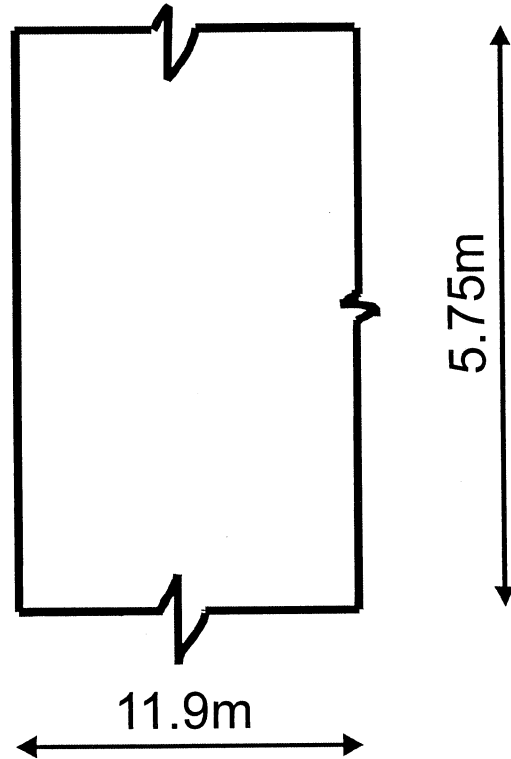


Appendix A
Time Series of Test Data



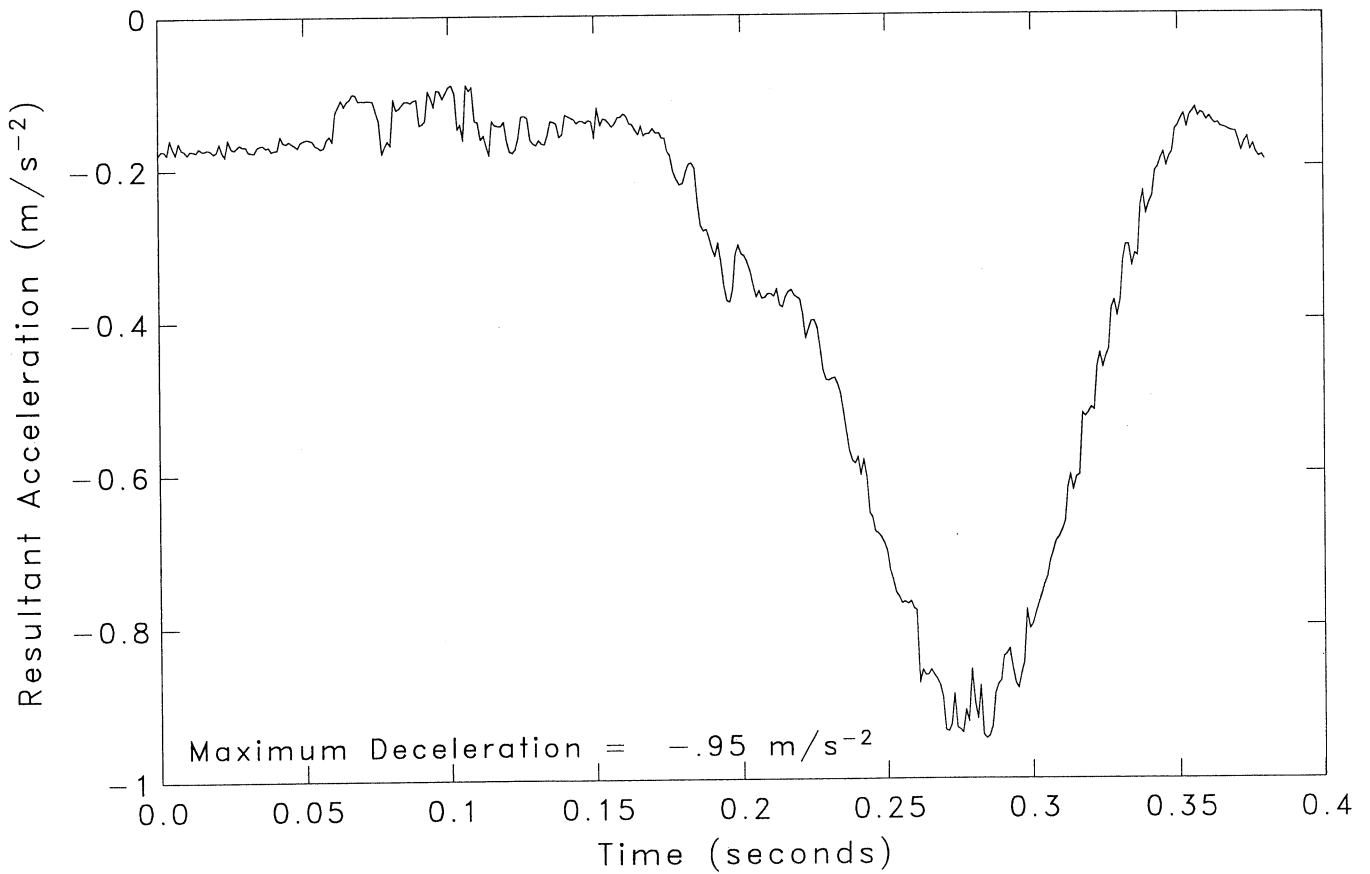
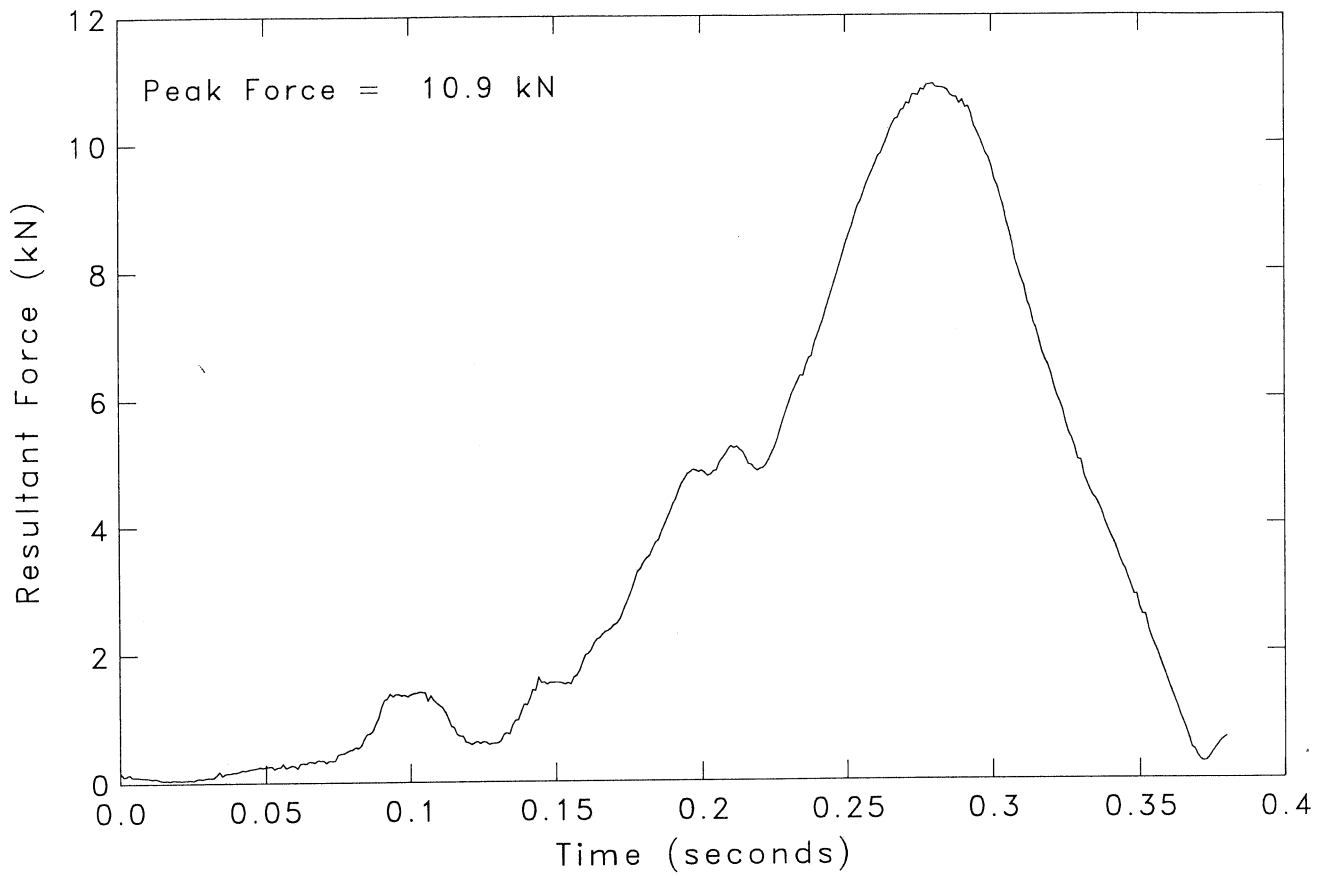
Pressure
Plate

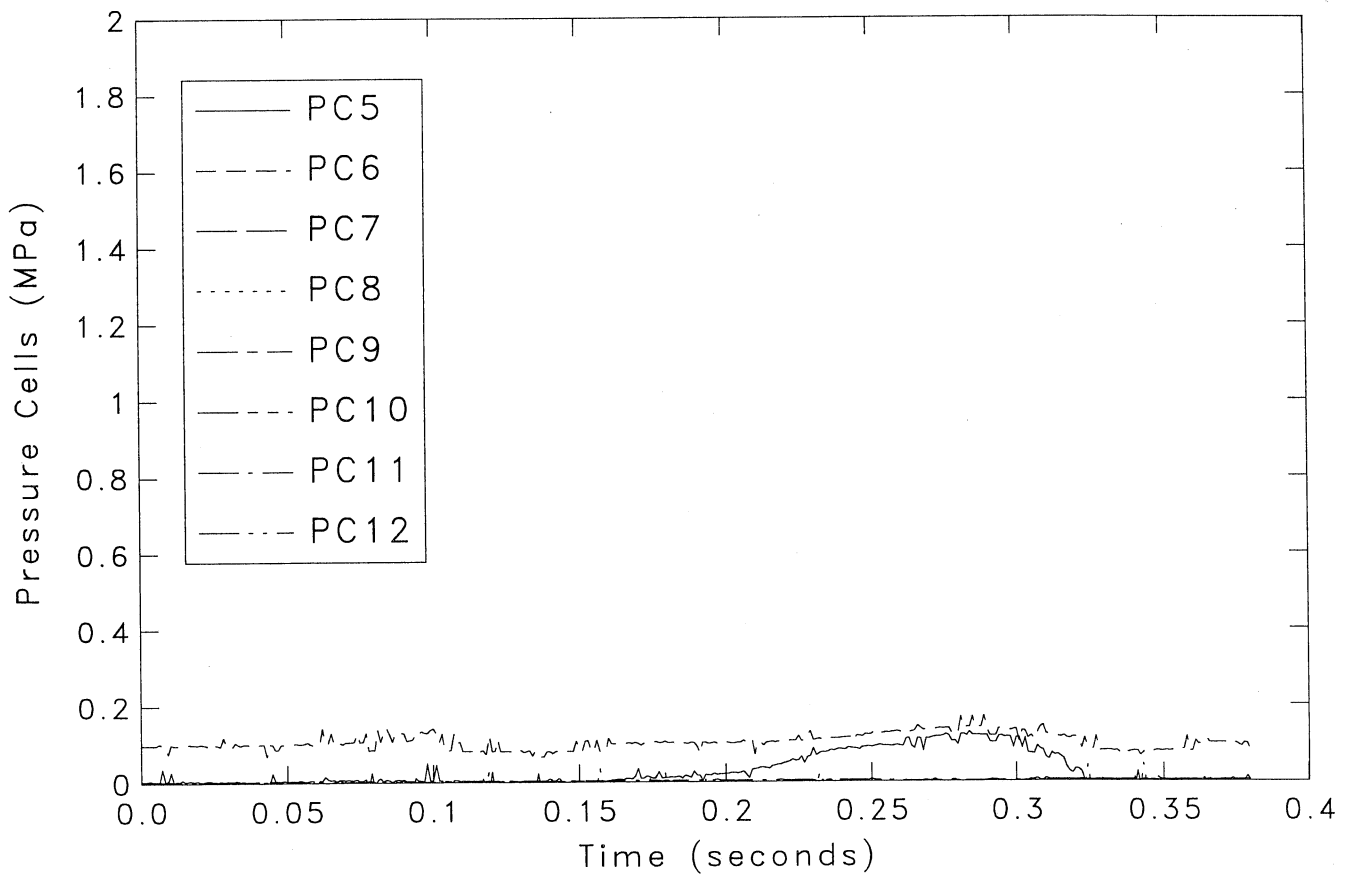
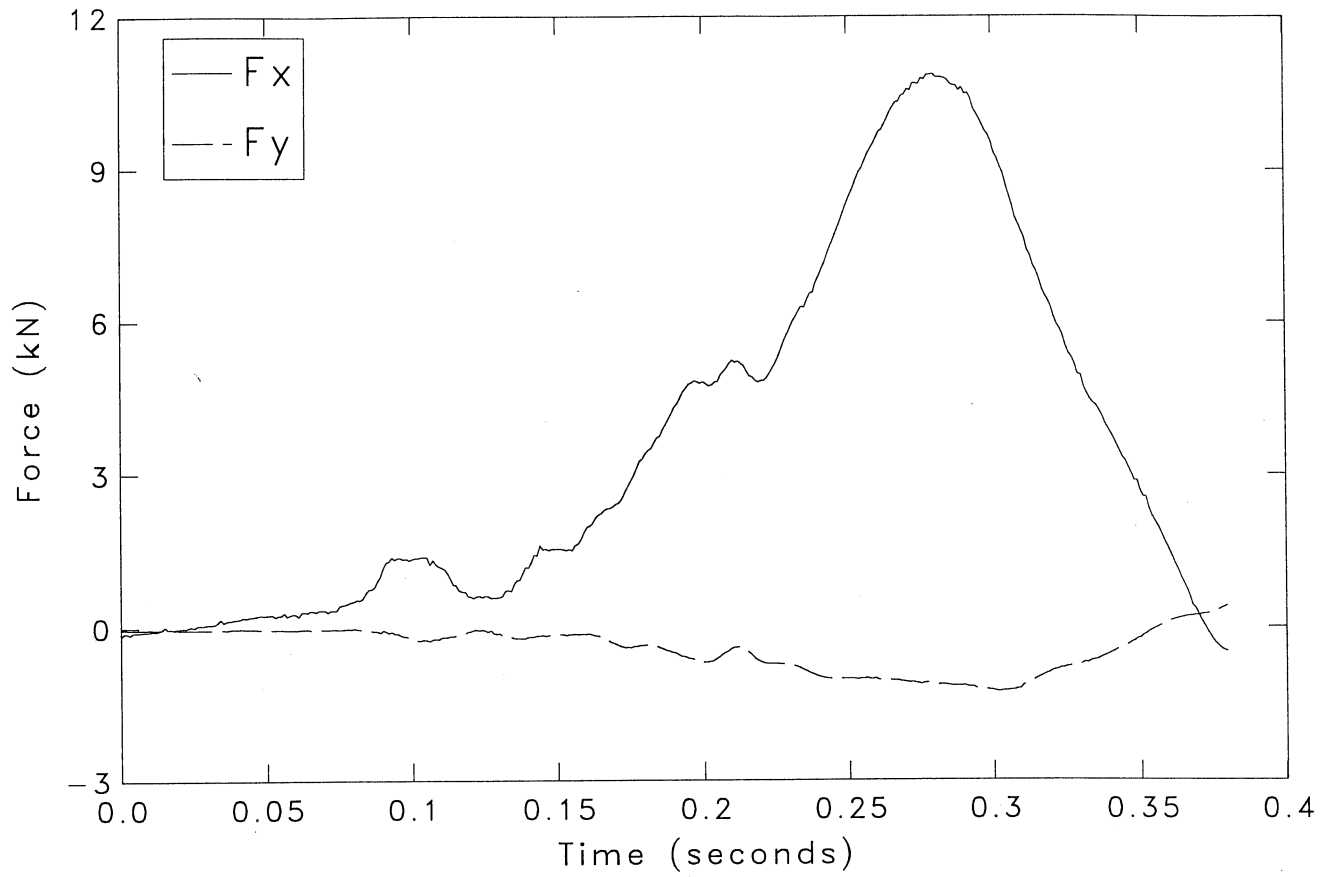


Floe Velocity = 86mm/s
Floe Mass = 13.7t
Impact Edge Shape = straight

Exaggerated details for clarity

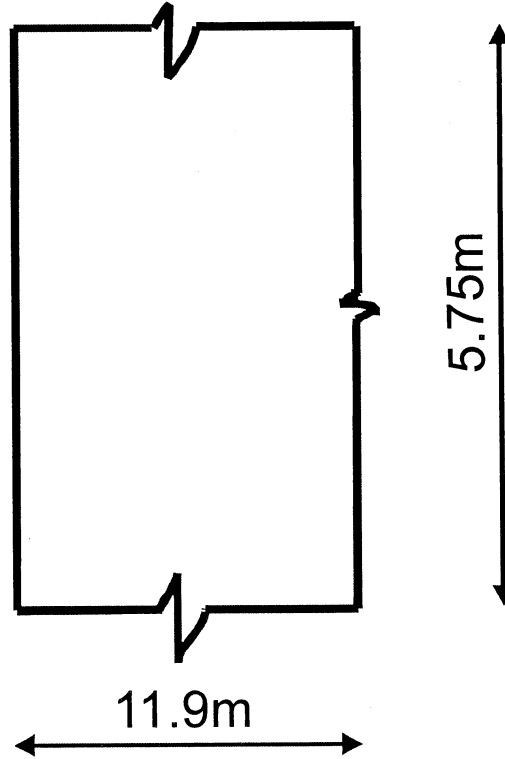
Test 1







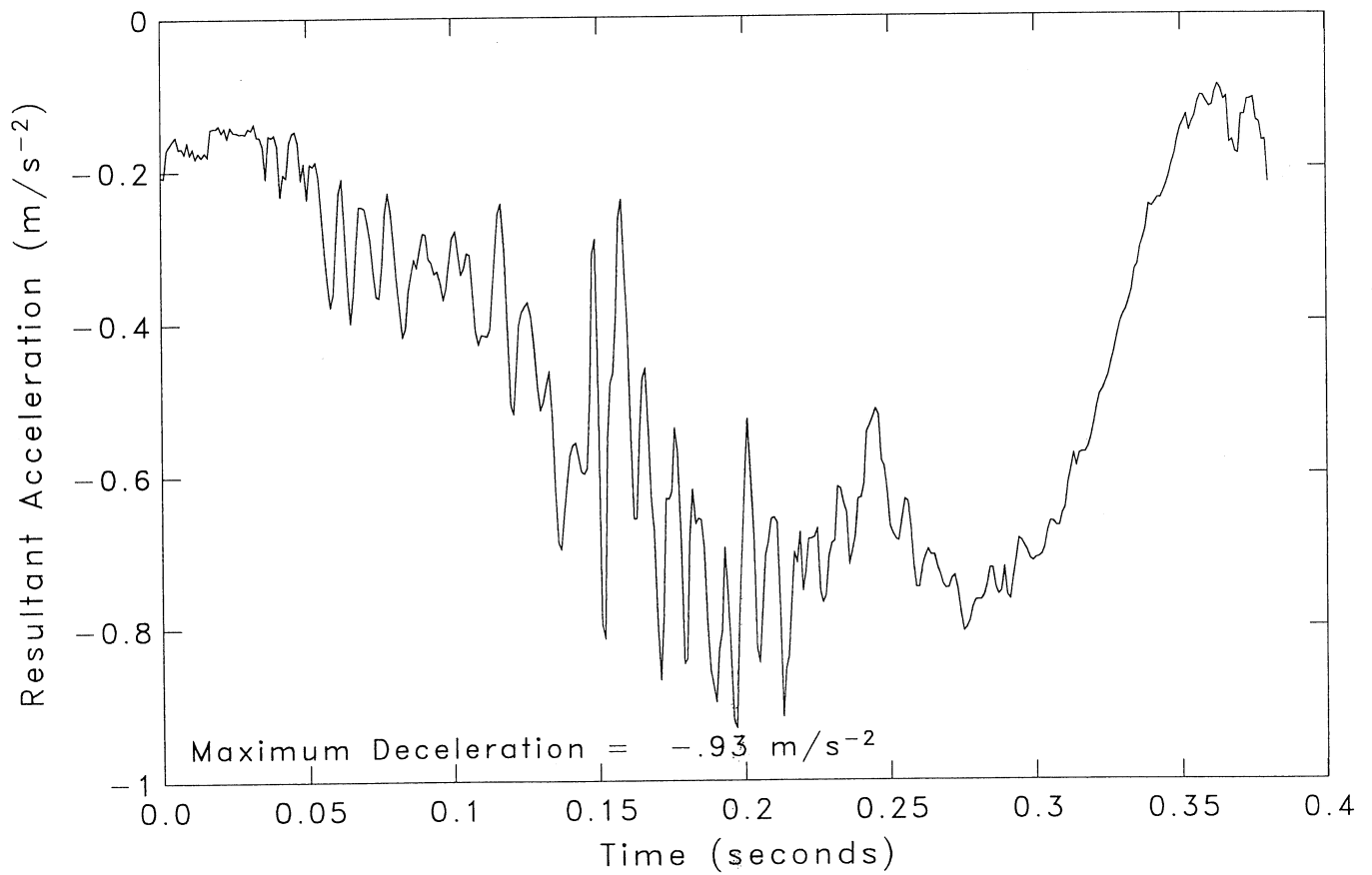
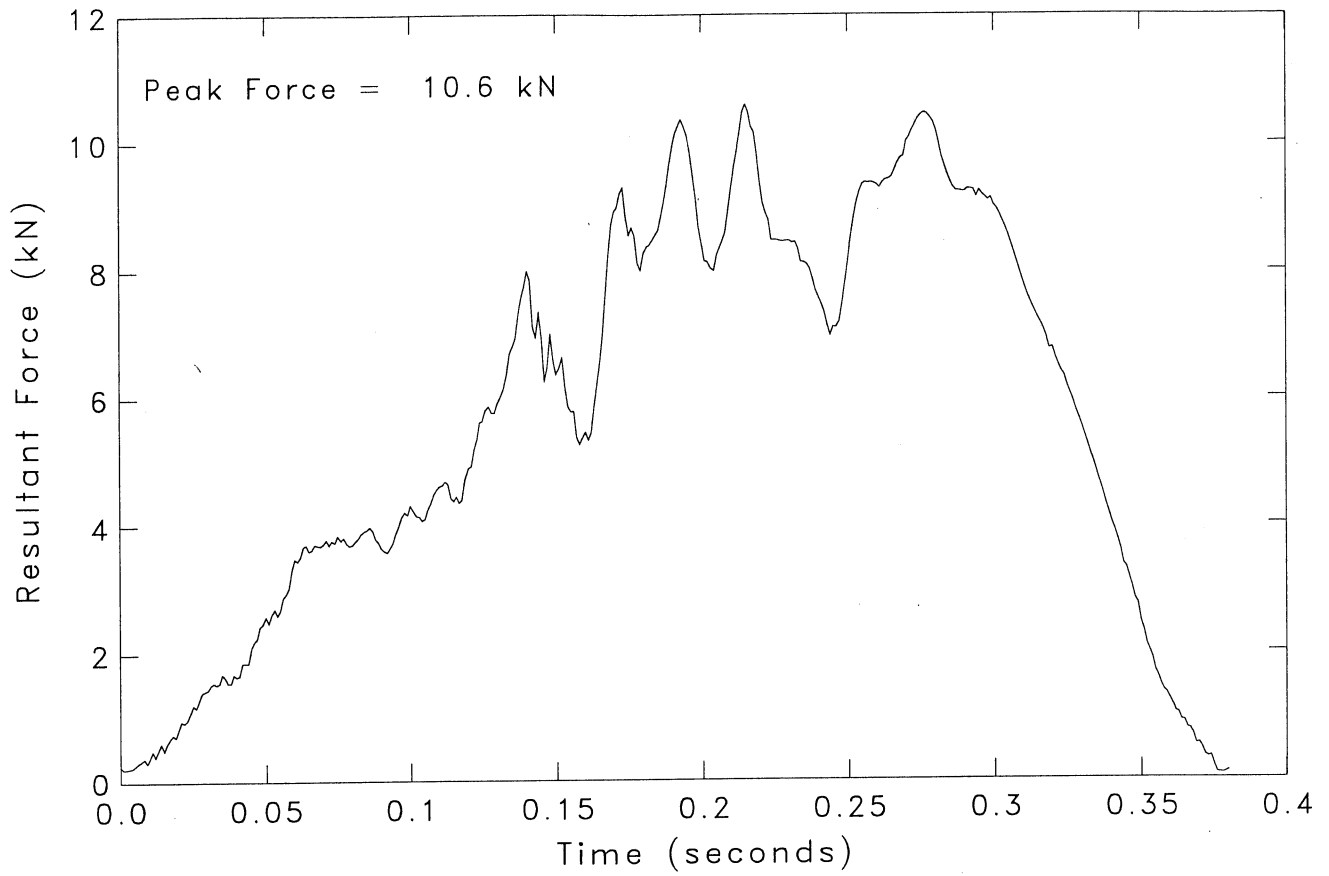
Pressure
Plate

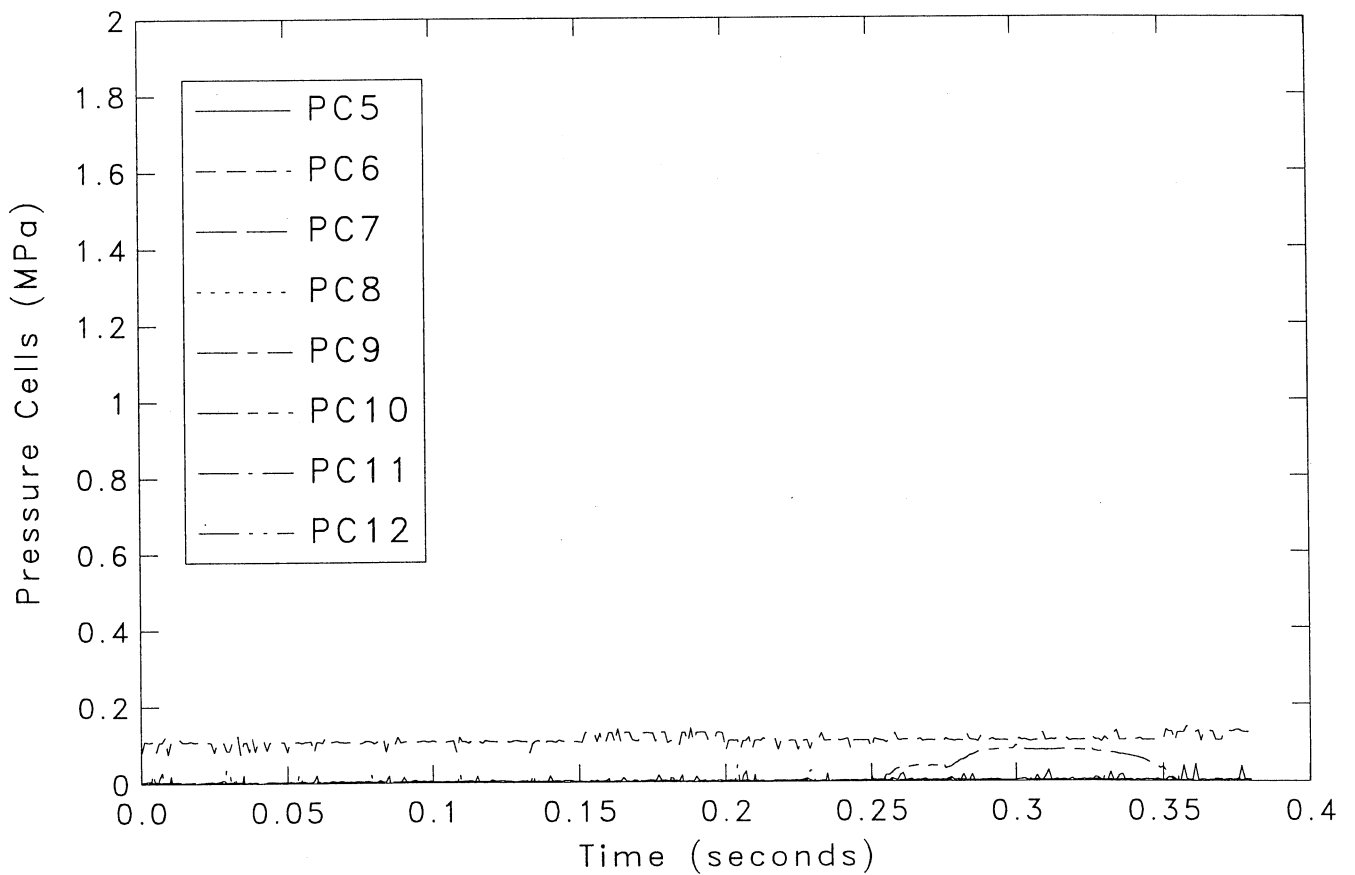
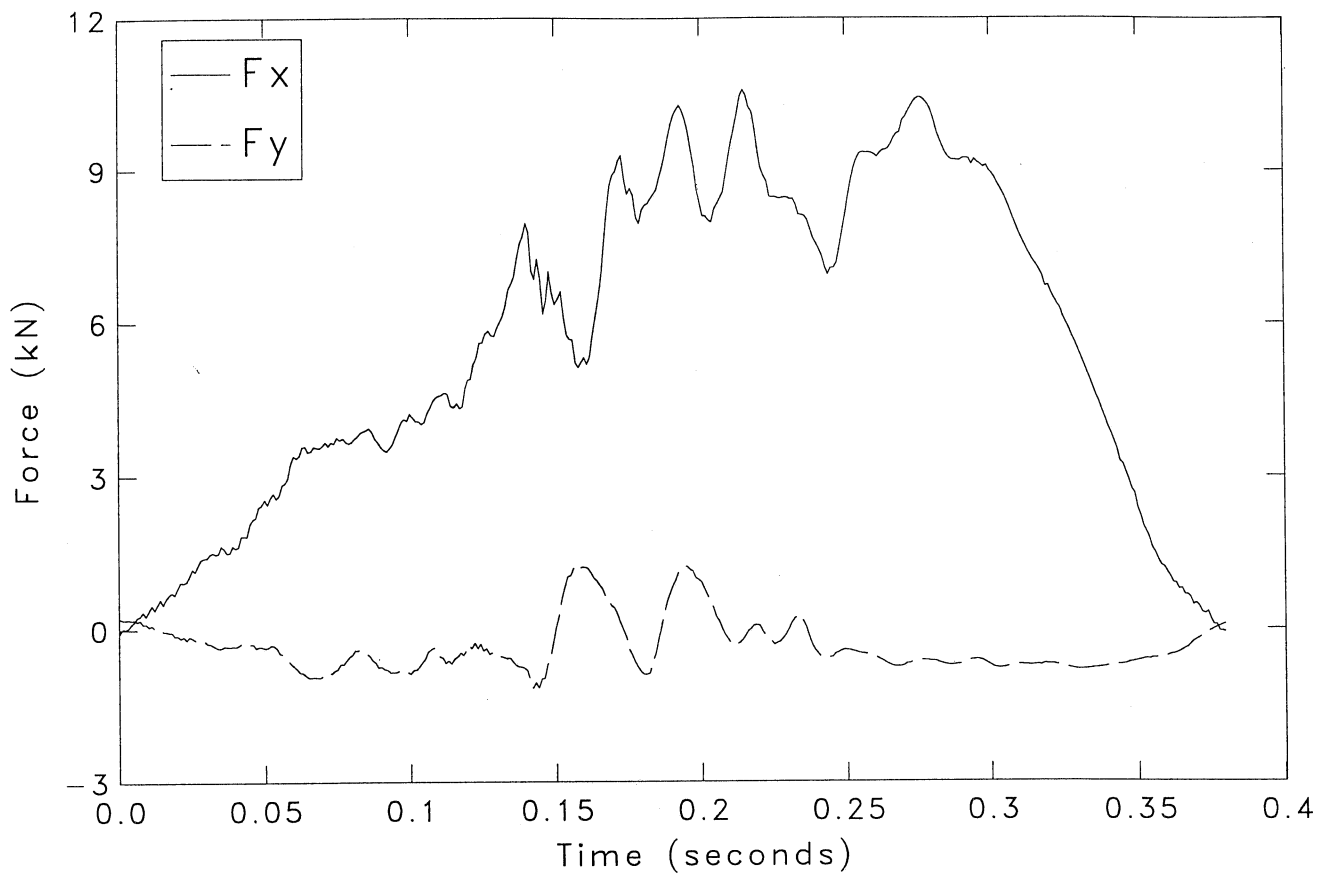


Floe Velocity = 150mm/s
Floe Mass = 13.7t
Impact Edge Shape = straight

Exaggerated details for clarity

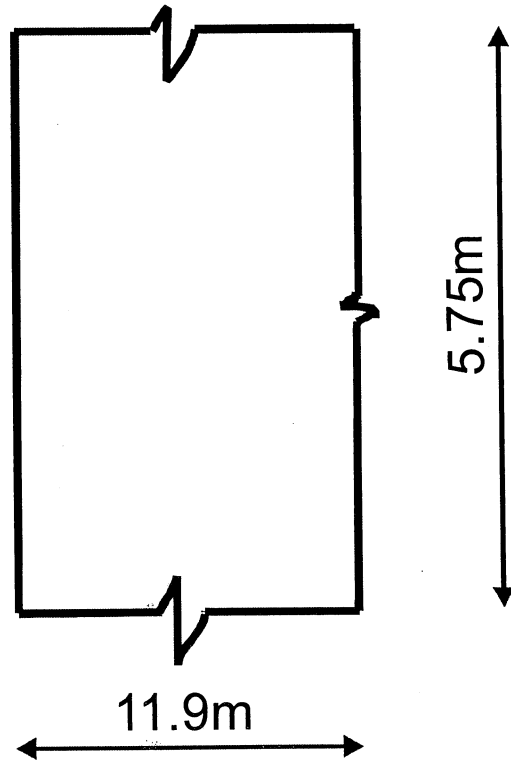
Test 2







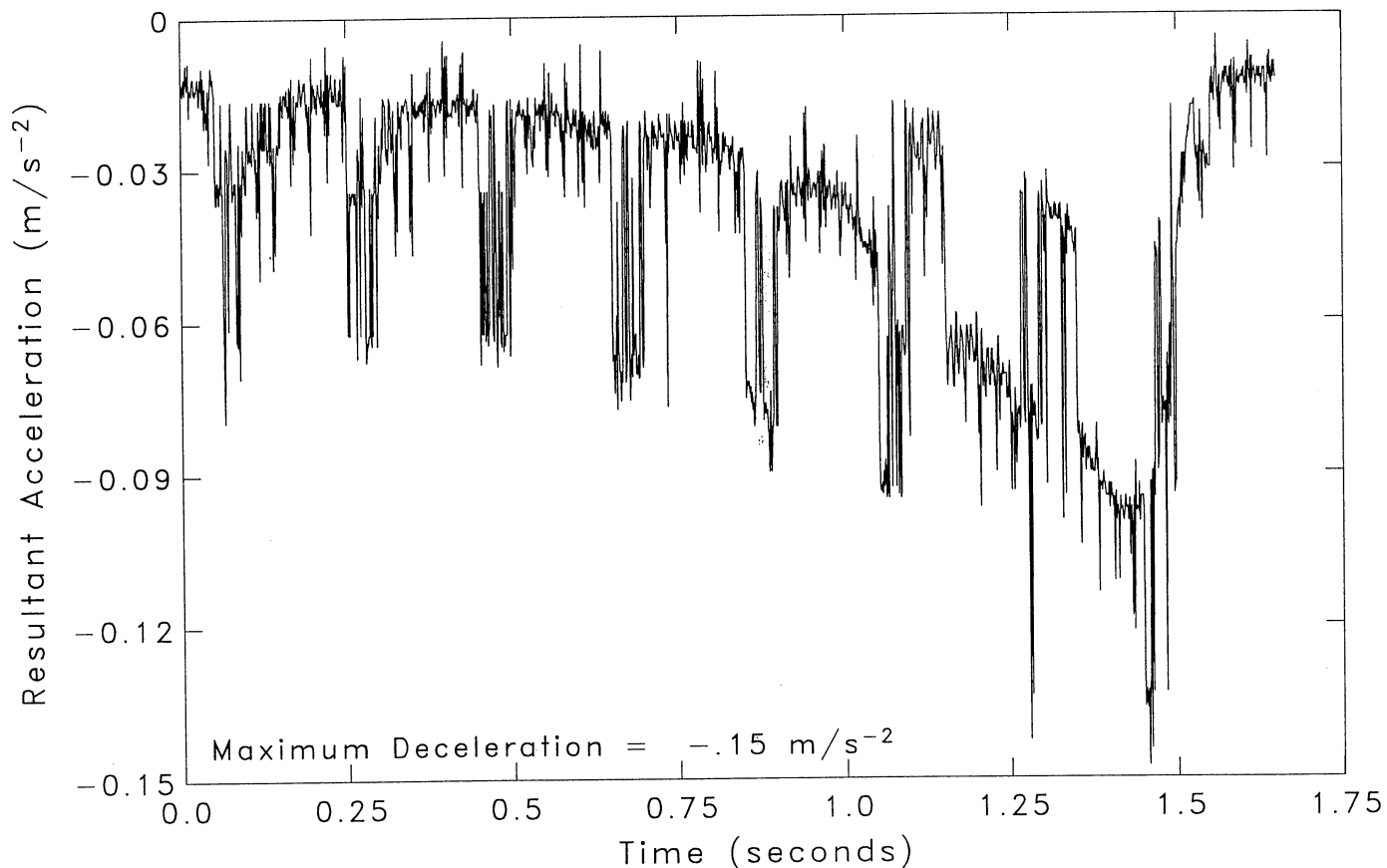
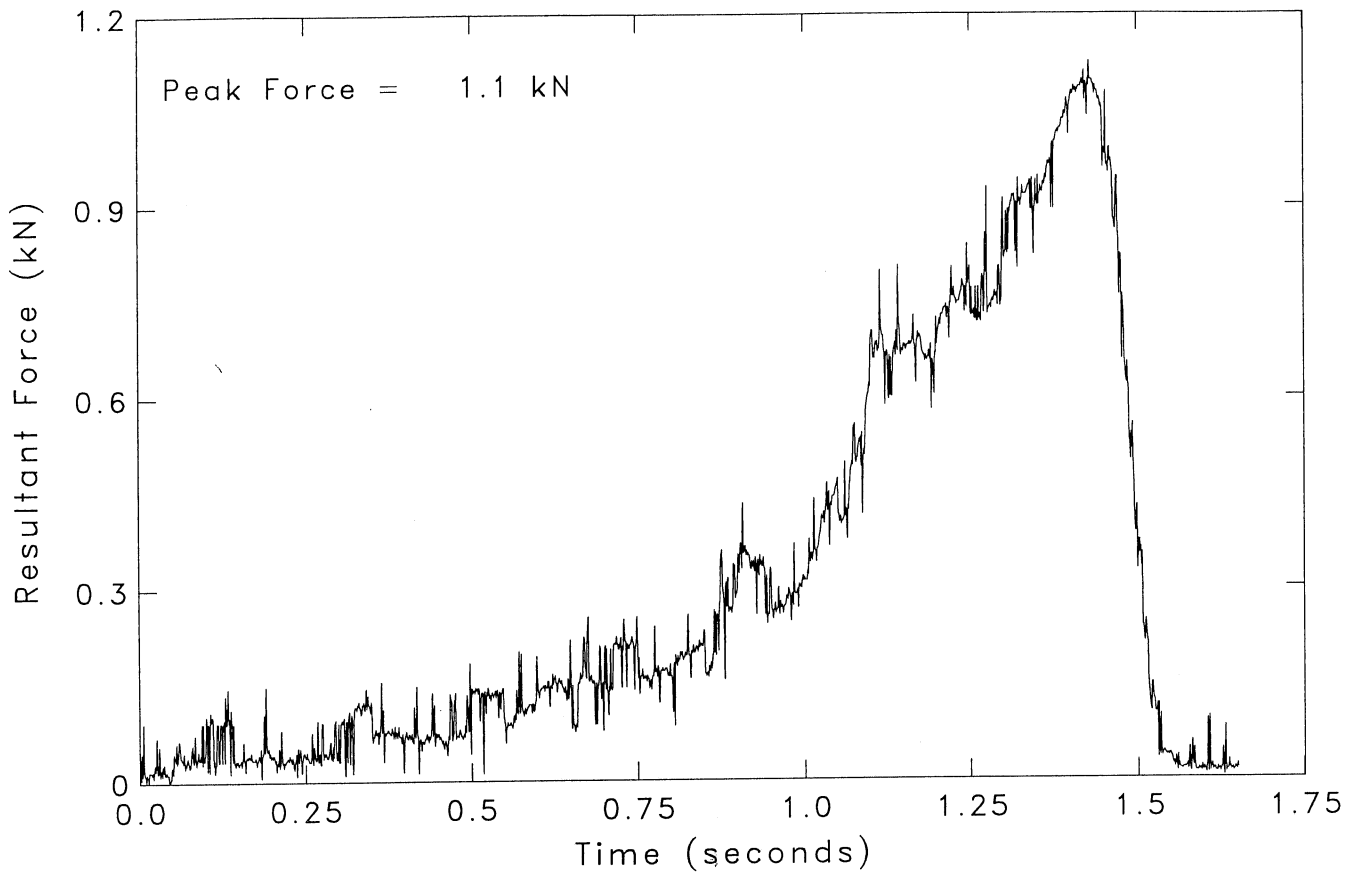
Pressure
Plate



