



## B. SHOOTING

### 1. DYNAMITE

The M/V "IMLAY" was used as a shooting boat throughout the project. The firing line was attached to the charge which was supported by an inflated plastic bag. The charge was fired about 100 feet behind the shooting boat and at a depth of approximately 6 feet. The blaster, controlled by the G.S.I. clock system, detonated the charges. At the instant the blaster fired, a signal was received at the D.F.S. which then designated the next clock pulse on tape as timing word zero. This is seen as a time break on trace 4 of the monitors or playbacks. Charges were fired every 600 feet for the sixfold C.D.P. coverage. The explosive used was Nitro-Carbo-Nitrate in 33-1/3 lb. and 50 lb. canisters. Charge size at a shotpoint is noted on the observer's logs.

### 2. AIRGUN

Two lines, E.C. 145 and 124 were shot using G.S.I. tuned array air guns as a seismic source of energy. One line had previously been shot using dynamite and a comparison was to be evaluated. The array consisted of 24 guns equivalent to 660 cu. in. of air with a pressure of 1800 to 2000 p.s.i. The air guns were placed on four "fish" towed from the back of the recording boat. The air guns were attached to the "fish" so that an equivalent of the following chamber size was used. Four air guns of forty cu. in. size were placed on the "fish" close enough for the bubbles to coalesce giving a 160 cu. in. gun, a 2-80 cu. in., 4-40 cu. in., 6-20 cu. in., 6-10 cu. in., air guns were thus arranged on the "fish" for the required frequency spectrum. The guns were towed at a depth of 20 feet with desired results.