The Moon That Never Was (Maybe 7) by K.E.Chilton

Sent in the 210 After reading about the "Planet That Never Was" in the last issue of the Newsletter. I thought that our readers might be interested in a satellite which was photographed 13 times near the turn of the century but has never been seen since. This was Themis, a supposed tenth moon of Saturn.

Shortly after the discovery of Phoebe in 1890, W. J. Pickering announced that he had discovered ano ther more of Saturn, which he named hamis. The satellite was present on 13 plates taken by the Bruce tole scope at the discovery of Phoebe. However, as Saturn was in the rich star fields of Scorpio and Sagittarius at the time, it was impossible to follow the satellite or distinguish it from the myricus of background stars. When Saturn arrived at a more suitable position for observation of its fainter satellites. Themis was no more to be such. It hus never blue seen since.

Dome orbital elements were reloused, bused on messurelents of the spotographic plates. Themis' period was 20.85 days and it's noun distance from Saturn was approximately 300,000 miles. This, in fact, is culto similar to that of Hyperica, but whereas the the eccentricity and inclination of Hyperion s orbit are 0.0283 and 0.0° respectively. the inclination of the orbit of Themis was 30° and the eccentricity was 0.28, which puts the orbit in a far different plane from that of Hyperion.

If Themis was not a moon of Saturn, then what was it? The most reacatalle theory is that it was an asteroid wipse cruit brought it into the line of sight between the Barth and Baturn. Whether mean or actoroid 2

the story of Themis is another of the unsolved riddles of the universe that make the study of Astronomy such an interesting pursuit.