

Generating
Renewable Energy
from Co-Produced
Water at Oil & Gas

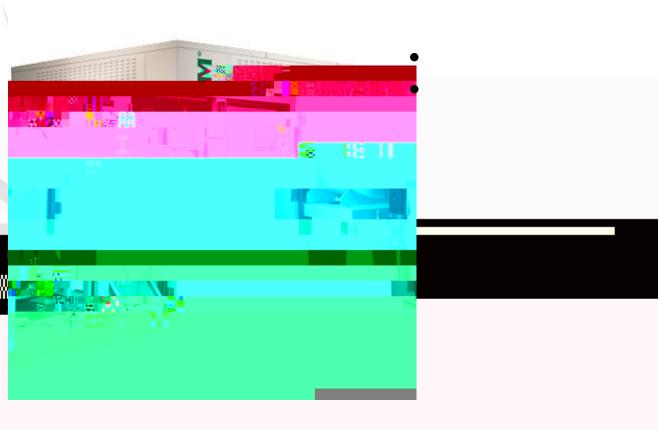
John Fox, CEO, ElectraTherm



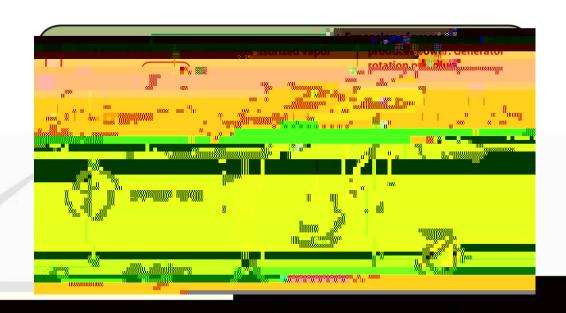




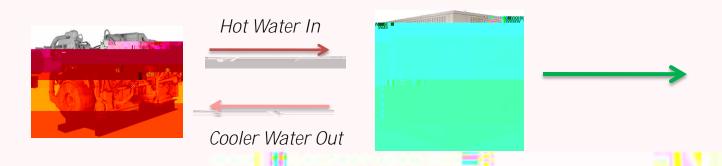








fuel-free, emission free electricity.

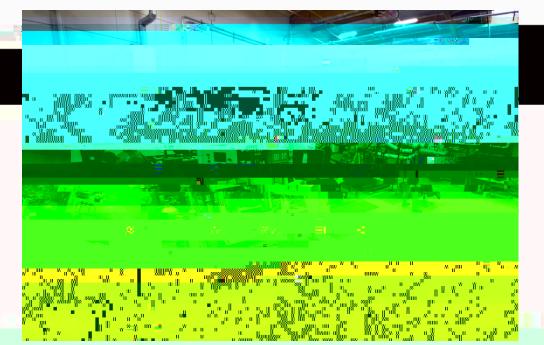


Commercialized Product Ready to Ship



Building on five years of comprehensive product development

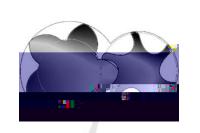
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IP, Advantages and Working Parameters

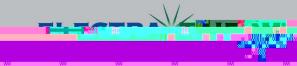


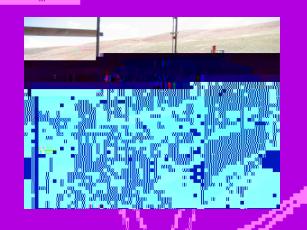
Patented ORCTechnology

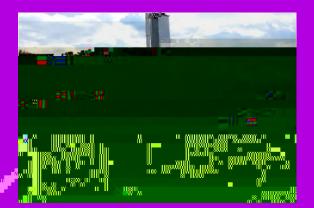




Commissioned Units & Target Markets







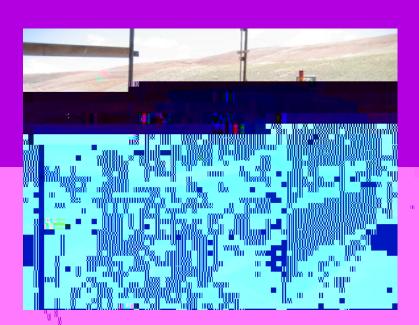












Small-scale power generation from ∞ -produced geothermal fluids



The Opportunity

Co-Produced Water from Existing Wells



823,000 oil & gas wells in the U.S. 3 million GPM of hot water in top 8 states 3GW power at 212 F



