

controllers, to plus or minus 7 feet.

#### D. Recording Technique

With the AQUAPULSE system, four "guns", in a rectangular array, were trailed at a depth of about 30 feet. The gun pulse monitoring system was used in conjunction with M.P.8 Geospace phones and 300 Hz galvanometers. Tests were made to ascertain the optimum gas pressure and fill time in order to obtain as near as possible a 3:1 gun pulse ratio of the first positive peak to the second. The pressures decided on were oxygen 50 lbs/sq.in., propane 20 lbs/sq.in. with a fill time of 1.5 seconds. Under continuous-tow operations, a metered oxygen/propane mixture was fired electrically at intervals such that four pulses per 330 feet, or approximately 64 pulses per mile were produced. This pulse density allows certain options in so-called vertical summing and horizontal stacking, such as, 4-sum 12-stack, or 8-sum 6-stack. Refer to Plate II for a detailed diagram of the streamer cable, AQUAPULSE gun array, and navigation antenna-gun array-cable relationship.

#### IV. DATA PRESENTATION

##### A. Field

A variable density section was made by recording