Floe Velocity = 61mm/s
Floe Mass = 14.3t
Impact Edge Shape = straight

Exaggerated details for clarity

Test 3



CHC

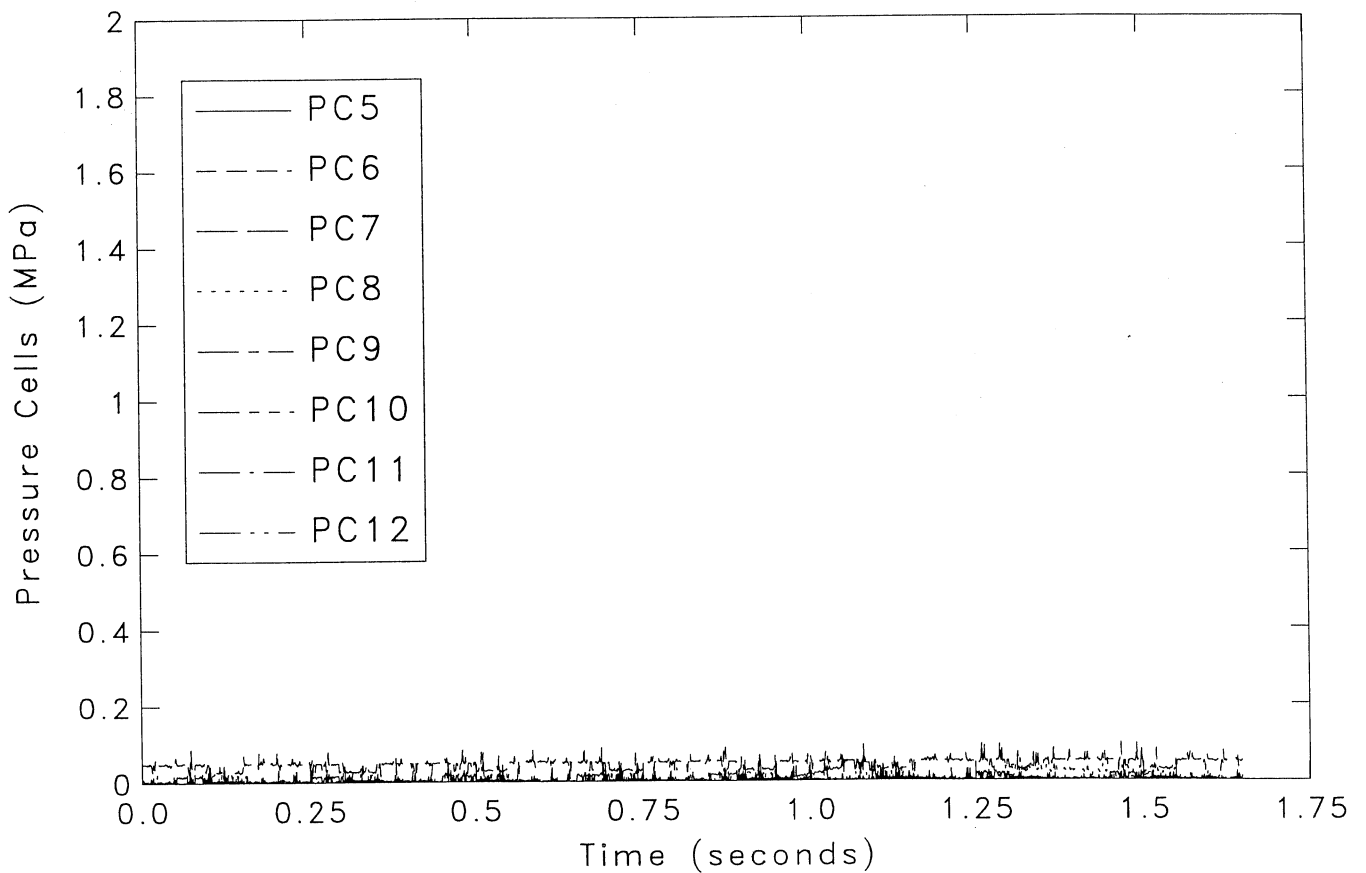
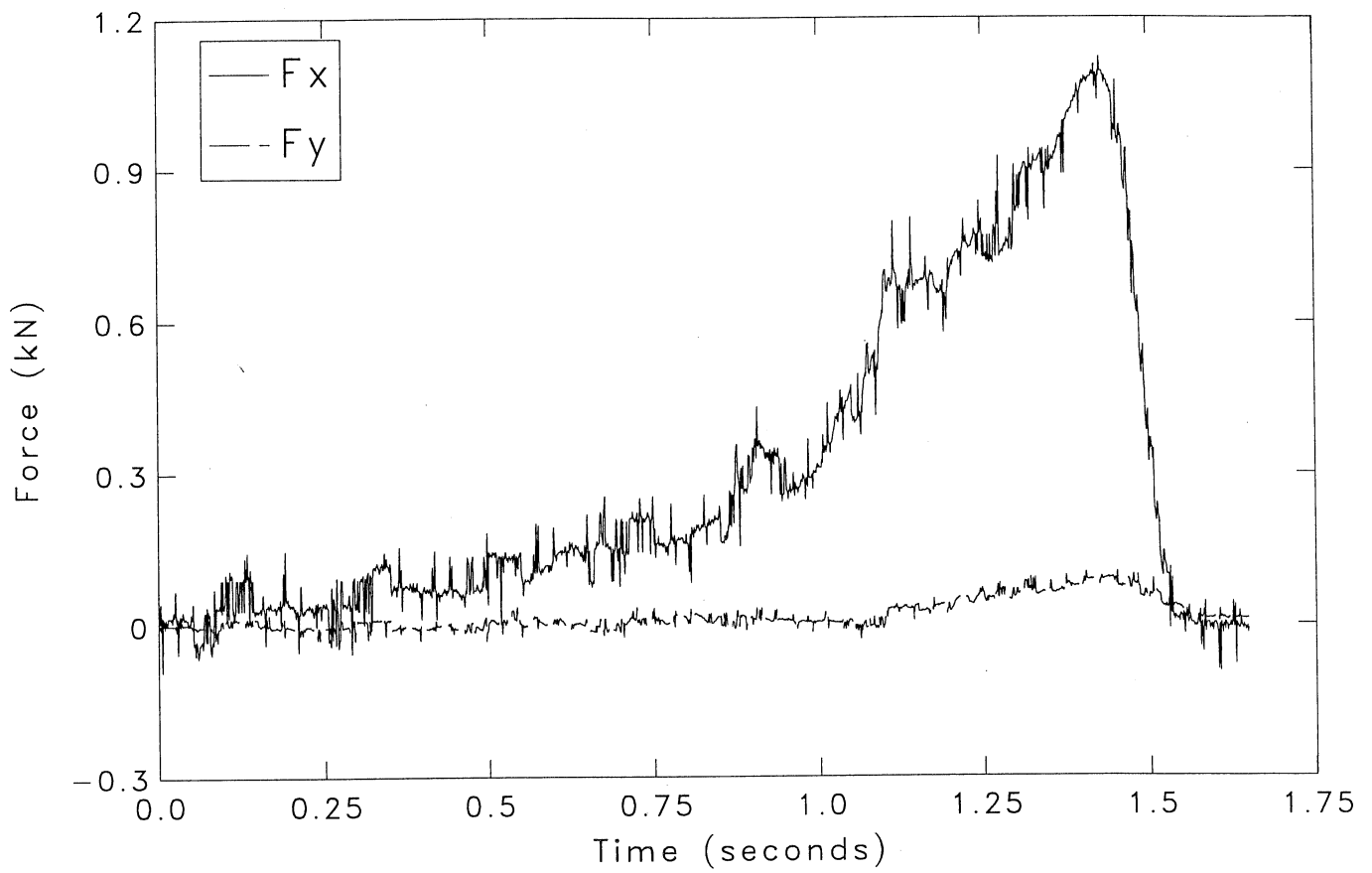
CANADIAN HYDRAULICS CENTRE
CENTRE D'HYDRAULIQUE CANADIEN

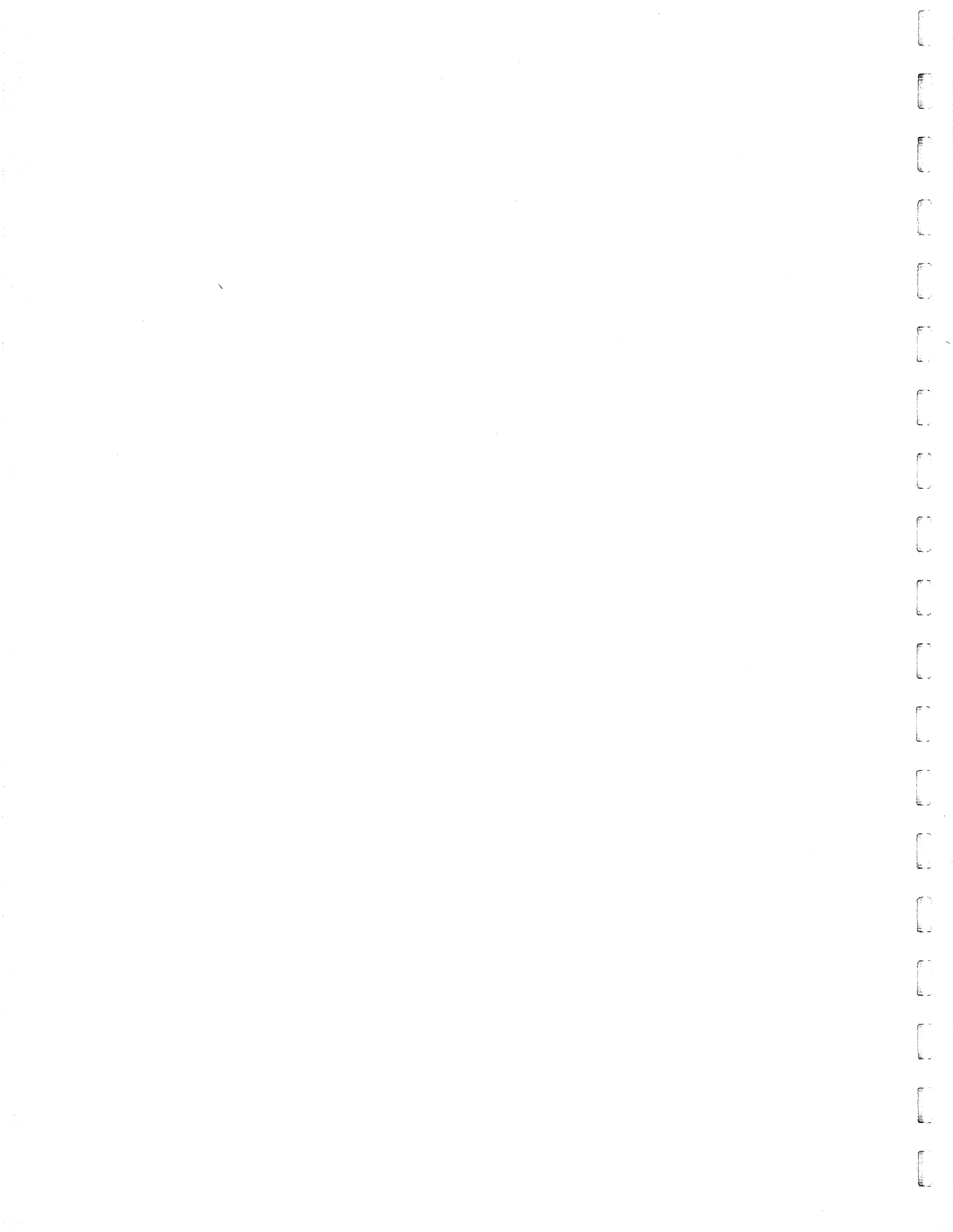
test_003



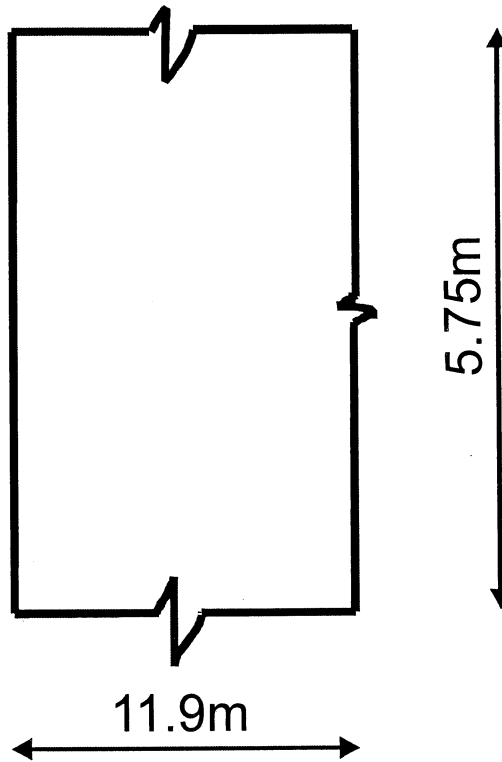
National Research
Council Canada

Conseil national
de recherches Canada





Pressure
Plate



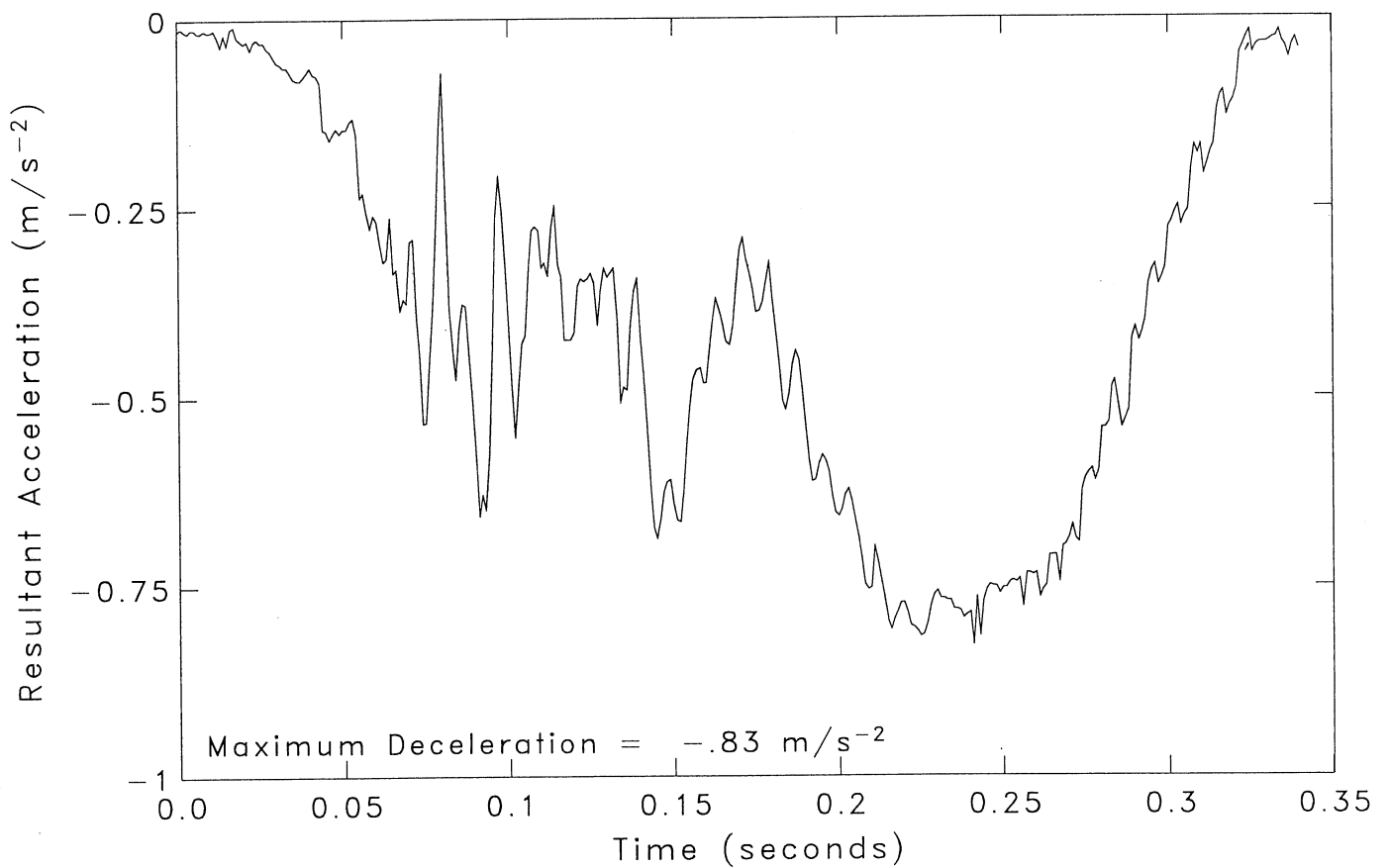
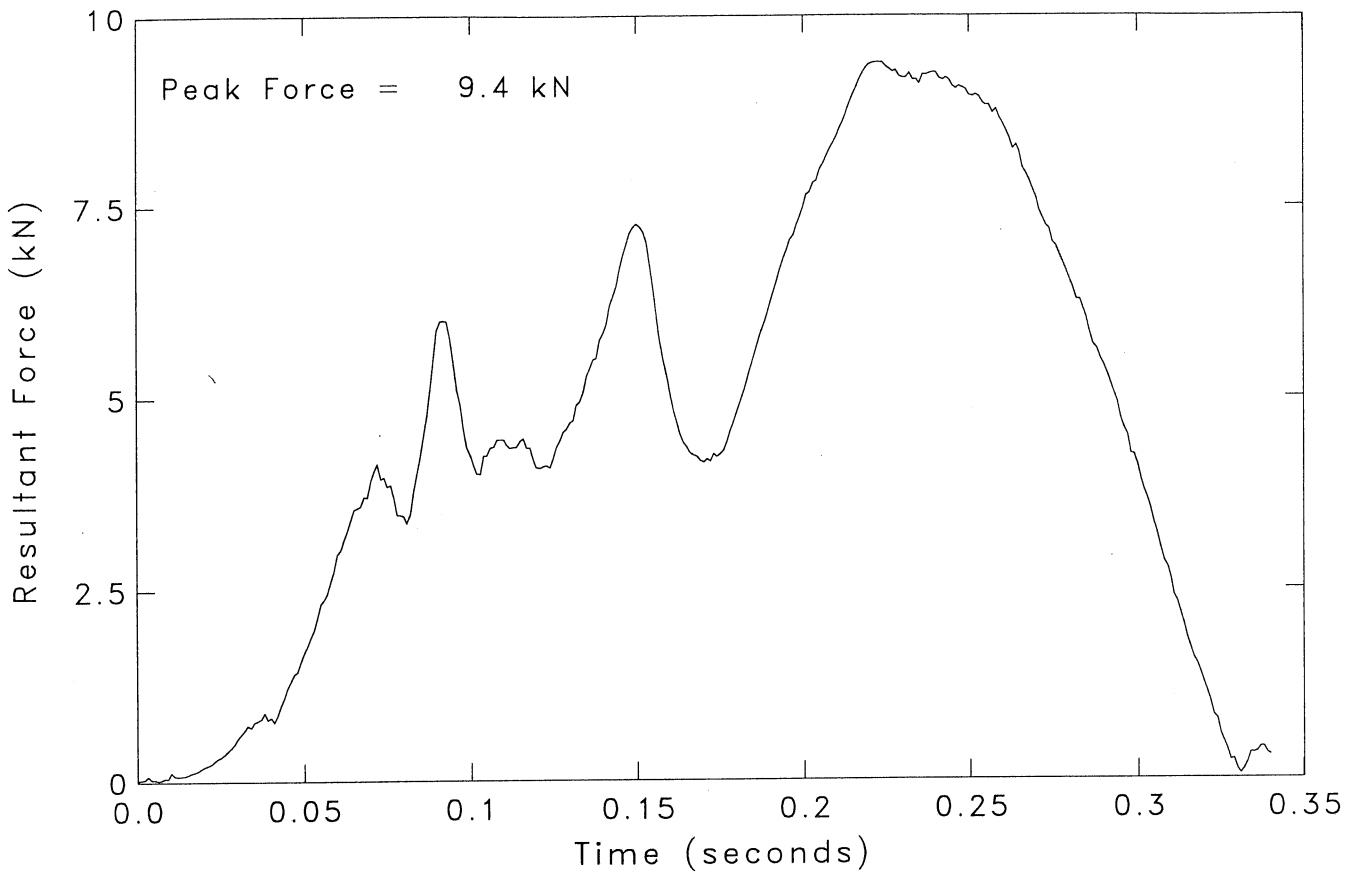
Floe Velocity = 97mm/s

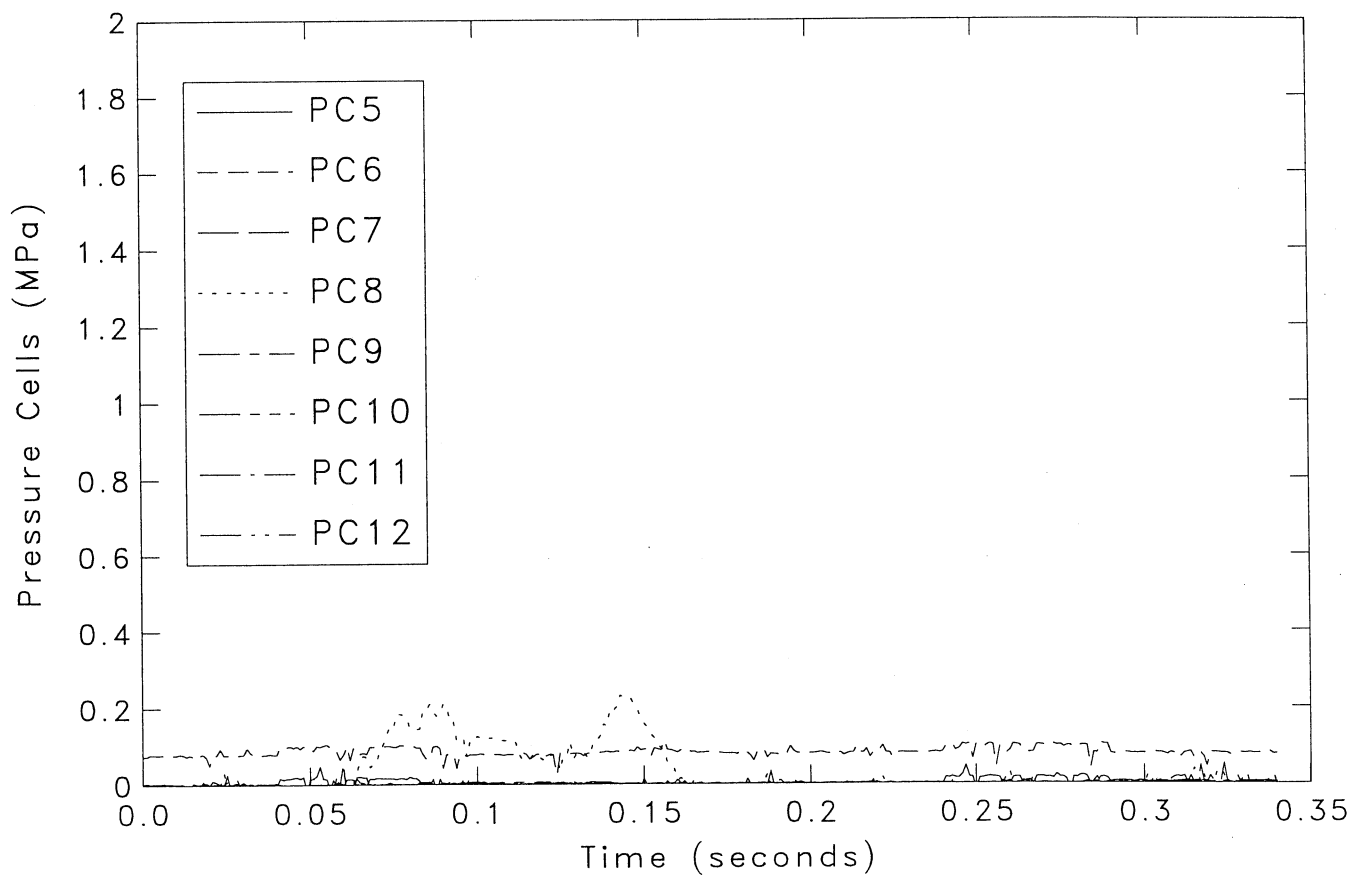
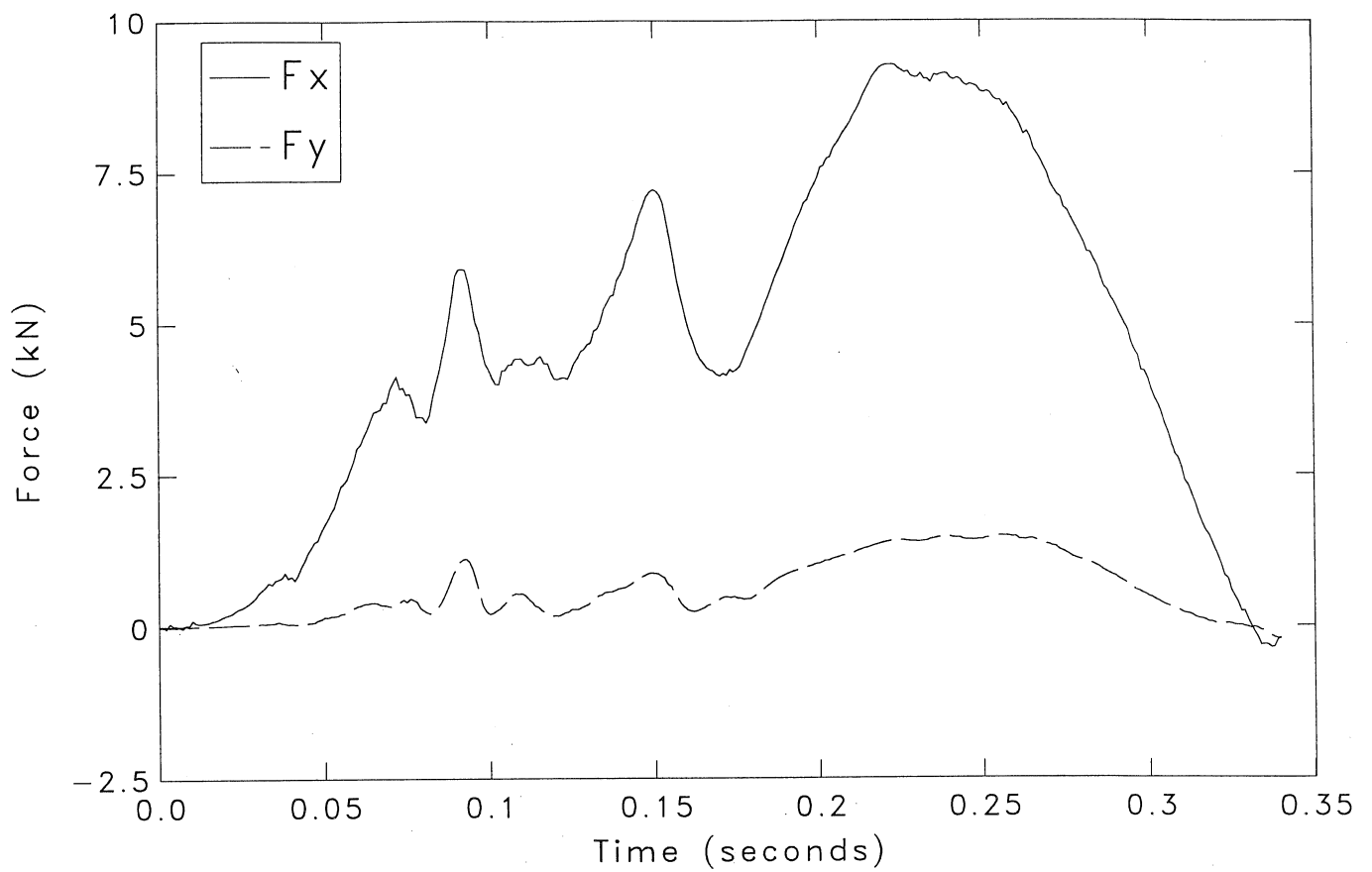
Floe Mass = 14.3t

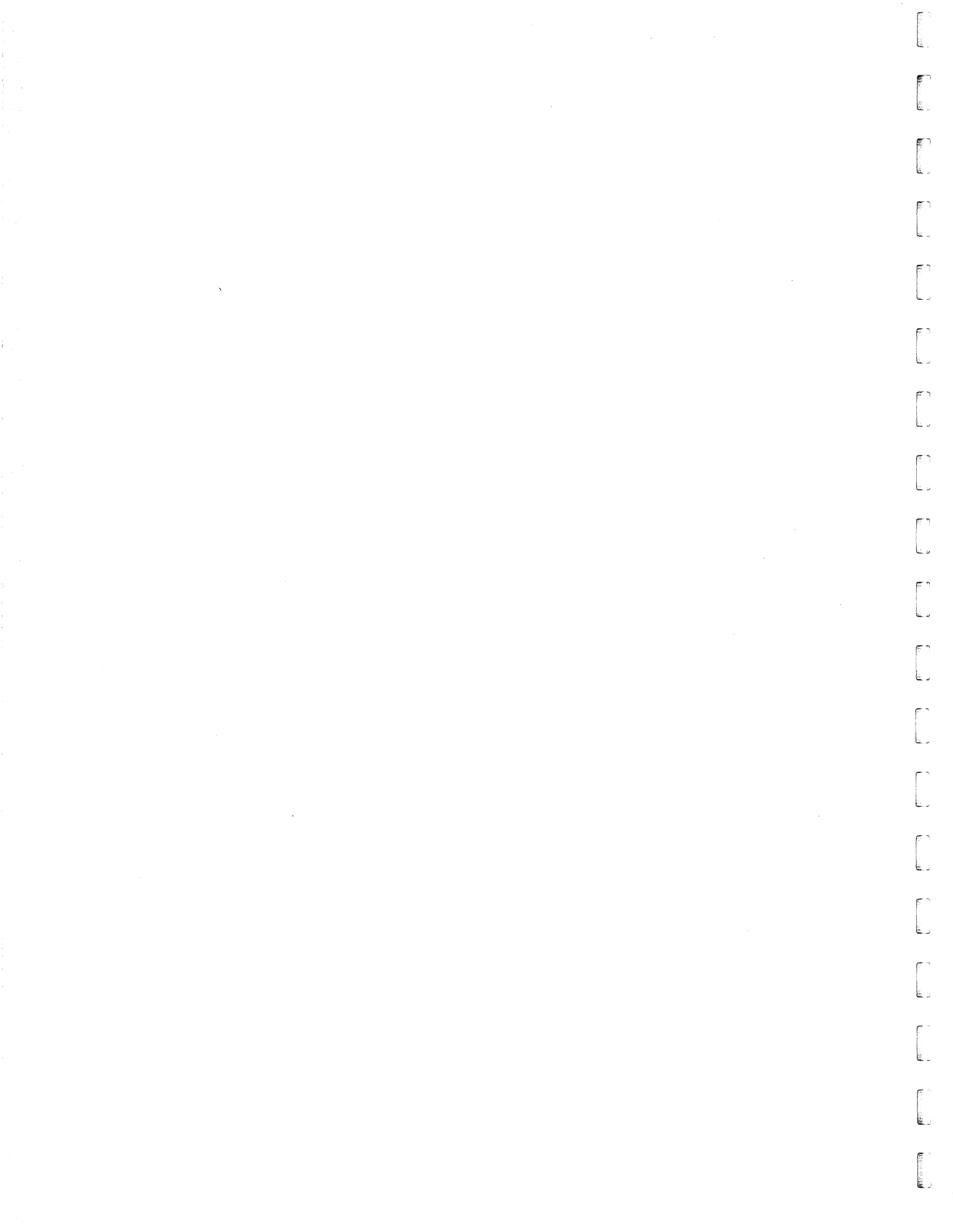
Impact Edge Shape = straight

Exaggerated details for clarity

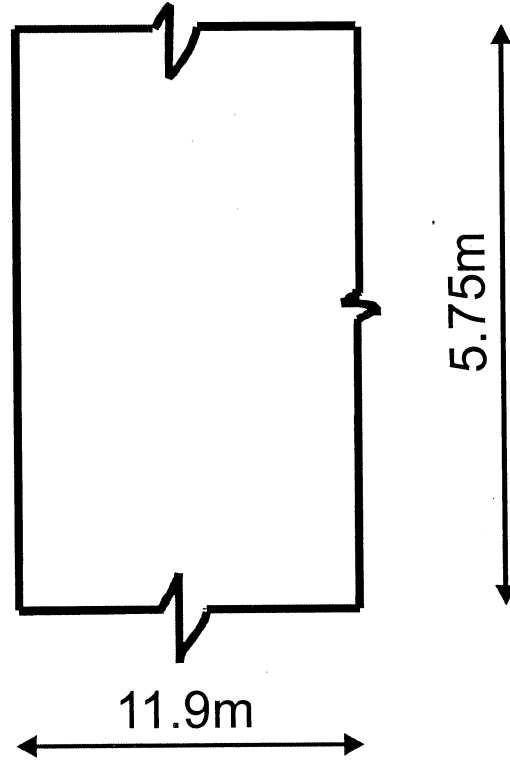
Test 4







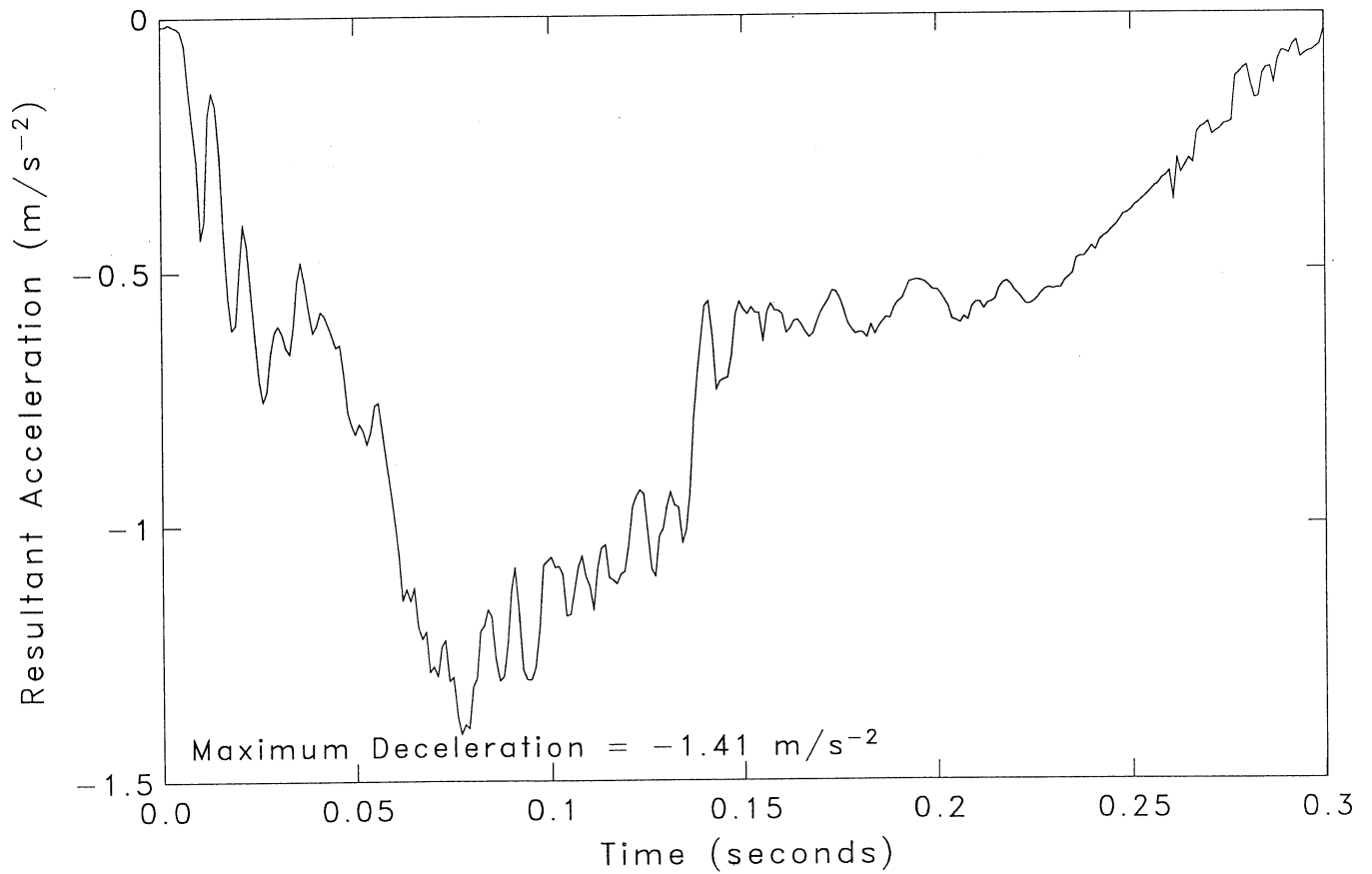
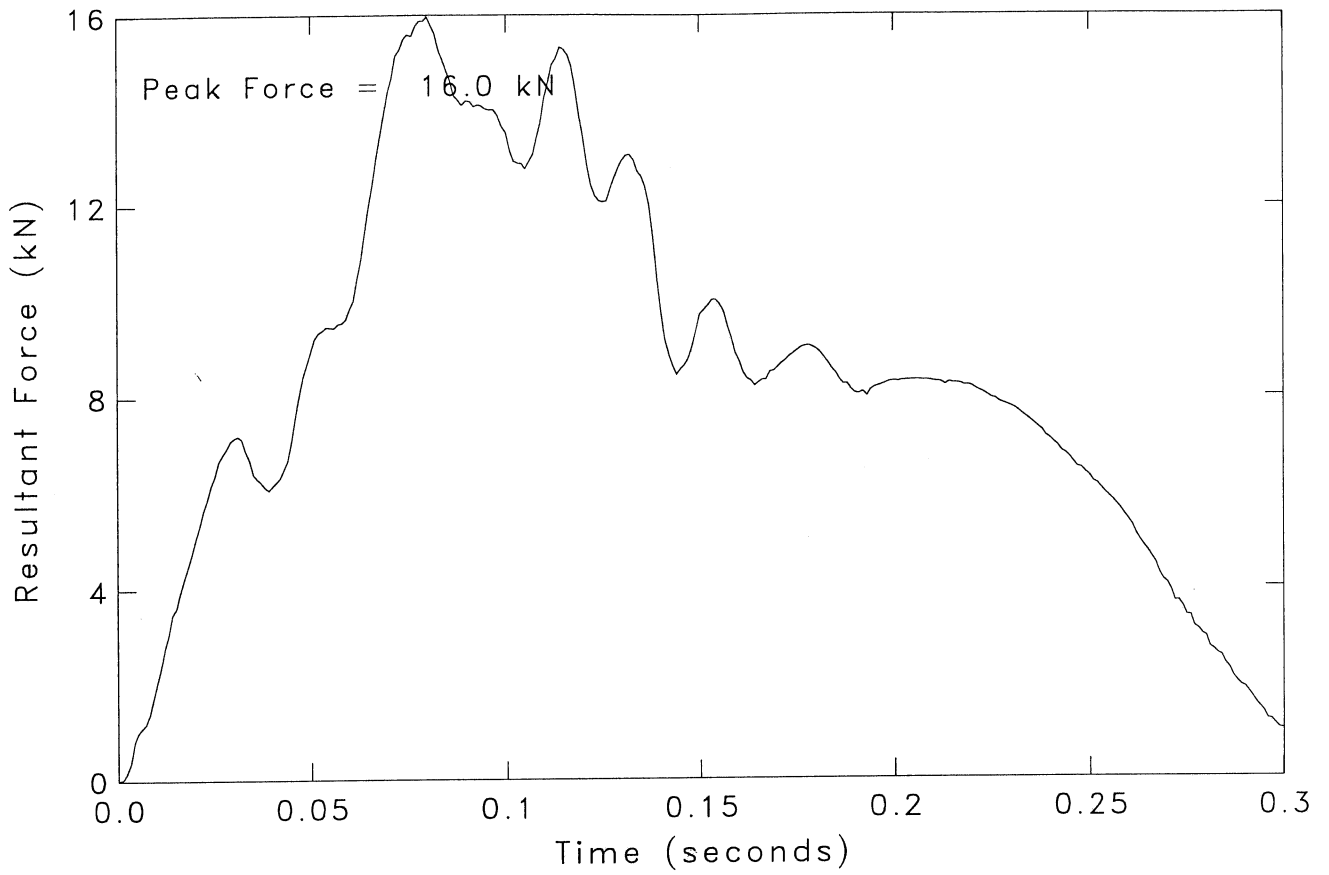
Pressure
Plate

