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Developing a Geothermal Project using Abandoned Wells in Texas

**Universal GeoPower, LLC
Houston, TX**

SMU Geothermal Laboratory Conference

**Geothermal Energy Utilization Associated with Oil
and Gas Development
November 3 - 4, 2009
Dallas, Texas**



- Universal GeoPower was Awarded a Grant from the DOE , Geothermal Technologies Program under the American Recovery and Reinvestment Act on Thursday October 29, 2009
- Award Amount:\$1,499,288 DOE – \$2M UGP
- Generate Electricity using Geothermal Energy
- Abandoned Oil & Gas Wells

Liberty County Project

- < 1 MW Potential – 38,000 Wells – Typical Well
- Railroad Commission, RRC “Orphaned Wells”
- Proximity to Transmission Grid
- Geothermal Lease – Oil, Gas Mineral Lease
- Re-complete & Fracture Stimulate Abandoned Zones
- Re-inject Heat Depleted Brine
- Modular ORC Generators from Pratt & Whitney
- Convert P&A Liability into Revenue Generating Asset

Liberty County Project Team

- **Universal GeoPower**
Project Development – Project Management – Project Finance
- **Pratt & Whitney Power Systems**
ORC Power Generation Technology
- **POWER Engineers**
Balance of Plant Engineering & Construction
- **HTK Consultants**
Recompletion & Re-Injection Wells
- **SMU Geothermal Laboratory**
Data Collection & Analysis



WHY IT MAKES SENSE NOW

- Near Zero Emissions – total closed loop system
- Base Load Electricity – 95% reliable capacity factor
- Modular Design – Proven “ Off the Shelf ” Technology
- Create New Jobs
- Demand For Renewable Electricity
- Process can be Repeated and Scaled.

OIL & GAS APPROACH

- Knowledge of Oil & Gas Industry
- Geothermal Lease – Exclusive Right
- Stratigraphy – Reservoir – Petrophysical
- Production Engineering Data

WHAT IS THE UPSIDE

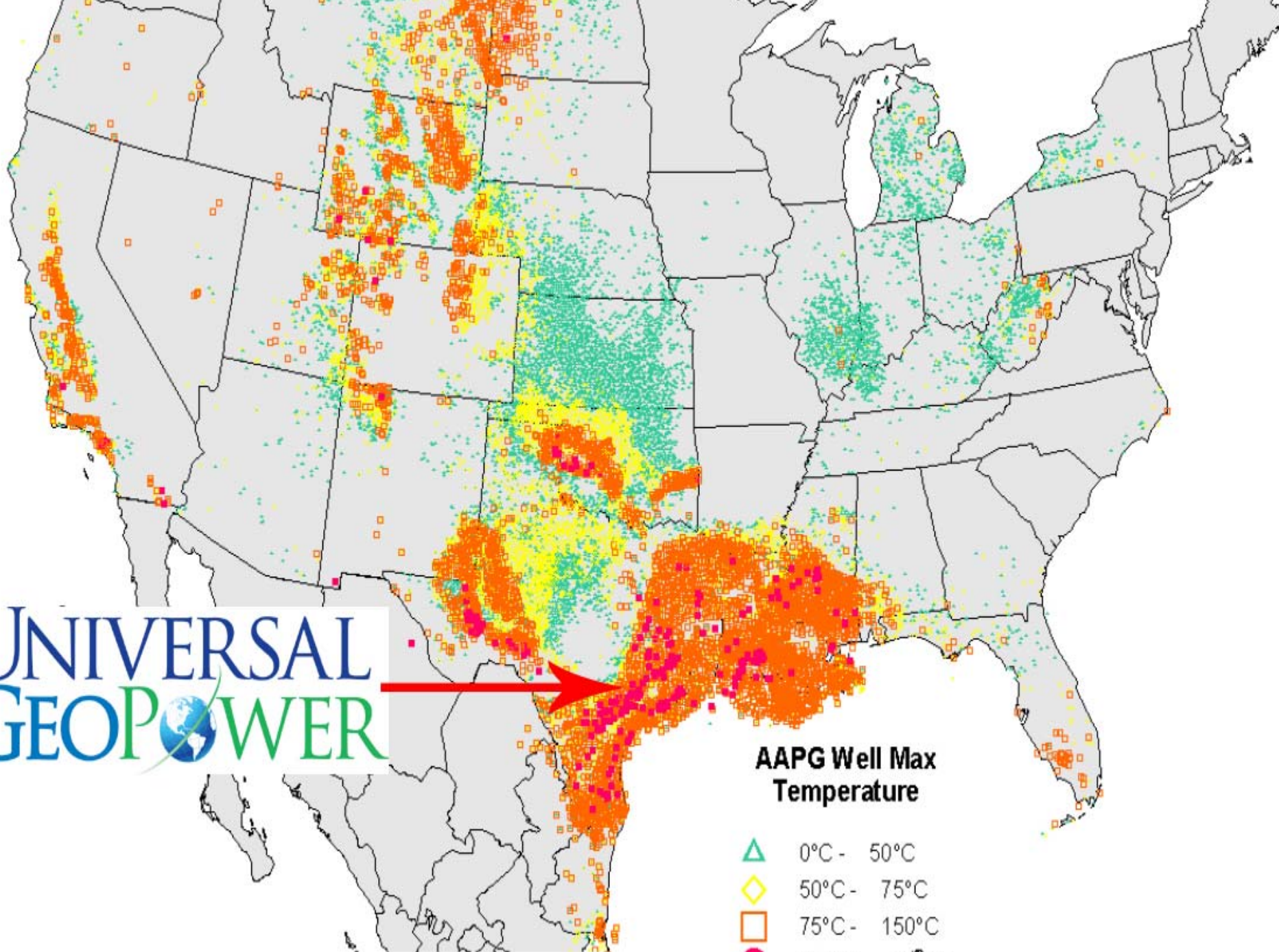
- Enormous Pipeline of Project Oil & Gas Wells
- 5000 MW of Electricity just from Existing Geopressured Oil & Gas Wells on the United States Gulf Coast as described by SMU Geothermal Lab
- Long Life – Sustainable – Resource

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**AAPG Well Max
Temperature**

- △ 0°C - 50°C
- ◇ 50°C - 75°C
- 75°C - 150°C
- 150°C - 300°C



Contact Us

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