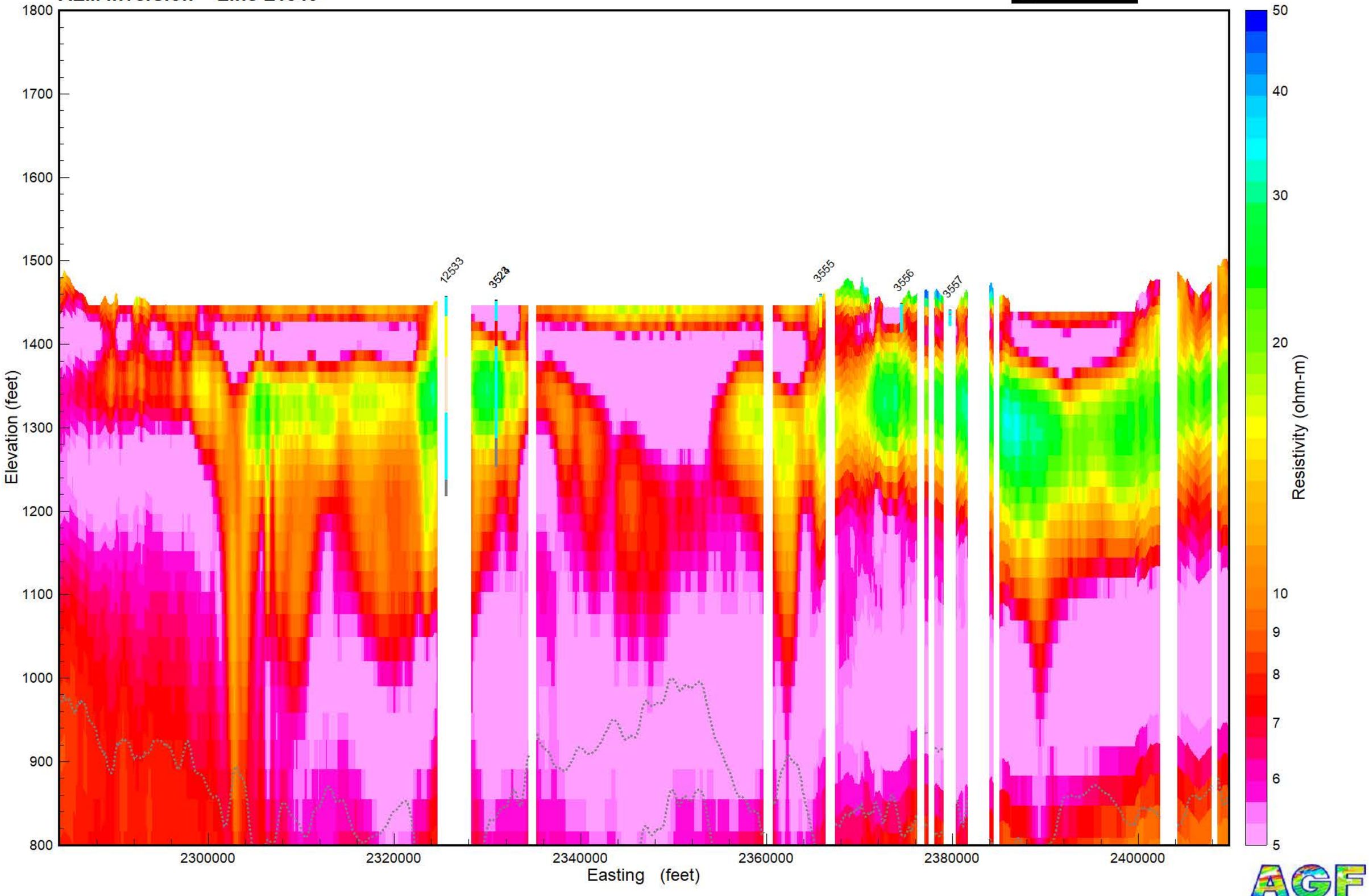
AGF Aqua Geo Frameworks


AEM Inversion Line L1525
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
10036
10035
12527
25052
12506
2280000
2300000
2320000
2340000
2360000
2380000
2400000
2420000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L1535
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
Elevation (feet)
3554
9757
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
2300000
2320000
2340000
2360000
2380000
2400000
2420000
Easting (feet)
AGF
Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer