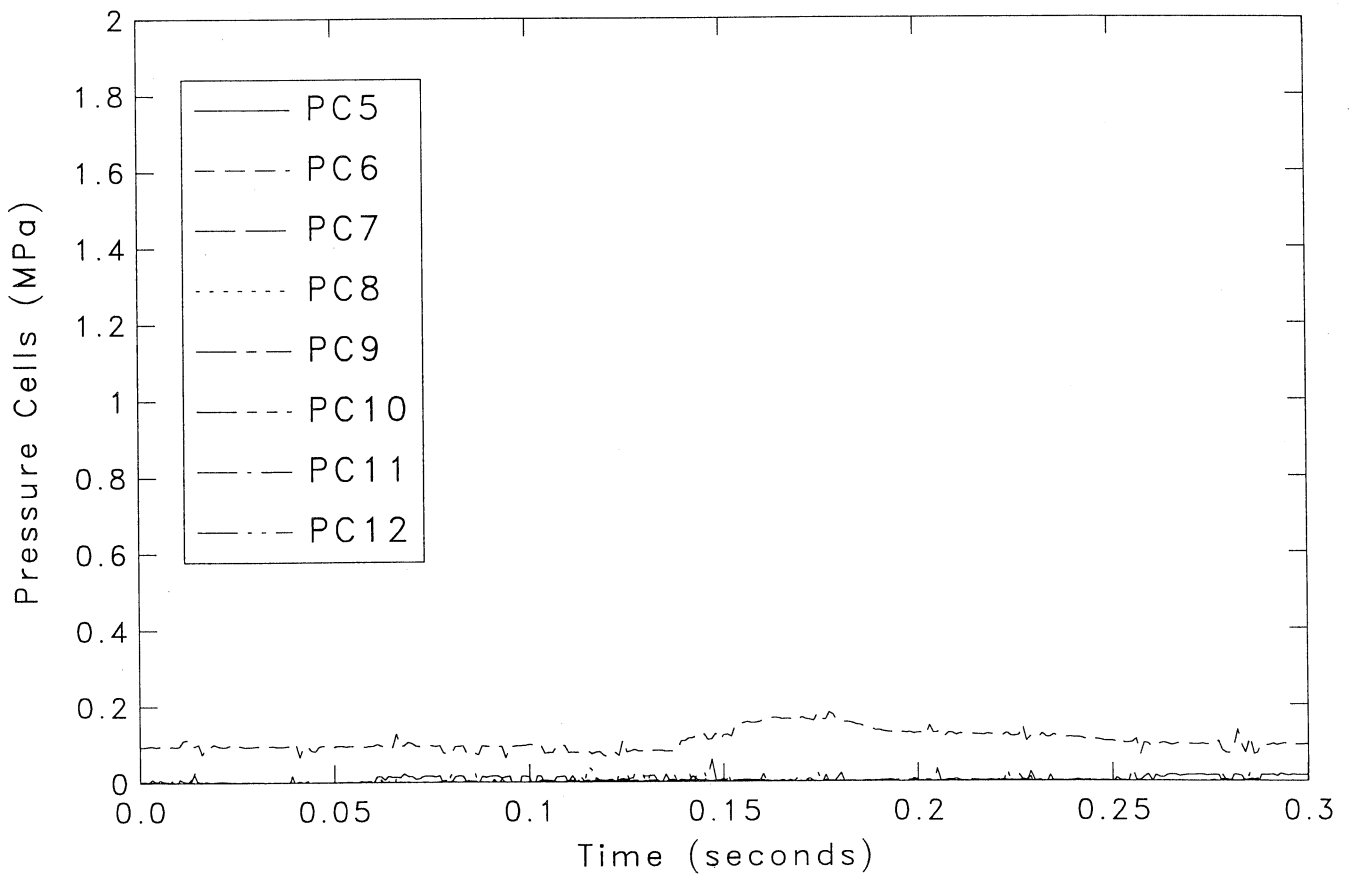


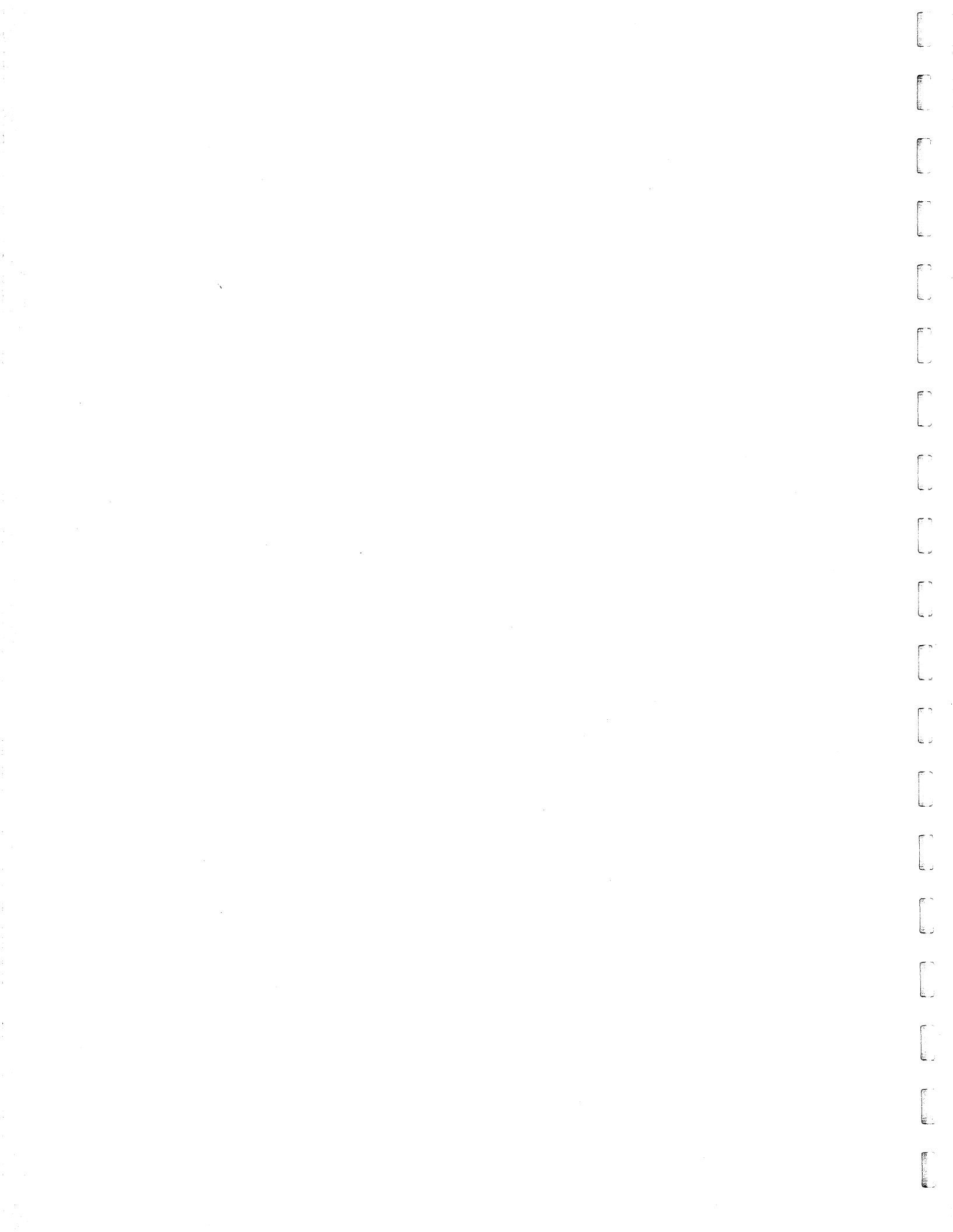
Floe Velocity = 129mm/s
Floe Mass = 14.3t
Impact Edge Shape = straight

Exaggerated details for clarity

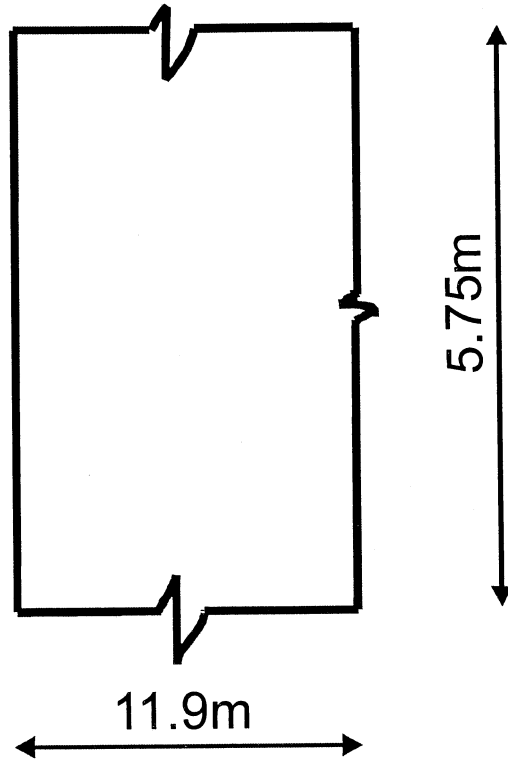
Test 5







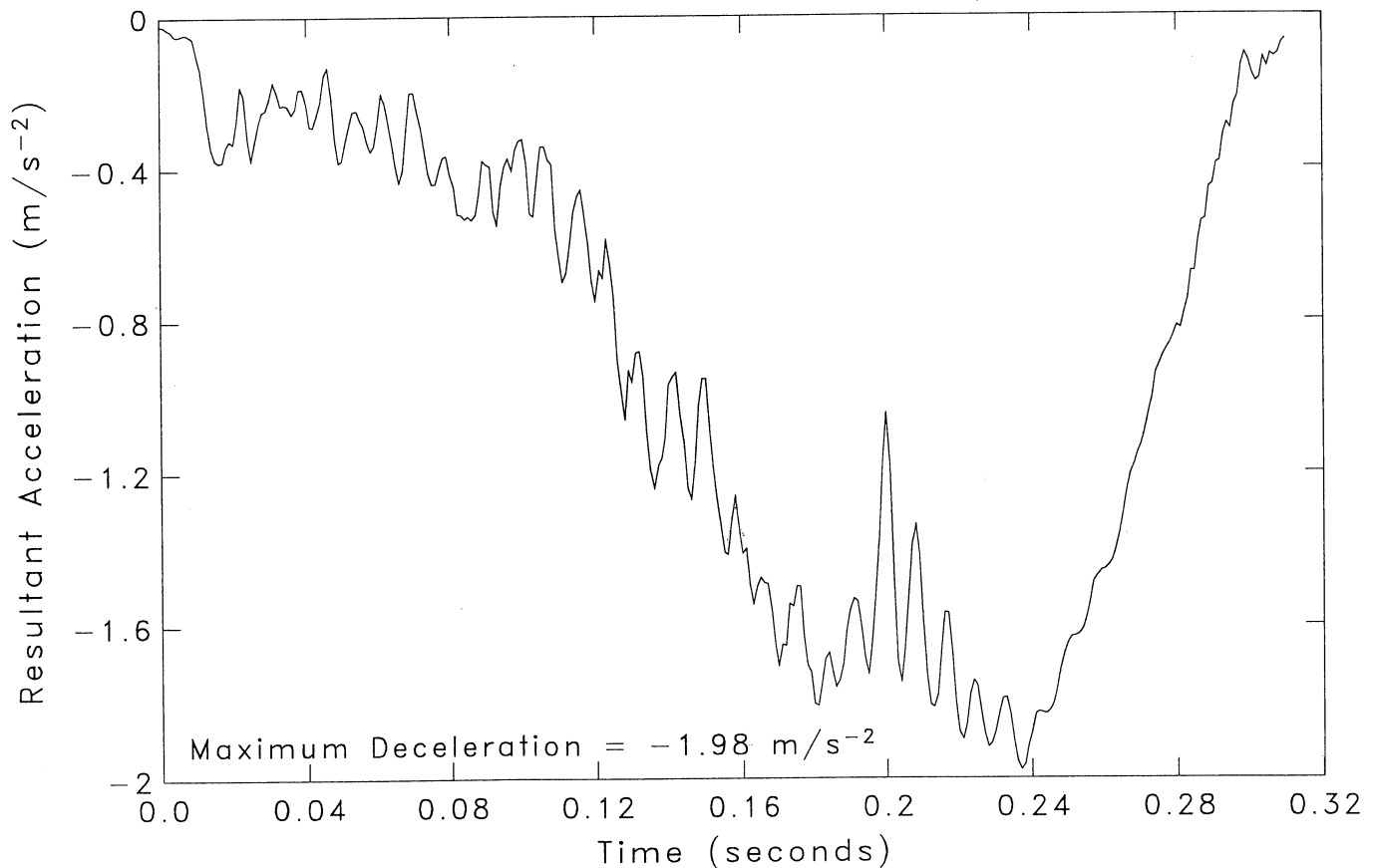
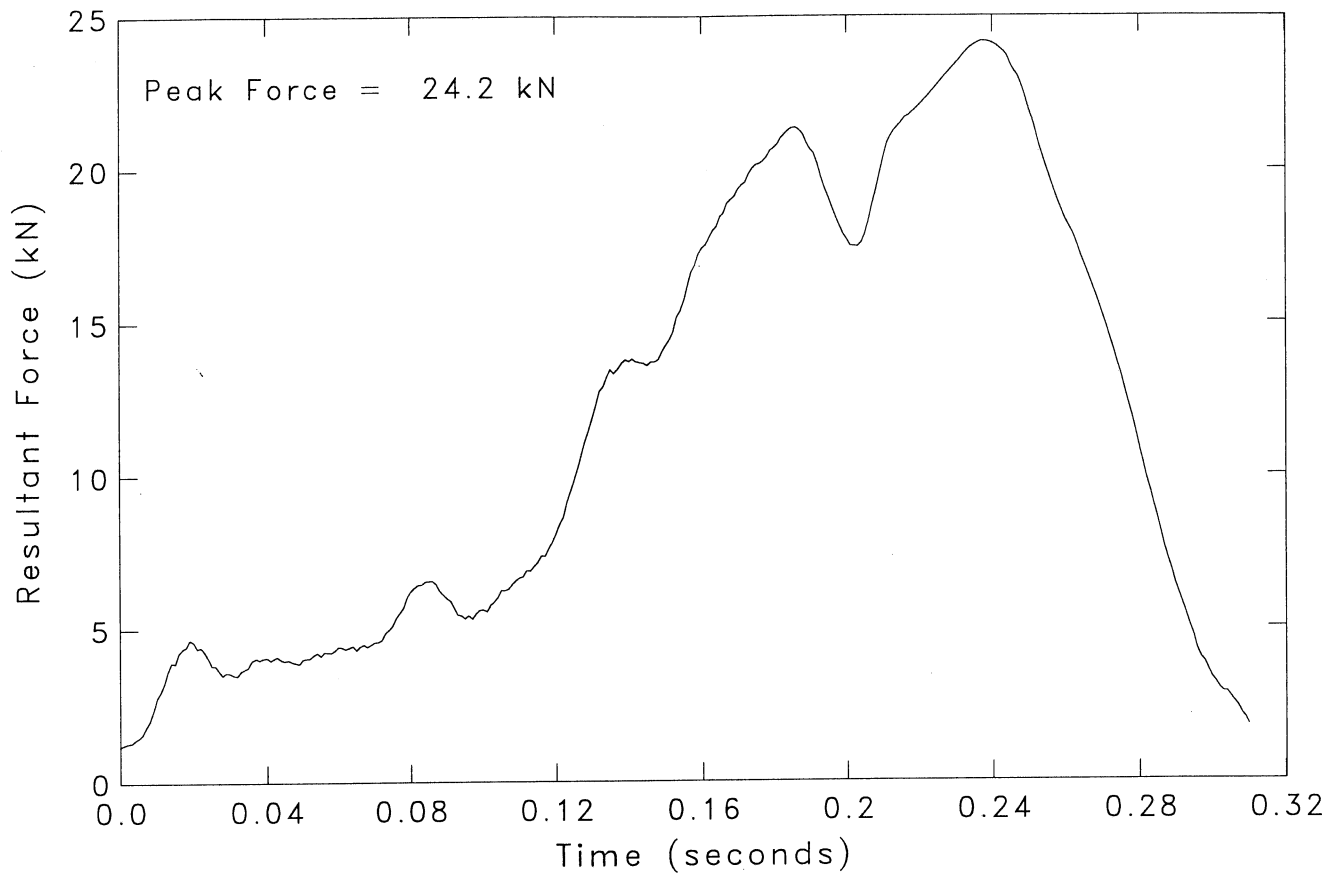
Pressure
Plate

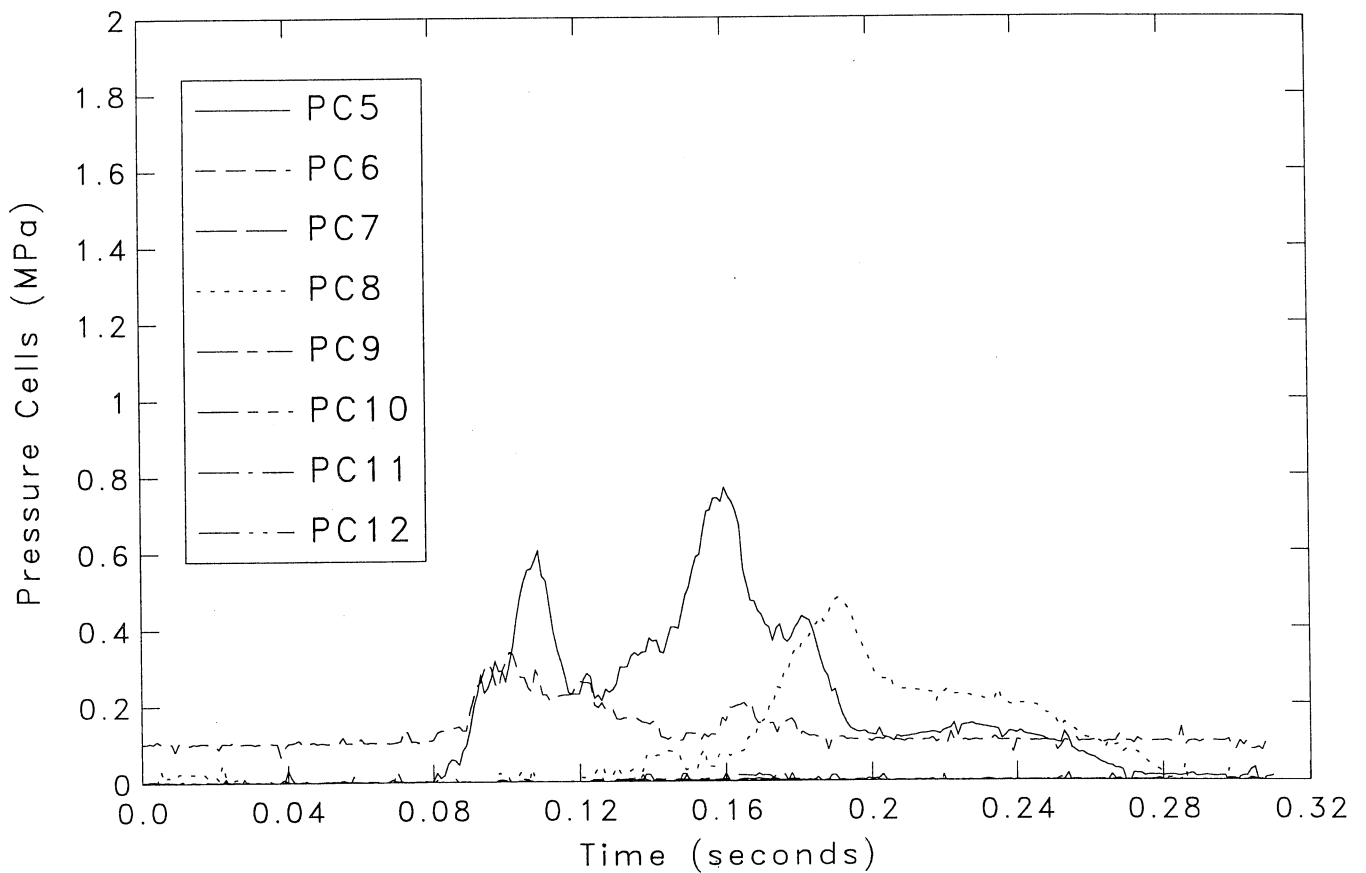
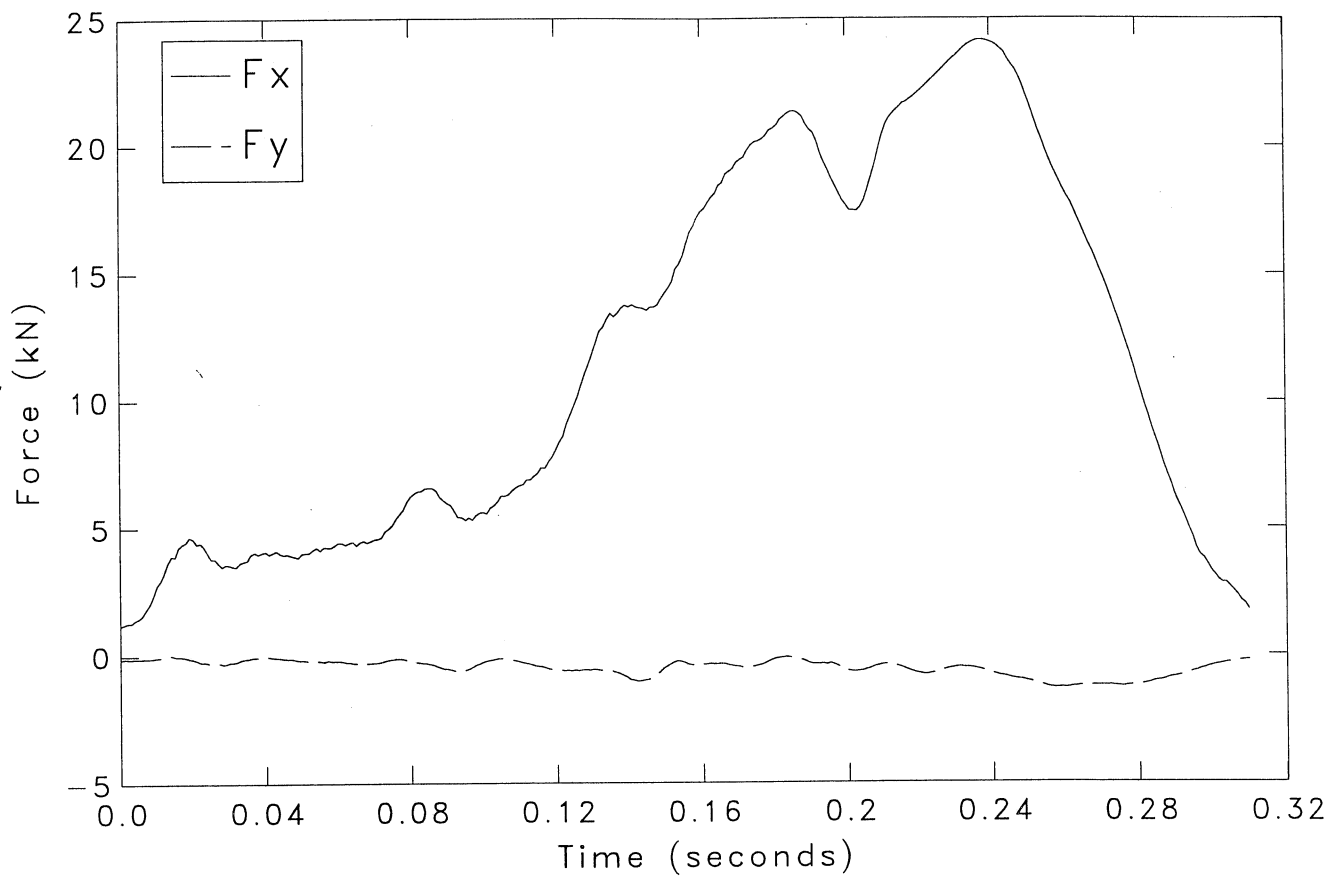


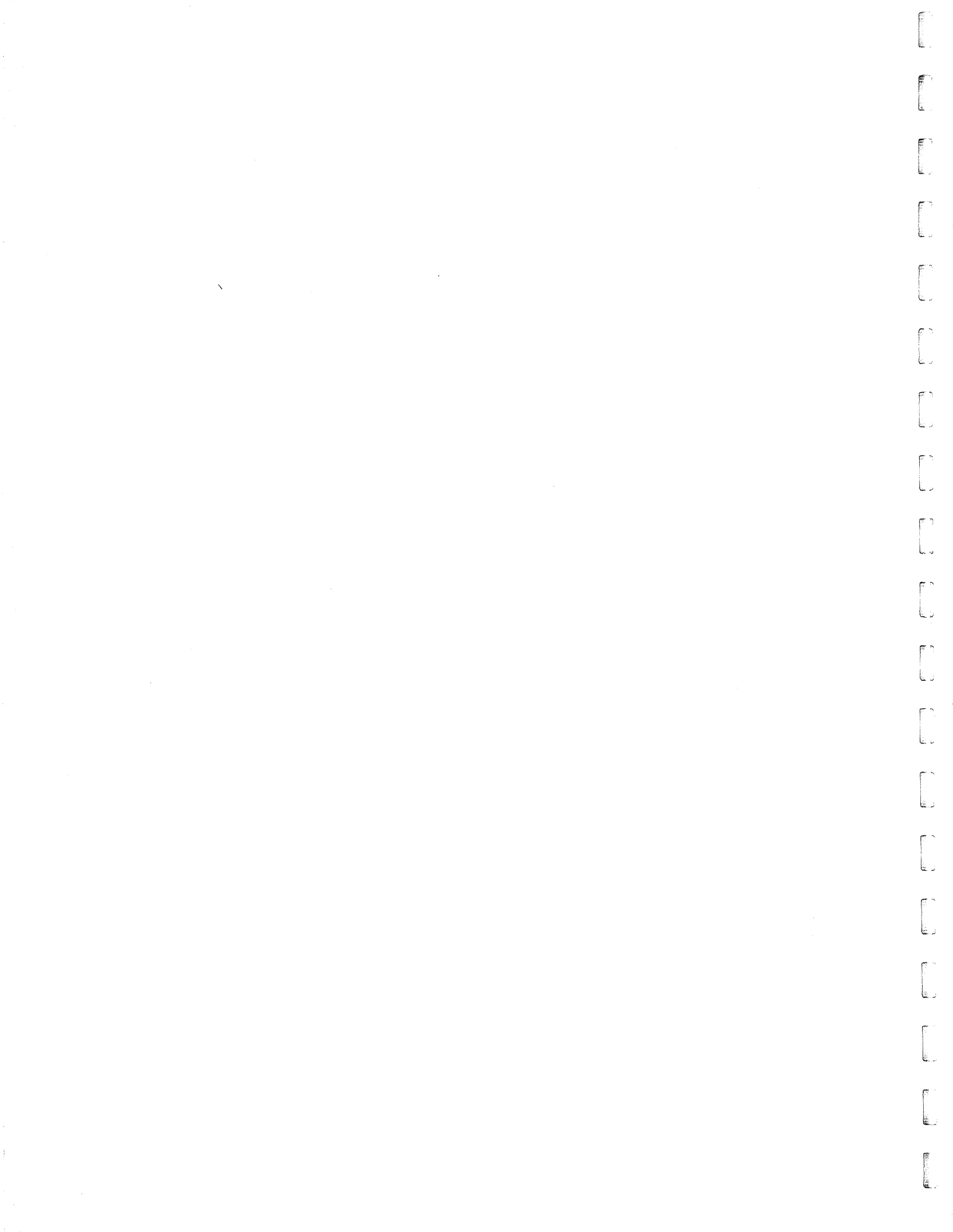
Floe Velocity = 234mm/s
Floe Mass = 14.3t
Impact Edge Shape = straight

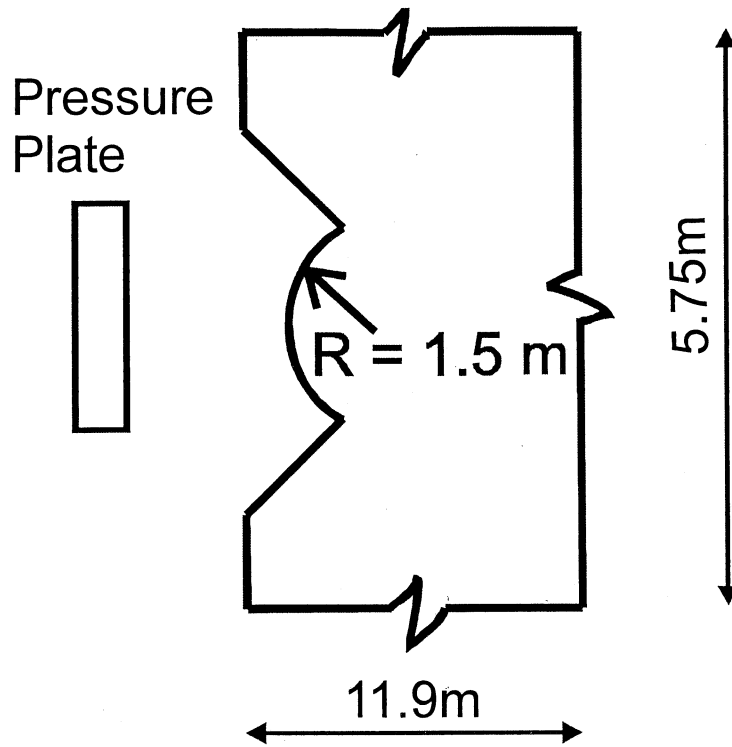
Exaggerated details for clarity

Test 6





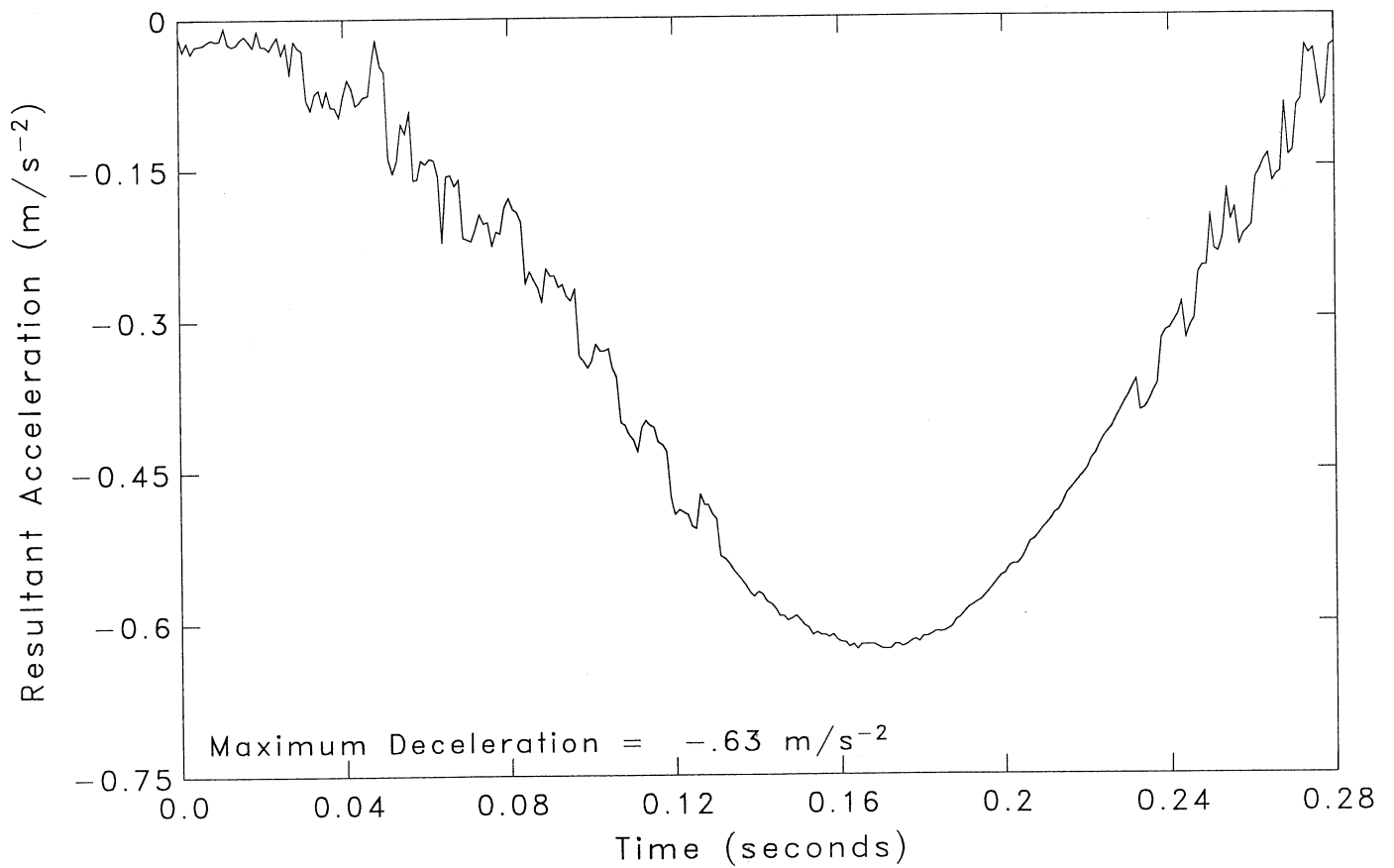
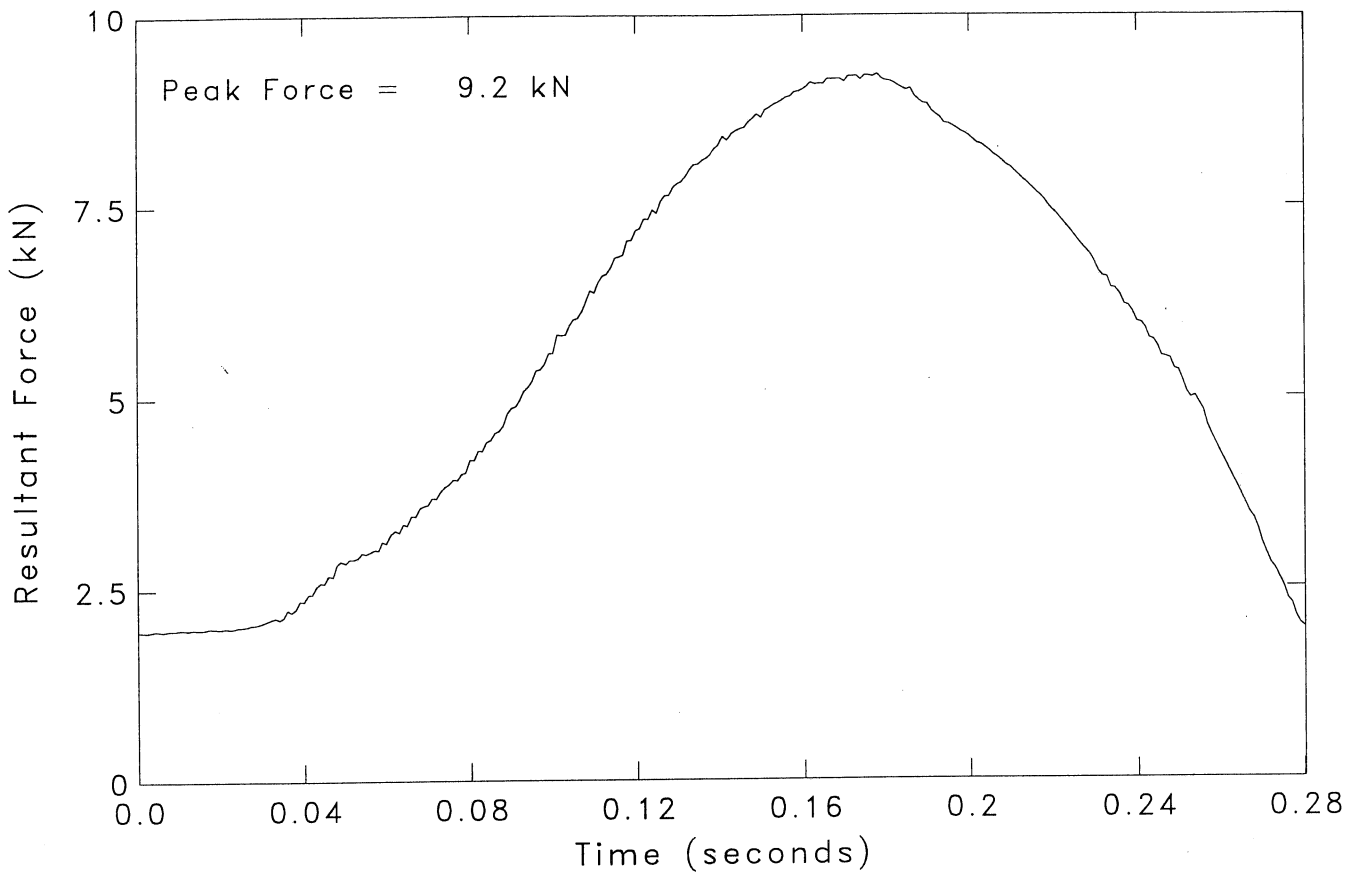


