

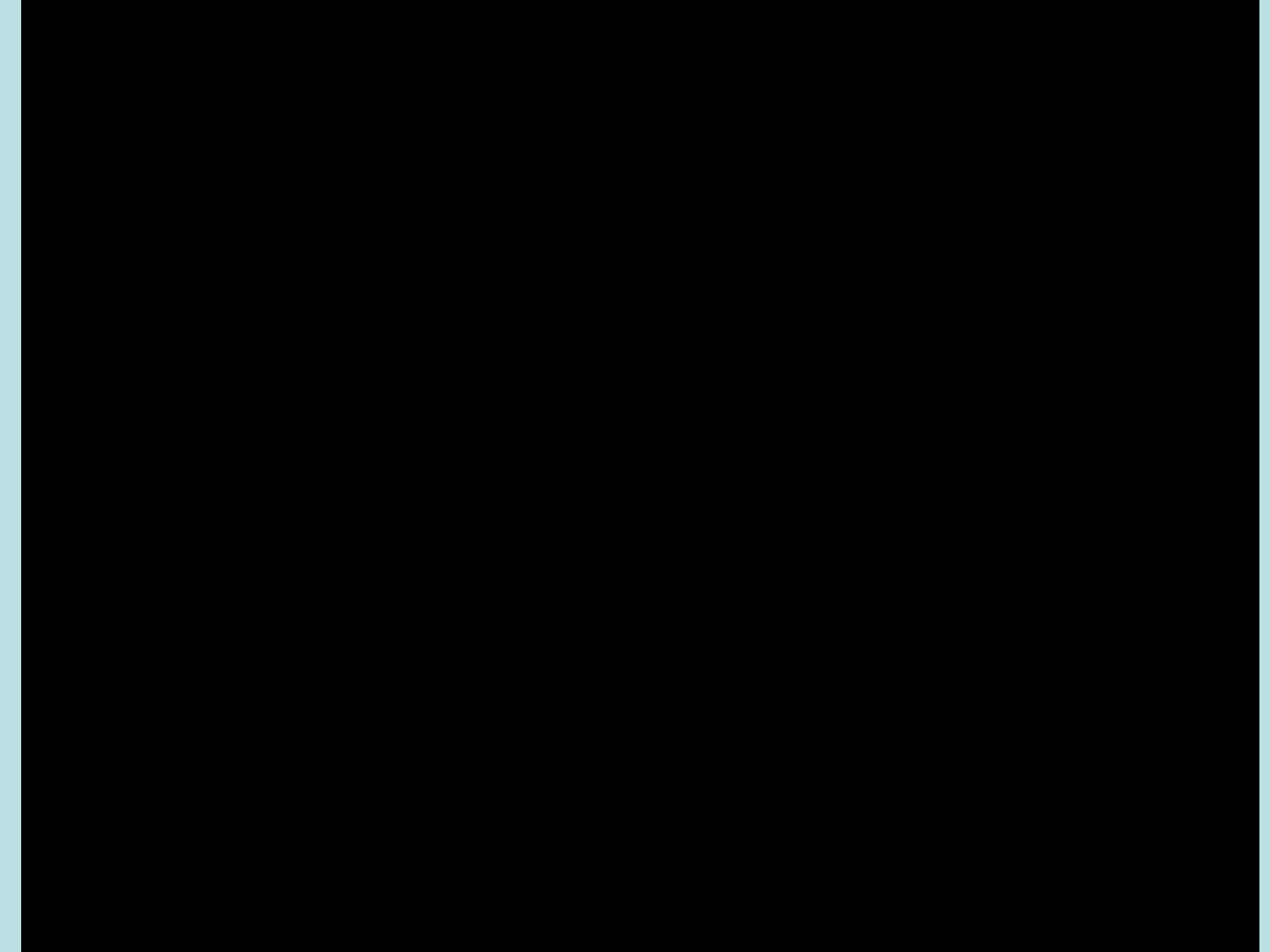
INTRODUCTION TO GEOTHERMAL CONFERENCE

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BRONZE C







2006

THE EGS SYSTEM

**Introduction of water into
rock of limited
permeability (either tight
sediment or basement) in
a controlled fracture
setting so that this water
can be withdrawn in other
wells for heat extraction,
*i.e. heat mining***