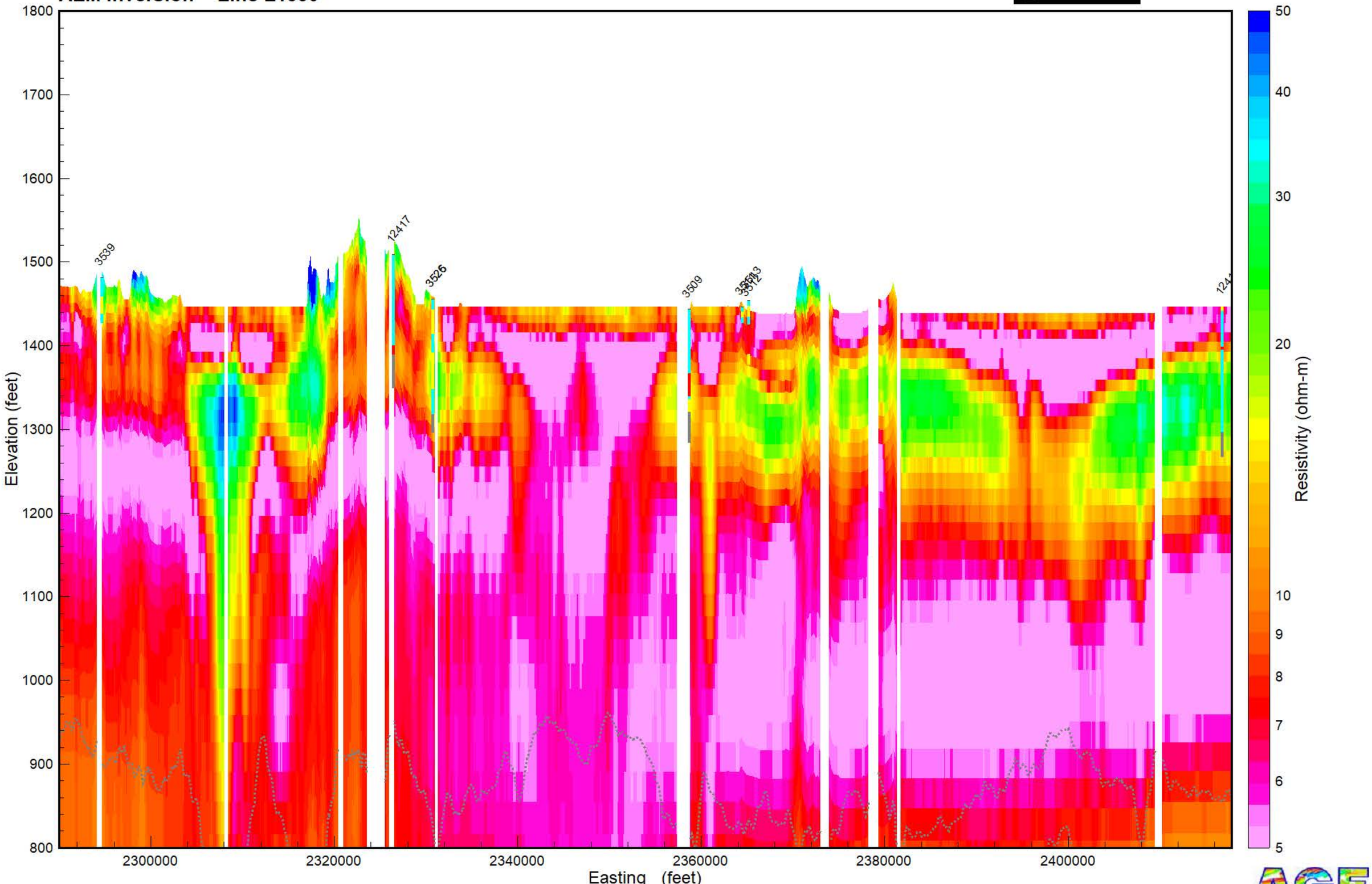


AGF Aqua Geo Frameworks

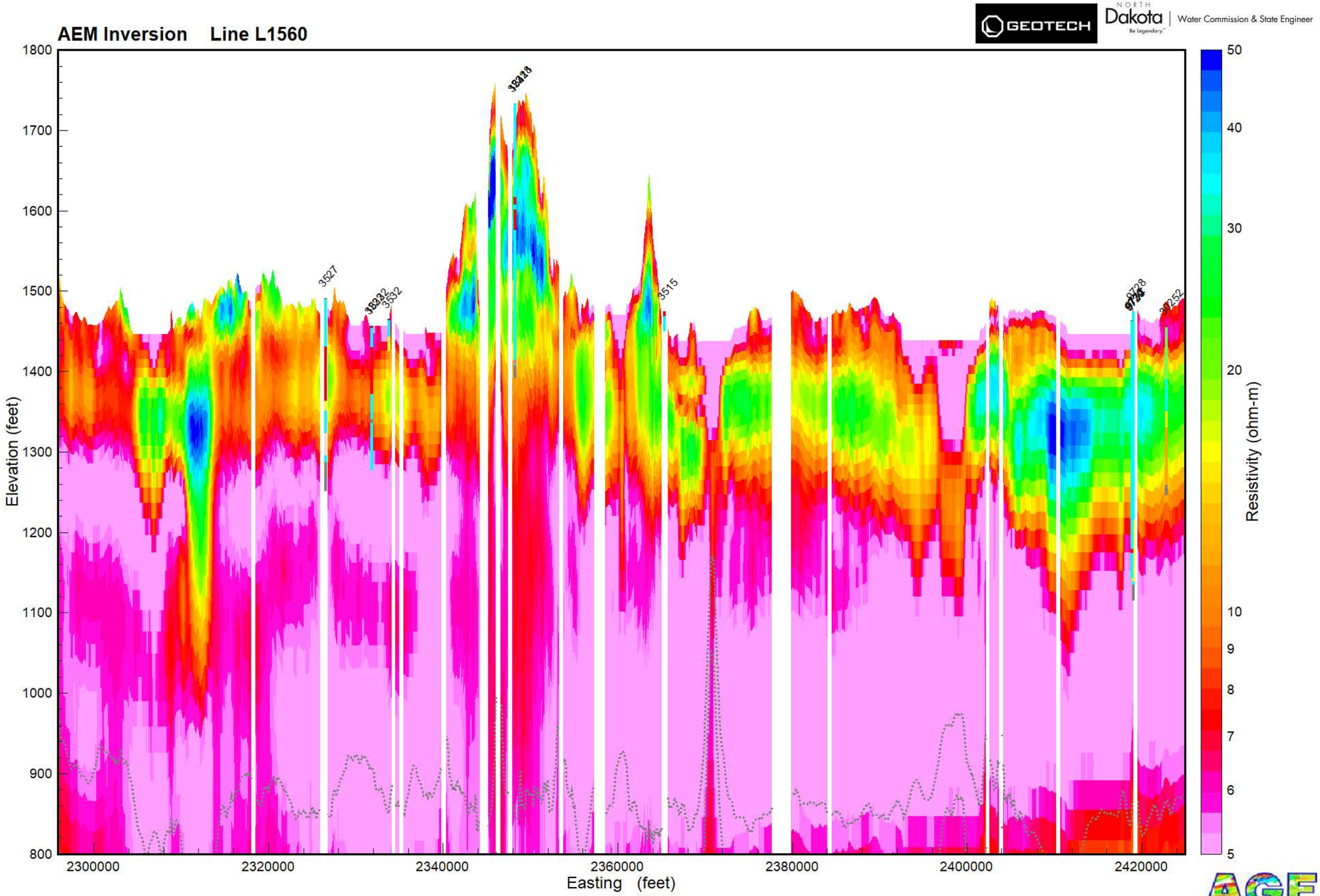
GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer

AEM Inversion Line L1550



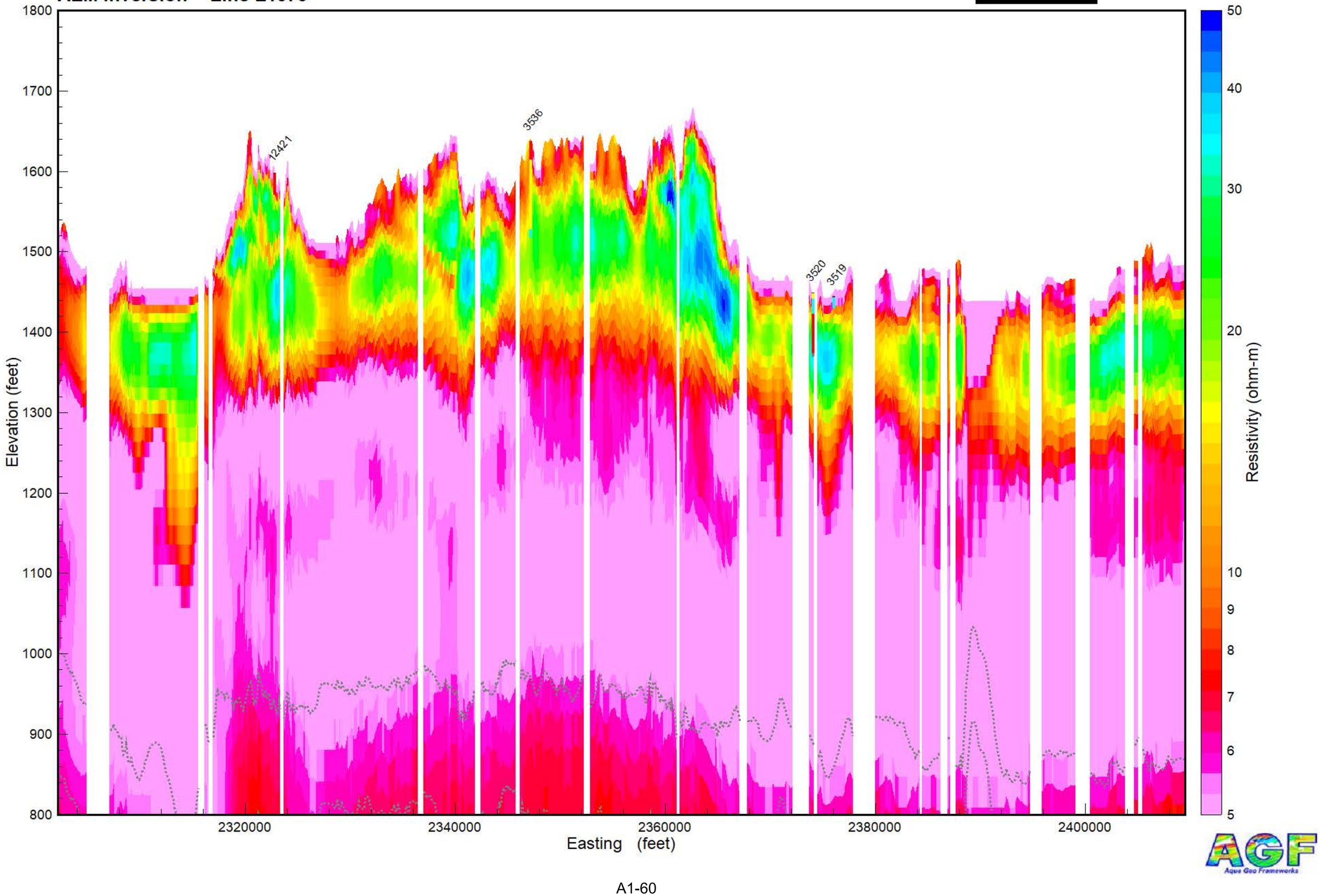
AGF Aqua Geo Frameworks


AEM Inversion Line L1560
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
3527
3532
3515
2300000
2320000
2340000
2360000
2380000
2400000
2420000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