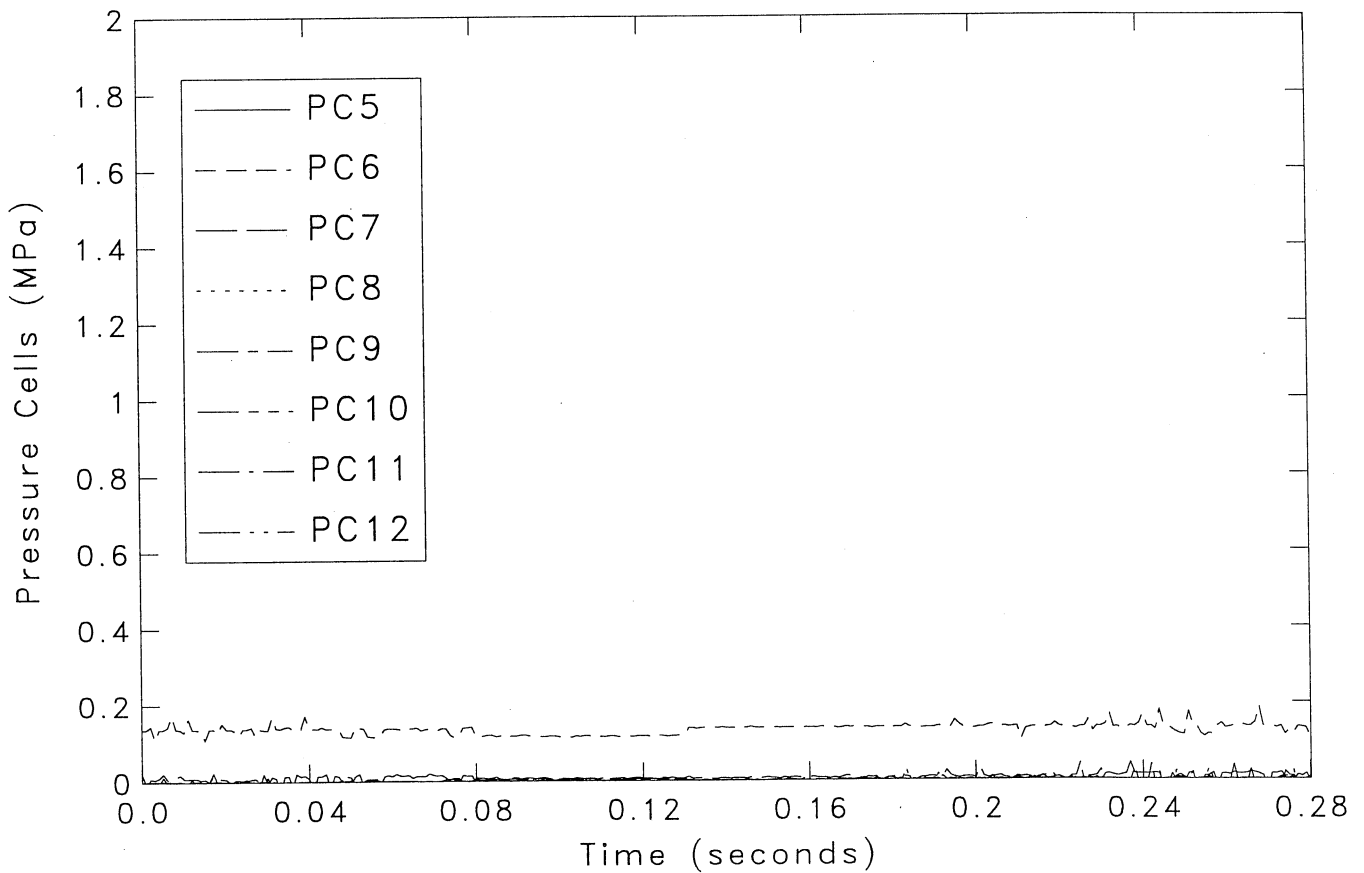
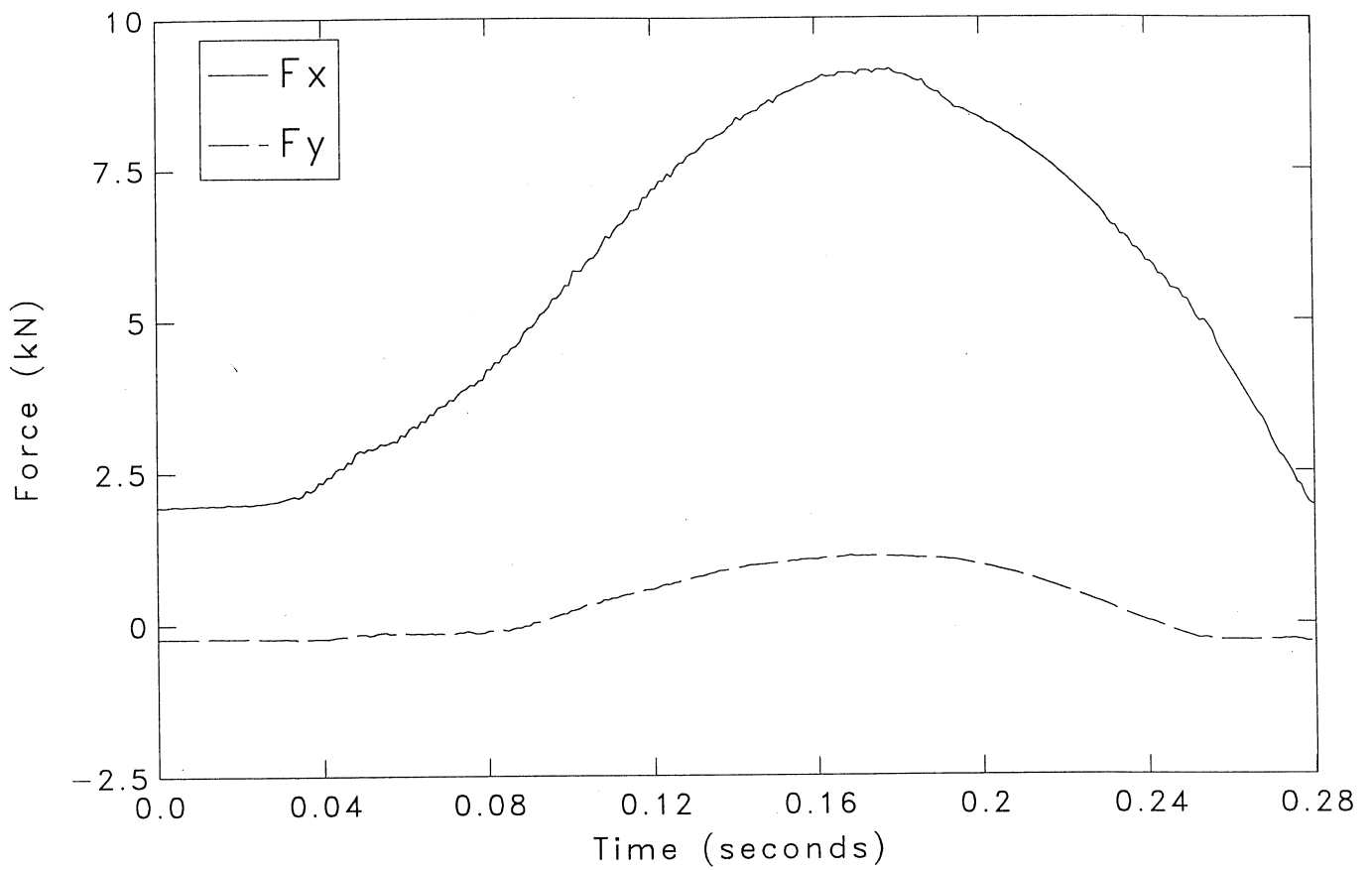


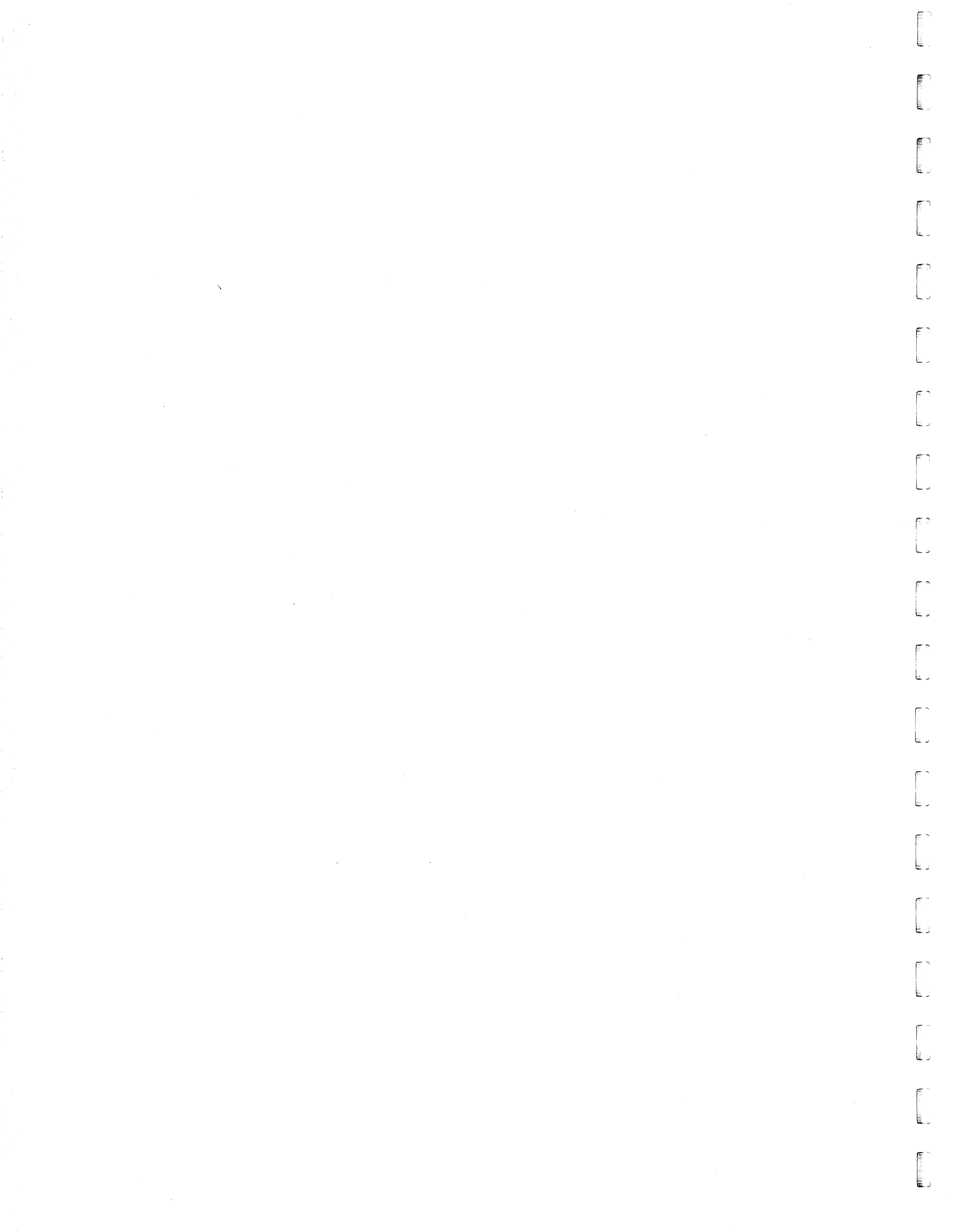
Floe Velocity = 52mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

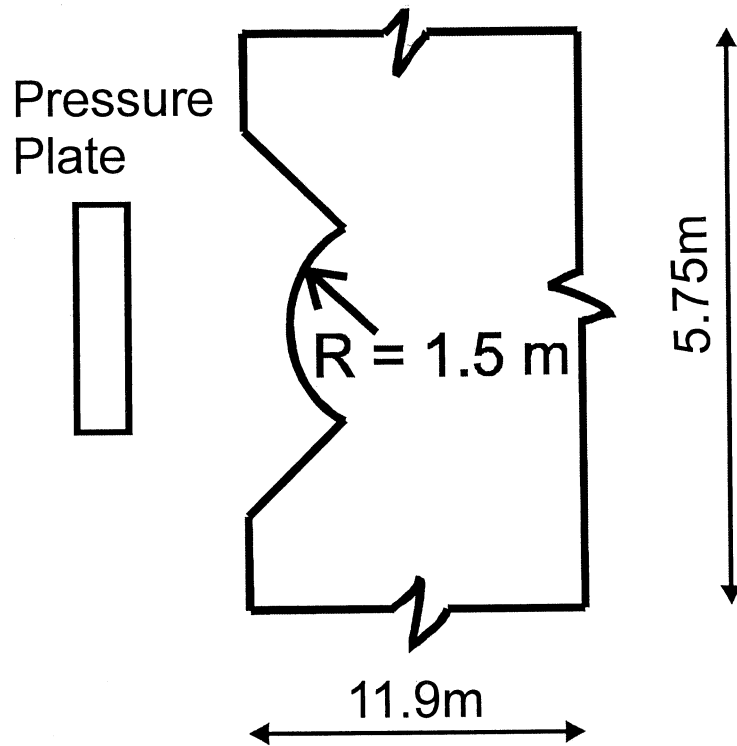
Exaggerated details for clarity

Test 7





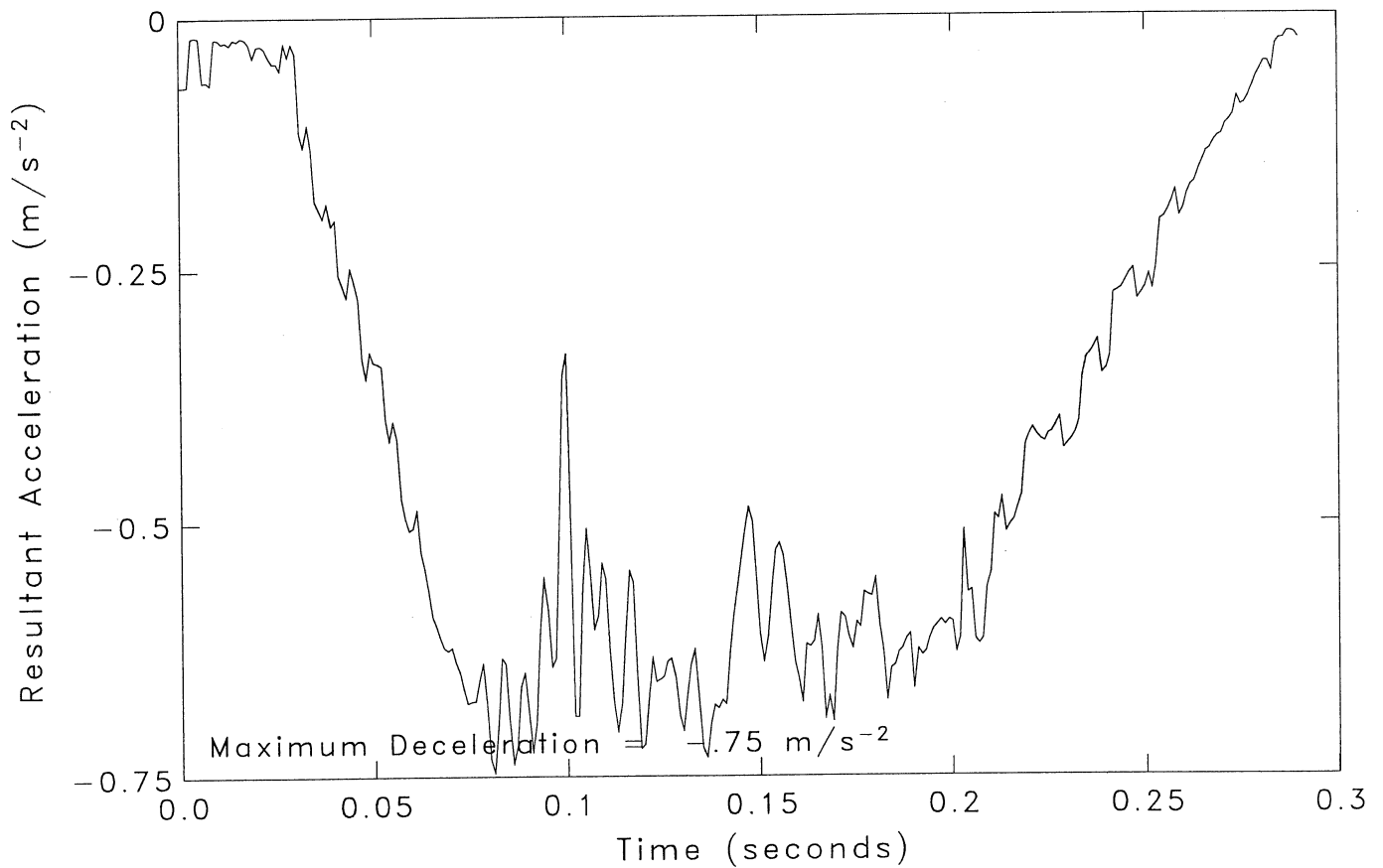
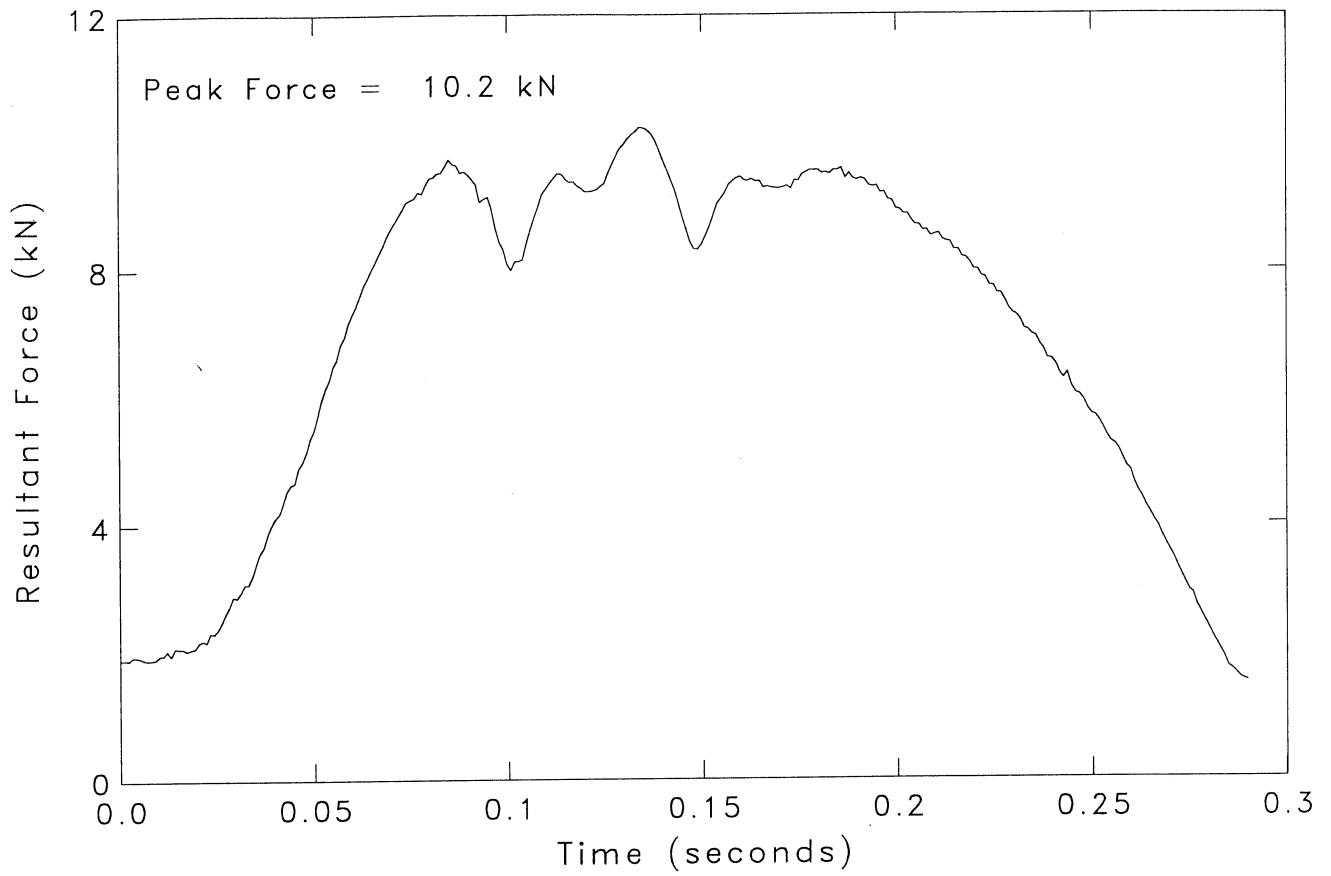


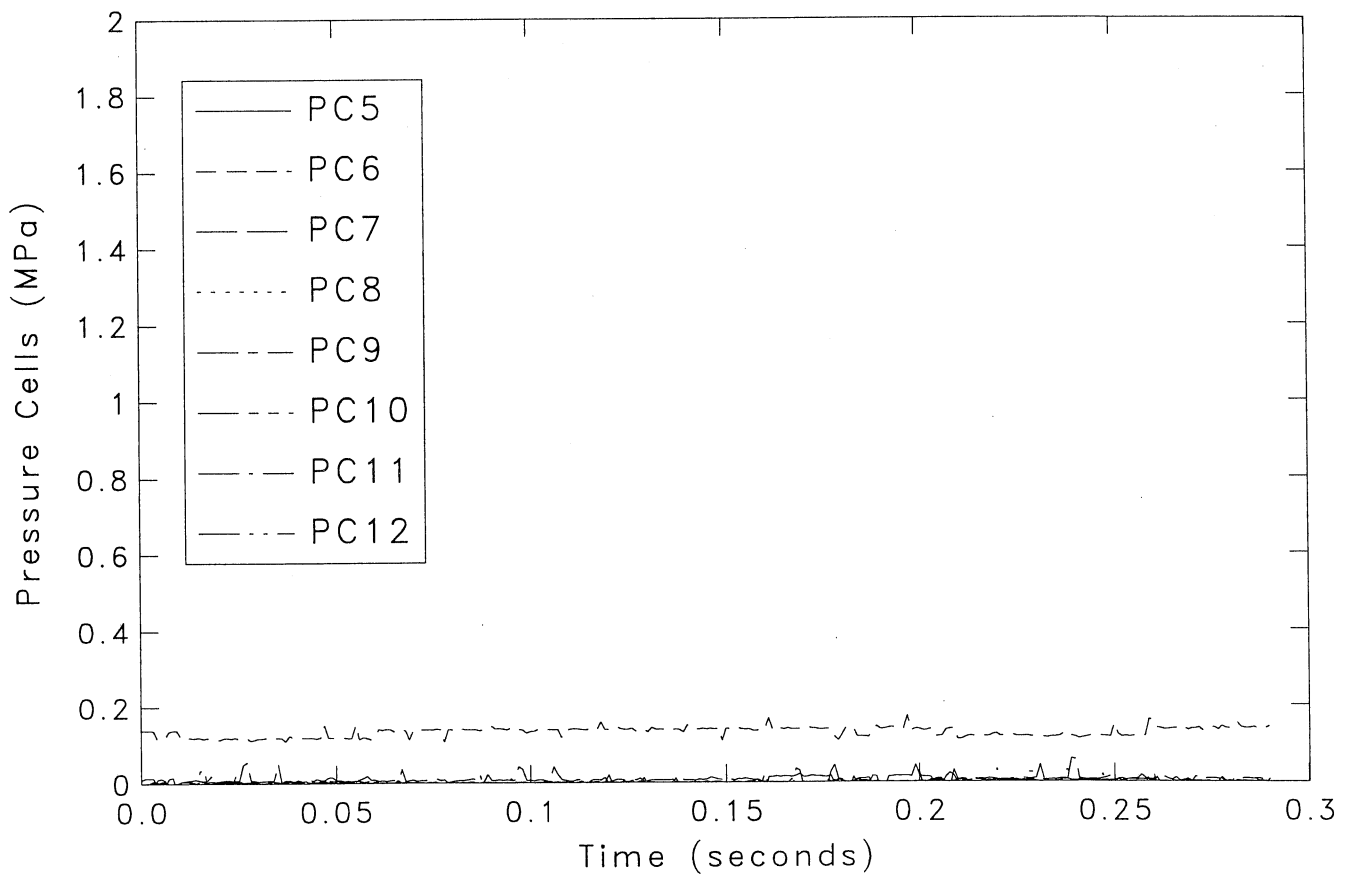
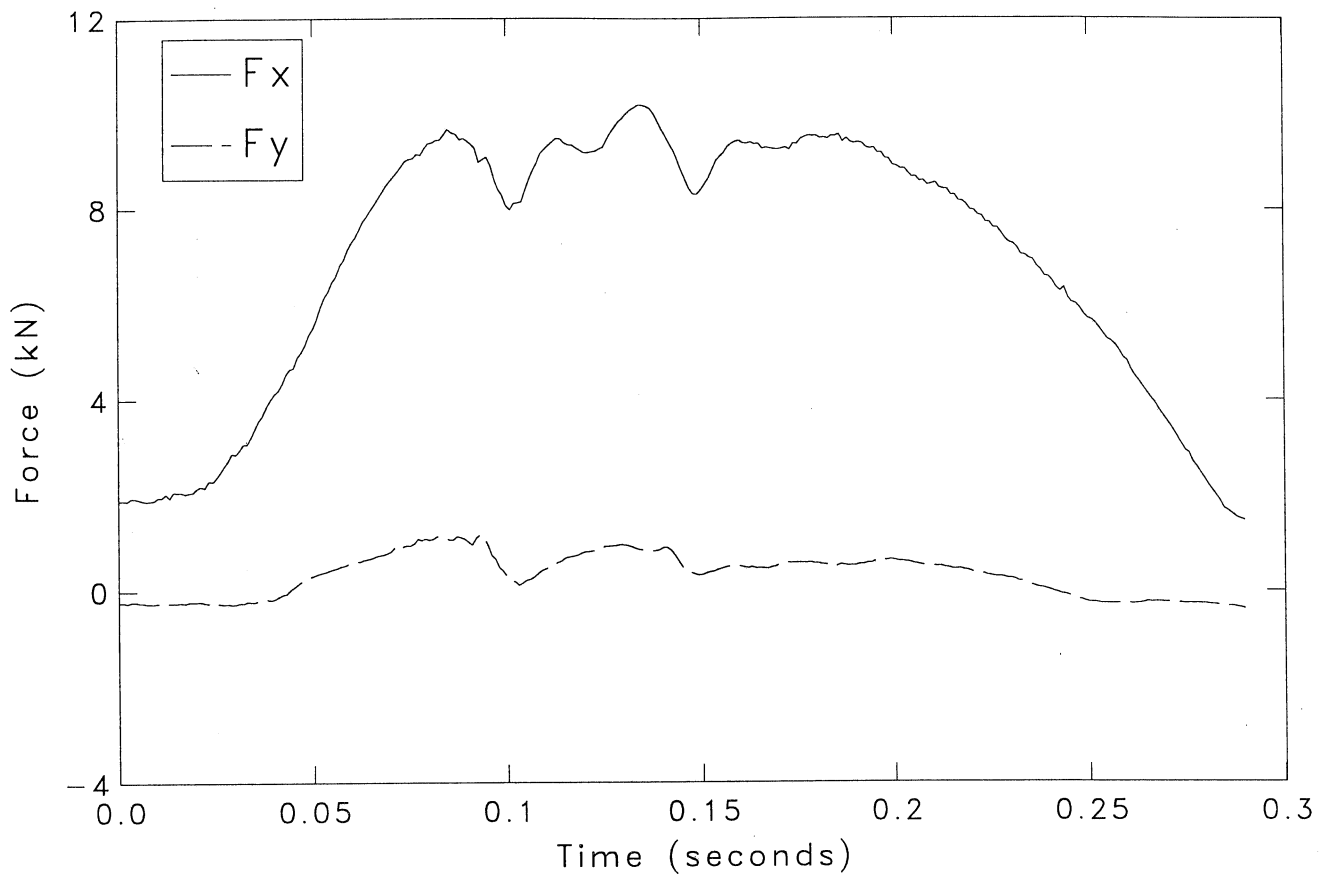


Floe Velocity = 109mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

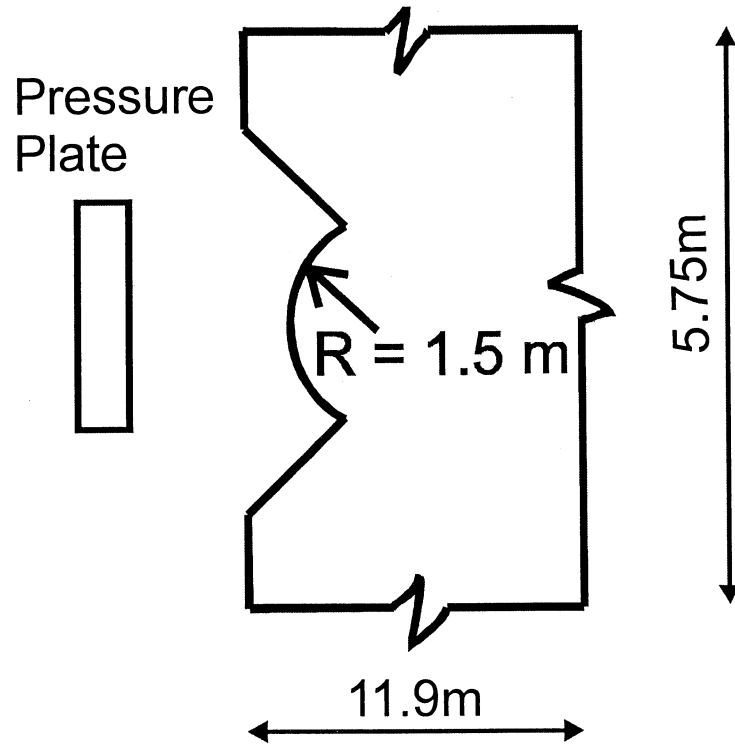
Exaggerated details for clarity

Test 8





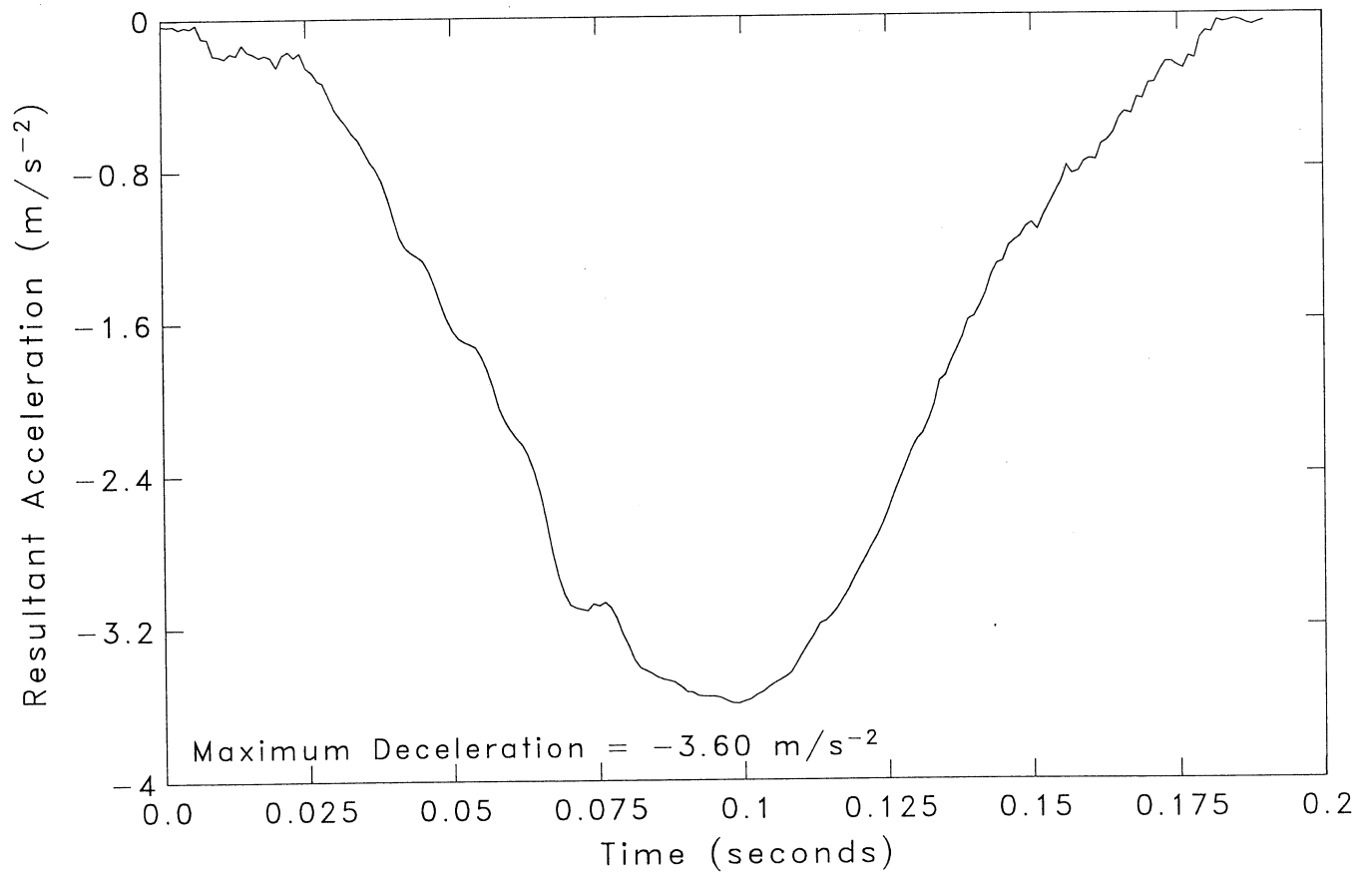
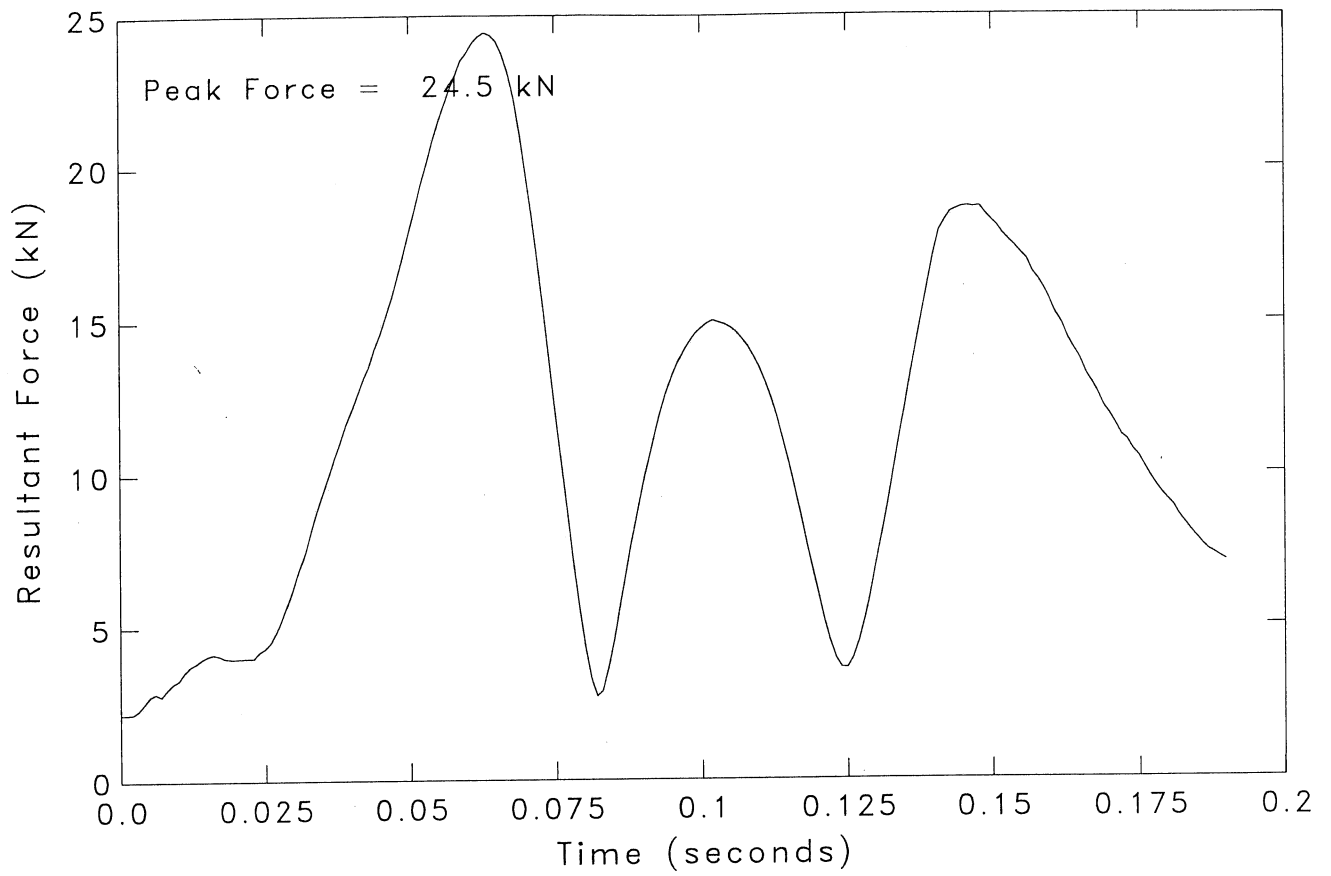


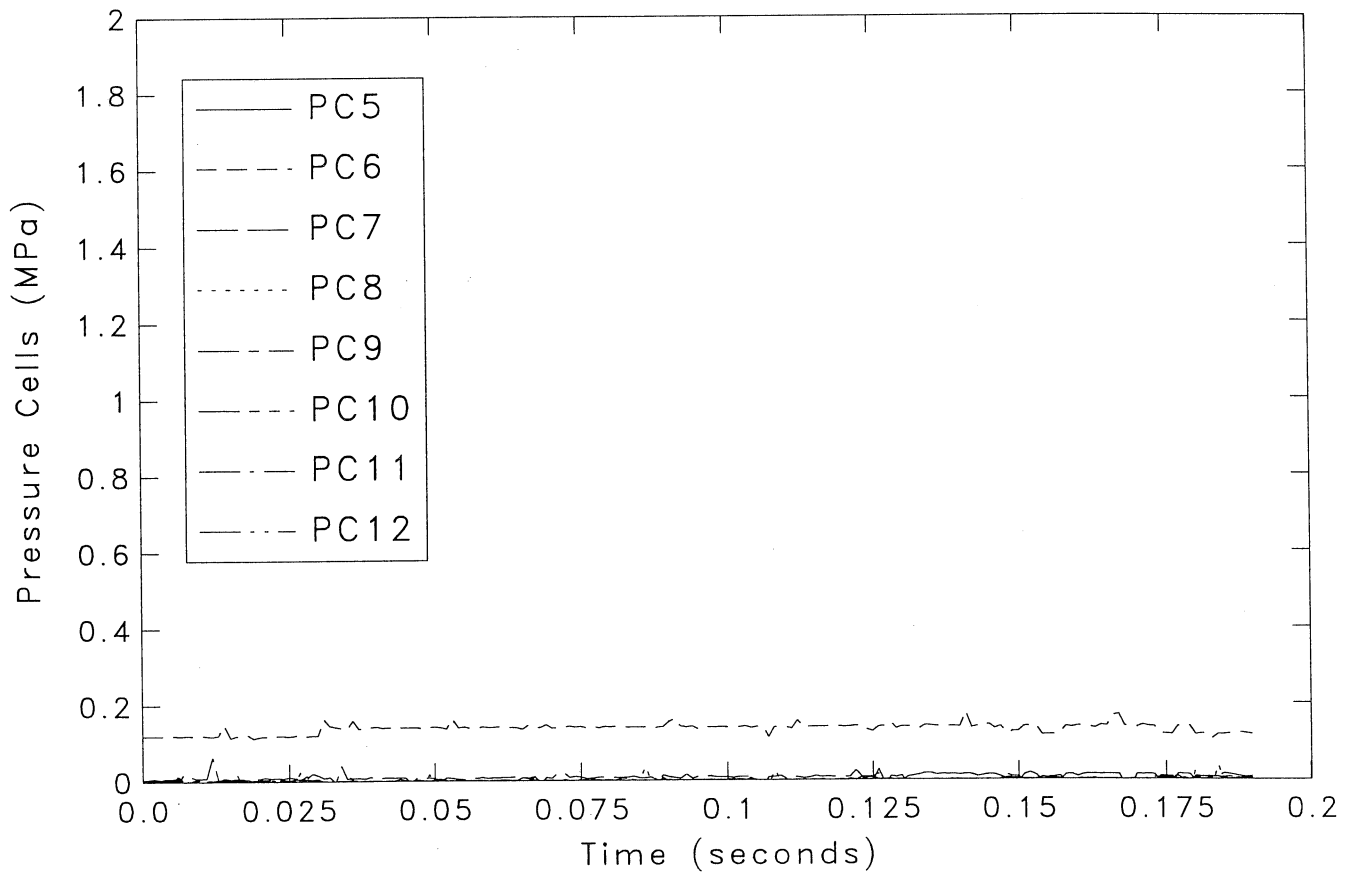
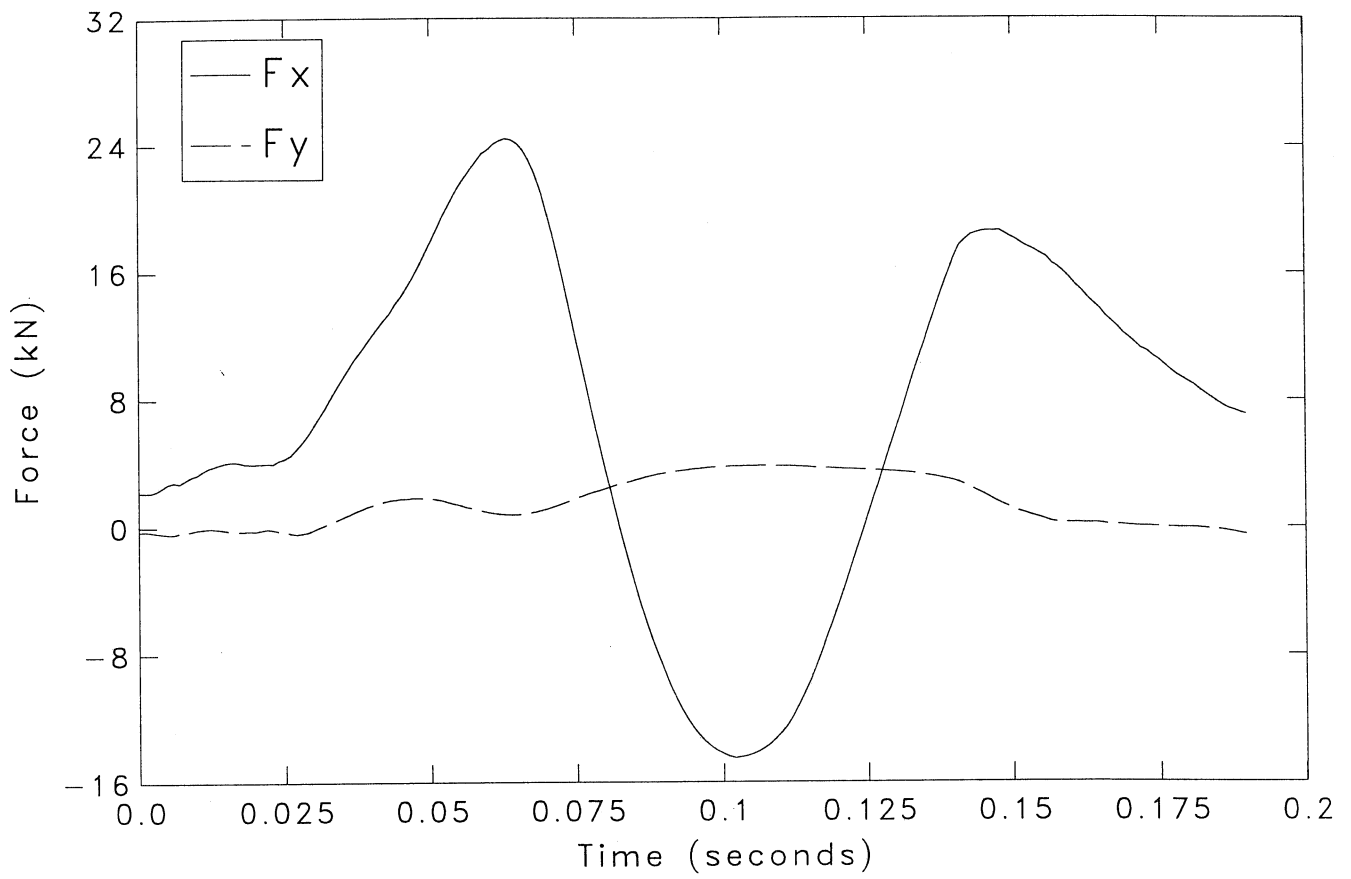


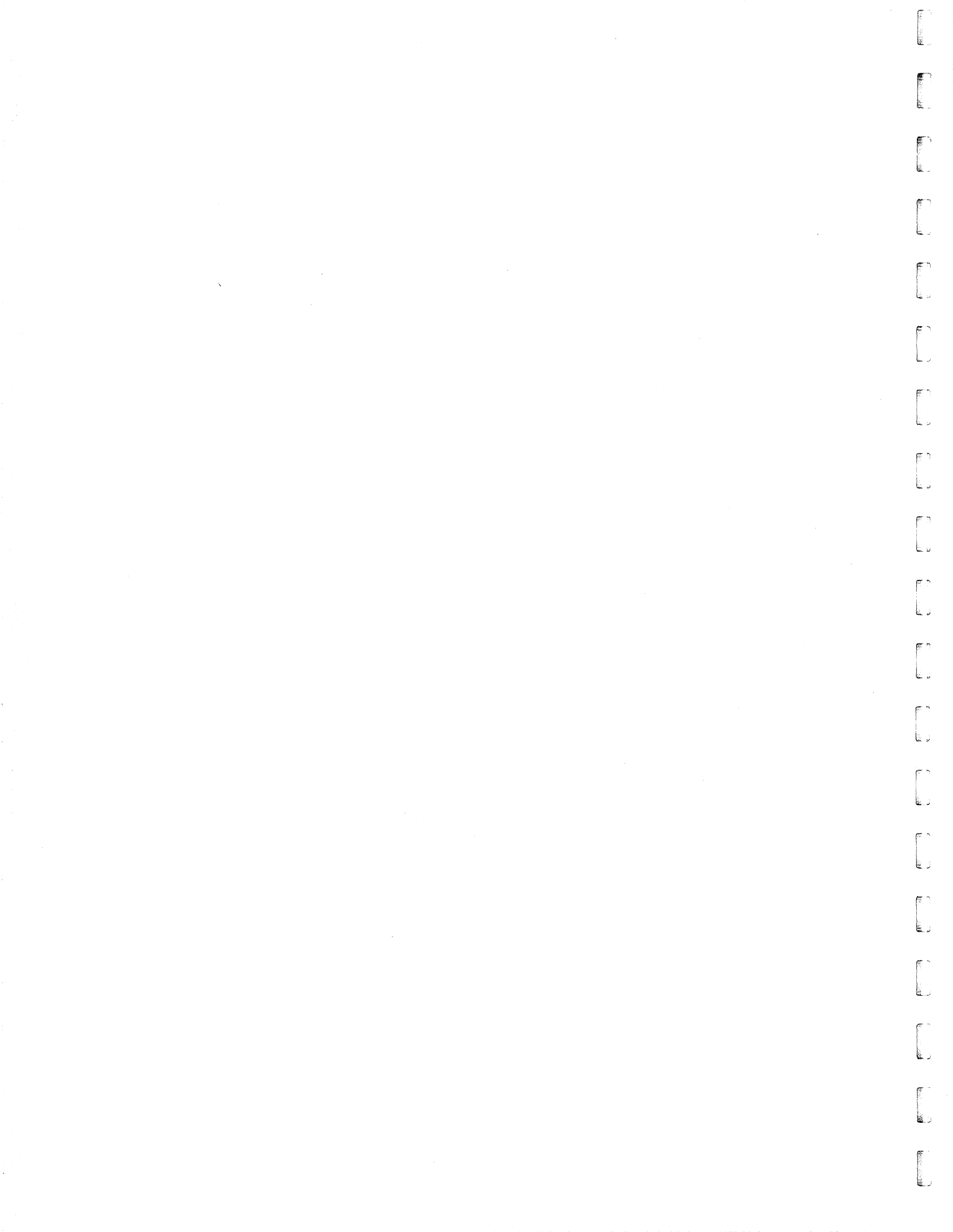
Floe Velocity = 141mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

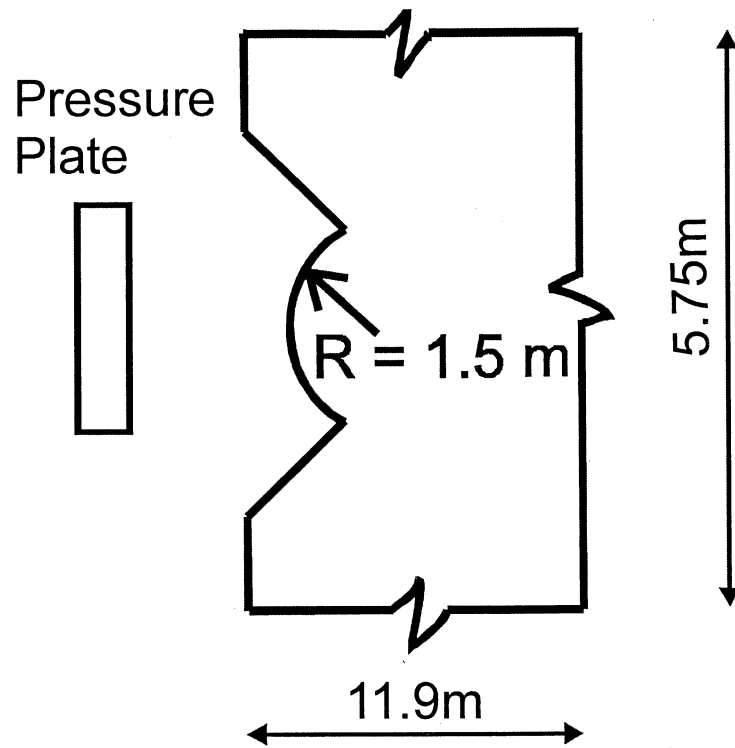
Exaggerated details for clarity

Test 9





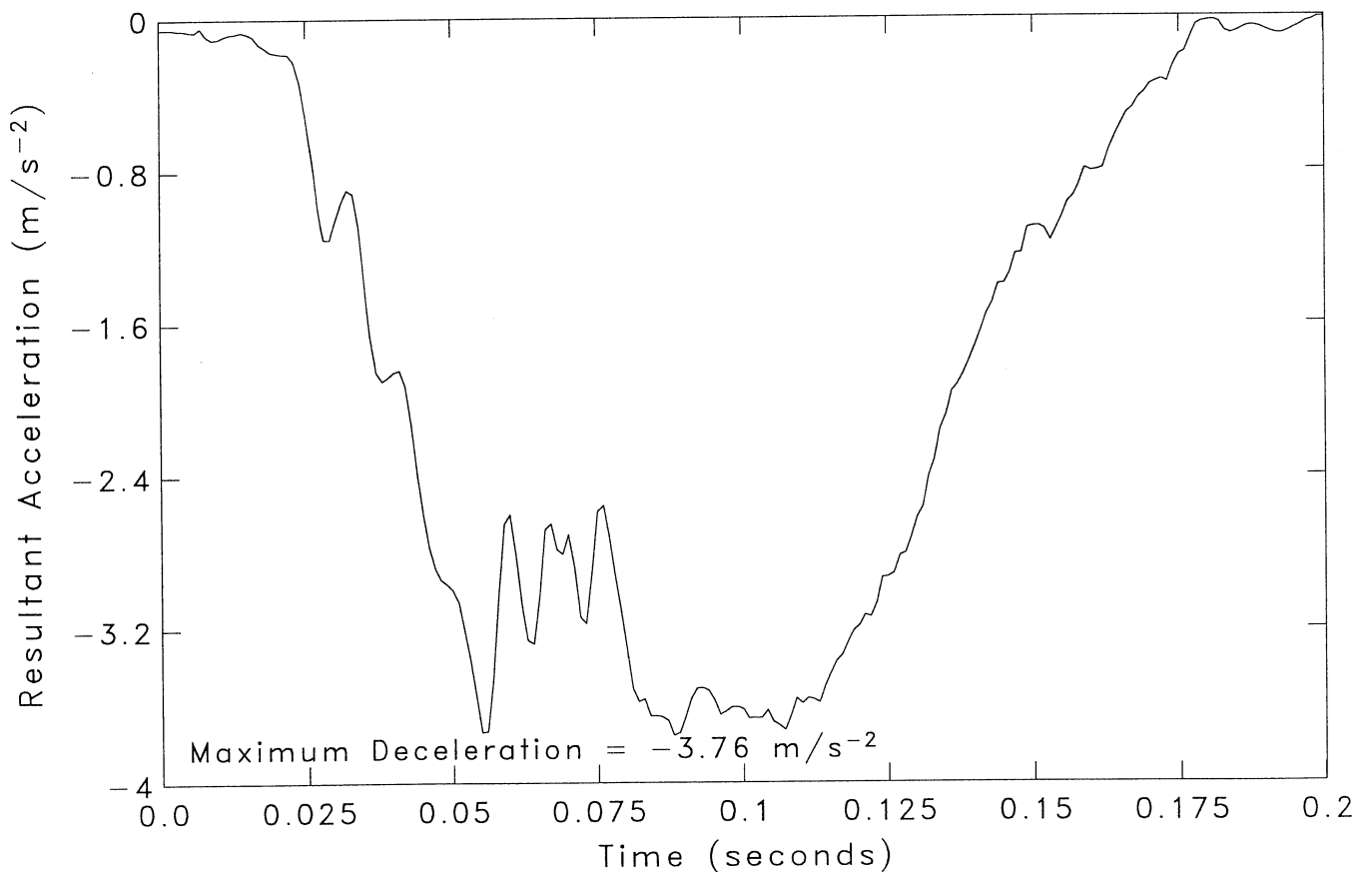
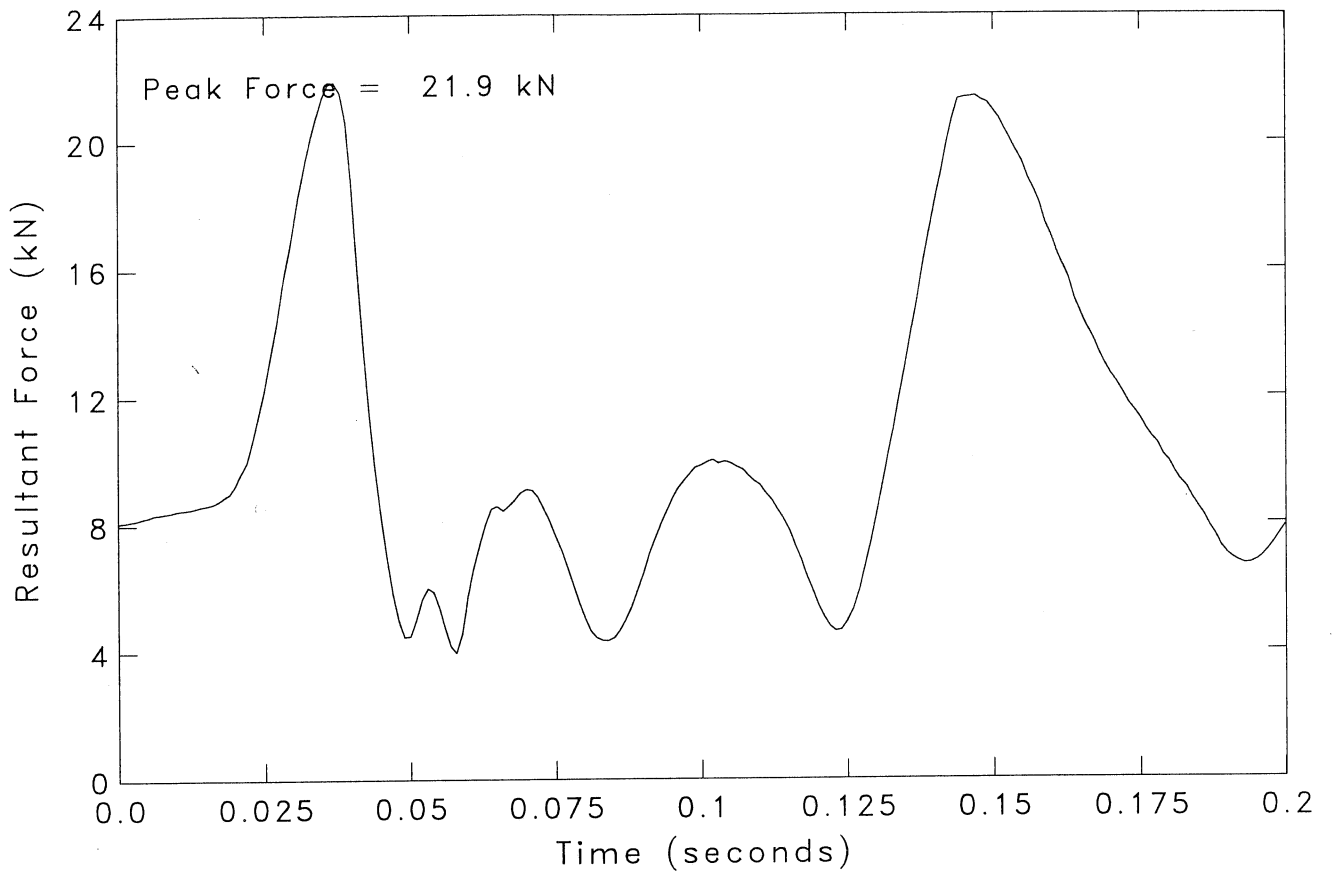


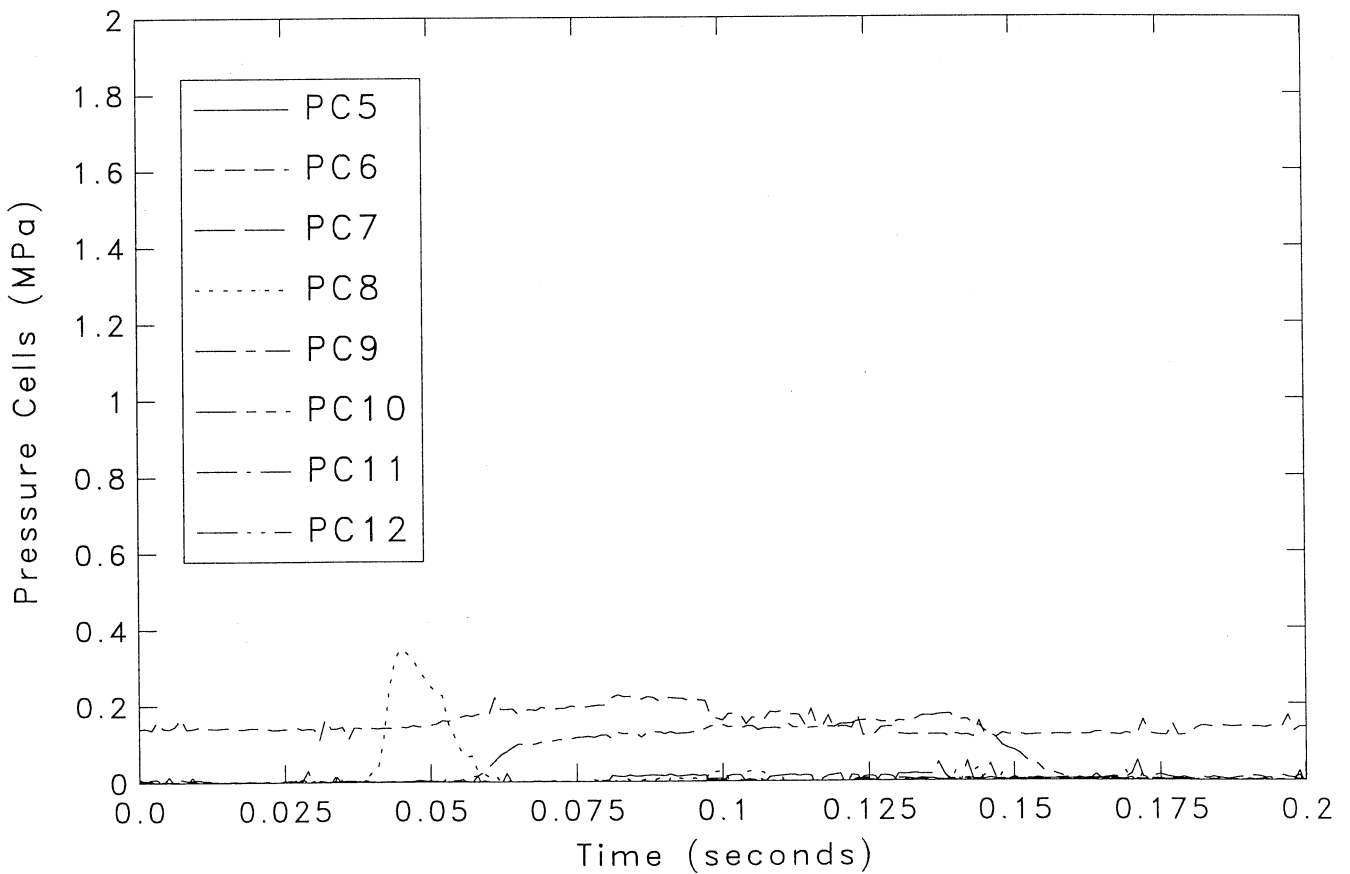
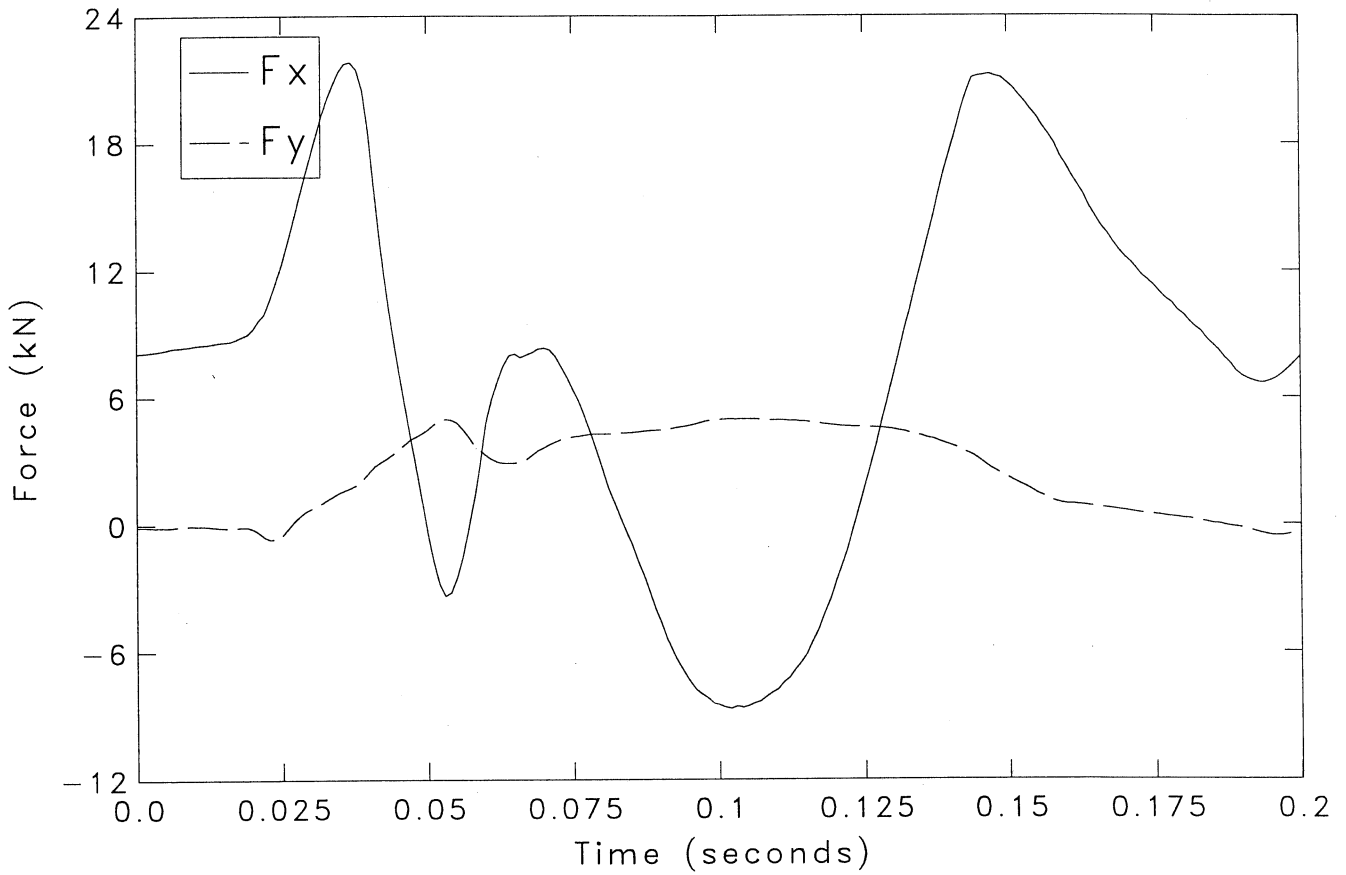


Floe Velocity = 194mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

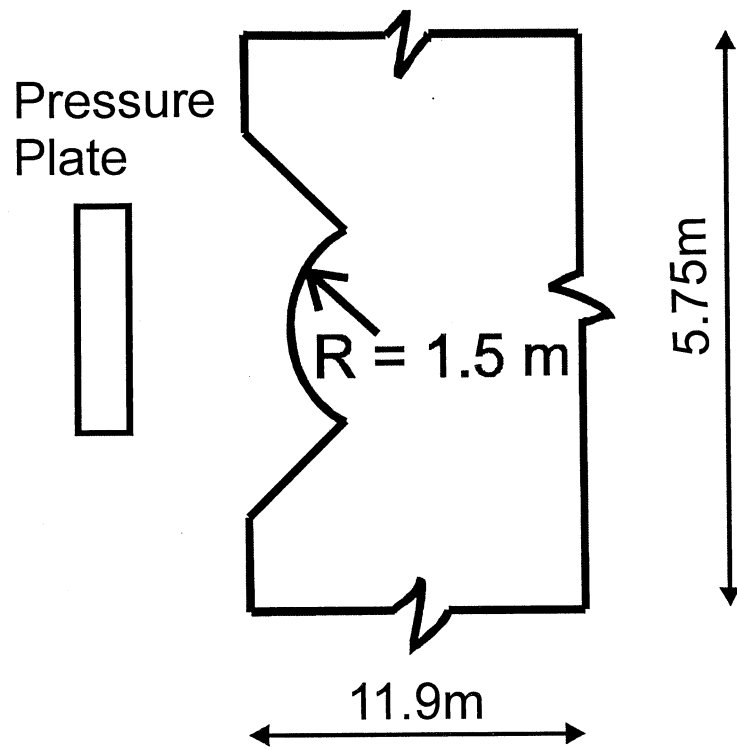
Exaggerated details for clarity

Test 10





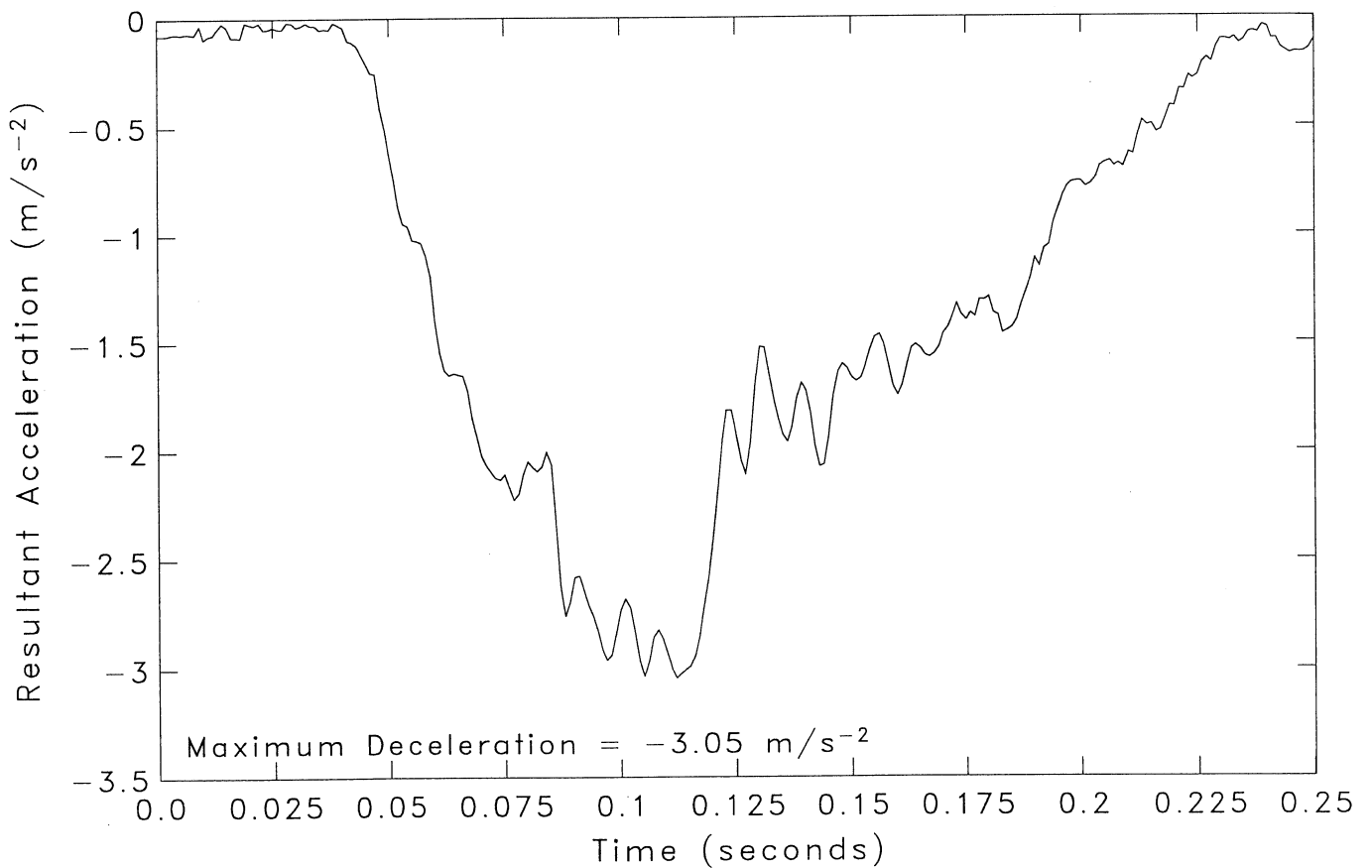
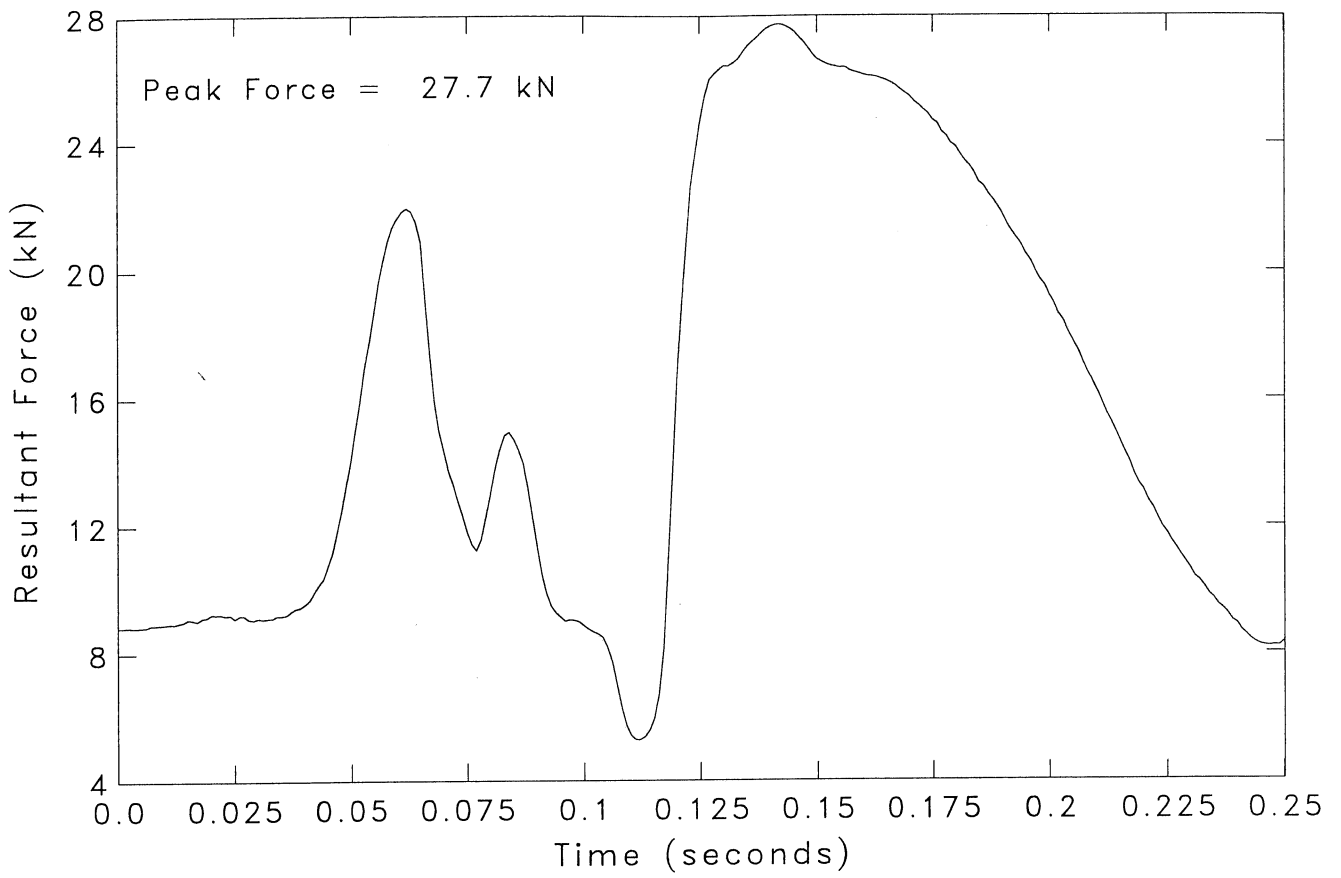


