Pedigree of the Fugates of Troublesome Creek

as gleaned from the *Science 82* article
Pedigree of Luna Fugate
taken from the genealogically correct Fugate pedigree
Curing the Kentucky Blues

Dr. Madison Cawein was a hematologist at the University of Kentucky Medical Center when he heard stories about the blue people of Troublesome Creek. He scoured the area around Hazard, Kentucky, trying to find the blue people but to no avail until Patrick and Rachel Ritchie, a brother and sister and both blue, walked into the Hazard clinic on a day when Cawein was there. He checked to make sure the siblings had no heart problems and then he began asking about their families and other blue people. He had found the descendants of Martin Fugate.

Dr. Cawein drew blood and eventually demonstrated that the problem was a deficiency of NADH diaphorase. He went out into the hills and found other blue people including Zach Fugate and his Aunt Bessie Fugate all living near a nearly dead mining town known as Hardburly.

The doctor had noticed that the blue people were not particularly happy about being blue. So, he hit upon a particularly brilliant scheme to help them. He knew that a second enzyme could do the trick if a good reducing agent was present. So, he injected Patrick and Rachel with methylene blue and within a few minutes, they both turned pink! They were delighted. The change was only transient but he left them some methylene blue pills to take on a daily basis and it worked. In fact, the mountain people could see the blue leaving their bodies since some of the methylene blue was excreted in their urine. One of the older mountain men confided to Dr. Cawein, "I can see that old blue running out of my skin."

The doctor never did reveal the location of the blue people and what with a daily dose of methylene blue, it may be that no one will ever find them again.