

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.3 Satellite-Acoustic Positioning System (Cont'd)

4.3.2 Installation and Calibration

The seabed survey having been completed on 20th November 1985, an array of six (6) acoustic transponders were deployed around the location using ARGO. The transponder array remaining on site for the subsequent rig positioning.

To assist with the calibration of the array a velocity profile of the water column was observed at the location. The velocity profile is shown below:

Depth (in metres)	Velocity (in metres/second)
0	1506.86
11	1506.41
21	1505.88
30	1505.17
41	1503.62
51	1503.61
61	1501.57
70	1501.65
77	1501.77

The relative calibration of the array commenced at 1000 hours on 21st November 1985, with the vessel steaming throughout the array collecting ranges at a number of different points or stations. Ranges for a total of 19 stations were observed during this calibration and the results solved by least squares computation to determine the geometry of the array. (See Appendix 1).