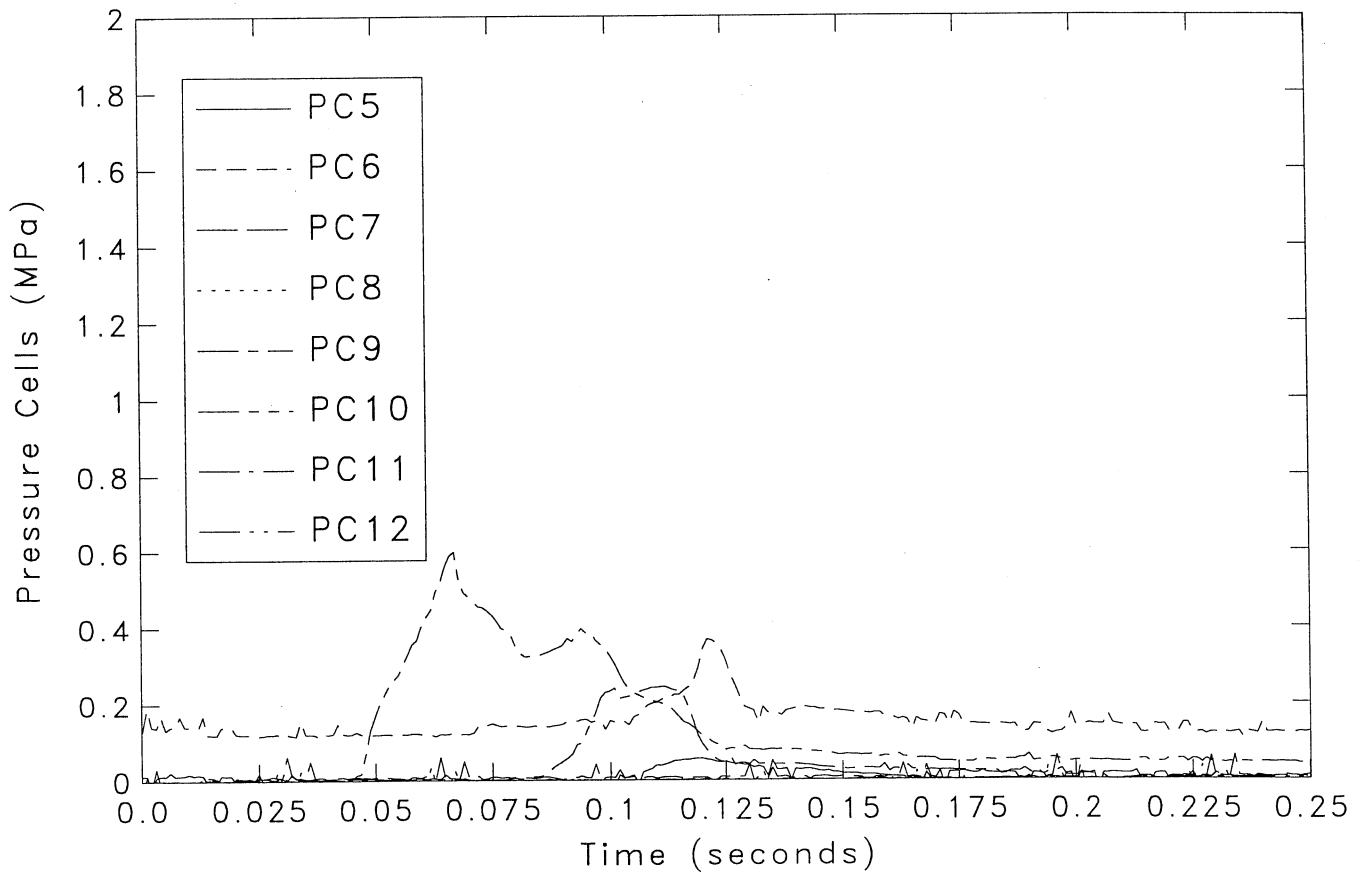
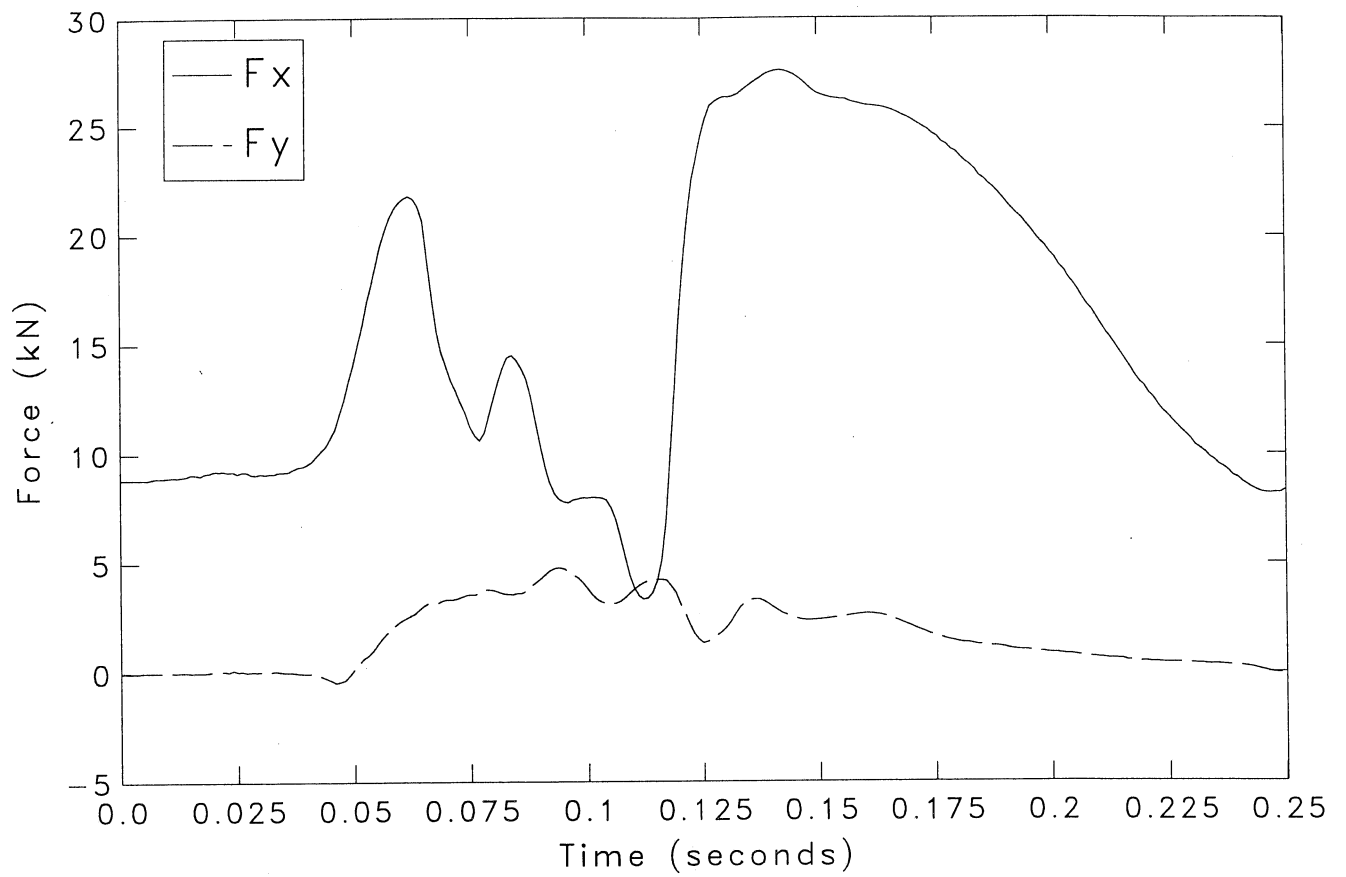


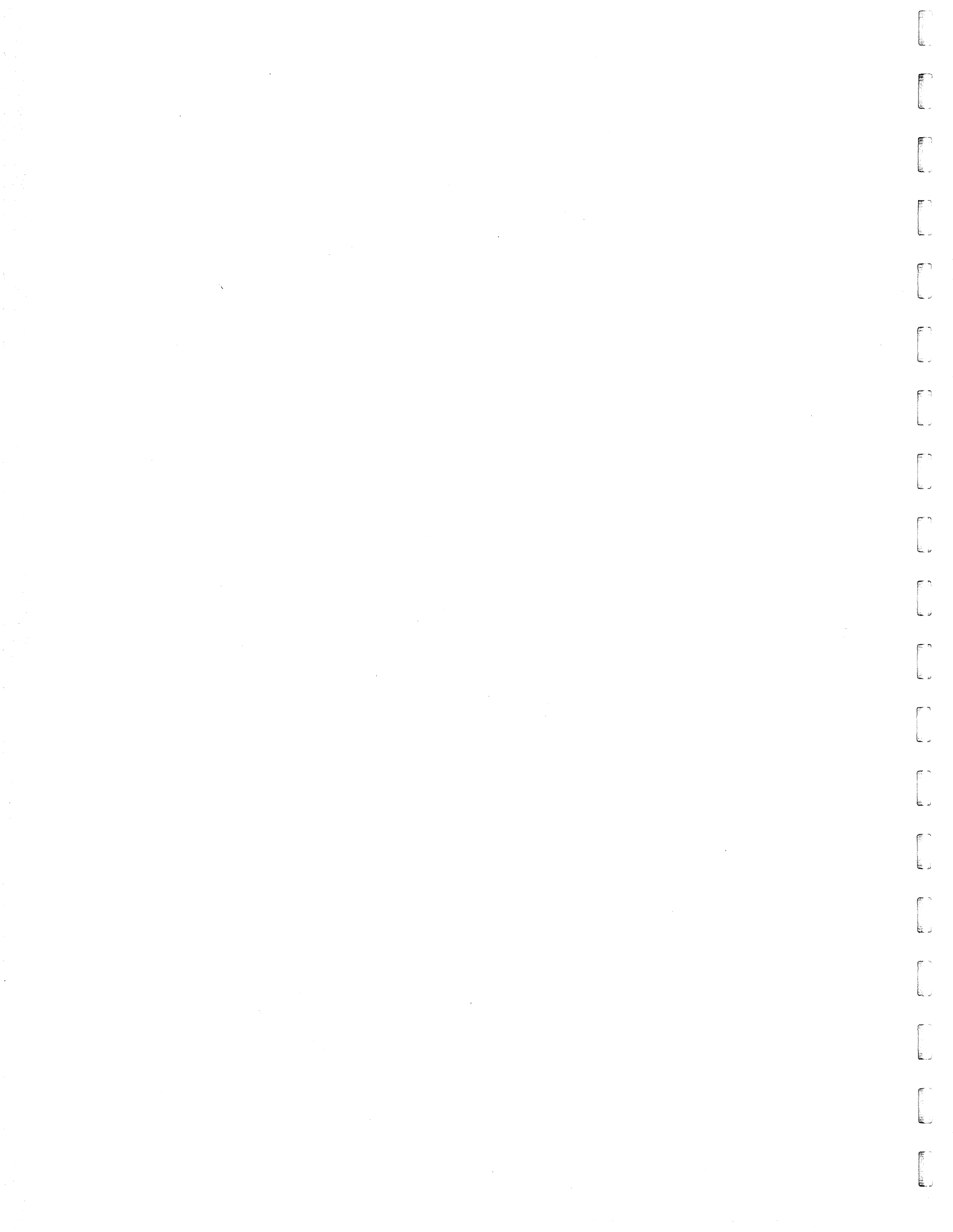
Floe Velocity = 169mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

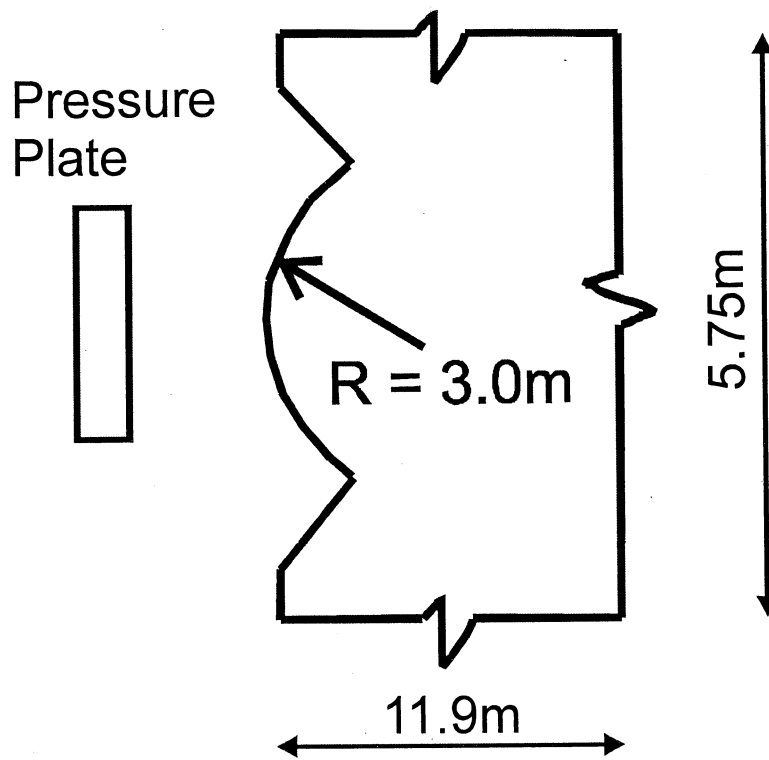
Exaggerated details for clarity

Test 11





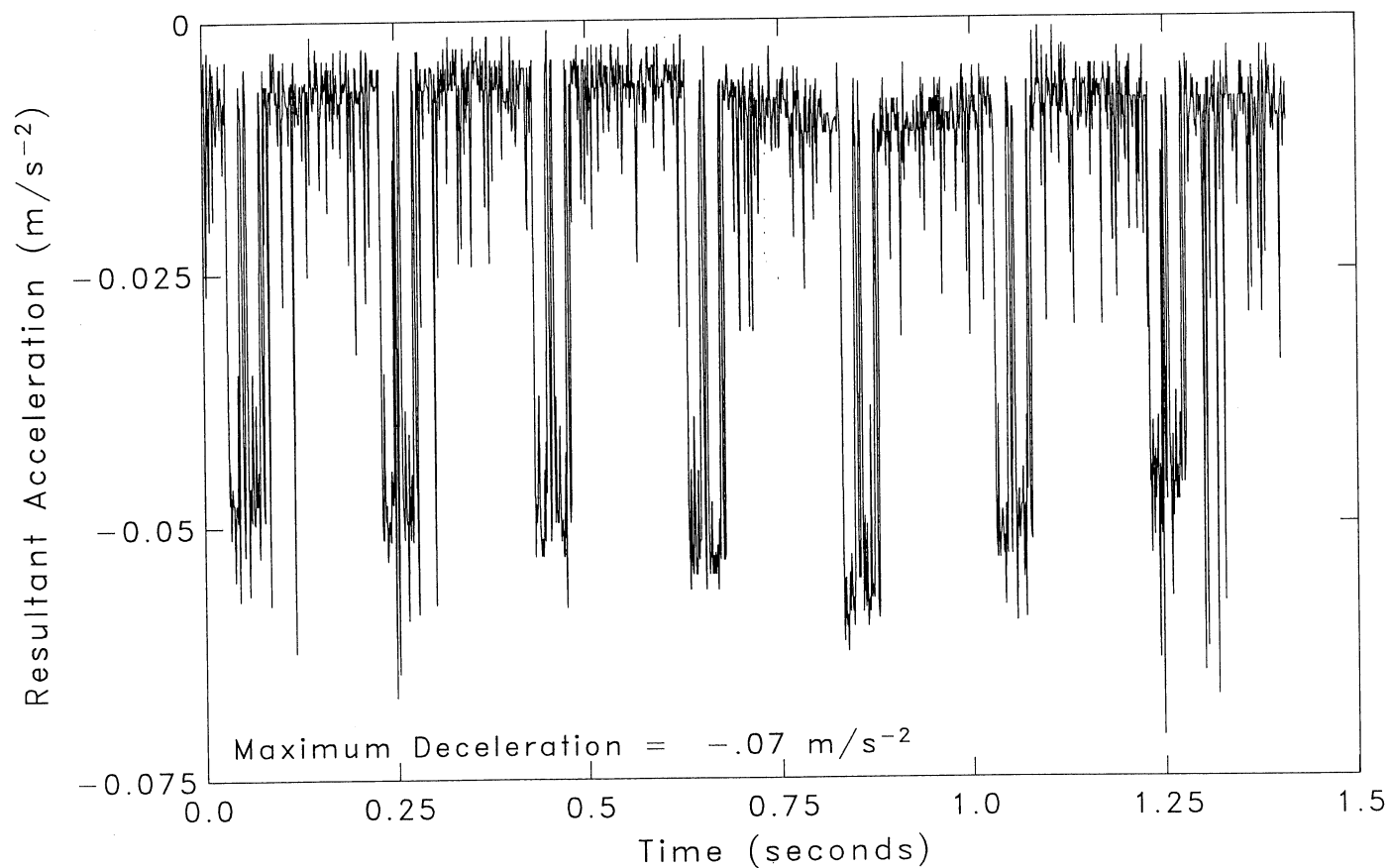
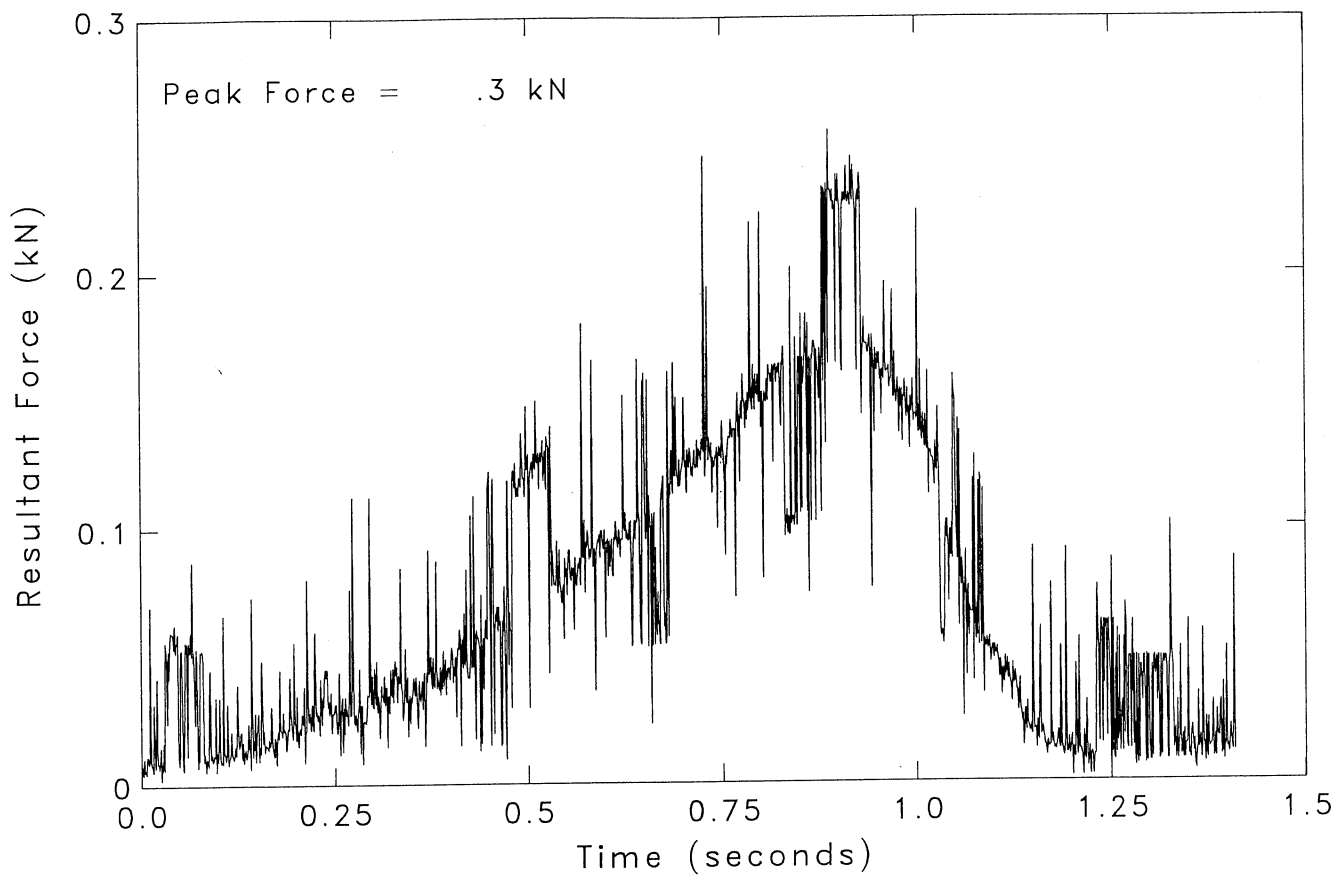


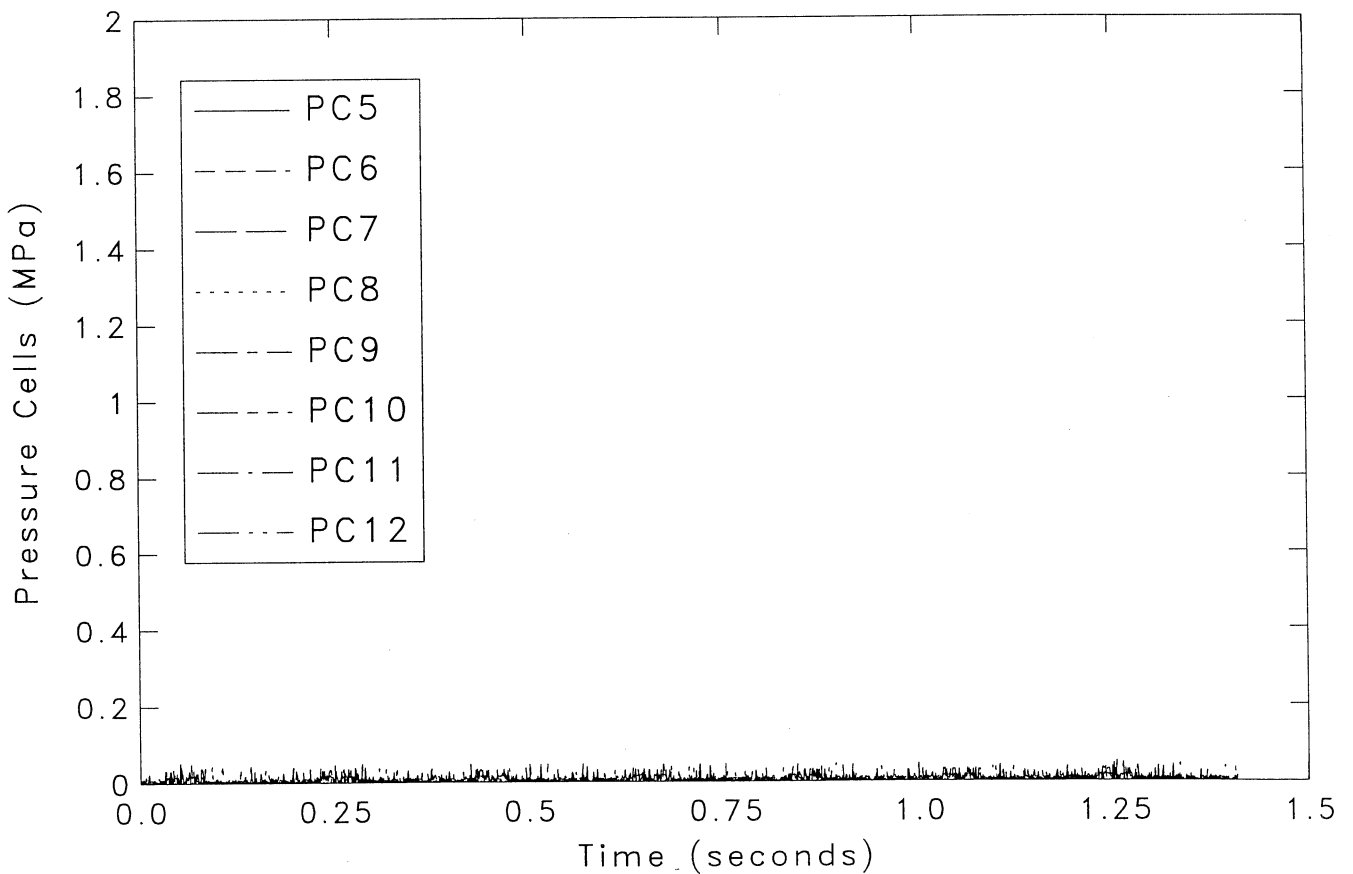
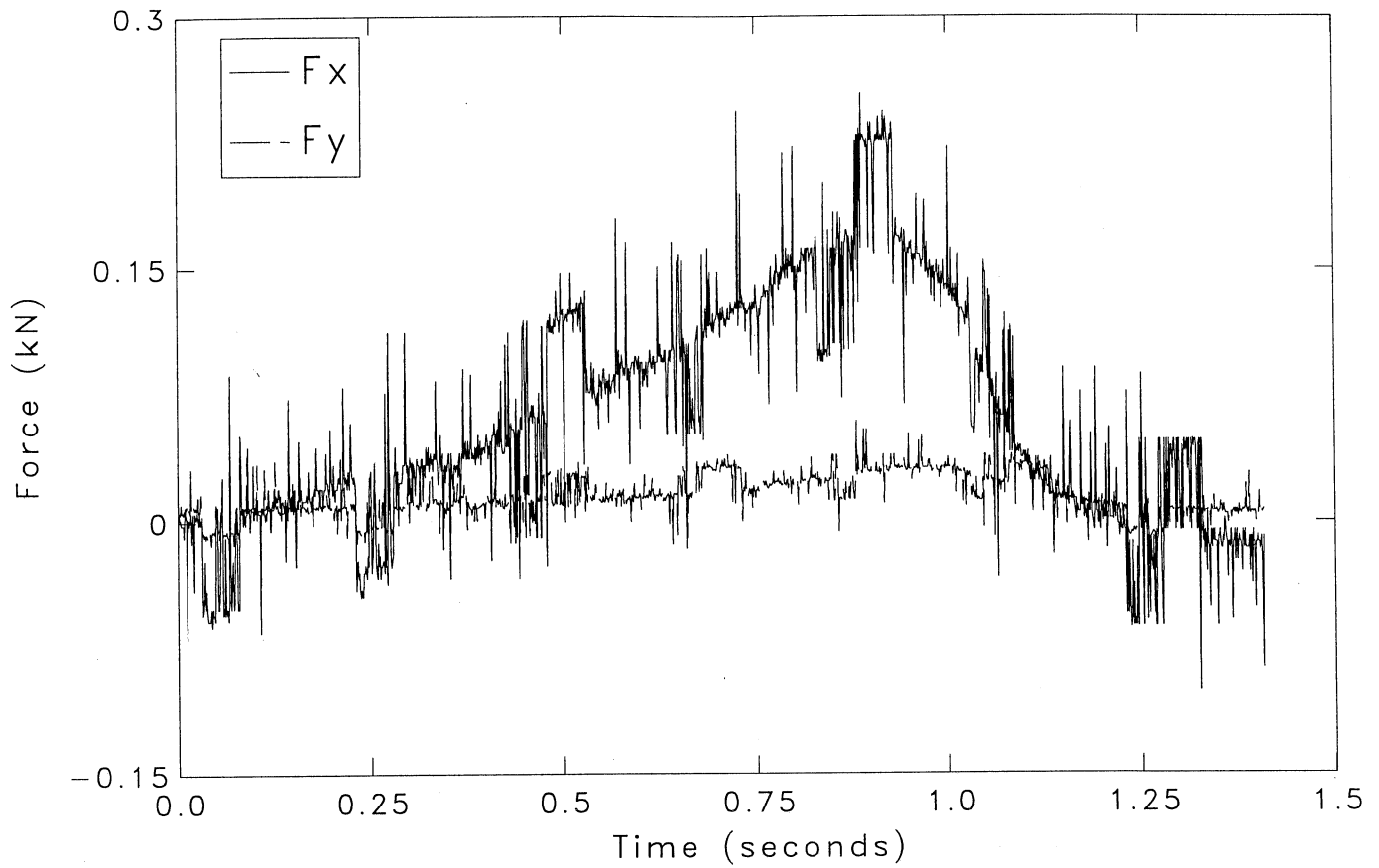


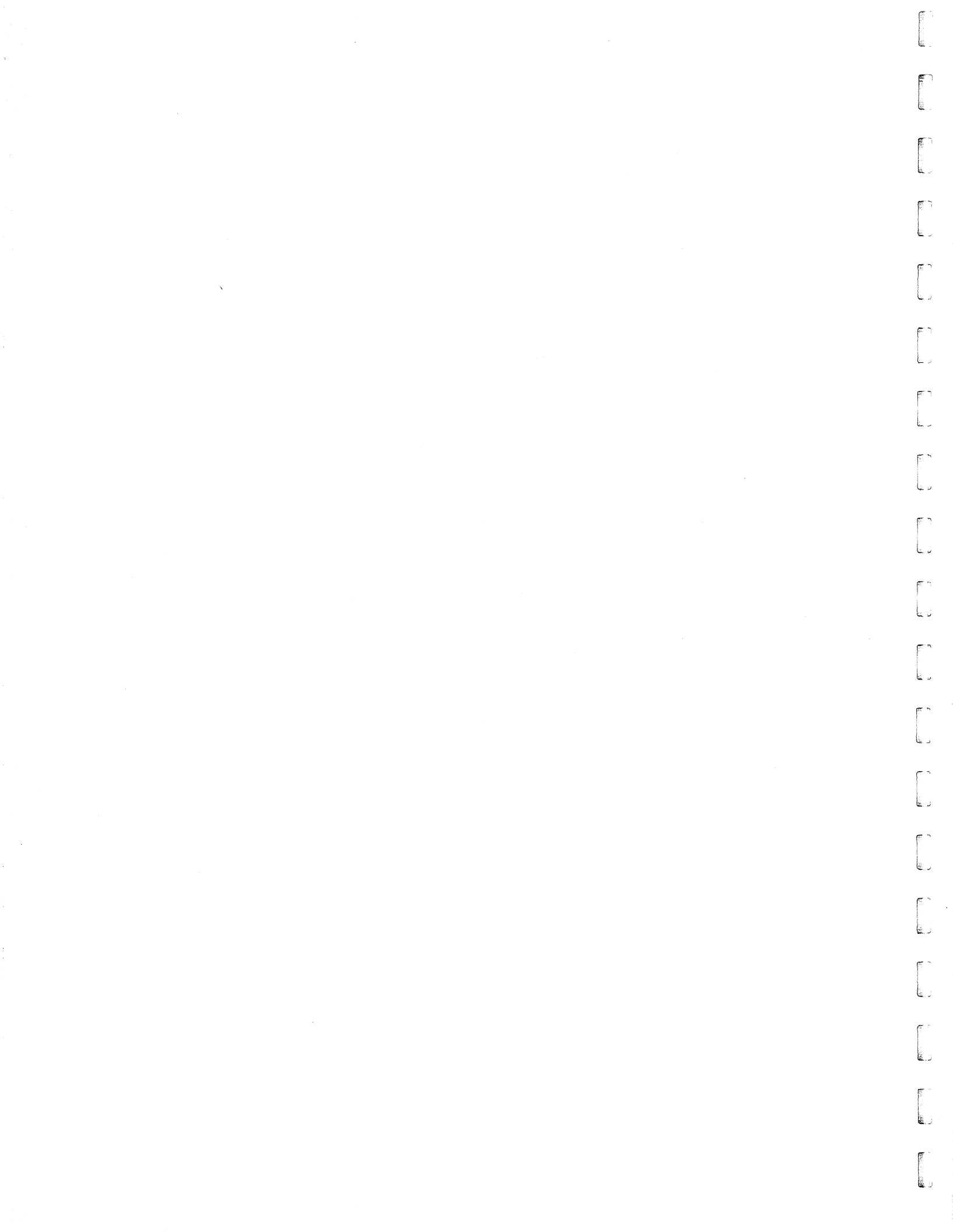
Floe Velocity = 23mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

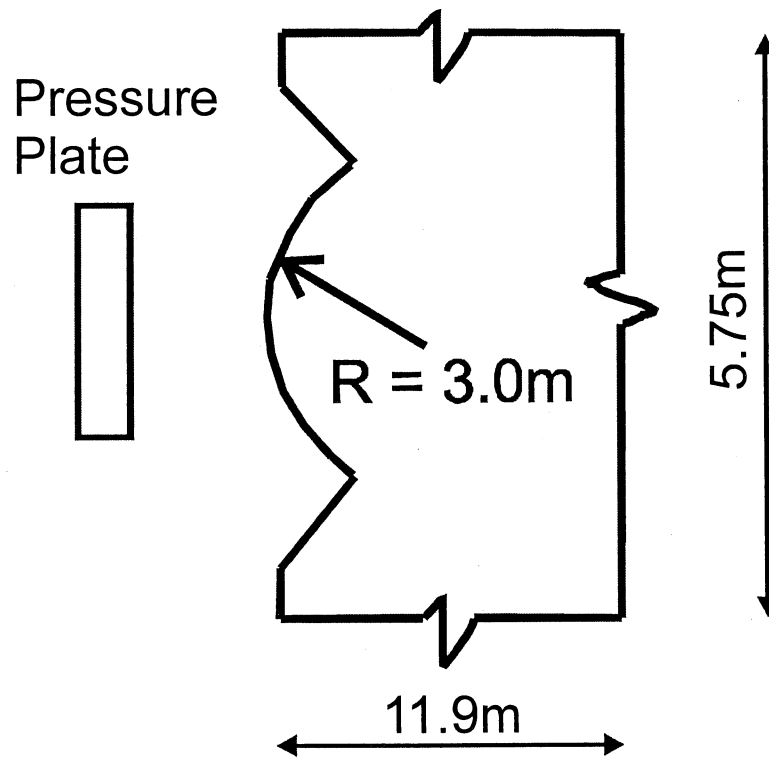
Exaggerated details for clarity

Test 12





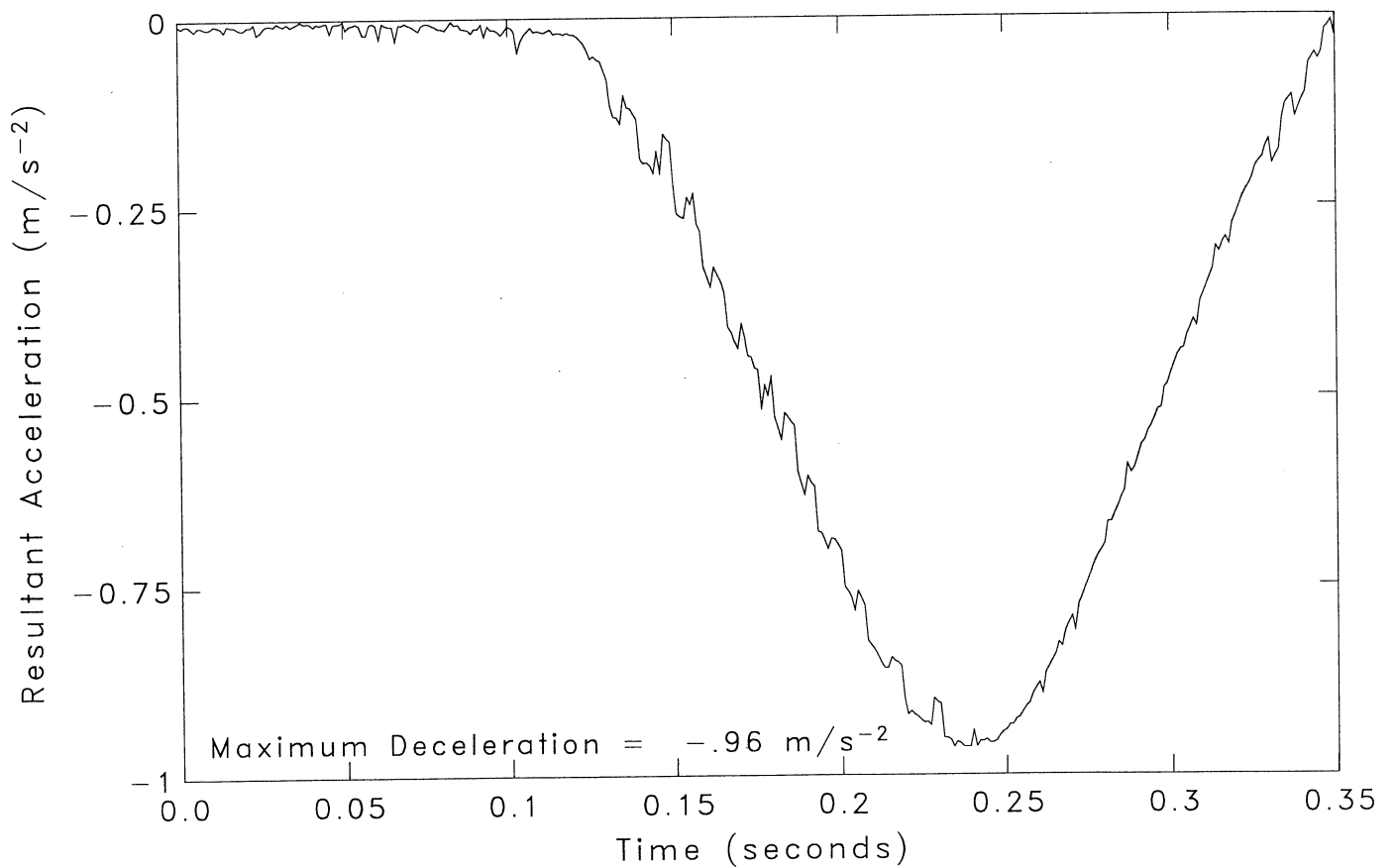
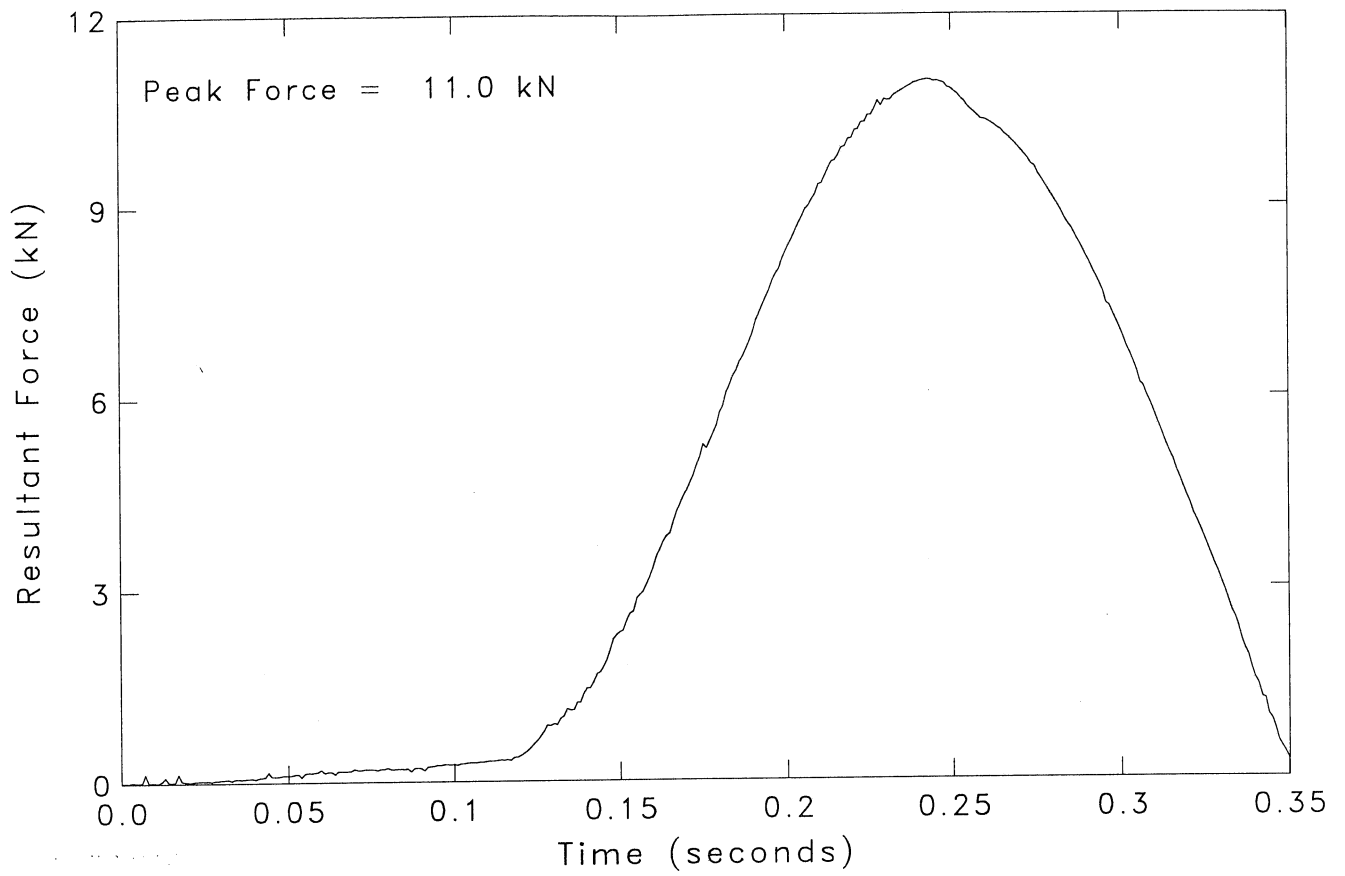


