

Application Gates in msec.

Near trace 0 to 5000

Far Trace 0 to 5000

3.9 COMMON DEPTH POINT [CDP] GATHER

In this process the seismic traces along a line are sorted into a primary key sequence on the basis of common-depth-point and a secondary key of increasing offset distance within each 'CDP' group. For this project the data was gathered into common-mid-points with a fold (number of traces per CDP) of 51 and a CDP interval of 12.5 meters.

3.10 VELOCITY SCAN ANALYSIS

SVEL Discrete Velocity Analysis is a comprehensive velocity determination package. At each velocity analysis location the CDP gather records are normal move-out corrected with a range of velocities specified by the user. These gathers are then summed to observe the stack response. The module provides a display of the selected velocity control depth points showing;

- a) Central CDP gather before correction for normal move-out
- b) Normal move-out corrected central CDP gathers associated with their respective velocity fan functions
- c) Display of the stack associated with the suite of selected velocity fan functions

A semblance function is computed across the stacked panels and displayed in graphical form for user reference. Based on the semblance values the program provides optional time-velocity picks which are displayed as a numerical listing and also imposed on the velocity time graph. This is positioned to the right of the actual data. Offset information displayed above each gather trace can be used to determine the required pre-stack mute pattern. The mute pattern used for the analysis is displayed on each normal move-out corrected gather record. The above analyses were conducted every 2.0 Km.

3.11 MULTIPLE SUPPRESSION : ZMULT

ZMULT is a multiple attenuation process which is based on the separation of primary events from multiples utilising the F-K domain transform on common midpoint gathered data. Application of a normal moveout curve, which overcorrects the primaries and undercorrects the multiples, will move these events into