The Challenges





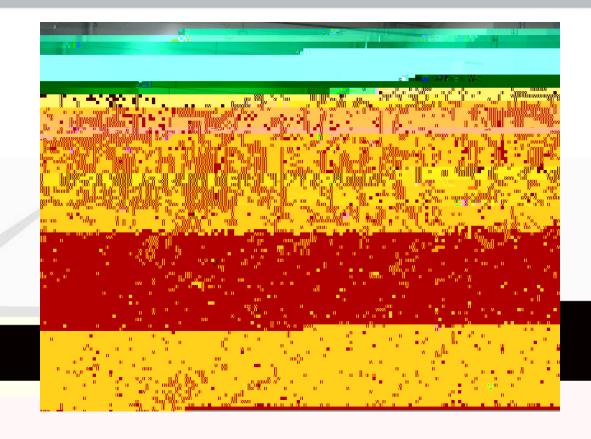
Co-Produced Water A Case Study





Step by Step through the Process







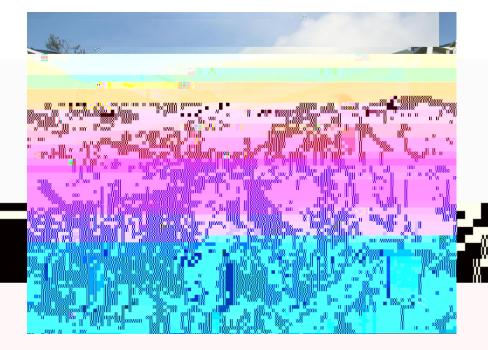




Step by Step through the Process







Tuesday, May 24



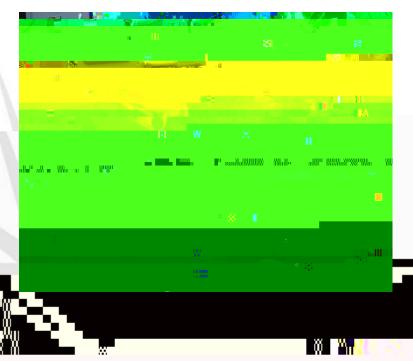


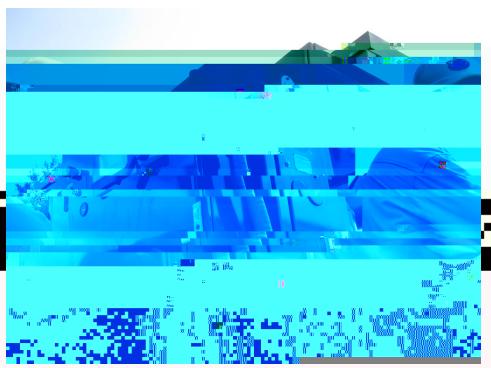




Tuesday, May 24









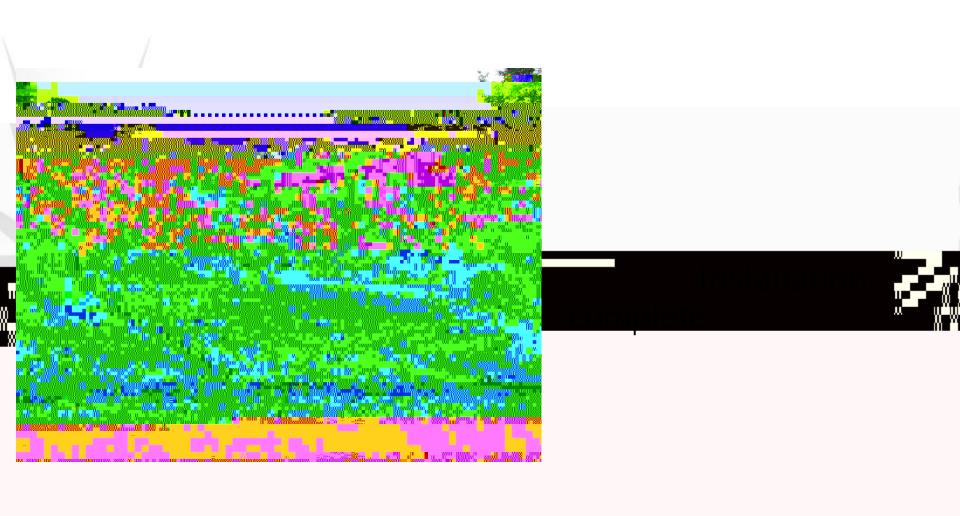






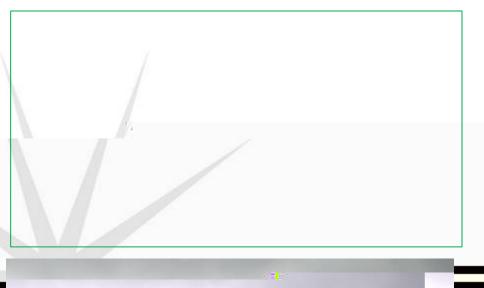






Results