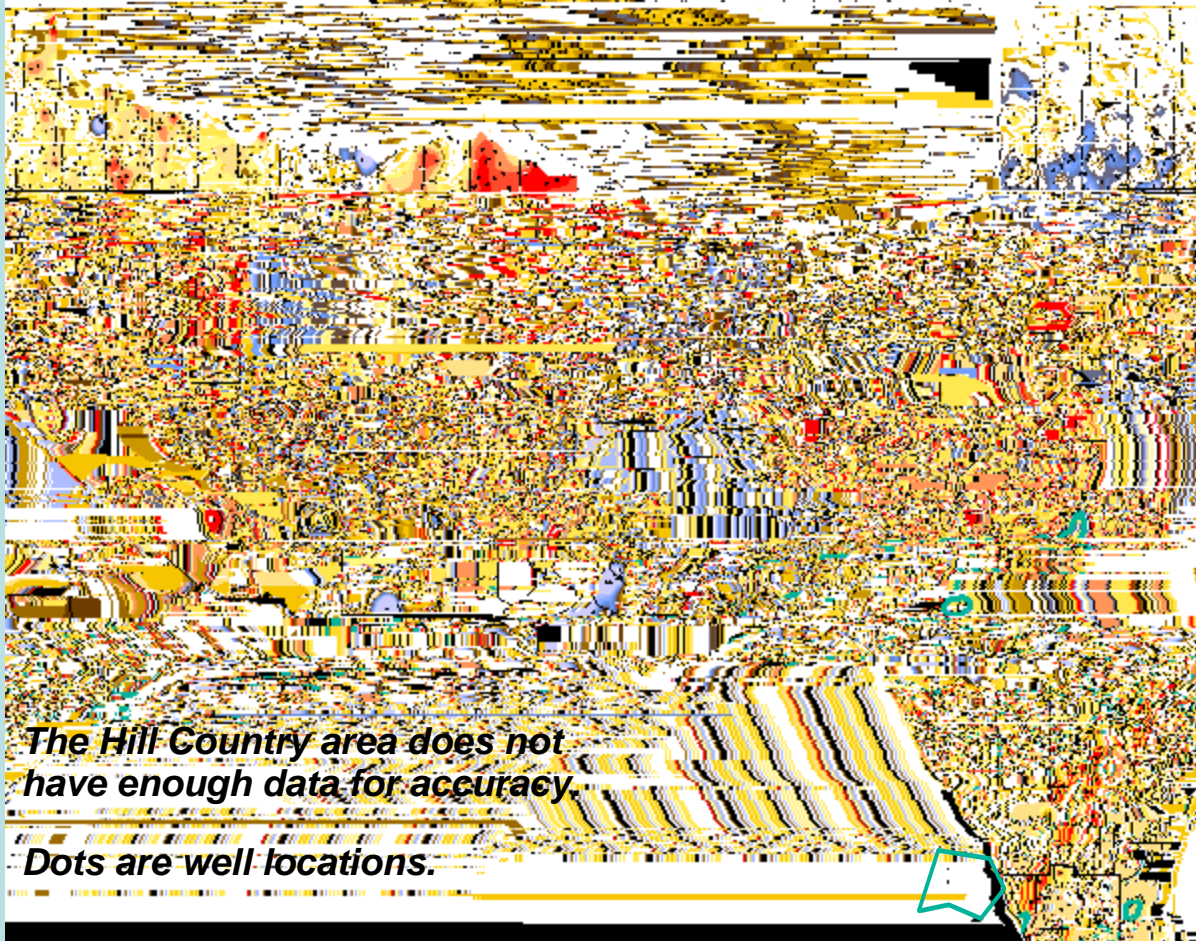
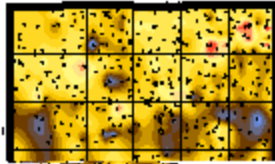
[Google.org/egs](https://www.google.org/egs)

The image features a background of a sunset over a field with a body of water. The sky is a mix of orange, yellow, and green, while the water is a mix of blue, purple, and pink. The foreground is a mix of green and brown. A dense, colorful digital glitch pattern is overlaid on the entire image, consisting of various colors like red, yellow, green, blue, and purple, creating a complex, pixelated texture.