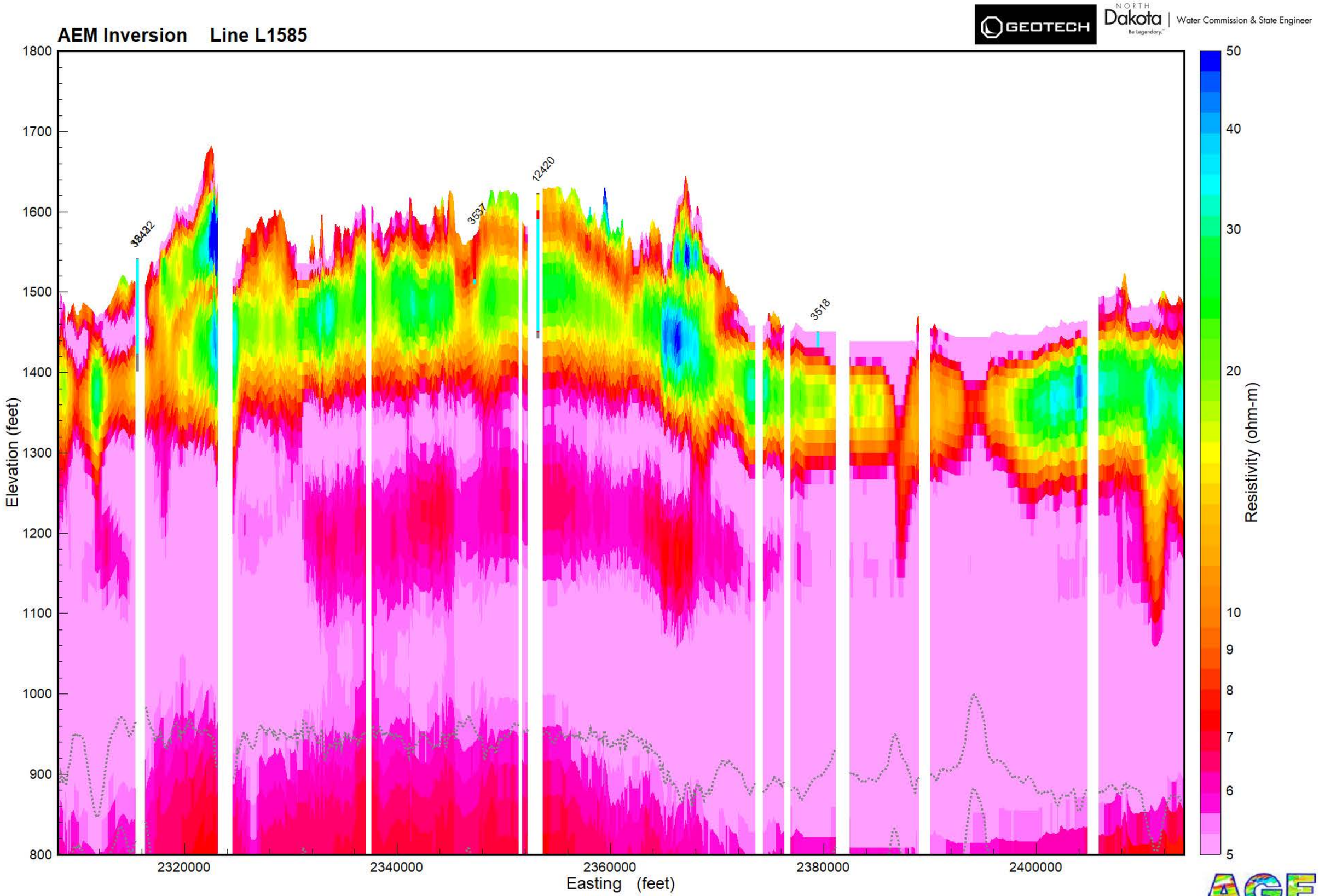
GEOTECH

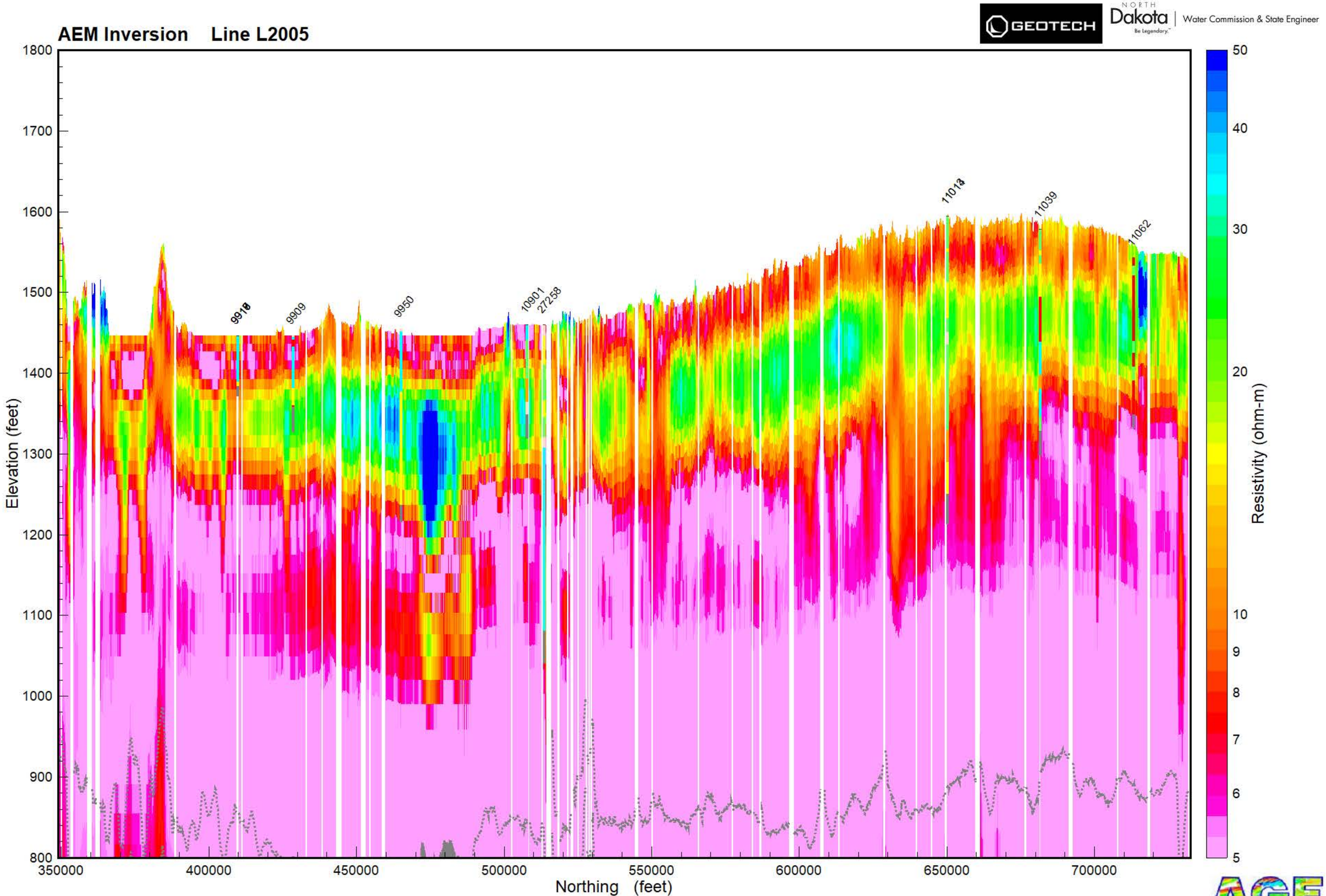
NORTH Dakota Be Legendary. | Water Commission & State Engineer

