Observing Sheet

Name: Lourie Lobo

Object Viewed: Jupiter
Telescope Focal Length: 3500 mm
Eyepiece Focal Length: 35 mm
Telescope Magnification: 100

Time and Date: 9:00 pm 8/27/09
Object Type: Planet
Moon Phase: 3rd quarter
Sky Conditions: Clear
(Clear, Party Cloudy, Very Cloudy)

Description of Object: Jupiter with three moons; Io, Europa & Callisto. Brownish color with darker bands

Summary of Research: Jupiter is the third-brightest object in the night sky. It is 320 Earth masses but only about 1/4 as dense. Thought to be a gaseous ball composed of hydrogen, helium, methane, ammonia and water. Jupiter radiates more energy than it gets from the Sun, indicating some internal process creating heat. Too small to become a star with hydrogen fusion the gases are compressed enough from its massive internal pressures to generate heat. Jupiter has a mass of 1.9 x 10^29 kg. A surface temperature of 120 Kelvin and a rotational period of 0.4 days.