

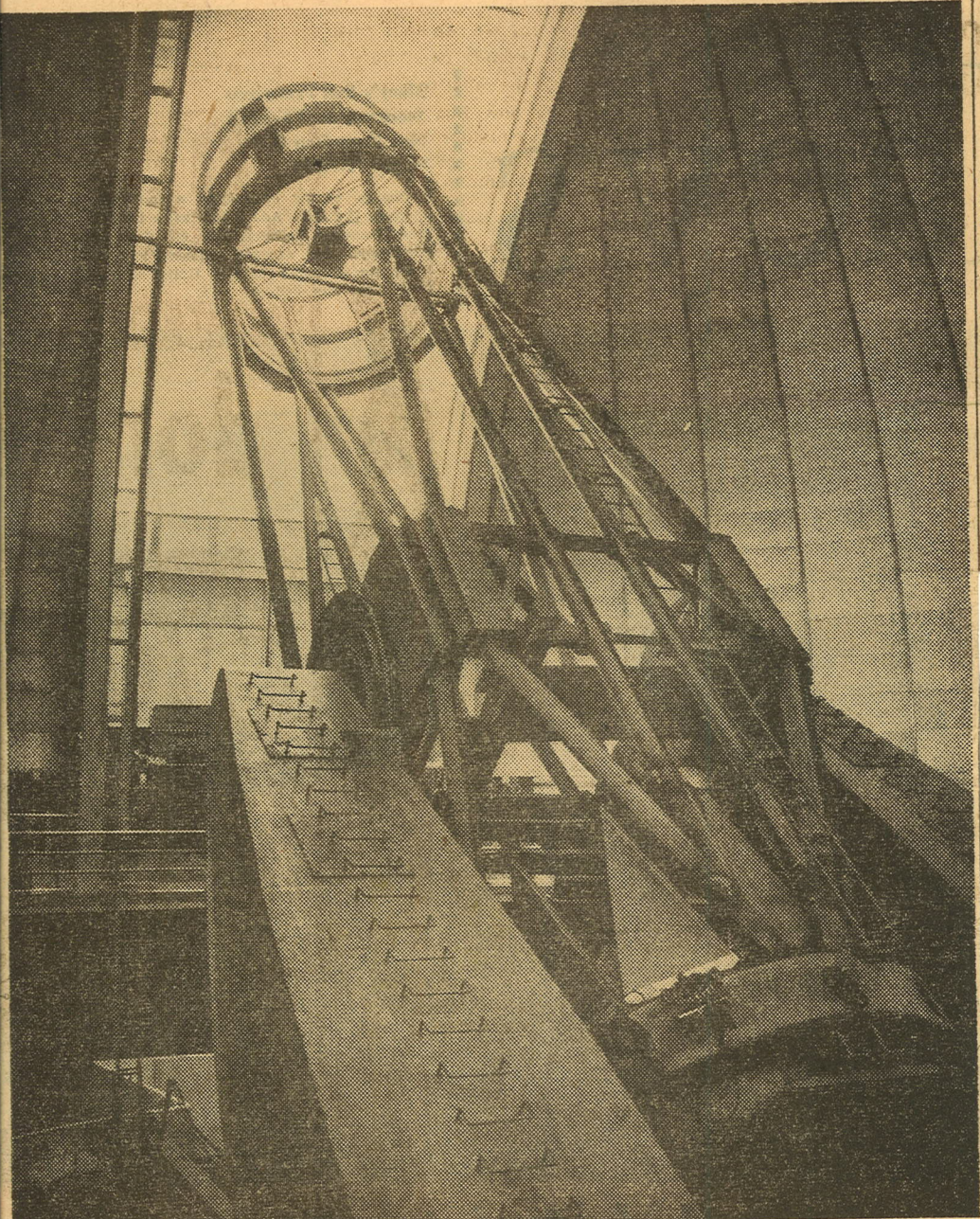
140-Ton Hound of Heavens Will Trace Star Movement

It's a super precision job to track down, with microscopic accuracy, the movement of stars. But when this has to be done with a ten foot diameter glass mirror weighing four tons, the challenge is one which very few companies want to take on.

The heart of the world's second largest telescope, nearing completion at Lick Observatory, is a 120-inch glass mirror. But the giant lens will track stars with precision only because of its 140-ton steel mounting, fabricated to tolerances far more limited than those encountered in normal industrial practice.

The Judson Pacific-Murphy Corporation of Emeryville, California, was the sole bidder for the \$938,000 fabrication and erection job for the telescope, located atop Mt. Hamilton,

Actually a giant camera, focusing an image upon a photographic plate fifty feet from the mirror itself, the telescope will have to follow a given star for periods of up to six hours in order to obtain a satisfactory photograph. The mounting will move to compensate for the rotation of the earth with an accuracy of two thousandths of an inch.



NEARLY READY—World's second largest telescope which is nearing completion at

Lick Observatory atop Mt. Hamilton. Heart of the telescope is a 120 inch glass mirror.