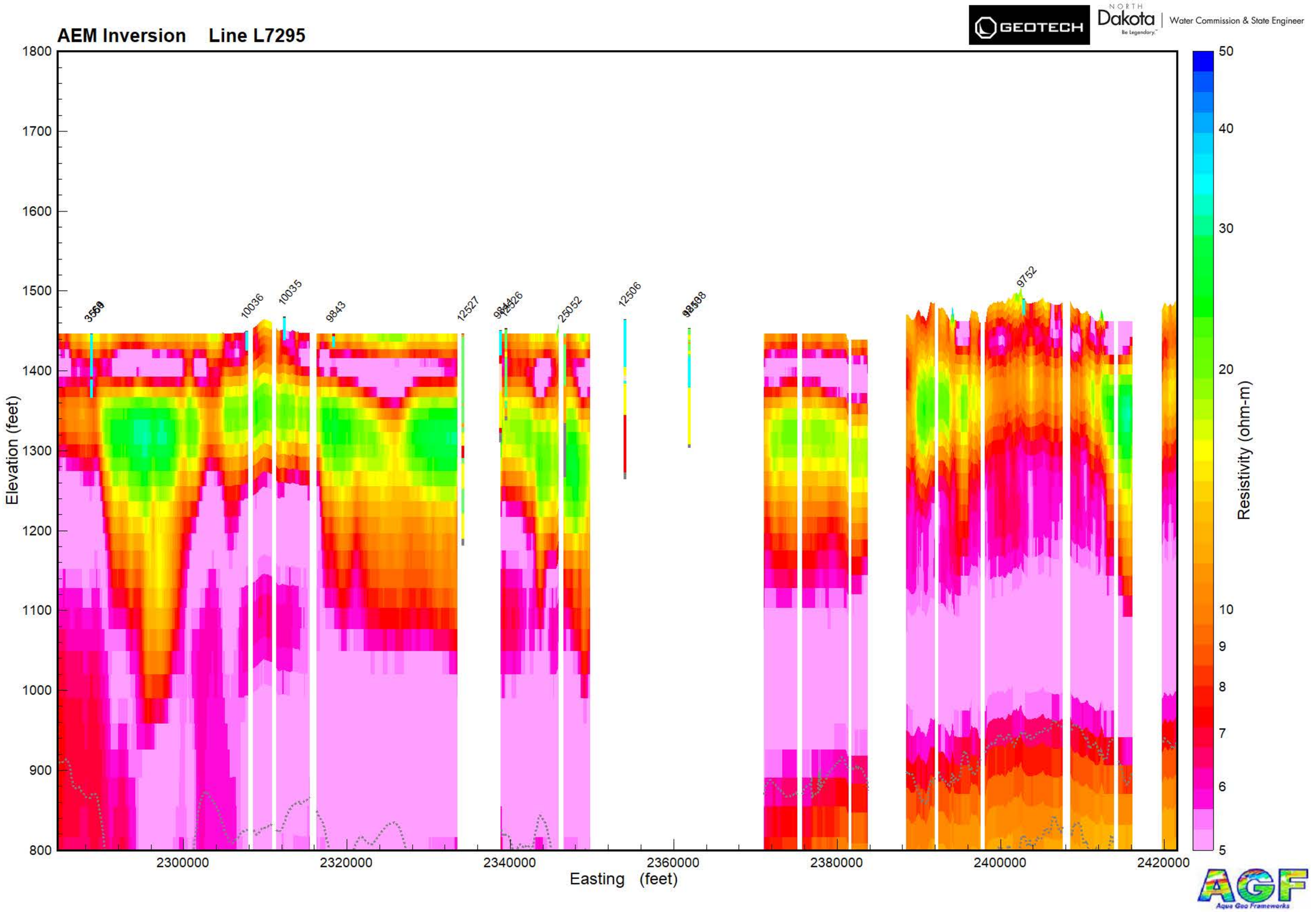
AEM Inversion Line L1575

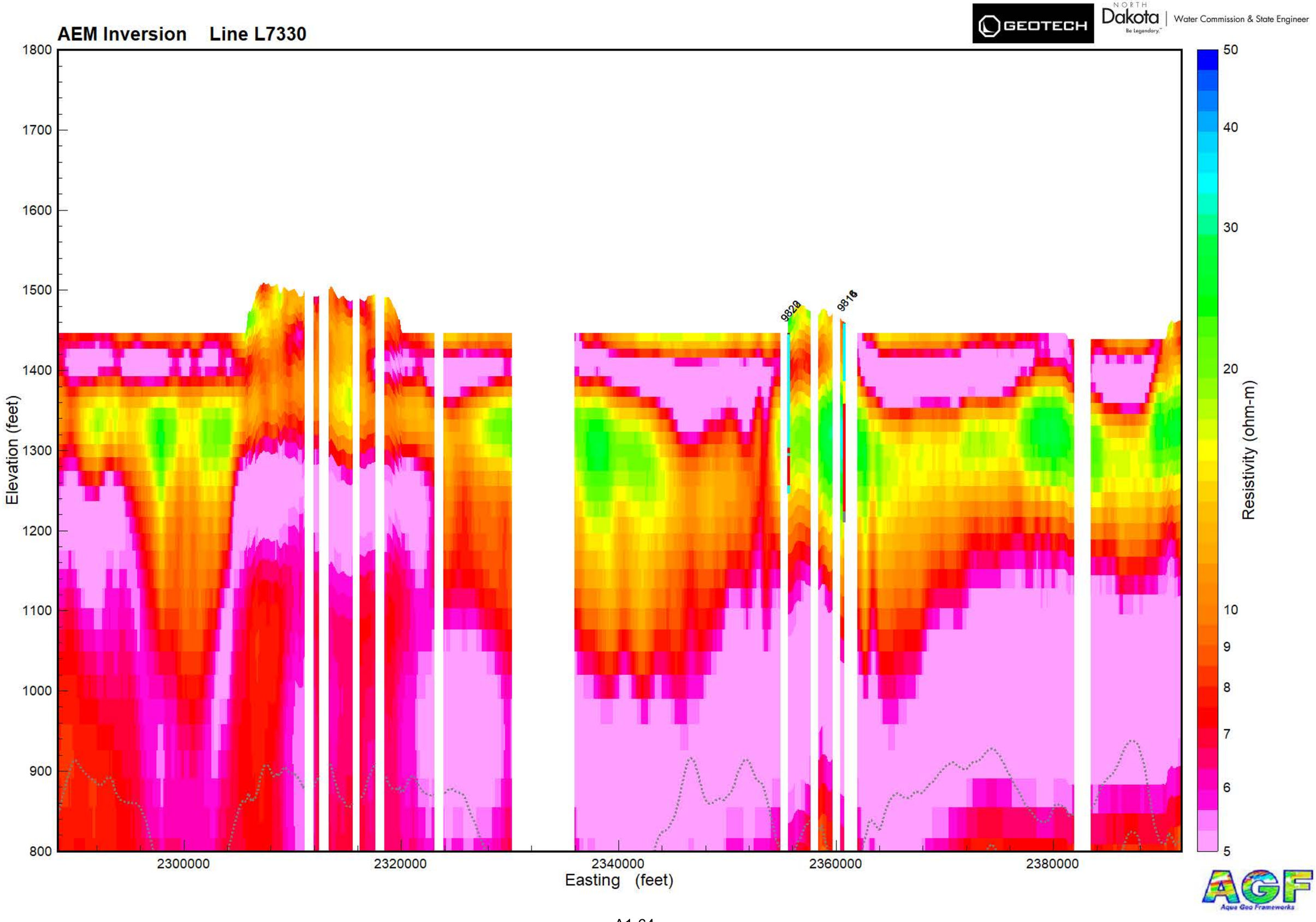


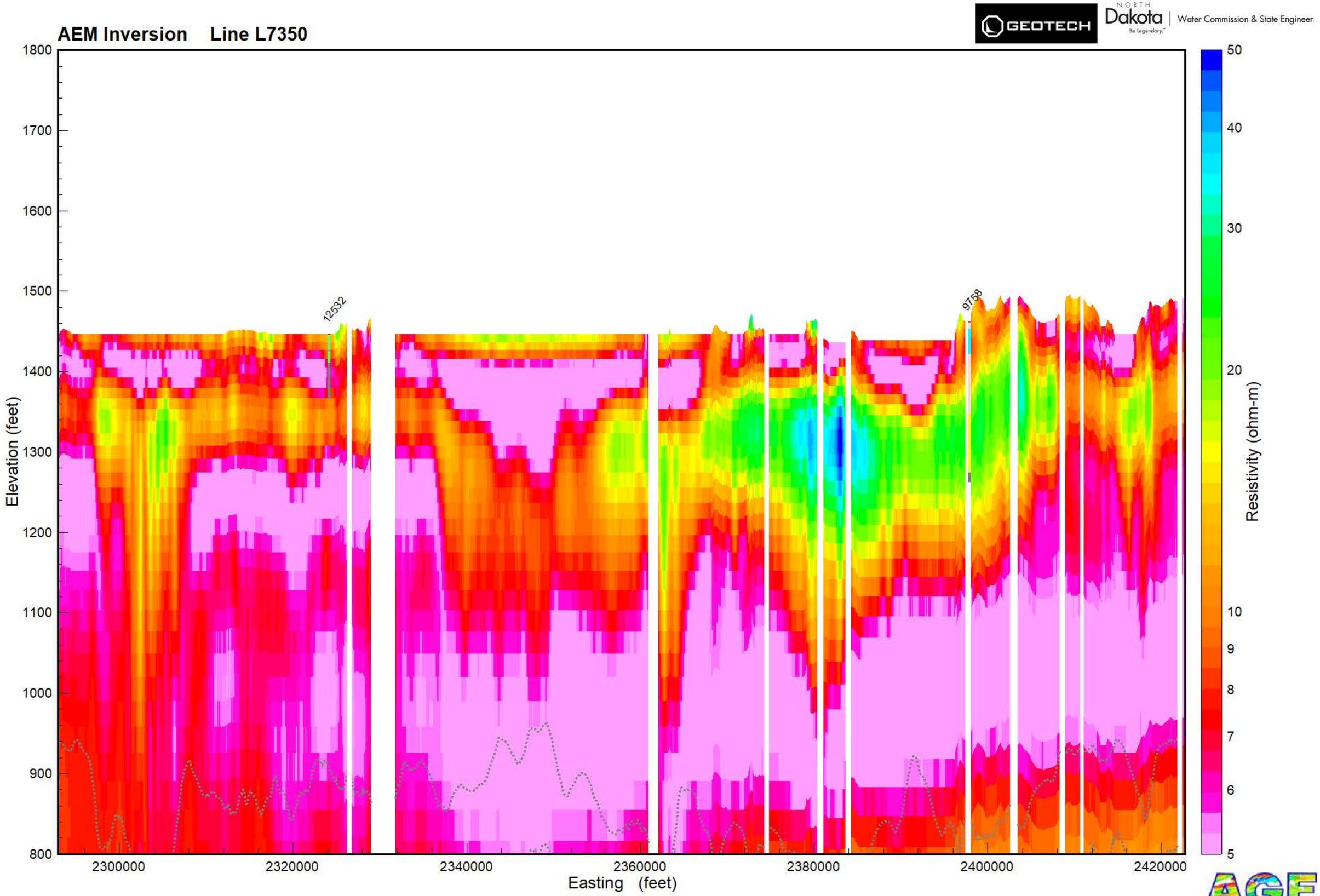
AGF Aqua Geo Frameworks

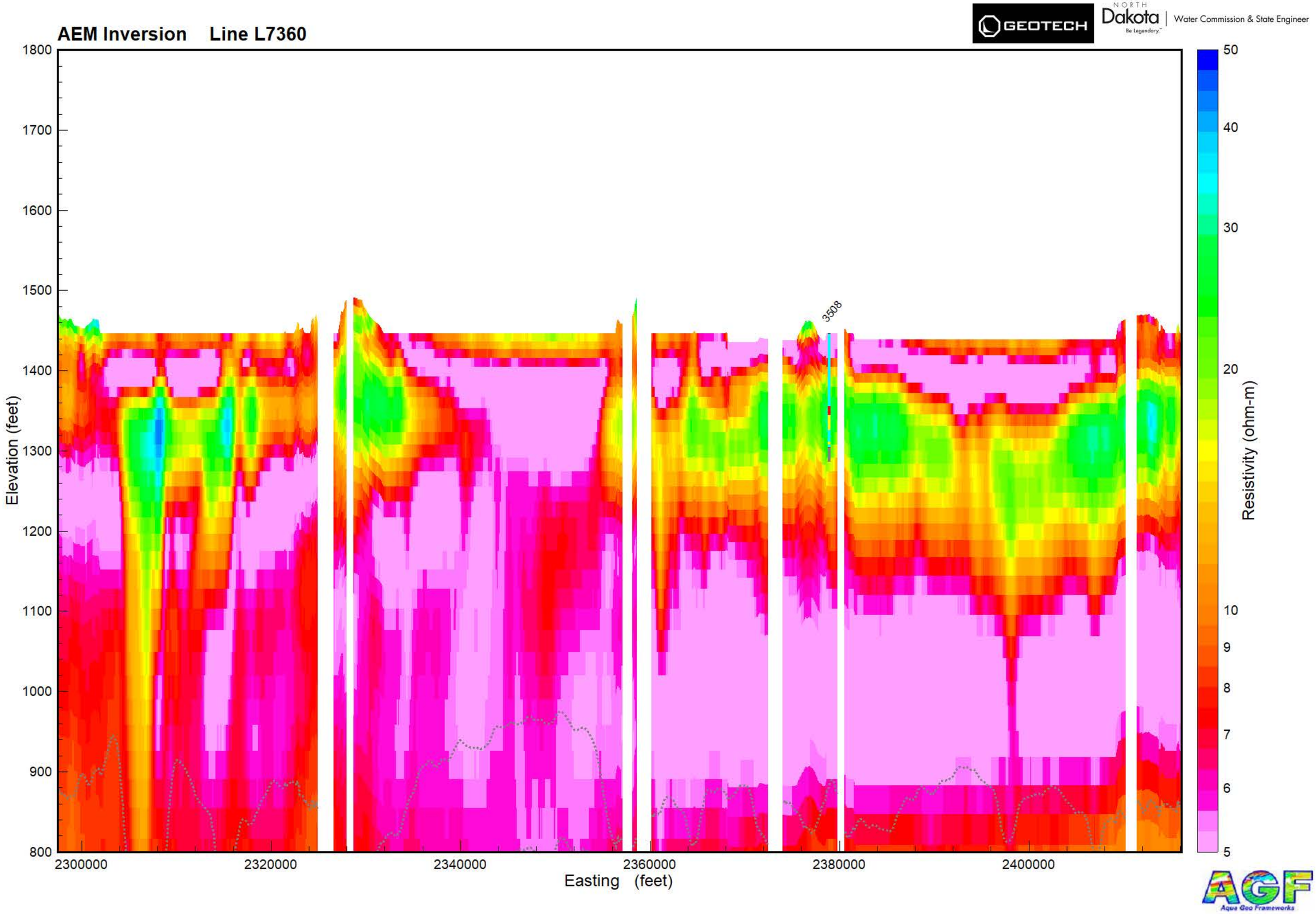

AEM Inversion Line L1585
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
Elevation (feet)
12432
3537
12420
3518
2320000
2340000
2360000
2380000
2400000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks


AEM Inversion Line L2005
GEOTECH
NORTH Dakota Water Commission & State Engineer
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
9918
9909
9950
10901
27258
11013
11039
11062
350000
400000
450000
500000
550000
600000
650000
700000
Northing (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L7295
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
Elevation (feet)
3569
10036
10035
9843
12527
9844
9826
25052
12506
9752
2300000
2320000
2340000
2360000
2380000
2400000
2420000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks

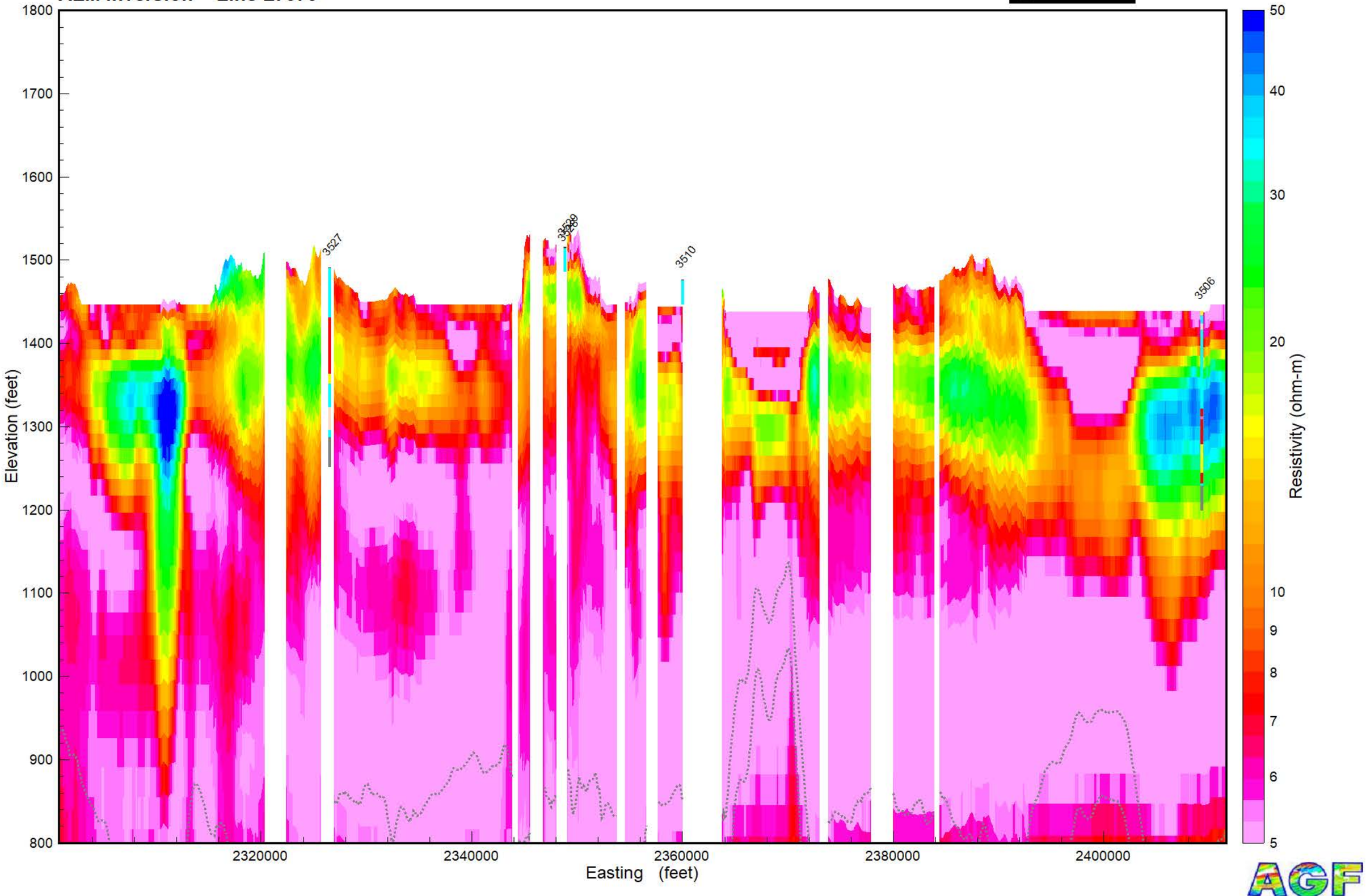

AEM Inversion Line L7330
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
9820
9816
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2300000
2320000
2340000
2360000
2380000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L7350
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
12532
9758
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2300000
2320000
2340000
2360000
2380000
2400000
2420000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks


AEM Inversion Line L7360
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
3508
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2300000
2320000
2340000
2360000
2380000
2400000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

