



3. Velocity Analysis :

1. Program 700-2 provides a continuous velocity analysis technique which was used to determine the complete velocity field along a line.

Inputs to this program are pre-processed CDP gather records. For the 2400 meter, 24 trace data (EO, EP and ER Surveys) every depth point was submitted. For the 3200 meter, 48 trace data (HO Survey) only data from one system (Evens) were submitted, resulting in alternate depth point processing.

On these CDP records the following processes were performed:-

- o Moveout and Dip Scan Building -

A moveout scan is generated for each depth point and is formed by the application of a constant shift to each trace in proportion to the square of the offset of the trace and then stacking by mixing together all the traces in the gather to form a scan trace. The moveout applied is then incremented by a constant amount and the process repeated until the range of moveout applied exceeds the expected seismic range.