GEOL 135 Next Day assignment for 10-06 Fall 2010

Set up the Nernst equation applied to the half reaction for ironoxyhydroxide reduction:

Fe(OH)3(ppd) + 3 H+ + e- 🡪 3 H2O + Fe2+

Where E0 = 0.975 V and solve for Eh when the activity of Fe2+ is 1 x 10-5 and the pH is 5 and put an X at that condition on the Eh-pH diagram below:

