GLY 4310 Name

February 11, 2020

**Take Home Quiz # 1**

Take home quizzes are due at the beginning of the following lecture. They are worth 2 points of EXAM credit. Please attach this sheet to your answers if additional sheets are used.

1. Viscosity is an important property of magma. How does viscosity change with each of the following changes in the magma? **Explain why each change occurs**

A. Increase in temperature of the magma

B. Increase in silica content of the magma

C. Increase in volatile content of the magma

2. Explain why reporting the presence of volatiles on a weight percent basis is misleading, compared to a comparison on a molecular percent basis. Use water as an example of a volatile. .