



SECTION IV

OPERATING TECHNIQUES

A. SURVEYING (ADDITIONAL DETAILS ARE IN APPENDIX A.)

Decca Hi-Fix navigational equipment was operated in the range-range mode by GSI personnel. The master station was aboard the recording vessel. The shooting vessel carried a slave station for SP's 1 - 15785 and readings taken were used with the appropriate recording vessel position to determine the position of the shot. The shooting boat operated in a varying hyperbolic lattice.

Initial calibration in all areas was carried out by baseline and extension crossings or by sextant readings to known markers or a combination of both methods. The calibration was checked upon completion of each area. A three pen saw tooth recorder recorded lane count on all traverses. Scale factor was considered in all survey computations.

Track plots for the recording vessel were prepared from predetermined IBM-Computed shotpoint positions. The trackplots charted the desired course and shotpoint interval. When fed through a track plotter a penwriter superimposed the recording vessels' traverse and indicated its position on every shooting cycle. Operators noted Decca dial readings on both vessels at the loading tone when the charge was dropped in the water. The setback distance, direction of shot offset, ship's speed, and time between loading and firing of the charge were also recorded on Decca Coordinates data sheets.