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
- Recomplete & 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
Contact Us

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