



Fig. 2. Experimental technique used in the high pressure experiments. The displacement vs. time response of the free surface of the sample to high explosive loading is monitored with a high speed streak camera which follows the motion of a 0.1 mm dia. wire and its image as reflected from the surface of the sample. The high speed camera was a Beckman and Whitley Model 770 with a maximum writing speed of 16.7 mm/ μ sec. Shock arrival times of the first waves are also monitored with piezoelectric pins. The typical record shows the extinction of background light when the shock enters the sample at time t_0 . The arrival time of the first wave at the free surface is t_1 and the arrival time of the second wave is at t_2 . For the experimental record shown, the time difference $t_1 - t_0$ is 1.077 μ sec and the height of the wire above the sample is 1.610 mm.

1911