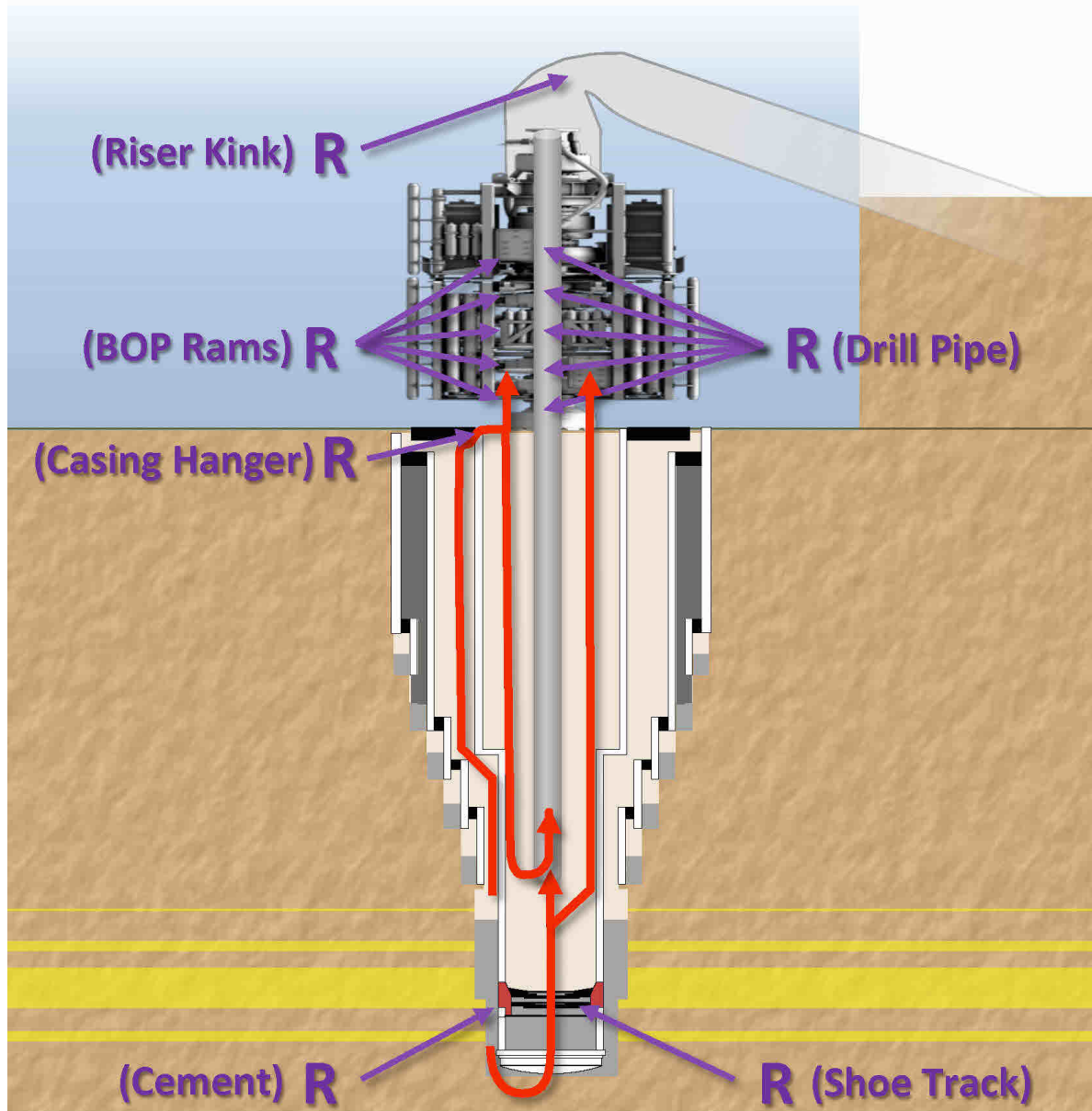


# Examples of **Uncertainties** Associated with Hydraulic Modeling Inputs at Macondo



- **Flow Path**
- **Restrictions to Flow ("R")**
  - Presence of Drill Pipe
  - Damage to Casing Hanger
  - Effect of BOP Rams
  - Effect of Kinked Riser
- **Pay Thickness**
- **Permeability**
- **Skin**