

PIPIPA-1 VELOCITY SURVEY

The Pipipa-1 velocity survey was carried out by Velocity Data Pty Ltd on the night of May 17th/18th 1982. A total of 37 shots were recorded at 15 different levels. Six levels were recorded running into the hole and the remainder recorded as the tool was on its way out. At least two records were made at each level. An extra shot was taken at those levels shot running into the hole as the tool was removed as an additional check. In the accompanying table the shot ID refers to the order in which the records were made.

The instruments used for this were a SIE RS49W Well Shoot system. The records were recorded on 1/2 inch 9 track tape. The energy source was an oxygen-propane gas gun.

One major problem occurred during the survey. At 1142 m the proposed level to be recorded the tool would not lock properly and began to slip. The tool was raised to 1140 m and was able to grip the hole at this level. Further difficulties were experienced with the following levels until at the 750 m the arm of the wall lock geophone failed to lock at all. The tool was pulled from the well and the arm replaced. One hour and forty minutes was lost while the tool was repaired.

In the light of this tool failure it is likely that a great deal of the noise experienced on the records may have been due to poor coupling to the side of the hole.

During the survey the first break times were compared with the sonic times over the same interval. With the exception of the shallowest interval from 213, to 400 m the maximum difference was 4 m/sec. For the interval 213 m to 400 m the discrepancy was 42 m/sec the time from the velocity survey being much shorter than expected. This anomalous time was caused by energy transmitted through the casing,

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