GEOTECH

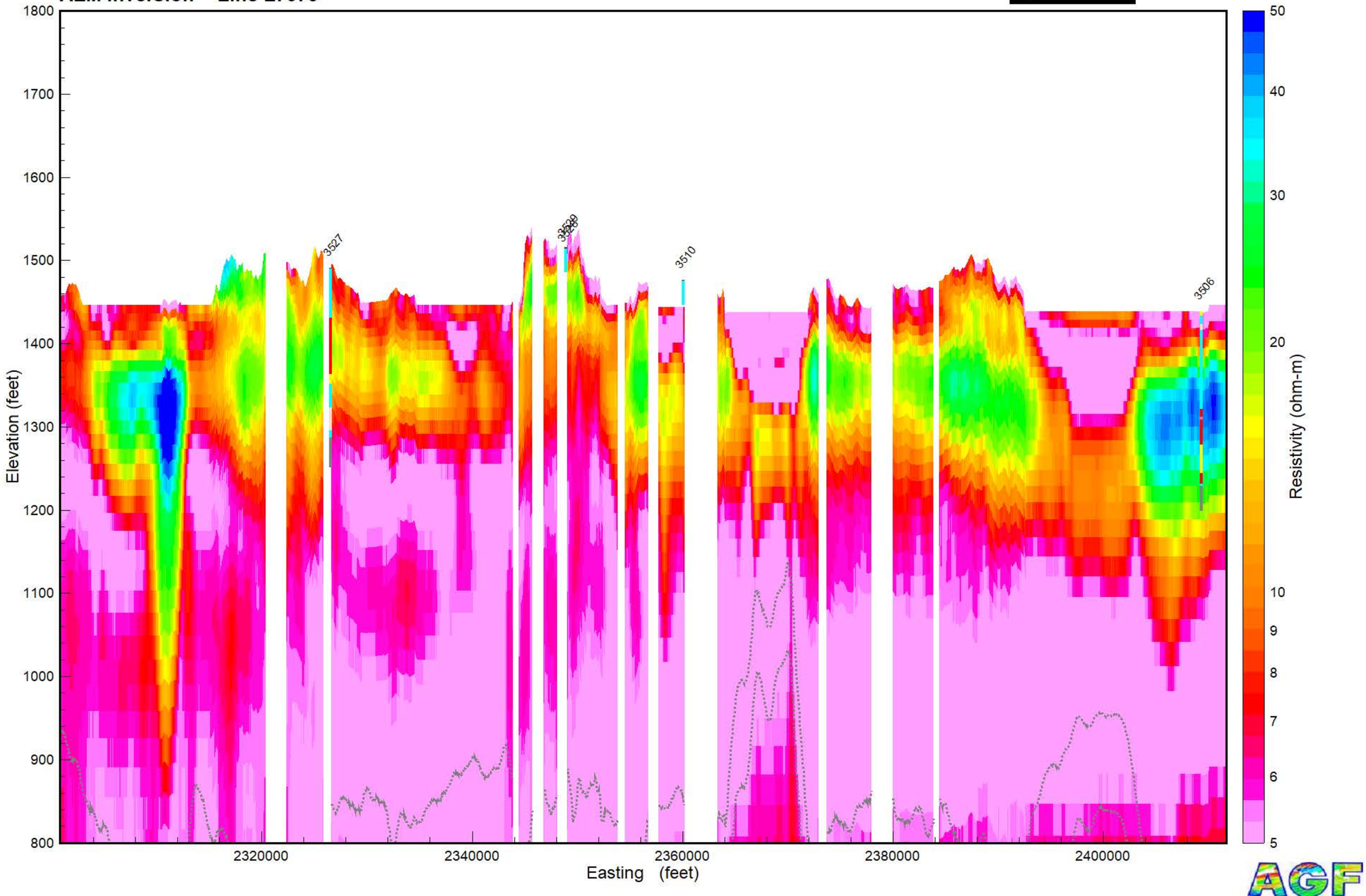
NORTH Dakota Be Legendary. | Water Commission & State Engineer