Types of Unconventional Geothermal Resources

- **Basement EGS**
- **Hydrothermal Margin EGS**
- **Sedimentary EGS-Tight gas sands-gas shales**
- **Geopressure-Gulf Coast/East Texas**
- **Coproduced-Low Temperature**

AAPG 1972 Oil/Gas Well Database Interpolated Depth to 250°F



The Hill Country area does not have enough data for accuracy.

Dots are well locations.

Location of Texas Geothermal Resources

Geopressure Fairways



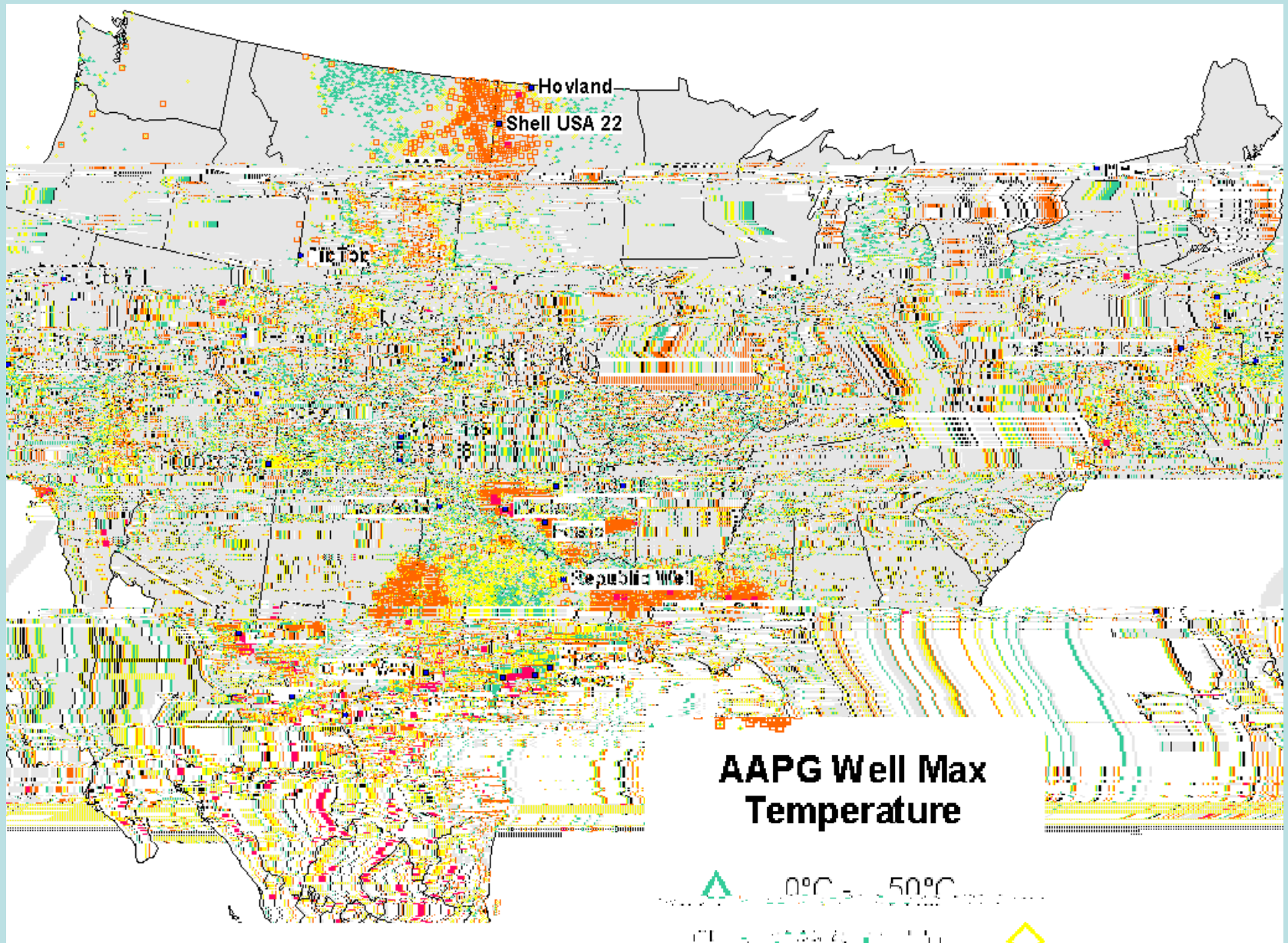
DOE Funding Announced October 28, 2009

2) Geoproduced Geoproduced and Low Temperature Binjects

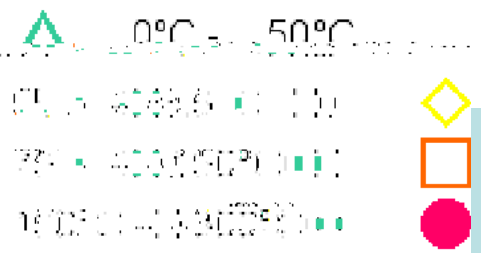
<p>er LLC will utilize a modular low nit to produce power from oil and</p>	<p>Universal GeoPower LLC</p>	<p>\$1,499,288</p>	<p>Liberty County</p>	<p>TX</p>	<p>Universal GeoPower temperature binary ur</p>
<p>williston</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>
<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>
<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>	<p>University of</p>

- **Barton Chapel:**
 - \$72,573,627
- **Bull Creek:**
 - \$91,390,497
- **Pyron Farm:**
 - \$121,903,906
- **Penascal:**
 - \$114,071,646