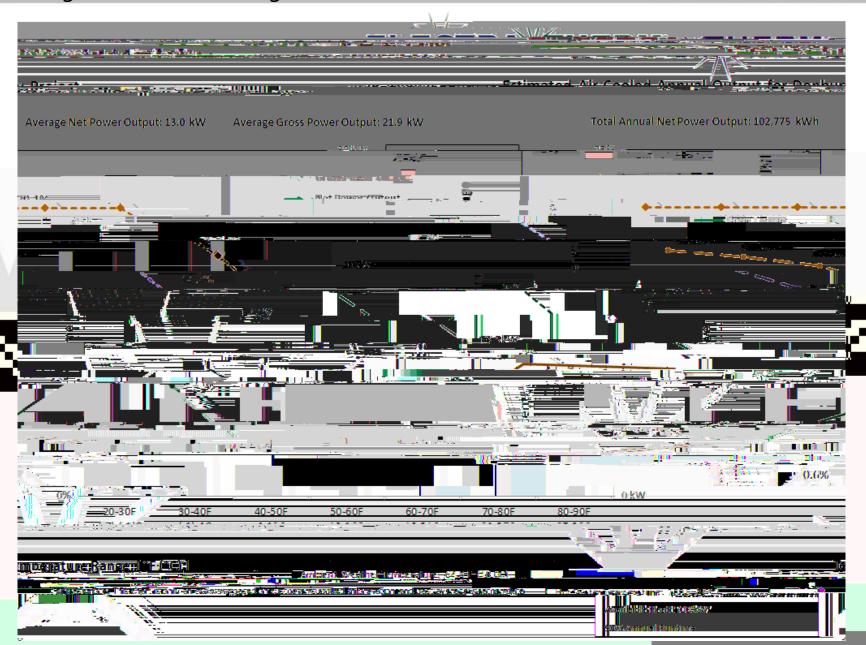


truck bed for a simple plug-and-play upon arrival at the site. The truck arrived at 9 a.m. on Tuesday and the machine was running in

- Dave Mendershausen, Field Engineer, ElectraTherm

Reality of Denbury Site Conditions





Lessons Learned to Date

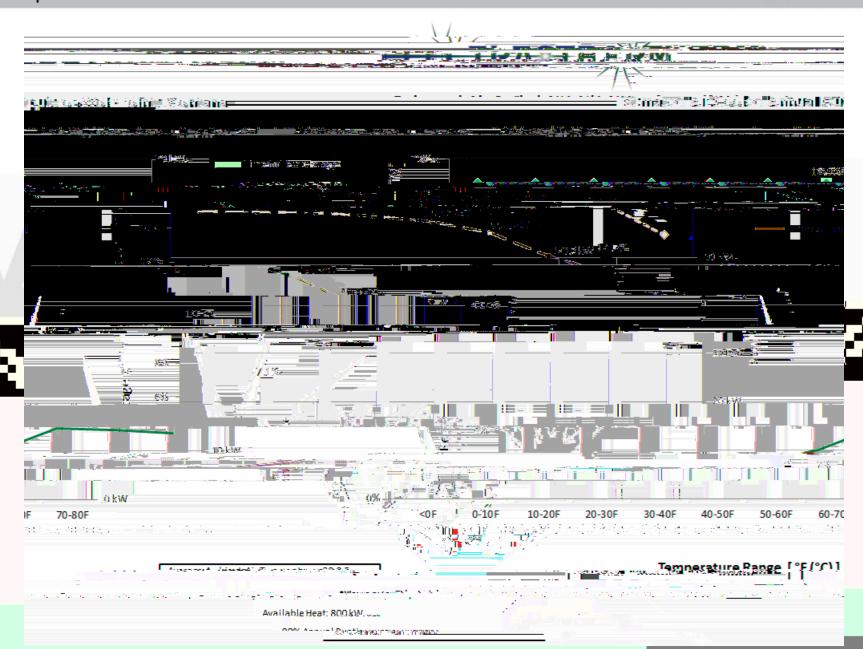


- 200F + high ambients = low delta T = derate
- Condenser is undersized (concurrent testing at ET shows ~40% derate)
- Flow is sub-optimal



