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GeoExchange System for 1117 Crawford Rd.

Currently this system has:

Three (3) Forced Air (water to air) heating and cooling Heat Pumps, and 2,400ft drilled borehole. There is 1 Heat Pump and thermostat for the Main Floor, 1 Heat Pump and thermostat for the Basement, and 1 Heat Pump and thermostat for the Boat/RV storage area. Each will either heat or cool when called for, signalling the Variable Frequency Drive (computer driven) to drive the Circulation Pump.

These Forced Air Heat Pumps also provide 100% heating for the 20'x40' Swimming Pool able to keep the temperature at 92°F plus throughout the summer and shoulder seasons.

Current System Cost: \$ 80,000

Indoor design conditions:
 Summer: 70 °F (21 °C)
 Winter: 72 °F (22 °C)

Outdoor design conditions:
 Summer: 95 °F (35 °C)
 Winter: -4 °F (-20 °C)

FUEL/ HEATING UNIT	EFFICIENCY	AVERAGE MONTHLY COST	TOTAL ANNUAL HEAT+COOL COST
BEFORE House: Natural Gas/ Furnace with Condensing Unit Pool: Gas Boiler	80%	\$ 600/month	\$ 7200/year
AFTER House: Geothermal/ (GSHP) Ground Source Heat Pump Pool: GSHP	370%	\$ 150/month	\$ 1800/year

With the rising costs of energy in the future, the spread between Conventional System (Natural Gas) against a Geothermal System (Ground Source Heat Pumps) will increase dramatically as the price of gas increases more rapidly than electricity.