Stones of Time

Oak Creek originates from springs just below the Mogollon Rimthe southern edge of the Colorado Plateau.

Oak Creek Canyon, several miles to the north, formed when a major fault, or fracture, broke the strata in the Mogollon Rim. This fault caused layers on the east side to drop 1,000 feet relative to the west side. Groundwater, originating from snowmelt on the rim, seeped into the ground and traveled along the fault to help carve the canyon during the last 6 million years. To further sculpt the canyon, dense, basalt-lava boulders tumbled from the rim to the bed of Oa Creek, gouging the canyon walls along the way. This basalt rock originated from lava flows near to miles long that erupted between 6 and 8 mil years ago from vents near Flagstaff. The lava bo capping the colorful but softer sedimentary rock

Along the fault, groundwater flowed to the surface, undercutting and gradually collapsing the rocks above. In this way, weathering and erosion ultimately lengthened Oak Creek's channel in the upstream direction, and the canyon became deeper and longer. To further sculpt the canyon, dense, basalt-lava boulders tumbled from the rim to the bed of Oak Creek, gouging the canyon walls along the way. This basalt rock originated from lava flows nearly 10 miles long that erupted between 6 and 8 million years ago from vents near Flagstaff. The lava boulders, capping the colorful but softer sedimentary rocks in the walls of Oak Creek Canyon, acted as giant excavators of rock in huge floods. Today, the large black boulders seen in the bed of Oak Creek are testament to their durability and cutting power in carving Oak Creek Canyon.





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	Supai Group 400 feet thick (oldest)	300 million years ago		LAYERS UNDERGR

This stratigraphic rock column diagram shows the relative age and thickness of rock layers in the Sedona area.

Cathedral Rock