Total: ~\$400,000,000



AAPG Well Max Temperature





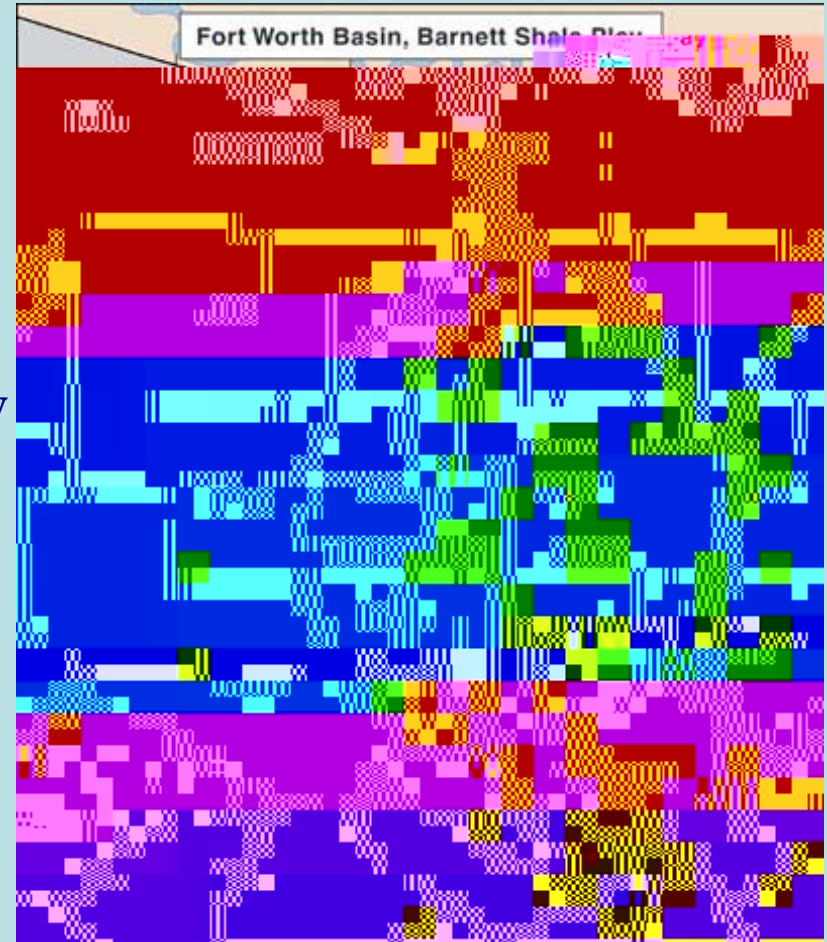
For SMU and the Dallas Area



- Base-load clean energy
- Unique geologic information
- Potential research facility
- Commitment to sustainability
- Bragging rights



