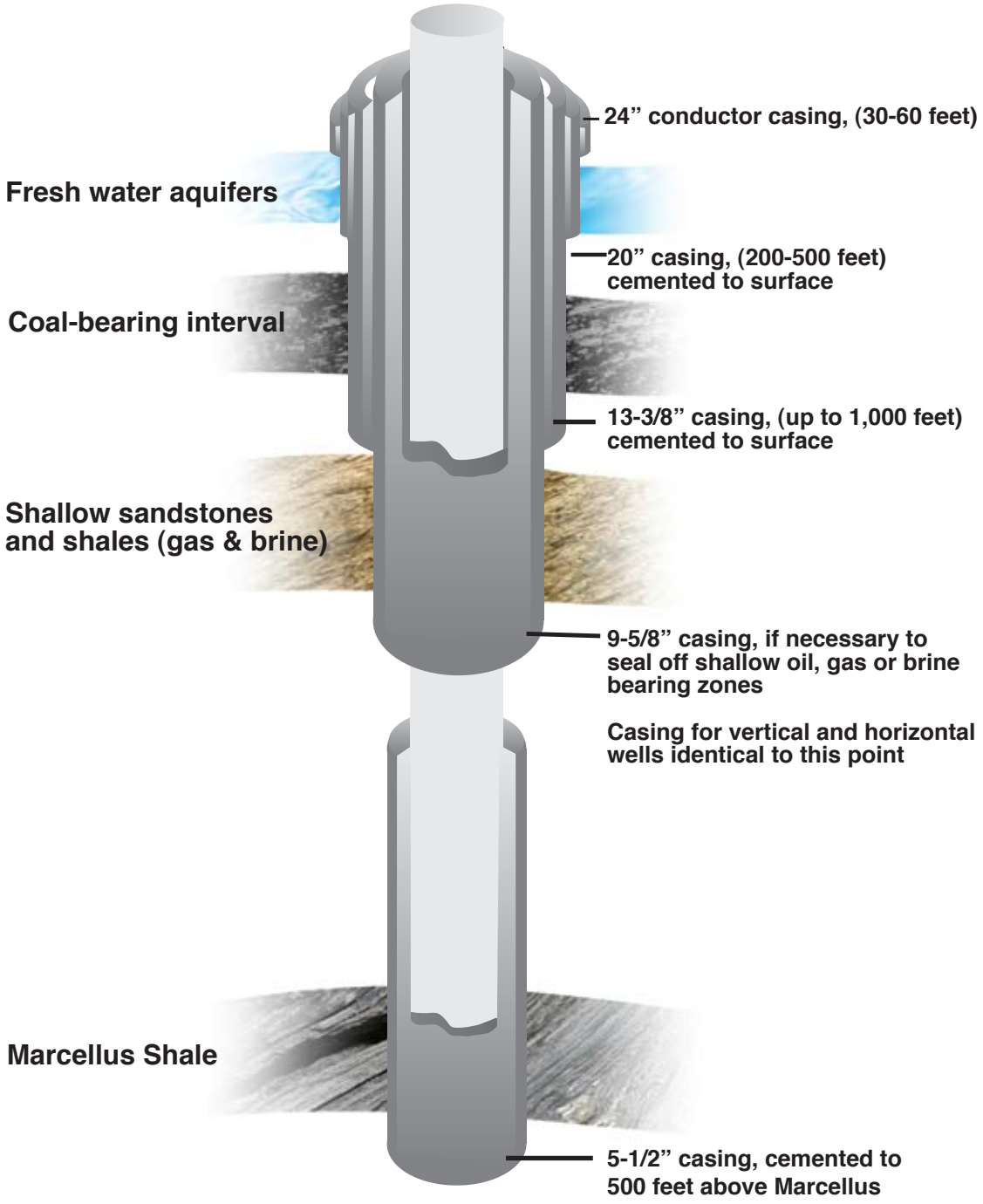Generalized casing design for a Marcellus Shale gas well to protect the environment