Cataract Route, discovery 1 trip
J. M. Moore & I discovered the connection of Wind River Chamber with the Specimen & Guides Discovery Routes. to be known hereafter as Wind River Circle.

Crystal Route discovery 3 trips

I discovered mineral crystals in the South end of Crystal Palace & calsite pocket N. E. of South end of Crystal Palace, also Wind Cave Marble in Crystal Palace

Sampson's Palace Route 2 trips

J. M. Moore & I discovered a way to get to the Natural Dome without going through Mound Builders Last Resting Place & also discovered the first Wind Cave (marble) and crystalized gypsum that was found in the Sampson's Palace Route

Specimen Route 3 trips

J. M. Moore & I discovered "Turtle Room" & the connection of Specimen Route with the Cataract & Guides Discovery Routes. I discovered mineral crystals in the left wing of the Main circle

Guides Discovery Route 1 trip

J. M. Moore Elmer & I discovered the circle in the lower part of the route. J. M. Moore & I discovered the connection with the Cataract & Specimen Routes

Bee Hive Route 1 trips

Number of trips in cave, 33

Hours spent in cave, 119:45

average time of each trip in cave, 3 83/132 hours