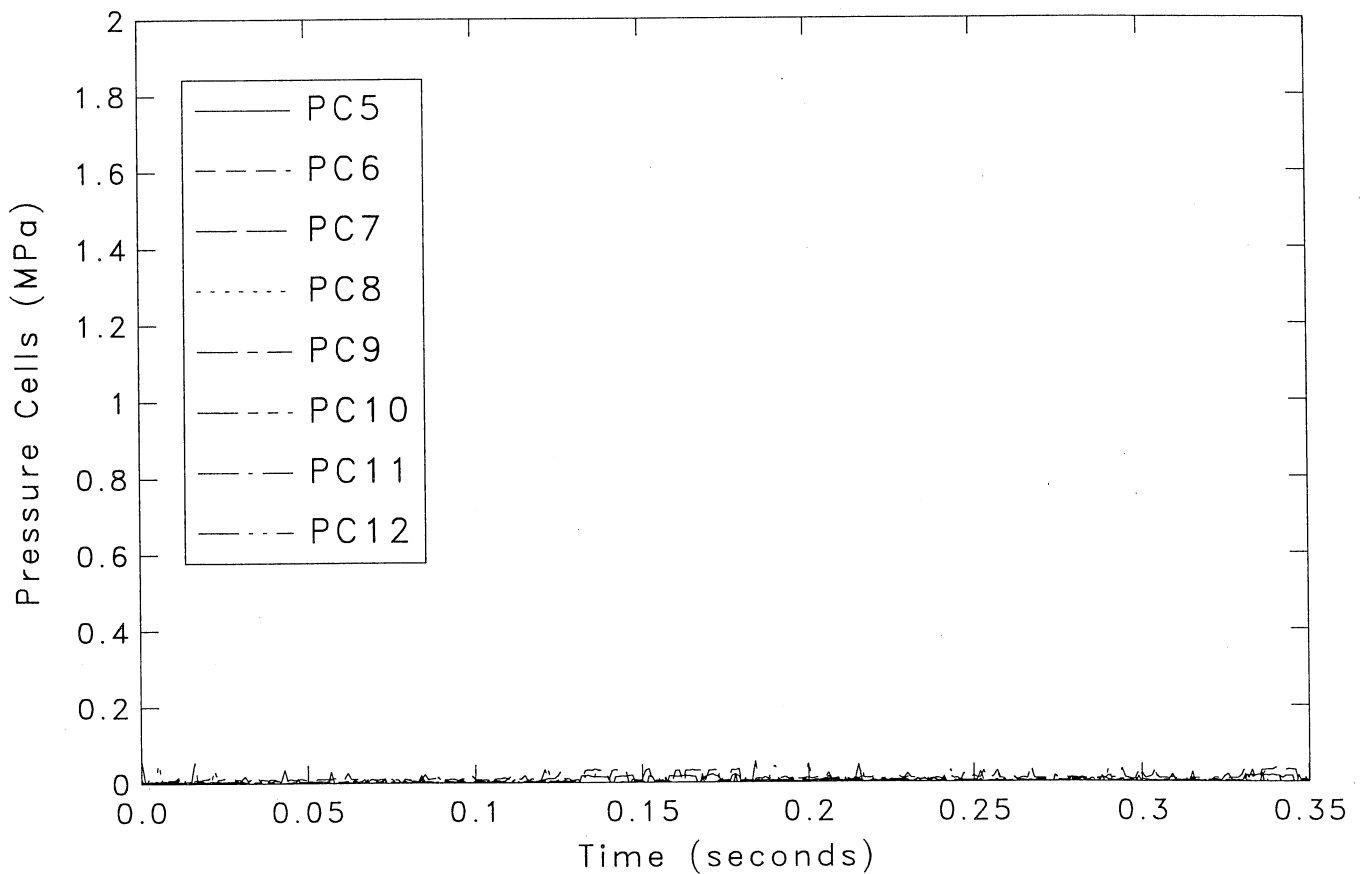
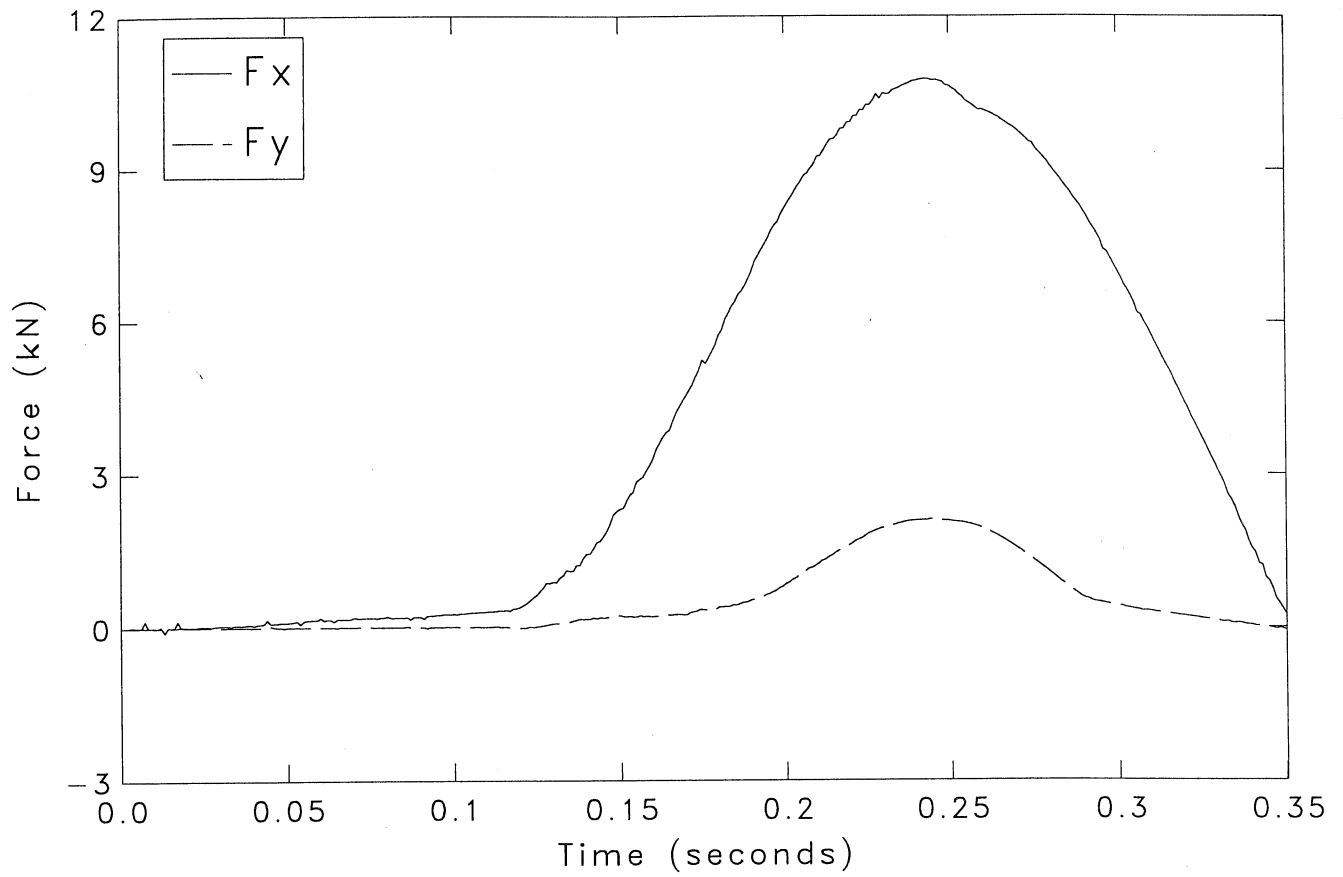


Floe Velocity = 61mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

Exaggerated details for clarity

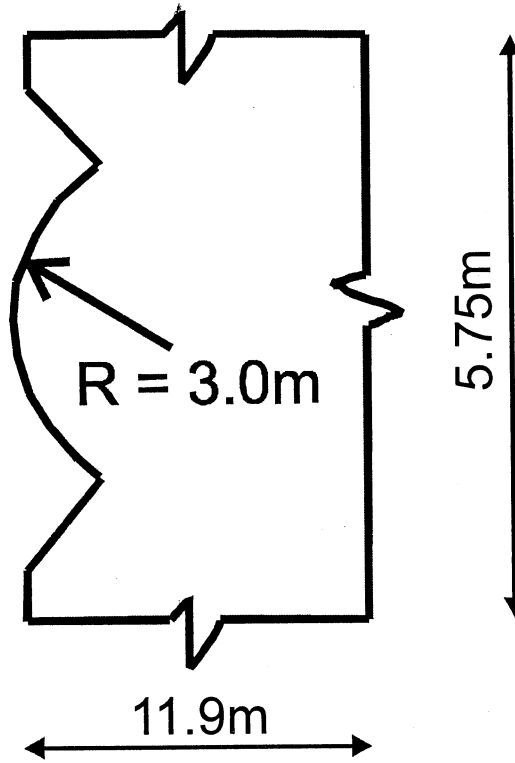
Test 13







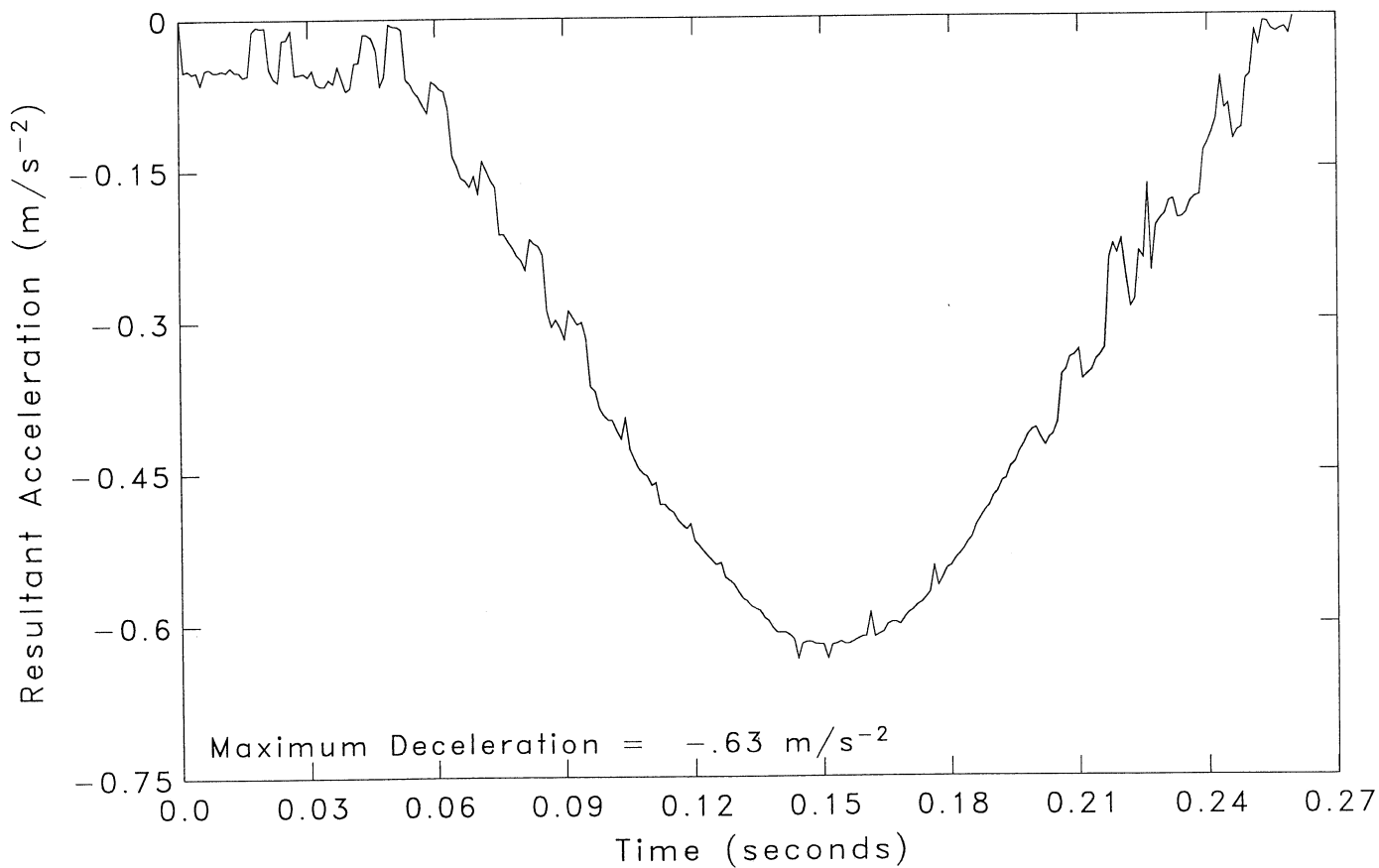
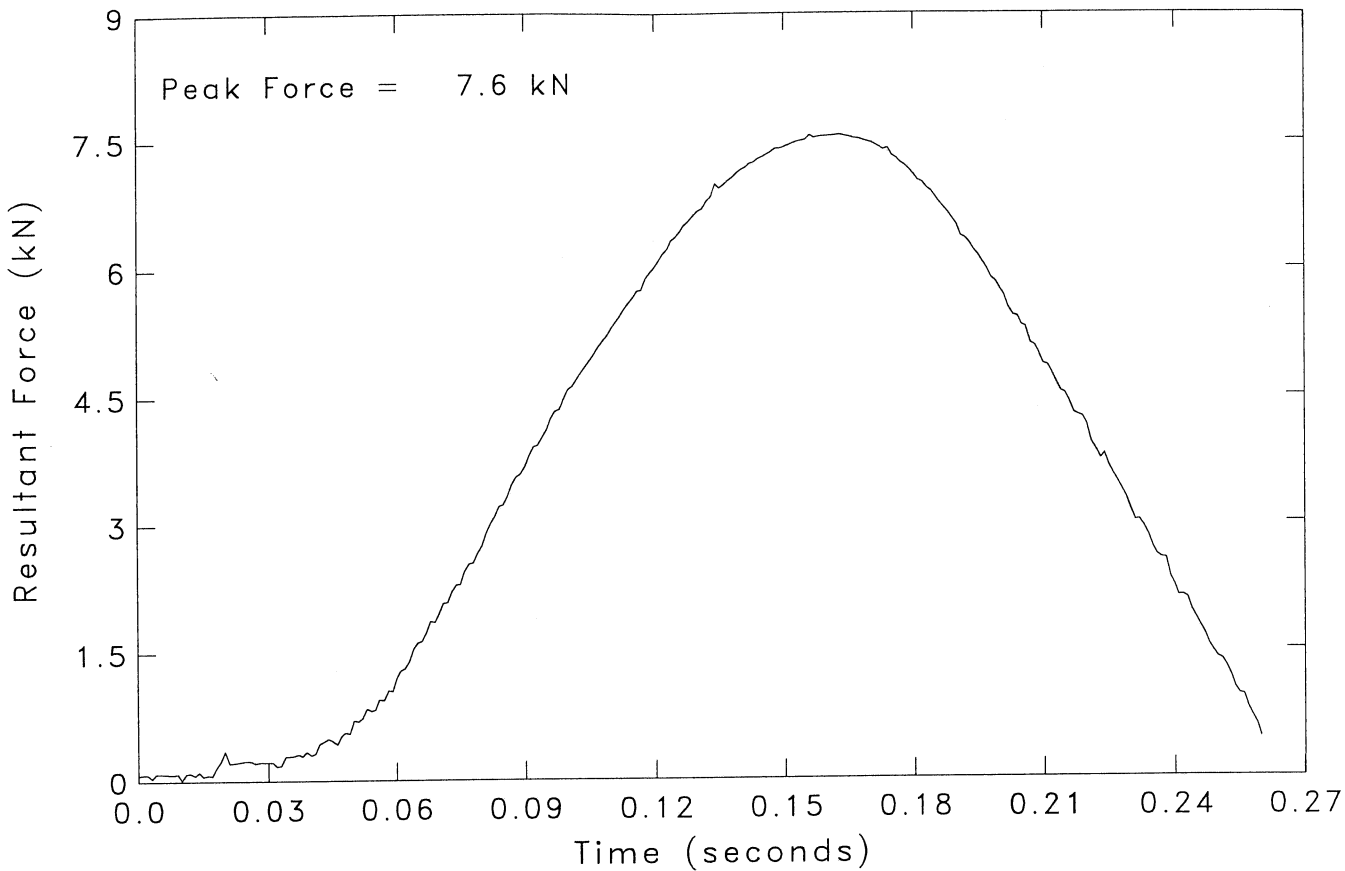
Pressure
Plate

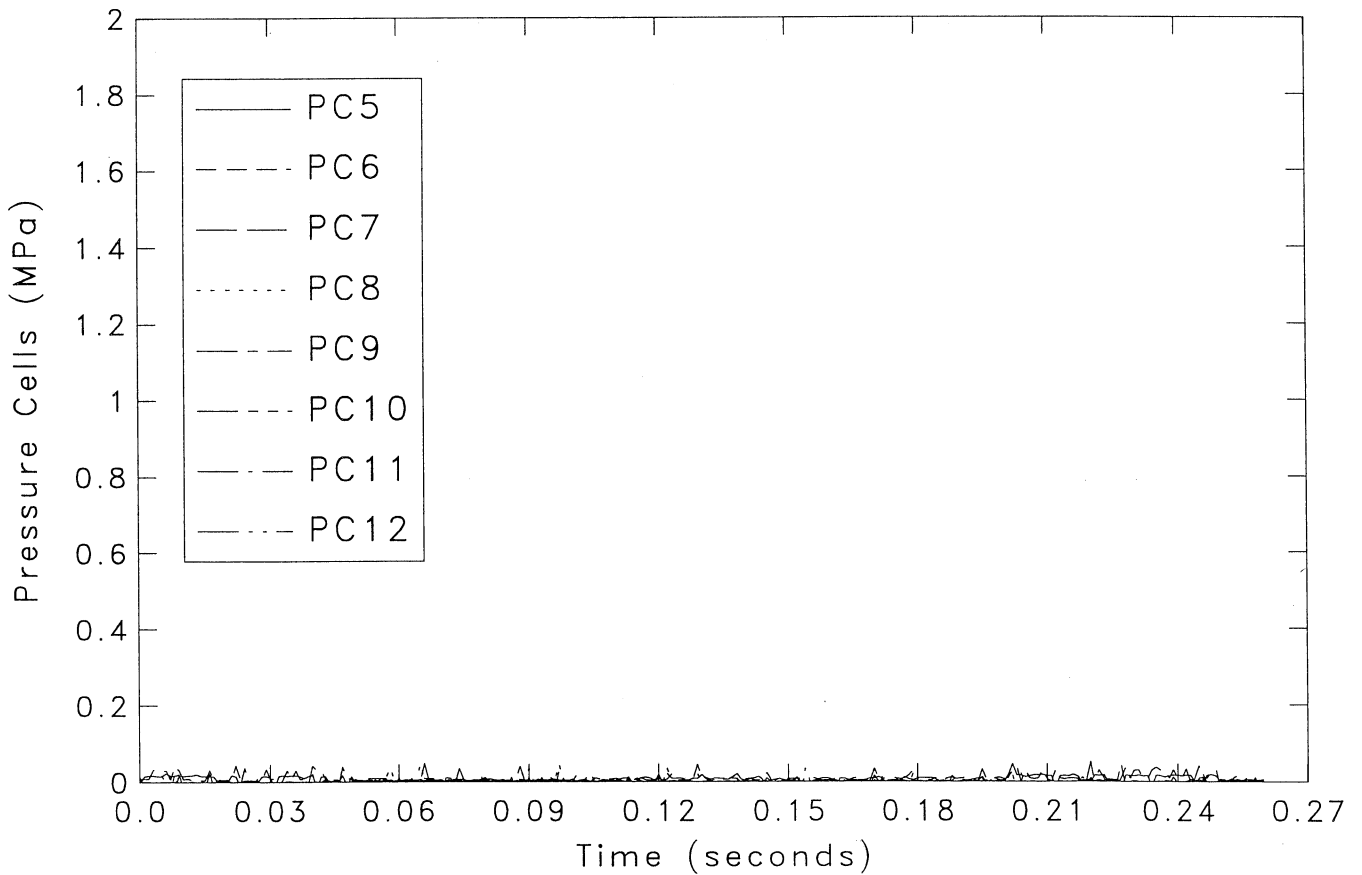
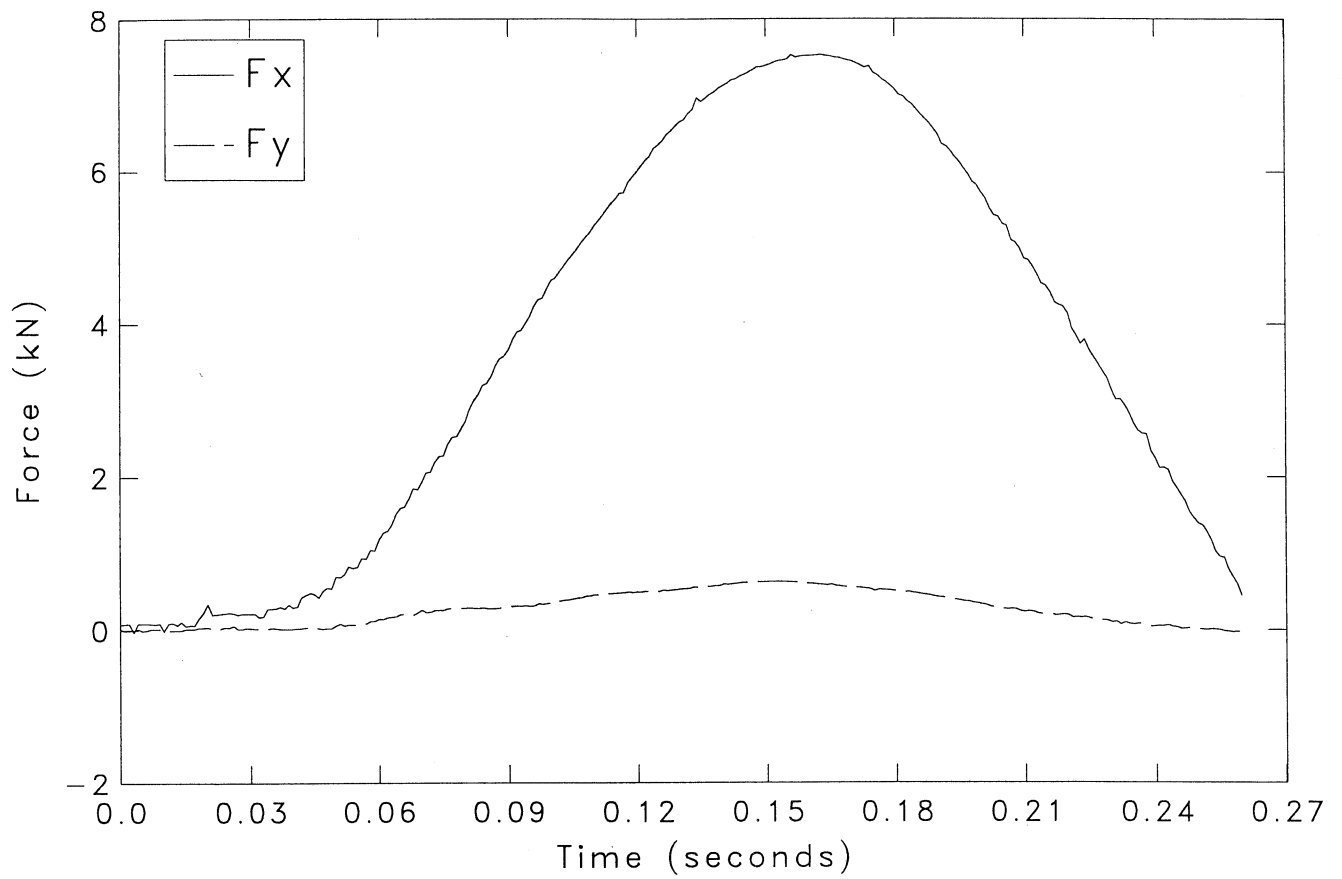


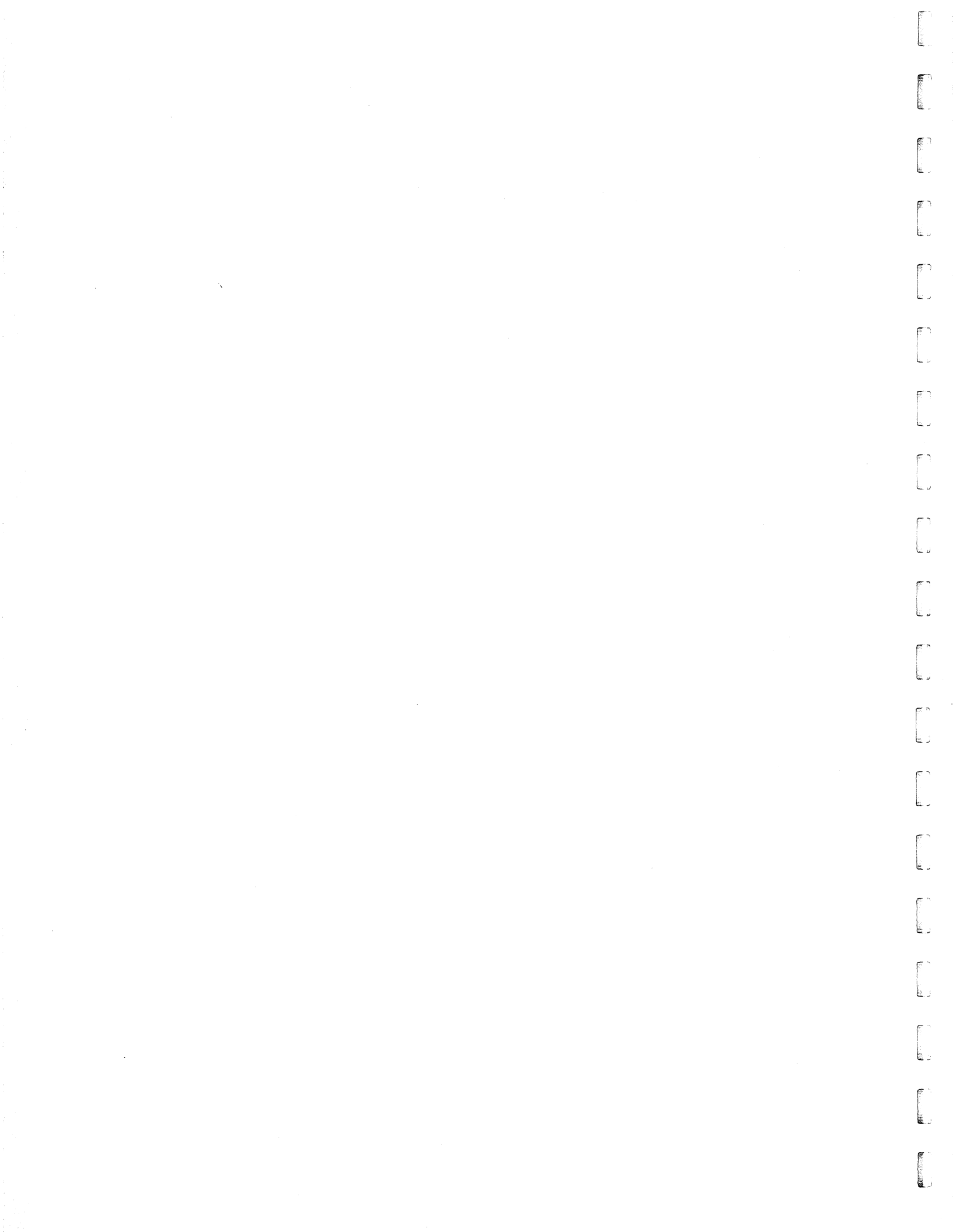
Floe Velocity = 57mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

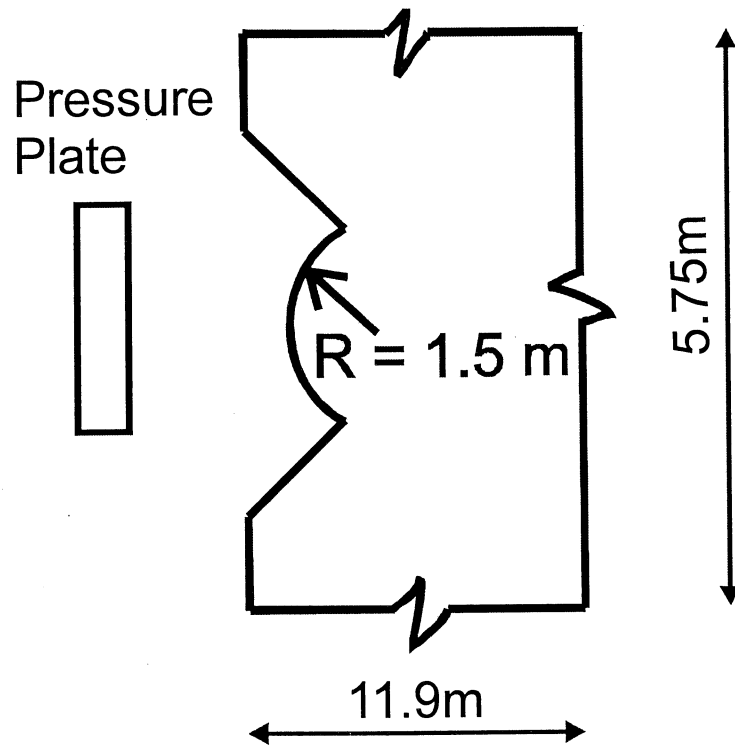
Exaggerated details for clarity

Test 14





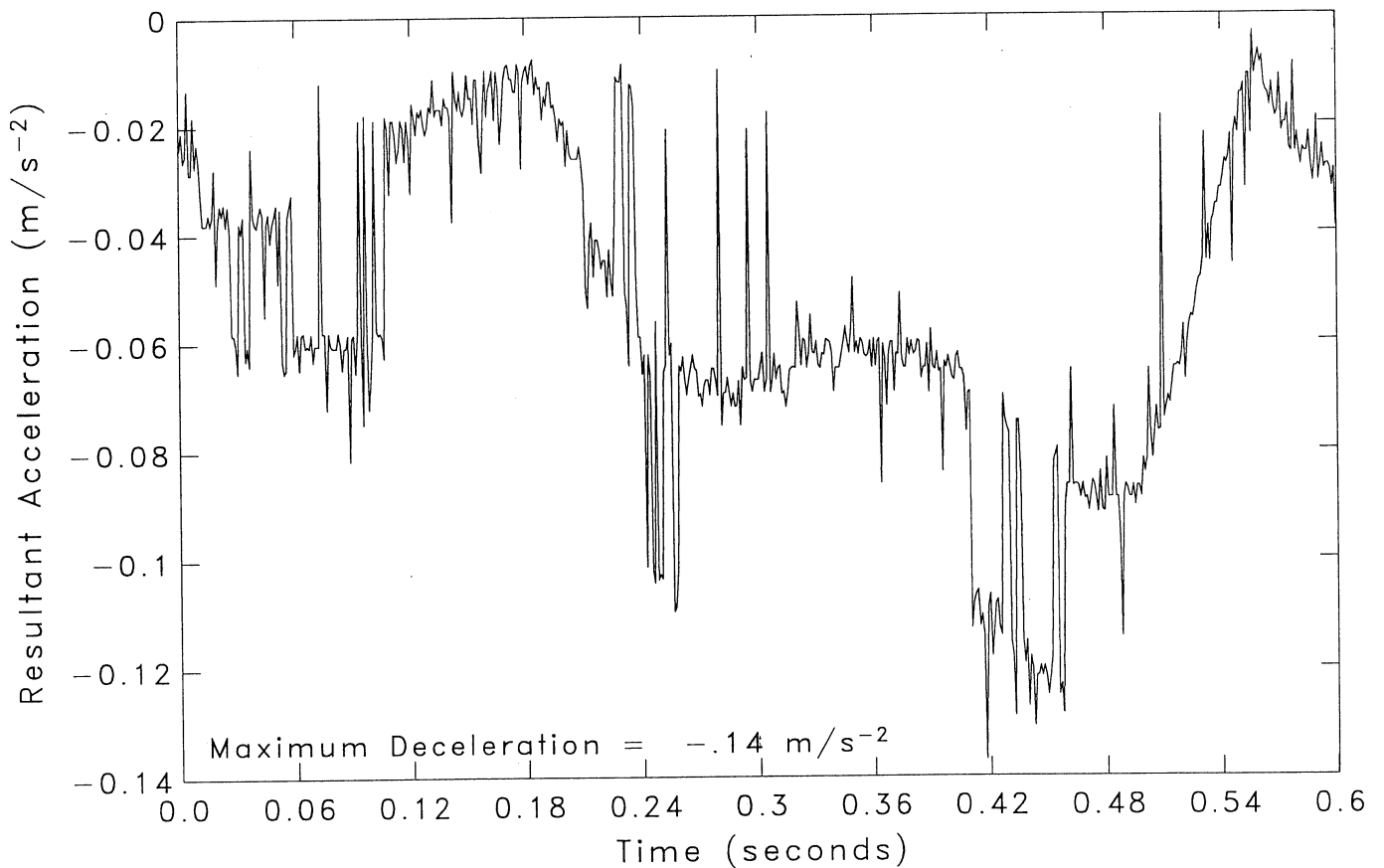
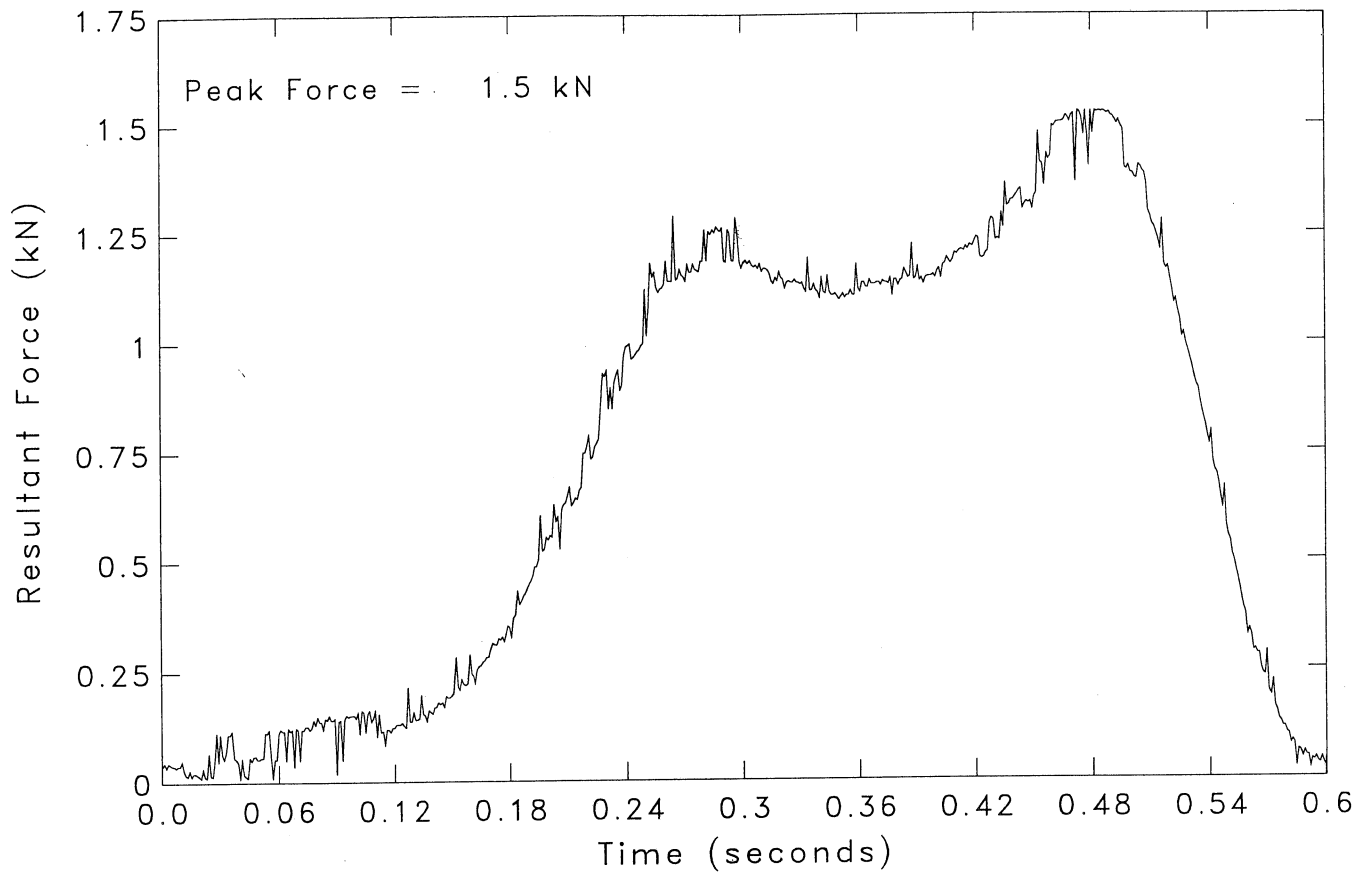


