Geol 101 Field Trip: Fall 2007	
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Stop 1: Palouse Hills Overlook	avorite rock:
Otop 1.1 dioddc 111113 Overlook	
What are the four main elements of the geology? (from	oldest to youngest)
1.	
2.	
3.	
4.	
Draw a geologic cross section view across the Palouse	region:
Stop 2: Granite Point	
Identify the type of rock that makes up Granite Point: _	
What minerals do you see (at least three)?	
Did this rock form at the Earth's surface? If not, how did	it get here?
What type of boundary or contact exists between the C underlying rocks?	columbia River basalt and the
What do we call the ancient soil horizon along this boun	dary?
What does this ancient soil horizon tell us about what w years ago?	as happening here 16 million

Stop 3: Basalt, basalt everywhere! What does the layering of the basalt across the river indicate? The boundary between lava flows is marked by basalt with lots of gas bubble holes in it. What do we call this type of basalt? What other type of feature is visible in the lava flow? What does this feature tell us about the environment in which these basalts were extruded? Stop 4: Somethin' funky is goin' on here! What do we call basalt with lots of vertical fractures in it? How do these fractures form? What other type of geologic feature forms in a similar way? What has happened to the basalt lava flows along the Snake River here that is different to further downstream? ________________________ What do we call this type of structure? When must have the Lewiston fold have formed? Stop 5: Whence the mysterious white layer?? What is the white layer exposed across the gulch? How was the white layer produced and when did this happen?

LUNCH BREAK

Stop 6: Lewiston is goin' DOWN!! What evidence is there to indicate that there is a landslide across the river? What do we call this type of landslide? Stop 7: The Riddle of the Snake River Island What evidence supports the idea that the island in the Snake River was formed by an unusually large flood? What was this flood called? When did the flood occur? Why did the flood occur? When did the Missoula flood occur? What caused the Missoula flood? What was unusual about the Missoula flood water when it flowed along this canyon? Stop 8: Anyone got an ark? What deposited these sediments way above the river valley? What type of sediment is it (look at the grain size)? What type of sedimentary structures can you see? How can we tell that the Missoula flood must have happened AFTER the Bonneville flood?

Stop 9: Once upon a time Describe the geological development of this region, from oldest to youngest events.	

Let's head on home!