- North Texas skill set
- Turns liabilities into assets



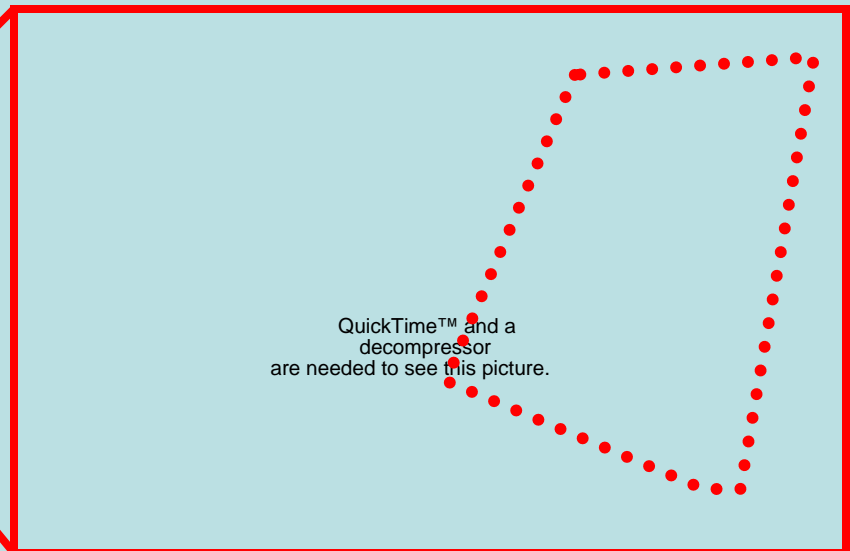


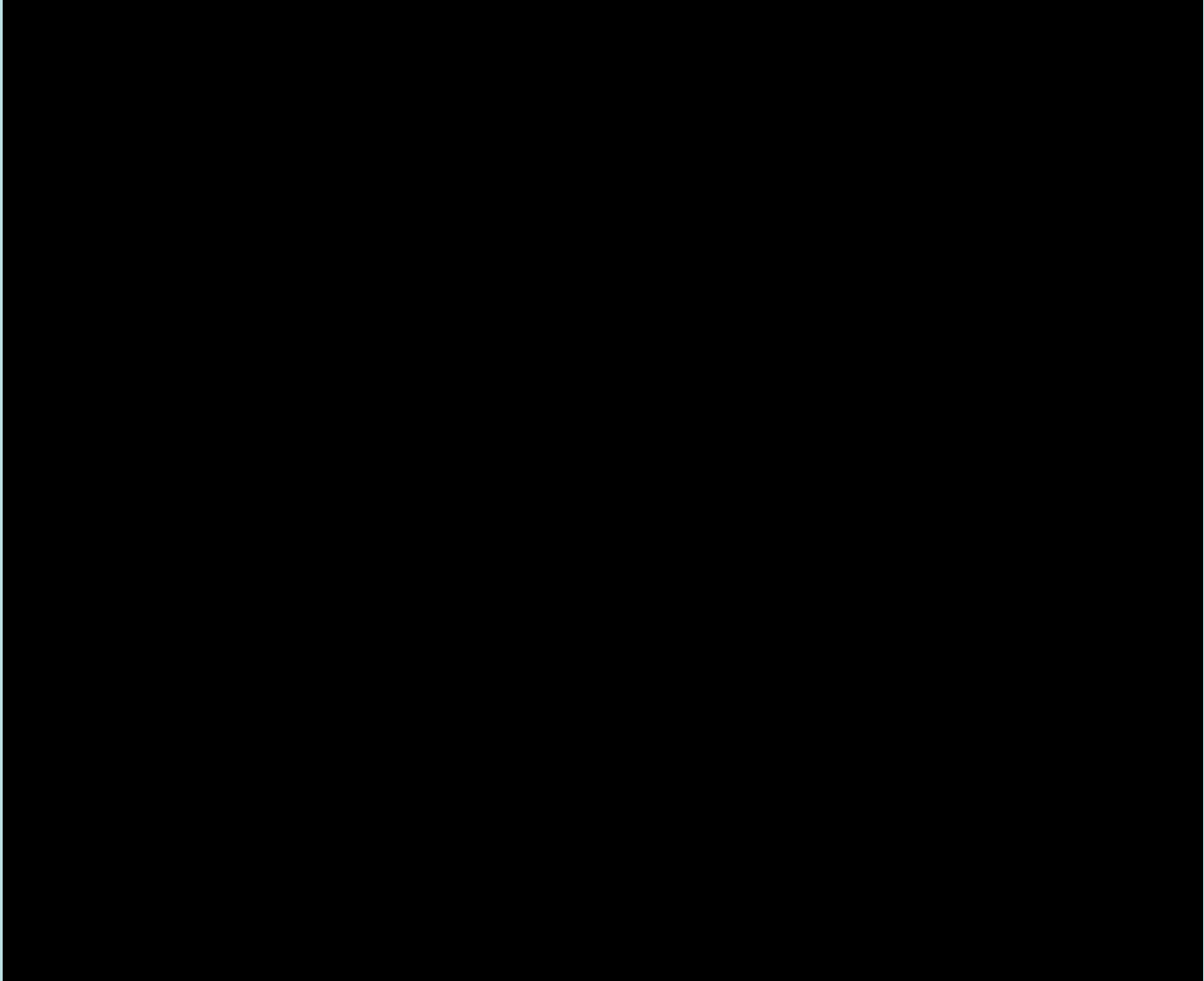
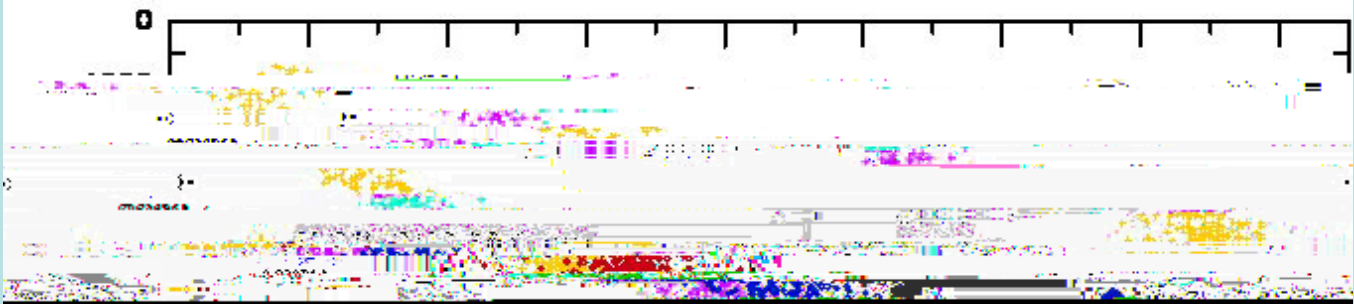
The next step...

Permission of pursuit → US Department of Energy Development Grant

→ Test well → Plant Development →

**SMU Geothermal Plant
&
Energy Research Center**







The Beginning