Name_____

Section (9am or 12pm)

A'a and Pahoehoe outcrop

Answer the questions below and attach a sheet with a SKETCH of this old outcrop.

1) How many flows are shown here? How can you tell (i.e. where are the upper and lower boundaries)?

2) Look closely at the interior portions of the flow. Where do you notice the vesicles (bubbles)? Are they closer to the center of the flow or to the margins? Why might they be located here?

3) Note the dip of this flow. Which direction was the lava flow moving at the time it solidified? What does that imply about the age of Manoa Stream (i.e. is it younger or older than this flow)?

4) On a separate sheet, draw a detailed sketch of the outcrop (someone unfamiliar with the outcrop should be able to recognize it from your sketch). Indicate the scale, any separations between flows, locations where the rocks are obscured by vegetation, etc.

Outcrop is located just east of Manoa Stream
on the mauka side of the road
Look for road cut at base of the hike start
Observe up close and from across the road