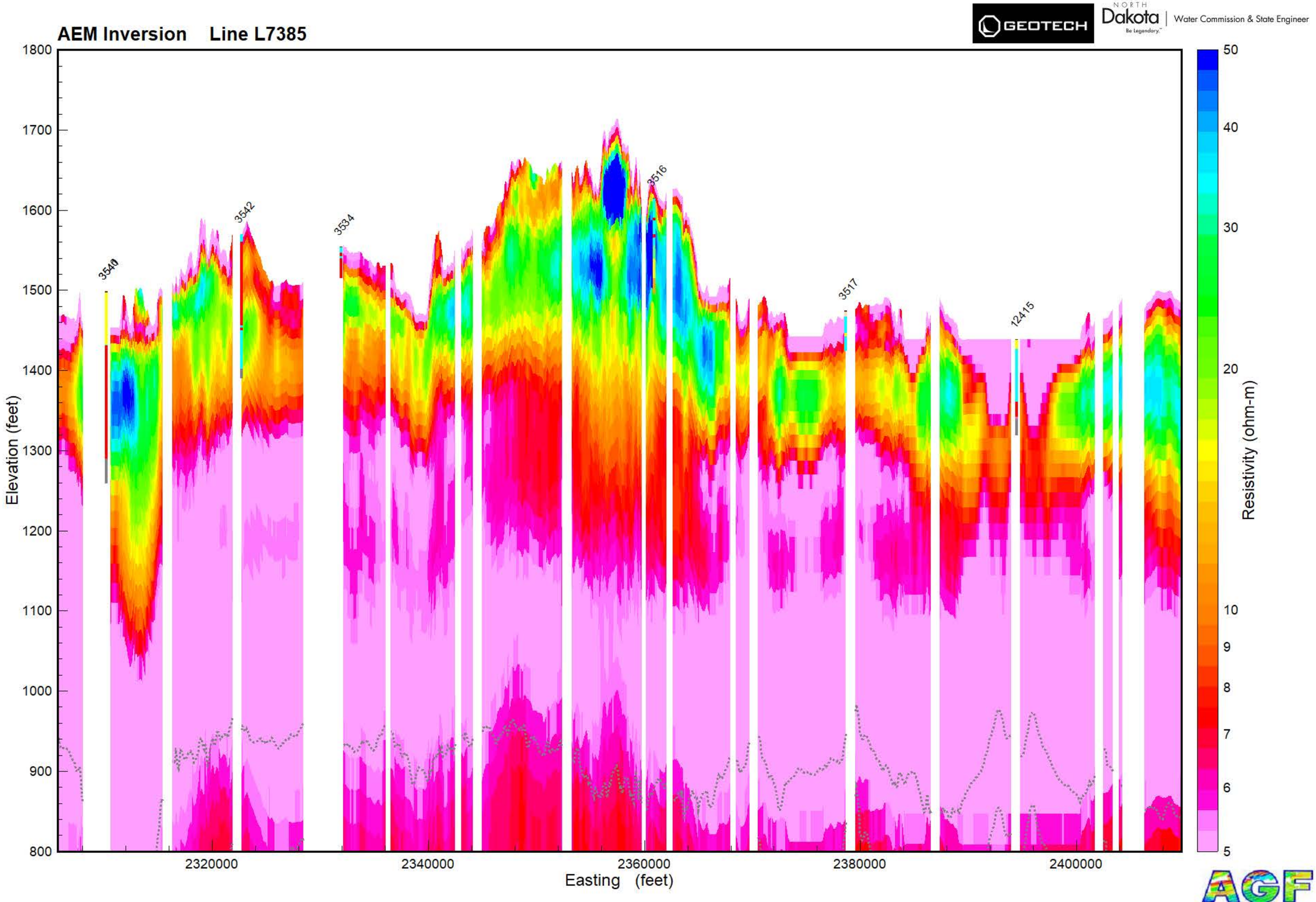
AGF Aqua Geo Frameworks

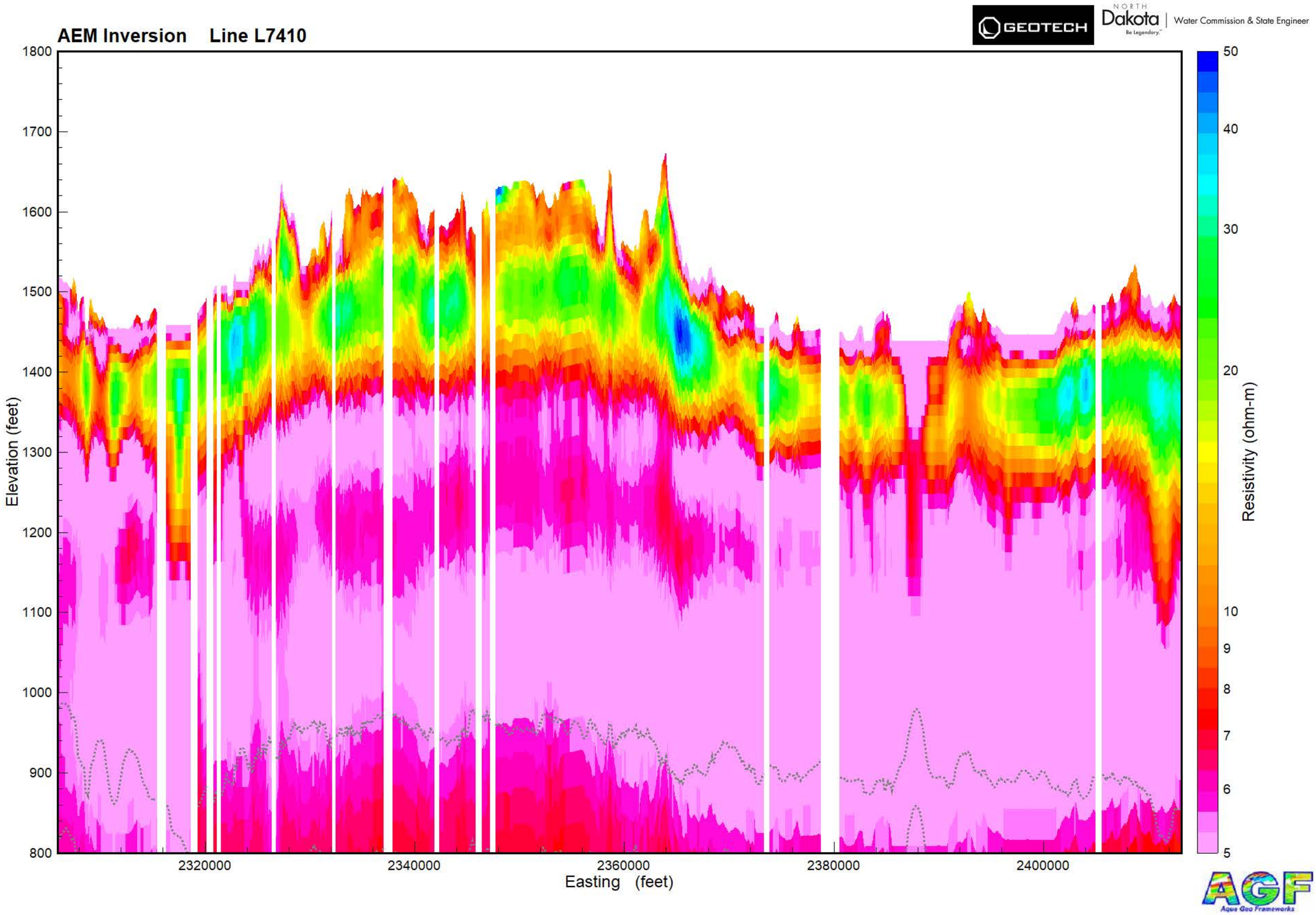
GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



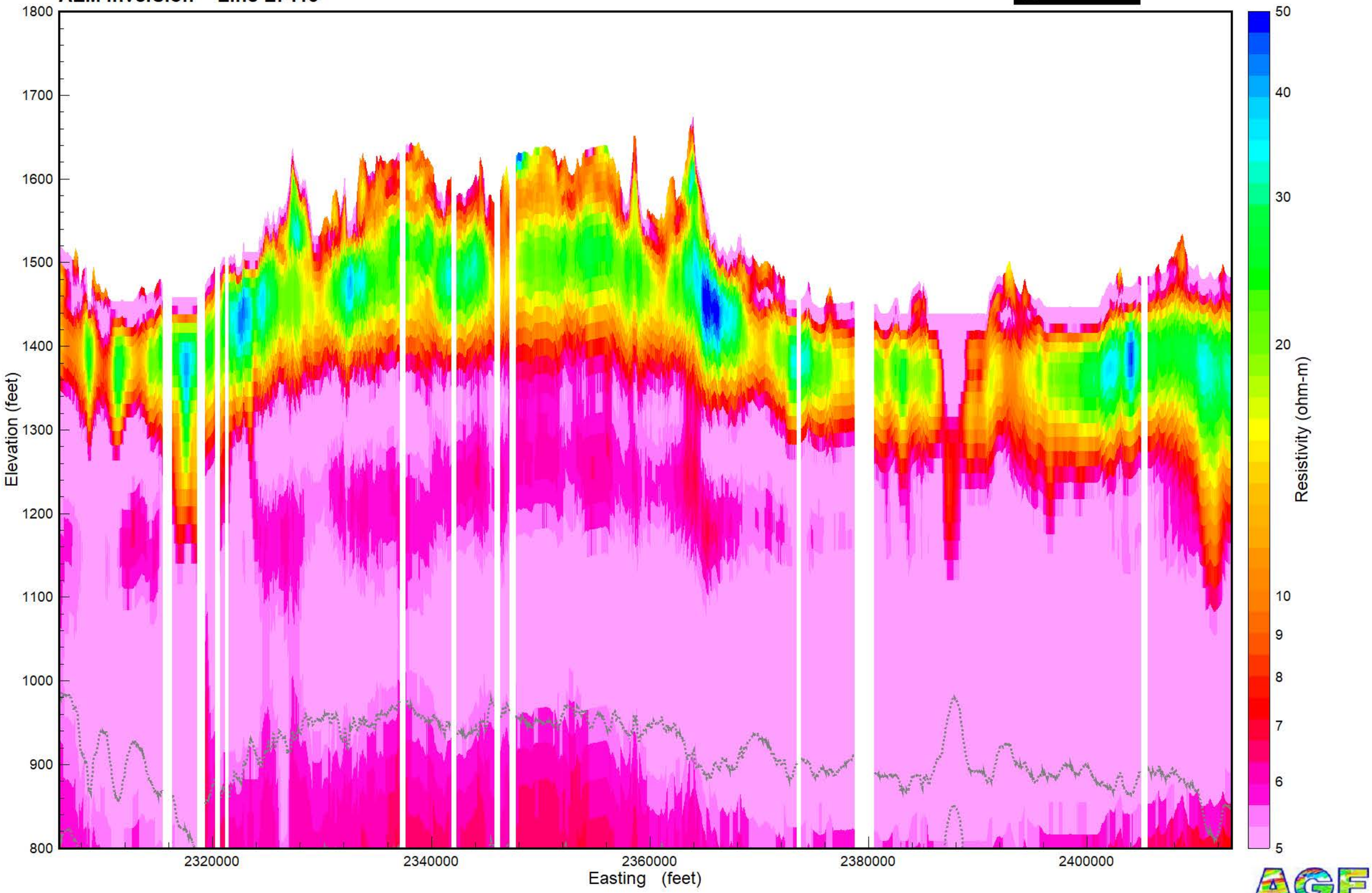
AGF Aqua Geo Frameworks


AEM Inversion Line L7385
GEOTECH
NORTH Dakota Water Commission & State Engineer
Be Legendary.
3540
3542
3534
3516
3517
12415
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2320000
2340000
2360000
2380000
2400000
Easting (feet)
50
40
30
20
10
9
8
7
6
5
Resistivity (ohm-m)
AGF
Aqua Geo Frameworks


AEM Inversion Line L7410
GEOTECH
NORTH Dakota Water Commission & State Engineer
Elevation (feet)
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
2320000
2340000
2360000
2380000
2400000
Easting (feet)
Resistivity (ohm-m)
50
40
30
20
10
9
8
7
6
5
AGF
Aqua Geo Frameworks

GEOTECH

NORTH Dakota Be Legendary. | Water Commission & State Engineer



AGF Aqua Geo Frameworks