$$2H_2 + O_2 \longrightarrow 2H_2O \tag{1}$$
$$2[Co(CN)_6]^{4-} + Cl_{2,(g)} \rightleftharpoons 2[Co(CN)_6]^{3-} + 2Cl^{-} \tag{2}$$

$$3HgS + 2NO_3^- + 8H^+ + 6Cl^- \longrightarrow 3HgCl_2 + 3S + 2NO \uparrow + 4H_2O$$
 (3)

