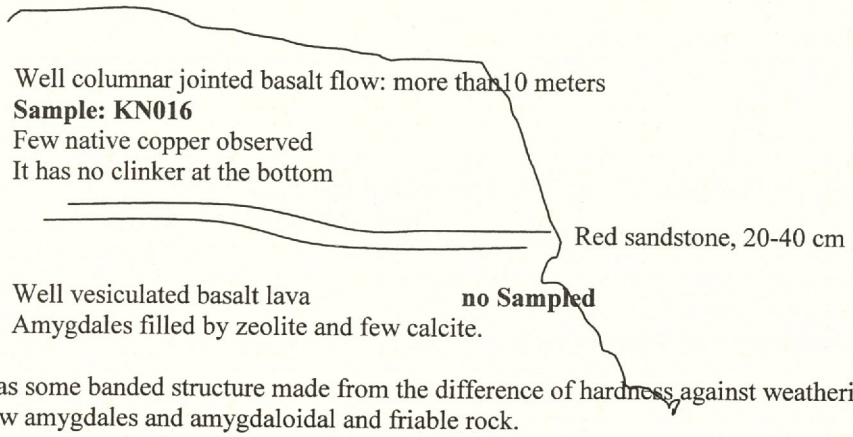
Stop 1–20, Boundary of two flows

DATE	LOCATION	COORDINATION				SAMPLE No.	ROCK
2001/ 09/07	North of S. Miguel do Oeste	EASTING		NORTHING		KN016	Samples:???
11:35		22J	0,249,943	UTM	7,058,538	Height	771 m

22J 0,249,943
UTM 7,058,538 Height:771 m
Same as the point 5.3 on the excursion guide.



Well columnar jointed basalt flow: more than 10 meters
Sample: KN016
Few native copper observed
It has no clinker at the bottom

Red sandstone, 20-40 cm

Well vesiculated basalt lava **no Sampled**
Amygdales filled by zeolite and few calcite.

Lava has some banded structure made from the difference of hardness against weathering that is hard rock having few amygdales and amygdaloidal and friable rock.

The structure may be formed by plural magma injection into the first lava lake, when the first lava crystallized near the surface.

The drill hole for oil near here shows the thickness of the basalt is 1,440 m. It means the area is at the deepest region of the basin, and the gas, which made well-developed amygdaloidal basalt, came from the center of volcanisms.

These basalt lavas are classified to **Campo Eré type that is younger flow of the area.**
Photos: 168-172