Example Site #1



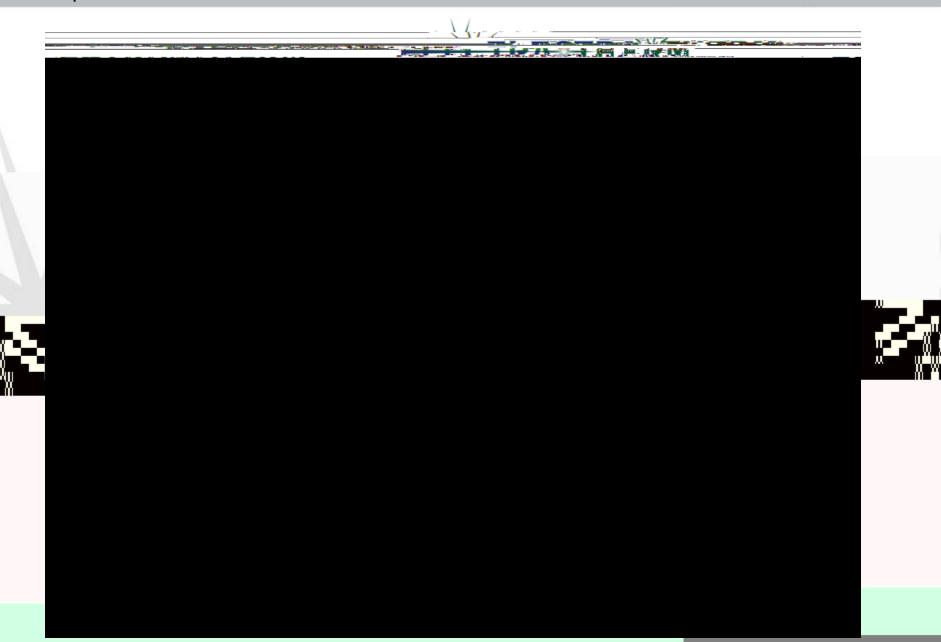


Example Site #2







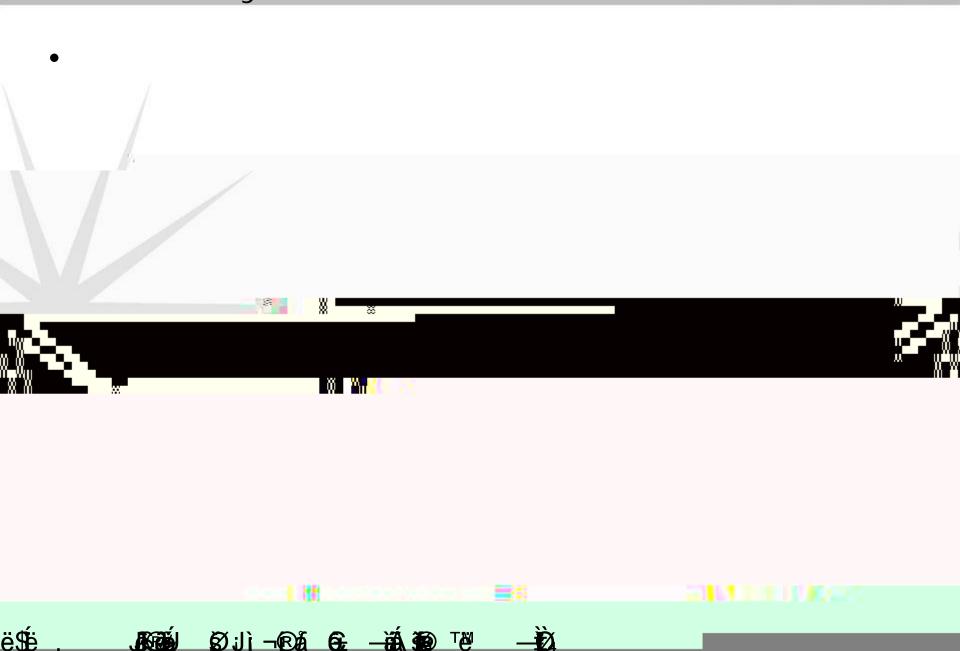






In Summary





Electra Therm, Inc.