ESS 103A Sample Description Worksheet, Spring 2006

Name _____

Rock sample number _____

Hand sample description

_____

_____

_____

_____

_____ Field name _____

Mineralogy/mode (list minerals and modal %)

_____

_____

_____

_____

_____

Major textures (from thin section)

_____

_____

_____

_____

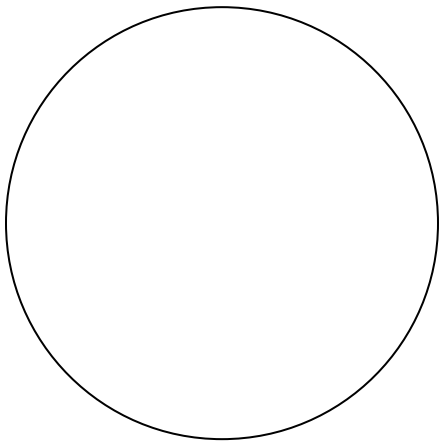
_____

_____

Plagioclase composition and zoning

_____

_____



Rock name (IUGS classification)

_____

Rock sample number _____

Thin section drawing (magnification ____)

Geologic History

Sequence of crystallization

_____

_____

_____

_____

Chemistry

SiO_2
TiO_2
Al_2O_3
Fe_2O_3
FeO
MnO
MgO
CaO
Na_2O
K_2O
P_2O_5
H_2O^+
H_2O^-
CO_2
Total

Reference for chemistry_____

Chemical name _____

How is the chemistry related to the rock/mineralogy observed

_____

_____

_____

Tectonic environment in which the rock occurs

_____

Rock sample number _____

Using the information that you have derived from the preceding two pages, write a brief history of how this igneous rock was formed. Include relationships to other rocks if this sample is part of a rock suite.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____