



Static corrections for shot and seismometer depths, shifts the traces to correct them to the specified datum (sea level). The average depths used for this computation were 35 feet for the airgun depth and 47 feet for the streamer depth. The water velocity was assumed to be 5,000 ft./sec..

Common Depth Point (C.D.P.) Gathers were formed and output as 24 trace records.

The water depth at the depth point and the offset to each trace in the gather was annotated in channel 25 for use in further processing.

(ii) Velocity Determination

a) C.V.G.

The seismic velocity of shallow events was determined by the use of Constant Velocity Gathers. This method takes one, deconvolved, Common Depth Point Gather record, output from the pre-processing phase, and applies various velocities to the whole record. Velocity as a function of record time can be determined from alignments of reflections on traces of output records. This procedure is adequate only if the signal-to-noise ratio is good on input gather records.