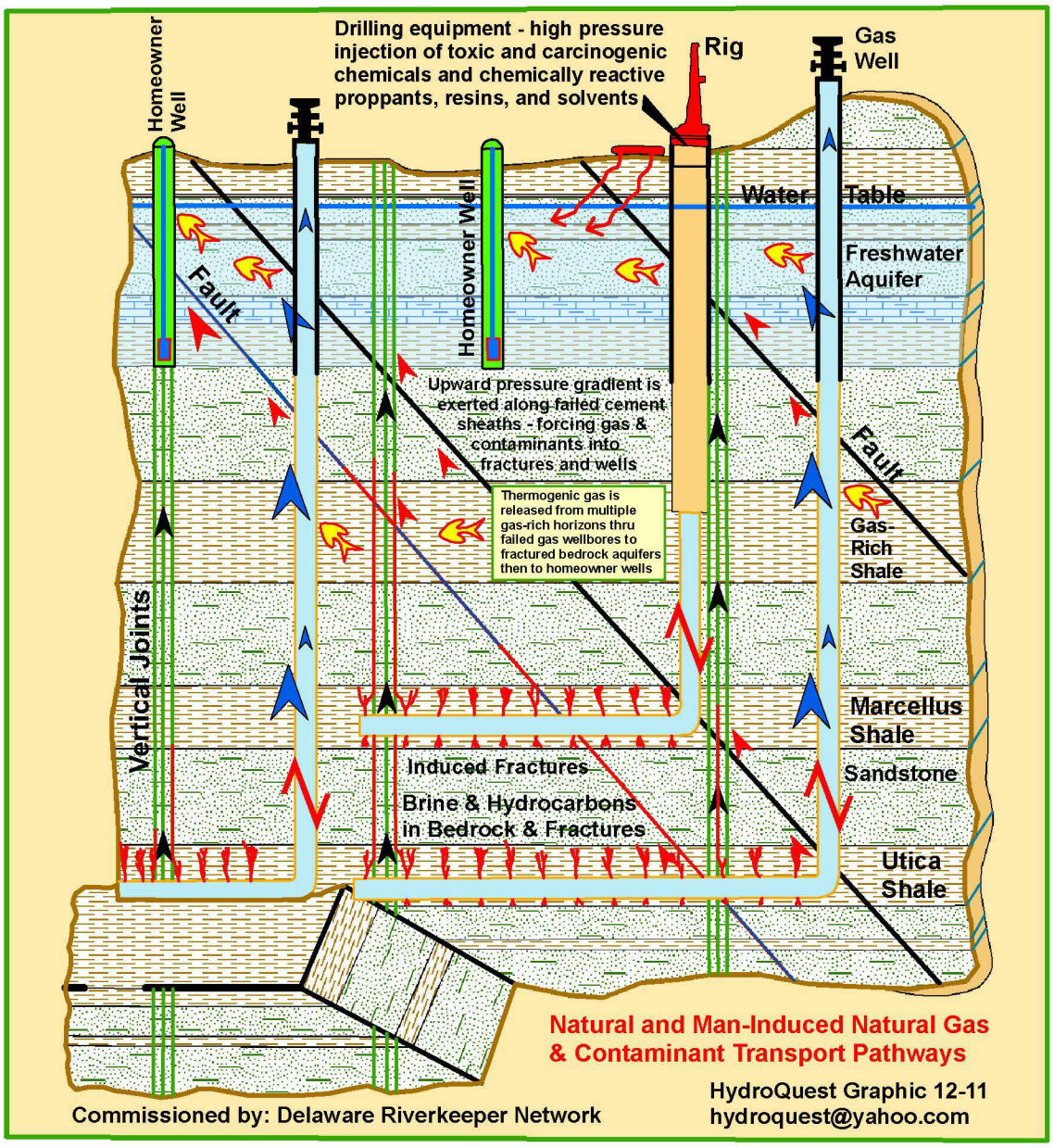
Homeowner Well
Drilling equipment - high pressure injection of toxic and carcinogenic chemicals and chemically reactive proppants, resins, and solvents
Rig
Gas Well
Water Table
Freshwater Aquifer
Fault
Homeowner Well
Upward pressure gradient is exerted along failed cement sheaths - forcing gas & contaminants into fractures and wells
Fault
Thermogenic gas is released from multiple gas-rich horizons thru failed gas wellbores to fractured bedrock aquifers then to homeowner wells
Gas-Rich Shale
Vertical Joints
Marcellus Shale
Induced Fractures
Sandstone
Brine & Hydrocarbons in Bedrock & Fractures
Utica Shale
Natural and Man-Induced Natural Gas & Contaminant Transport Pathways
Commissioned by: Delaware Riverkeeper Network
HydroQuest Graphic 12-11
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