

IV.5 INTERPRETIVE MIGRATION OF LINE BB85-28

Line BB85-28 was processed through interpretive depth-migration procedure, using interactive modelling programmes, with the following objectives in mind:-

1. To improve the quality of migration (focusing and resolution);
2. To improve velocity calculations;
3. To convert seismic section from time to depth;
4. To re-interpret depth-migrated section;

This processing was carried out by Western Geophysical in Singapore, by Mr. M. Brewer.

I Processing Sequence For Depth Migration

1. Digitise eight horizons from the unmigrated time section (time model), (figure 6.1) for input into horizontal velocity analysis programme (HVA);
2. Run HVA with parameters adjusted to suit each horizon (figure 6.2);
3. Plot HVA and pick stacking velocities after smoothing;
4. Merge peaks from step No. 3 with other velocity information available, i.e. water-bottom velocity and velocity from Durroon No. 1 well;
5. Re-stack with velocities from step No. 4 followed by deconvolution after stack and normalisation gain;