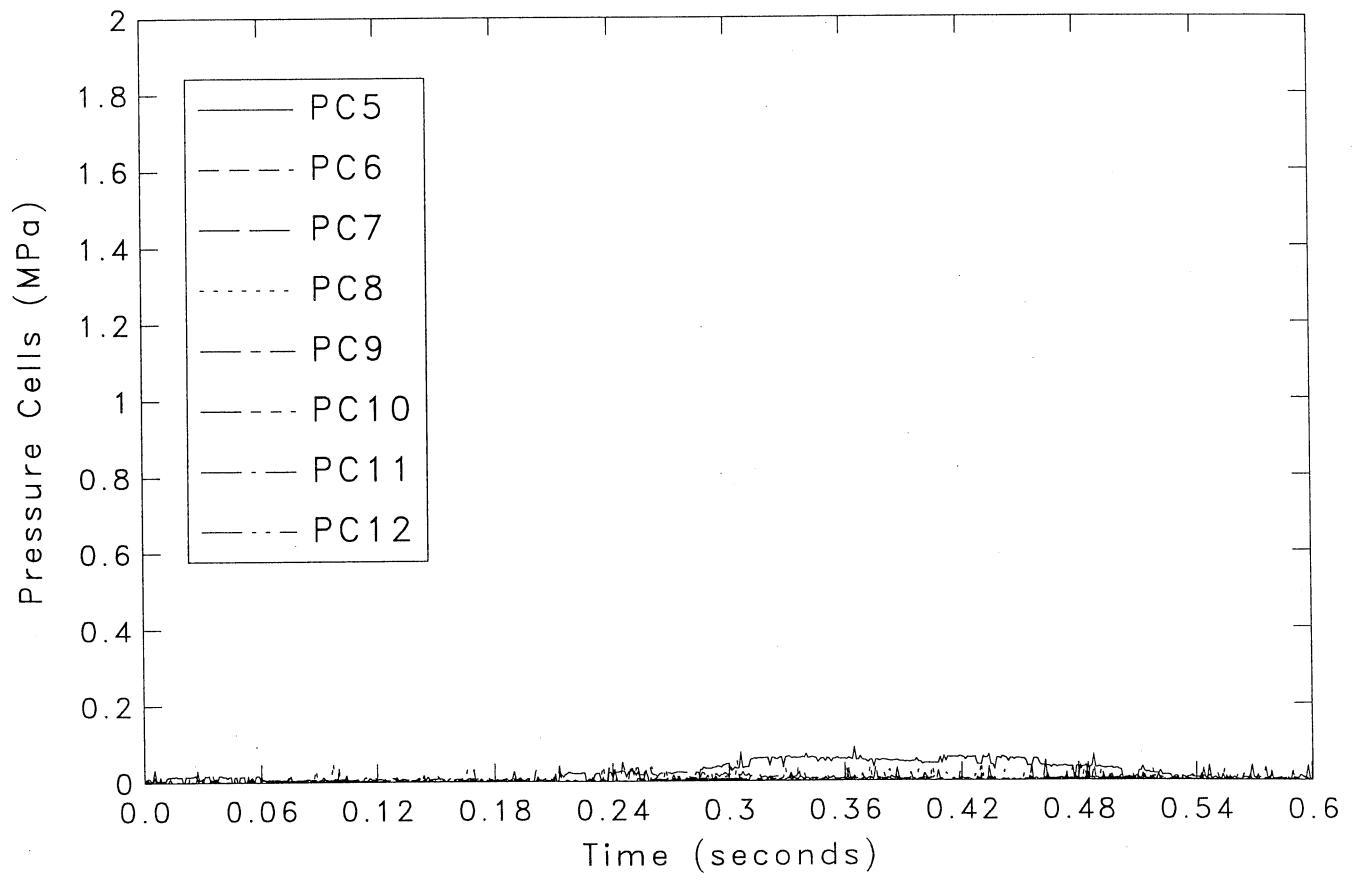
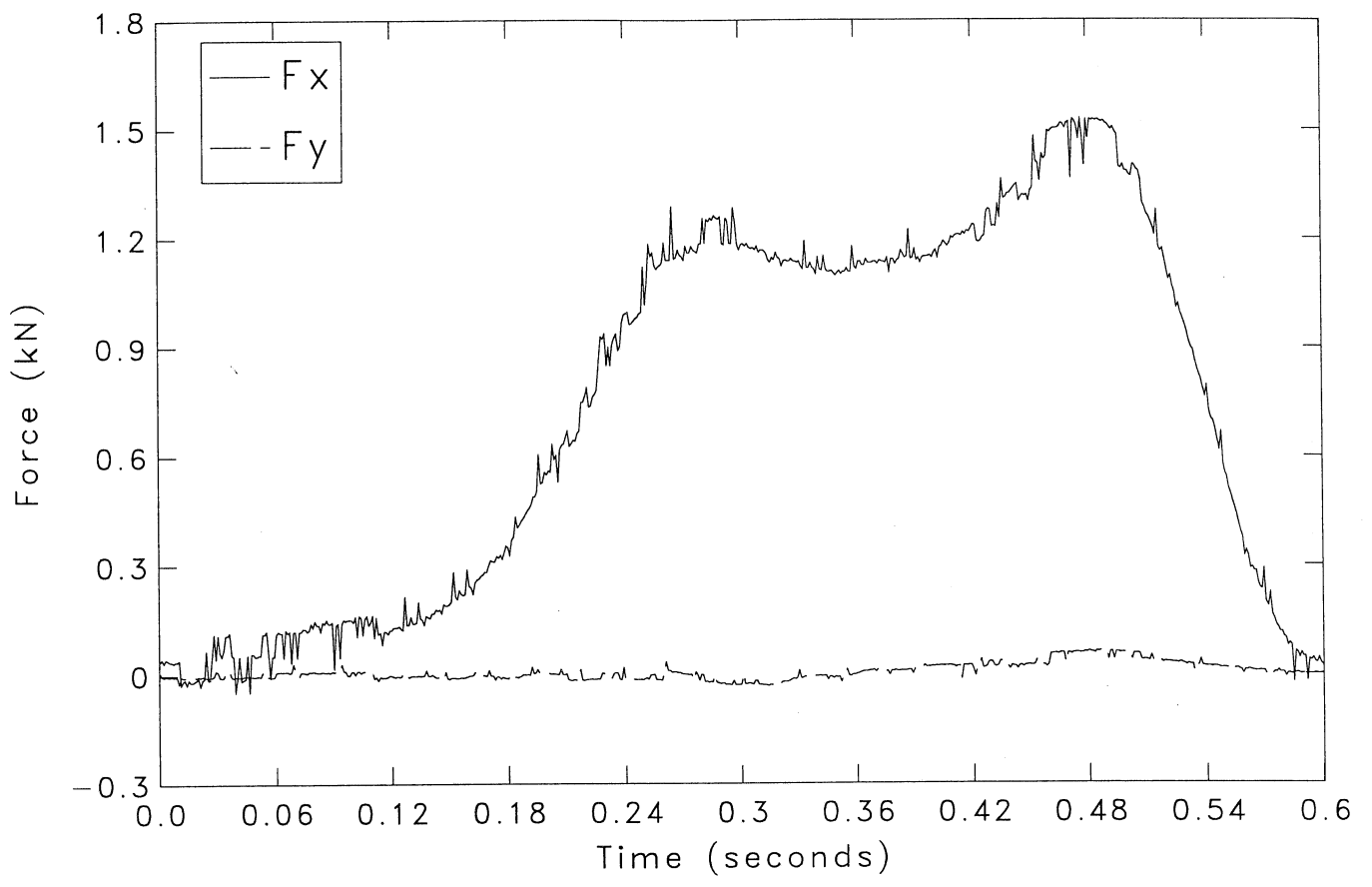


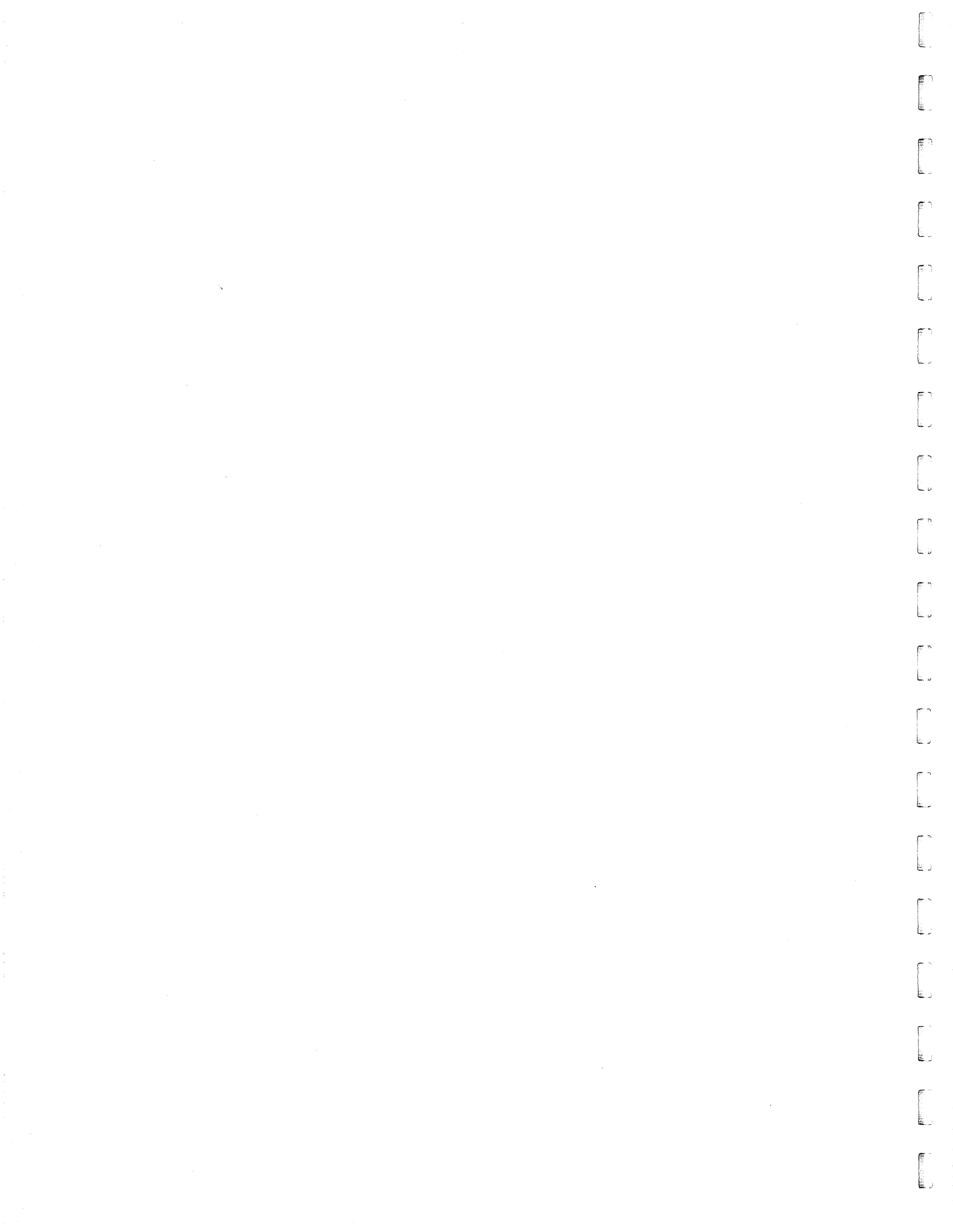
Floe Velocity = 33mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

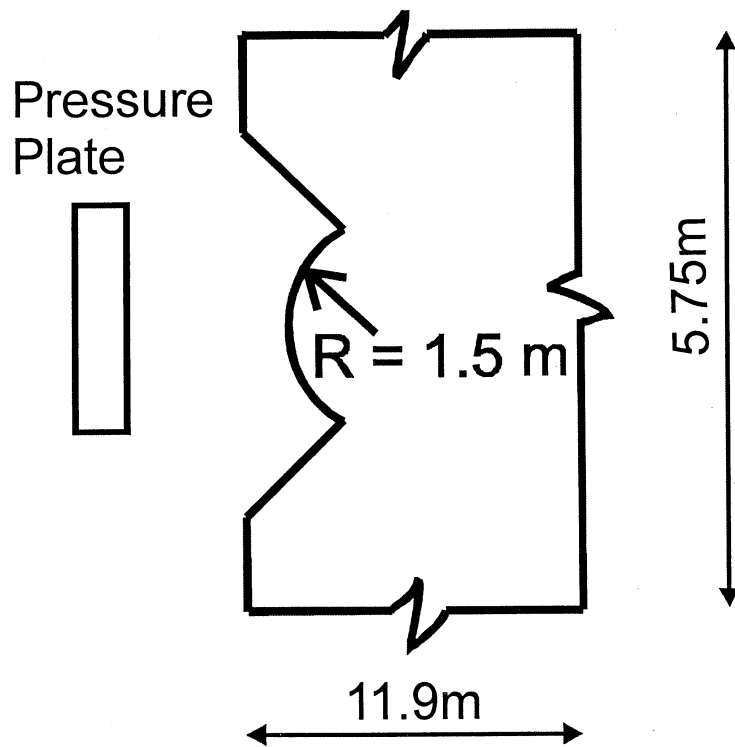
Exaggerated details for clarity

Test 15





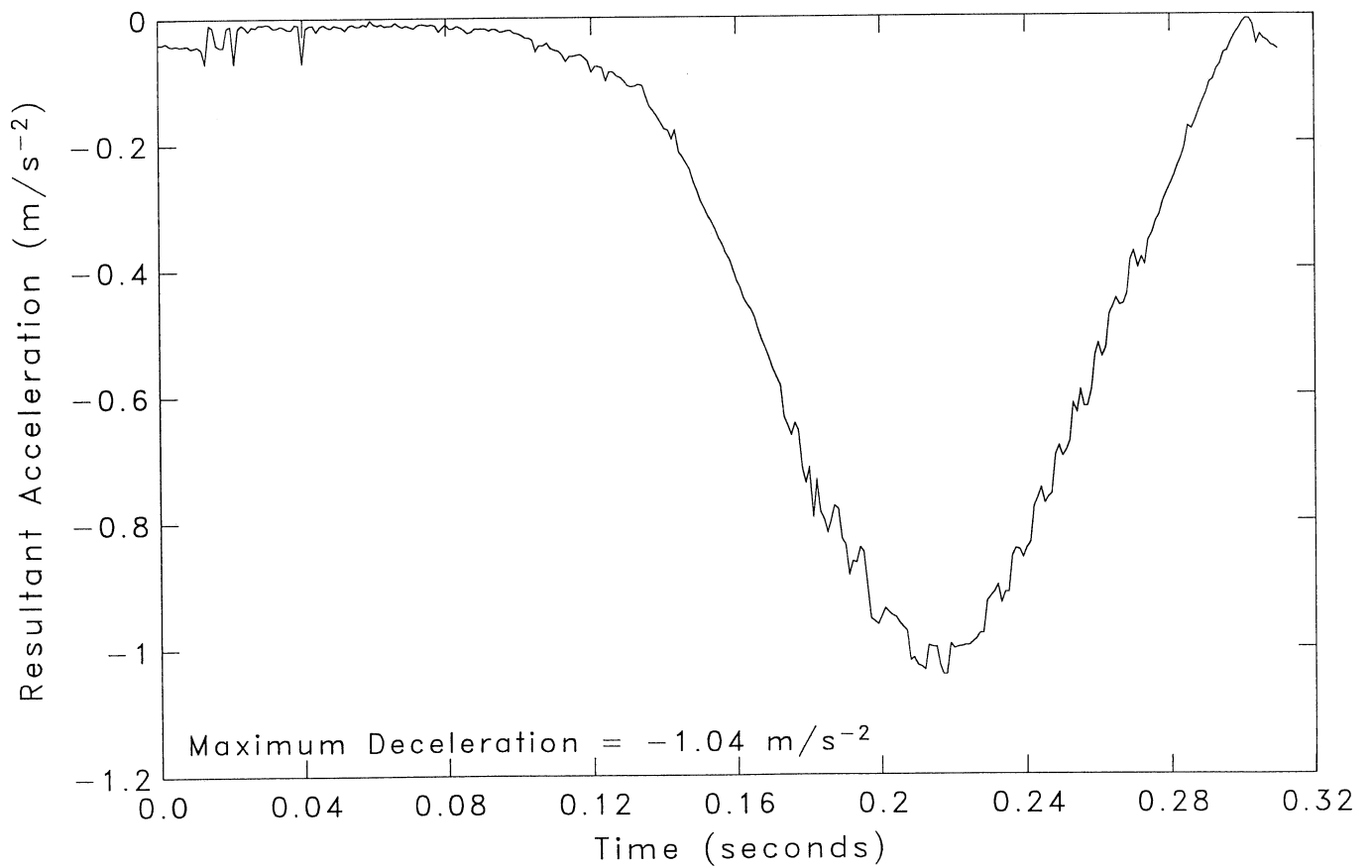
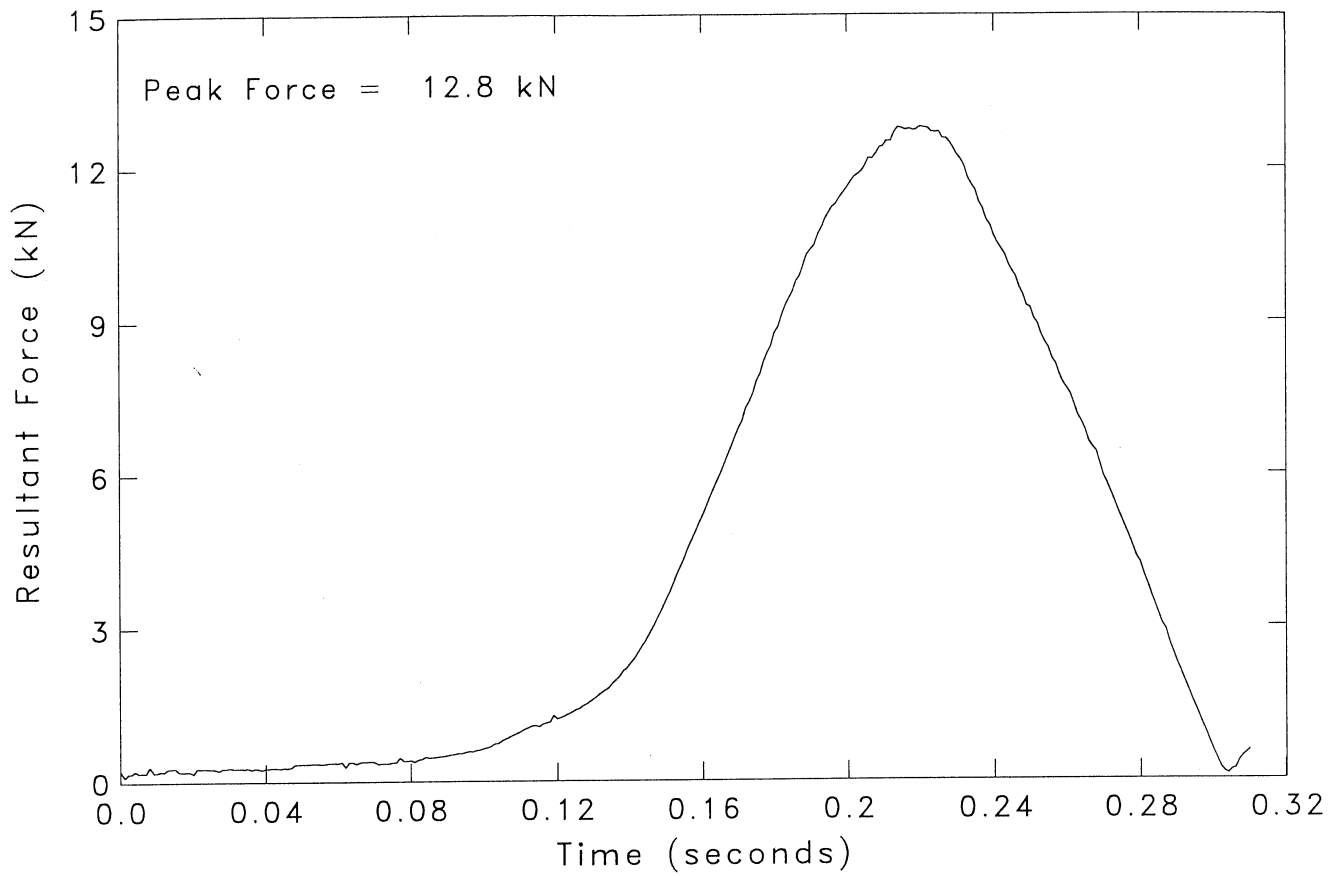


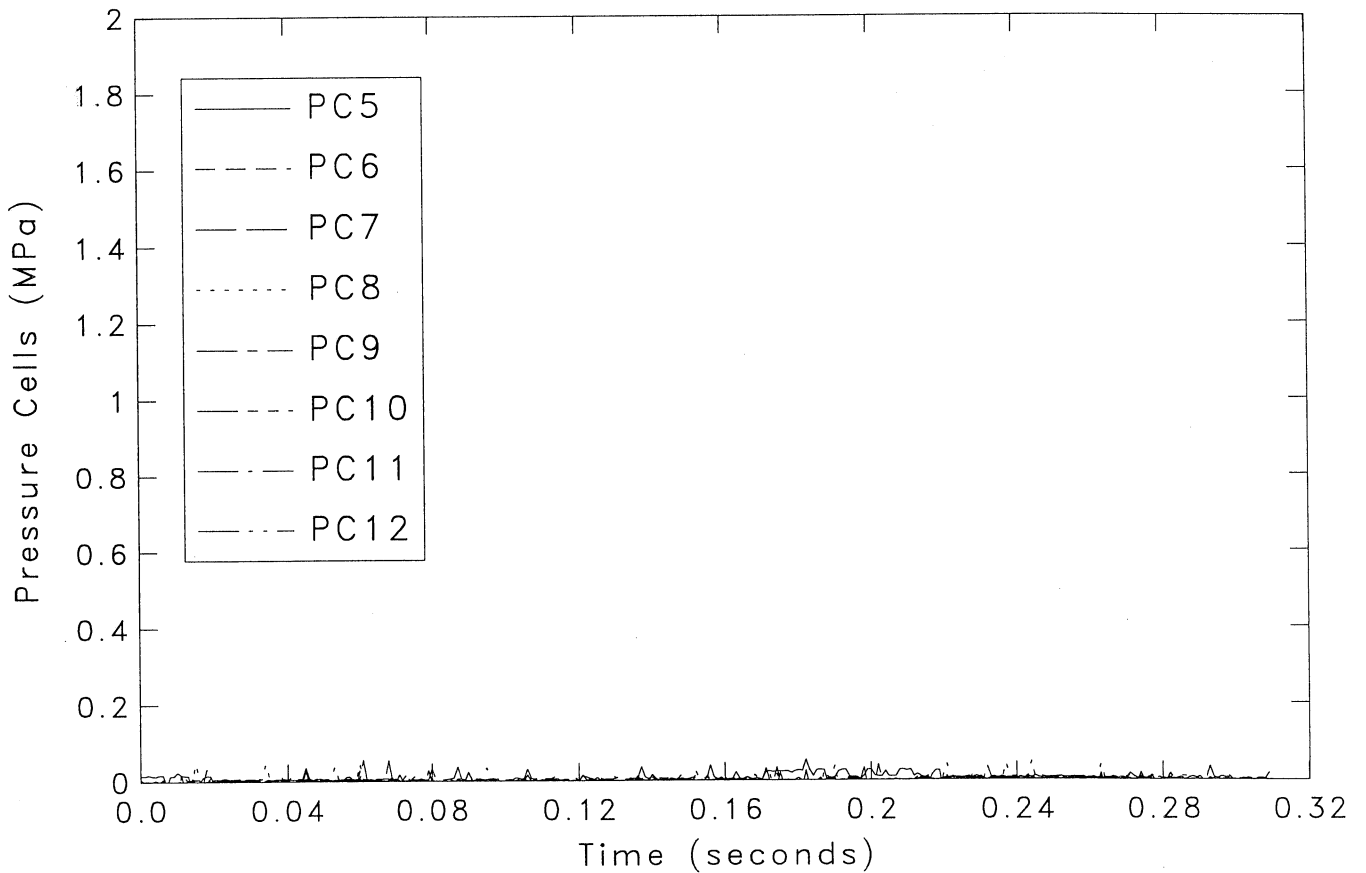
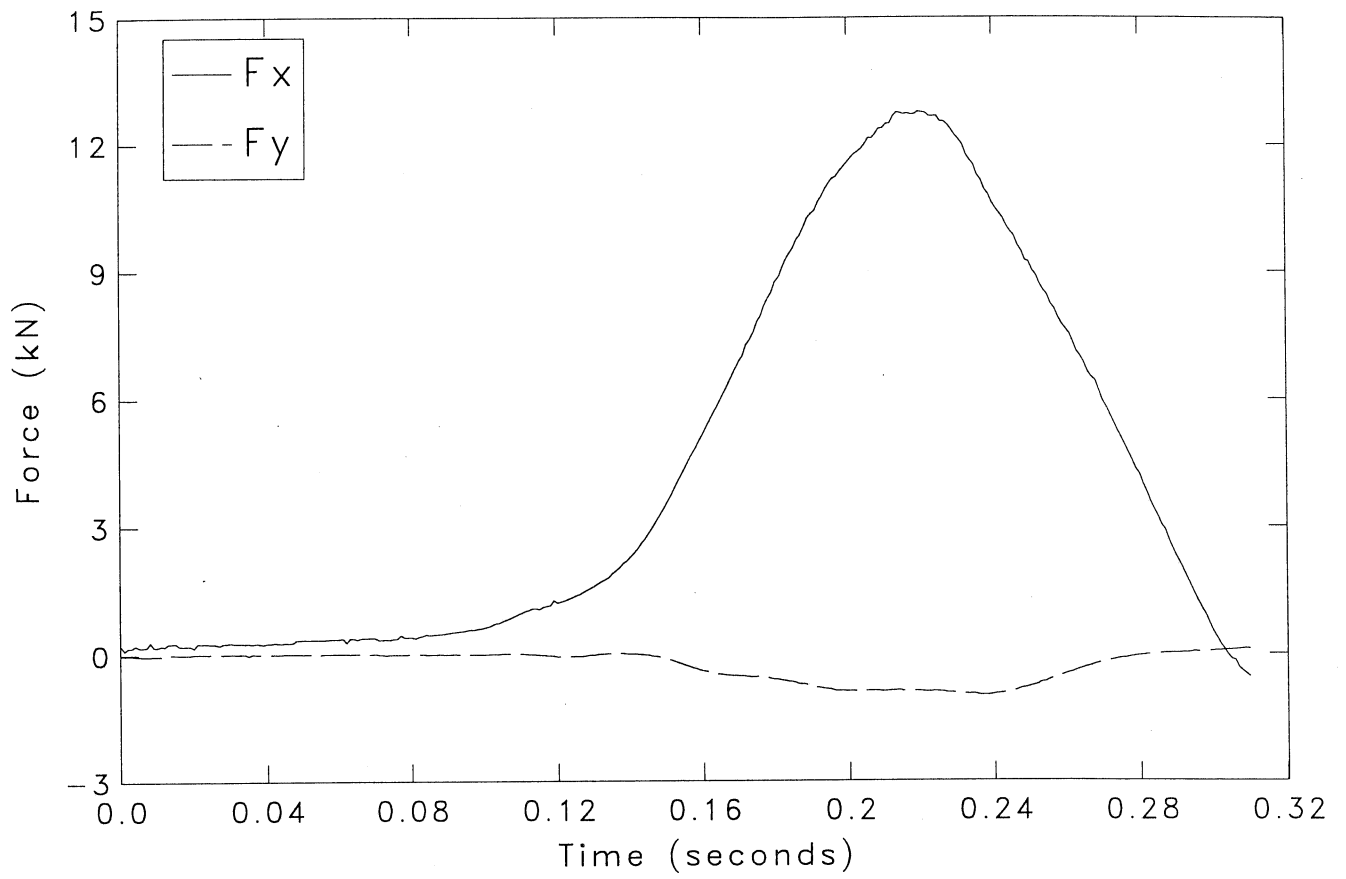


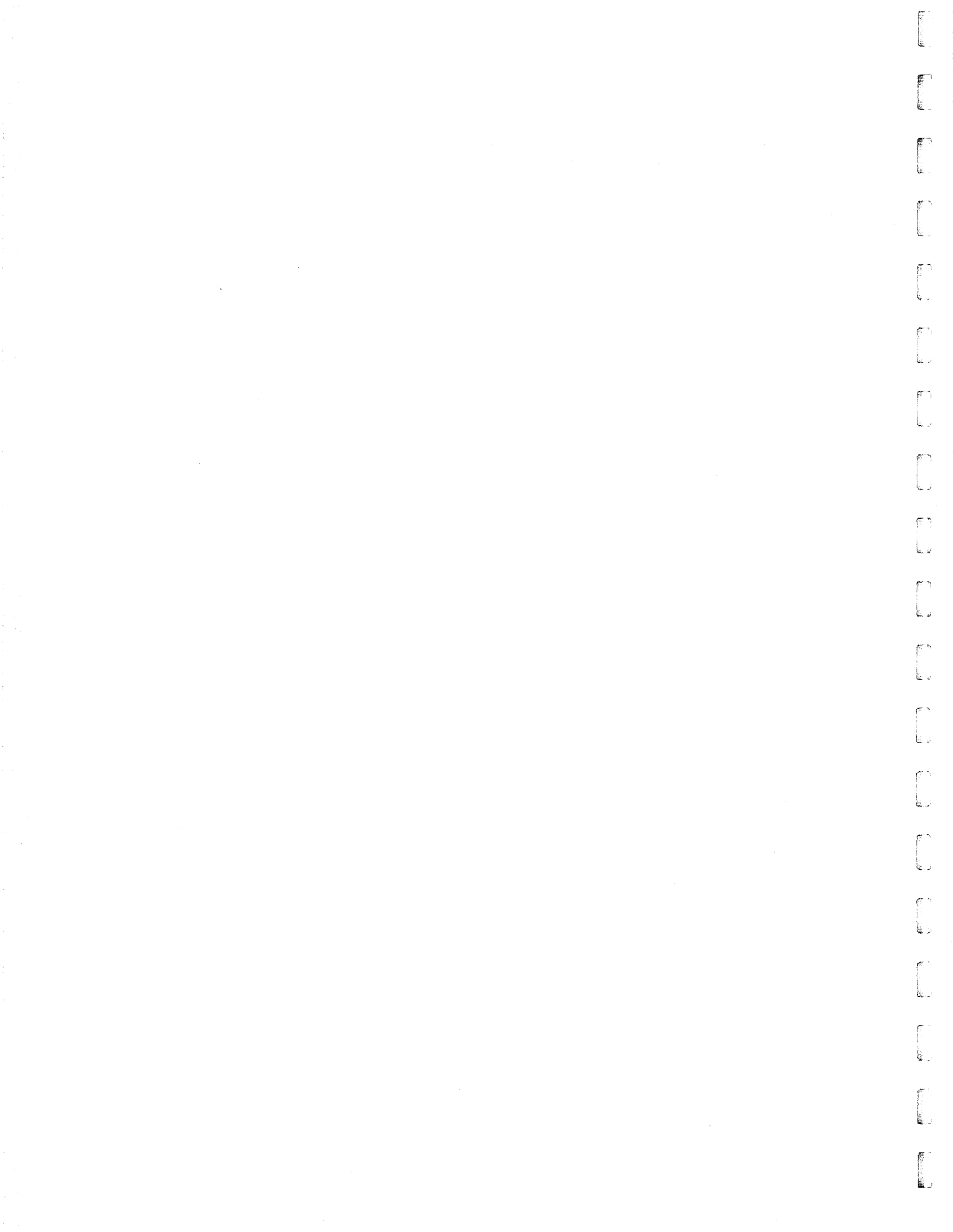
Floe Velocity = 64mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

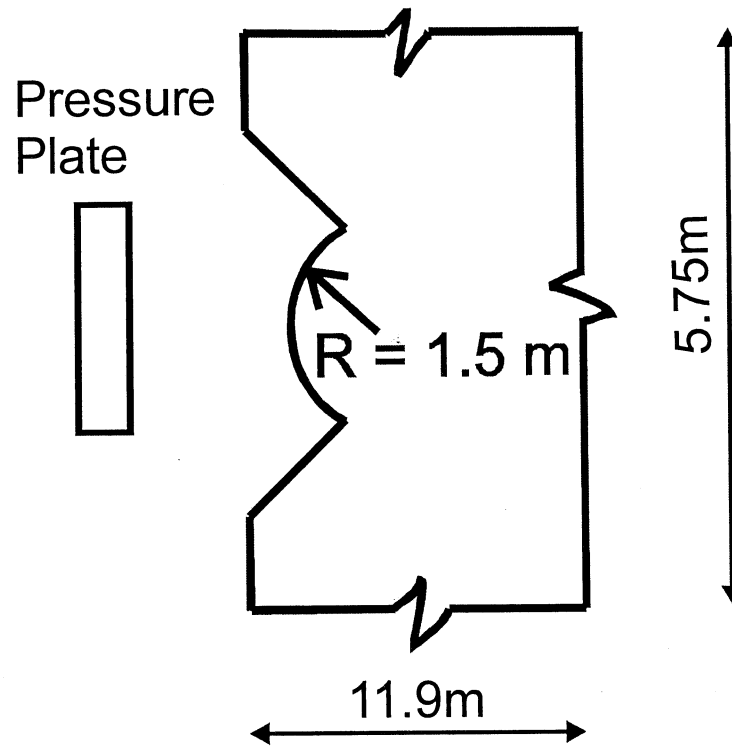
Exaggerated details for clarity

Test 16





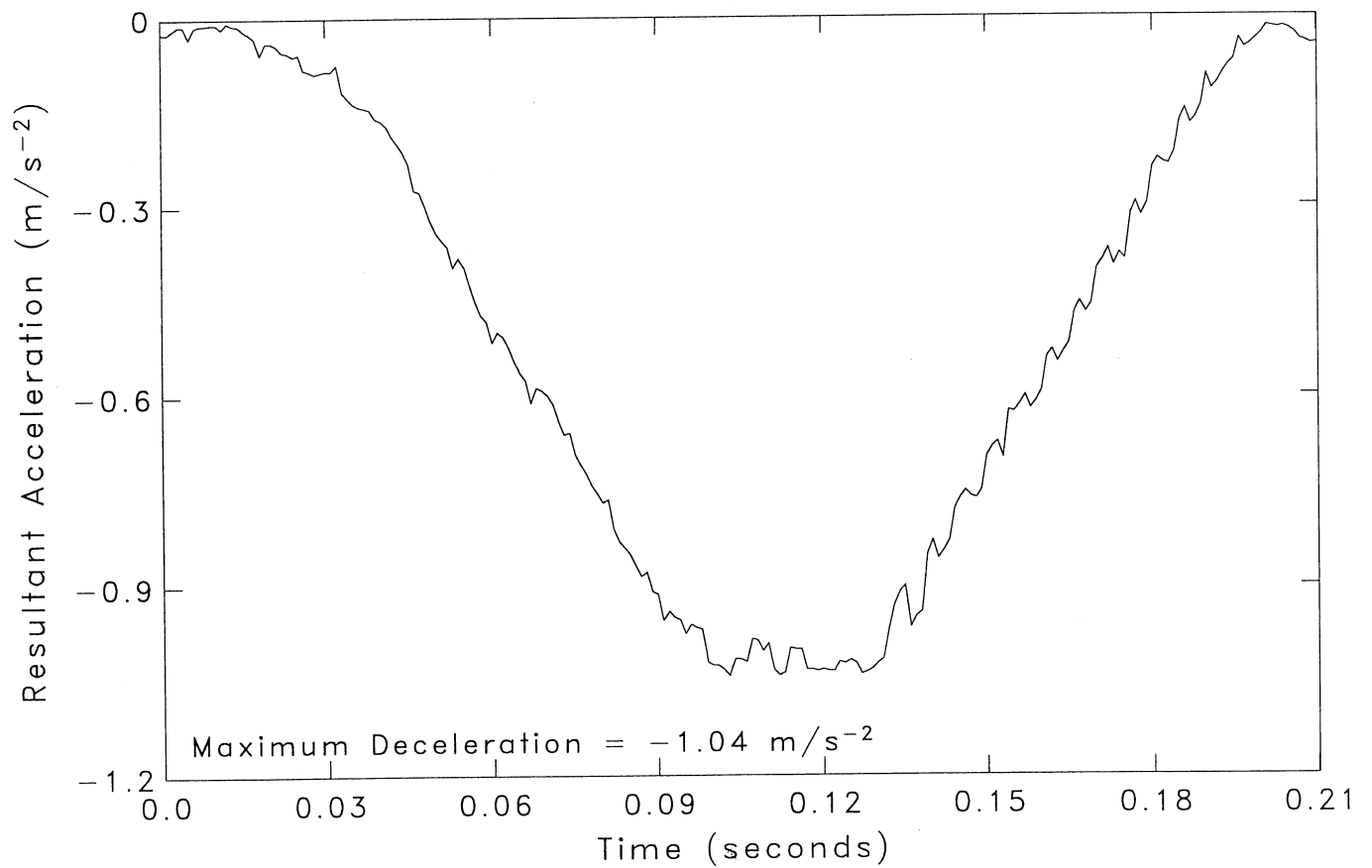
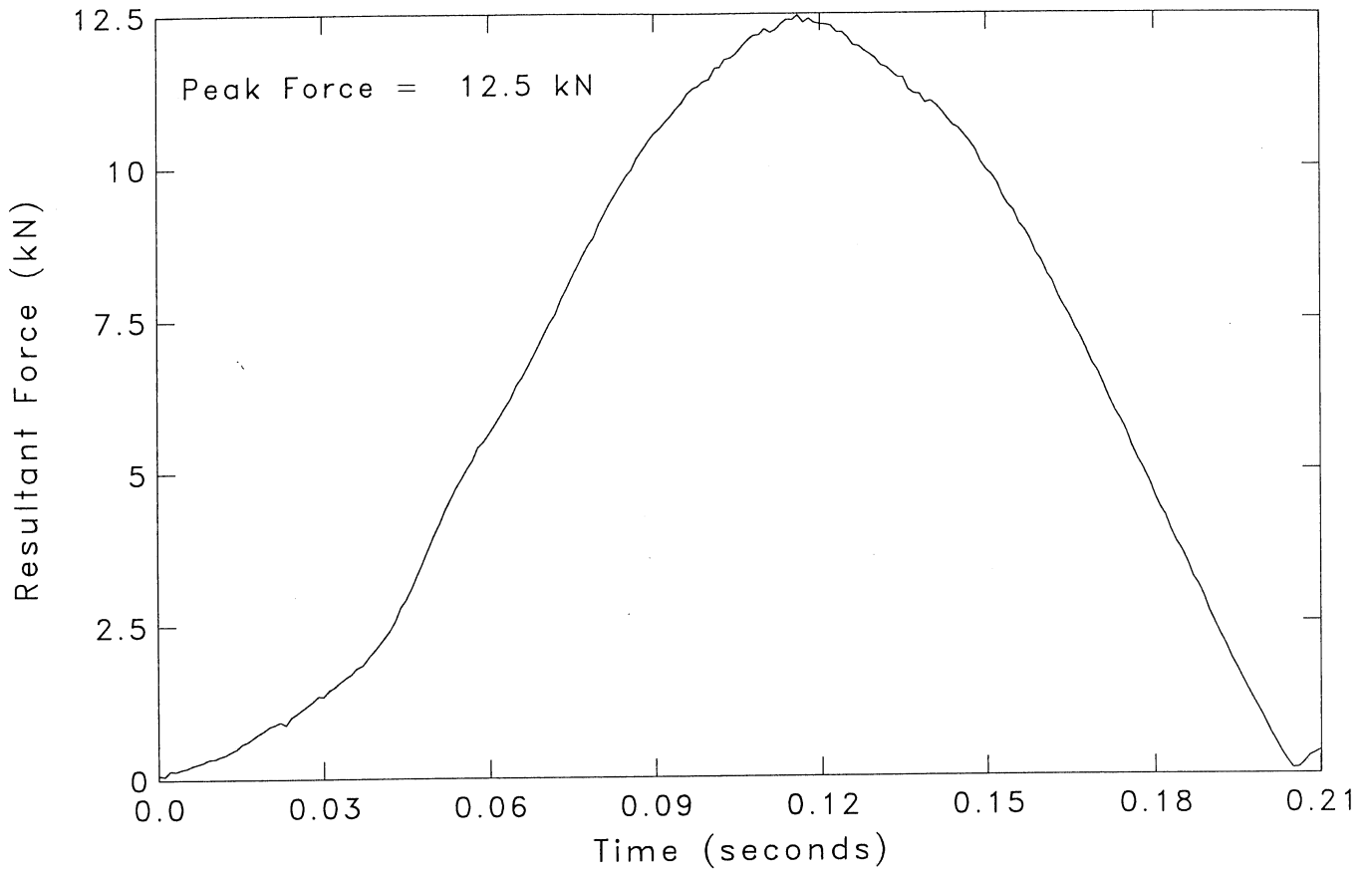


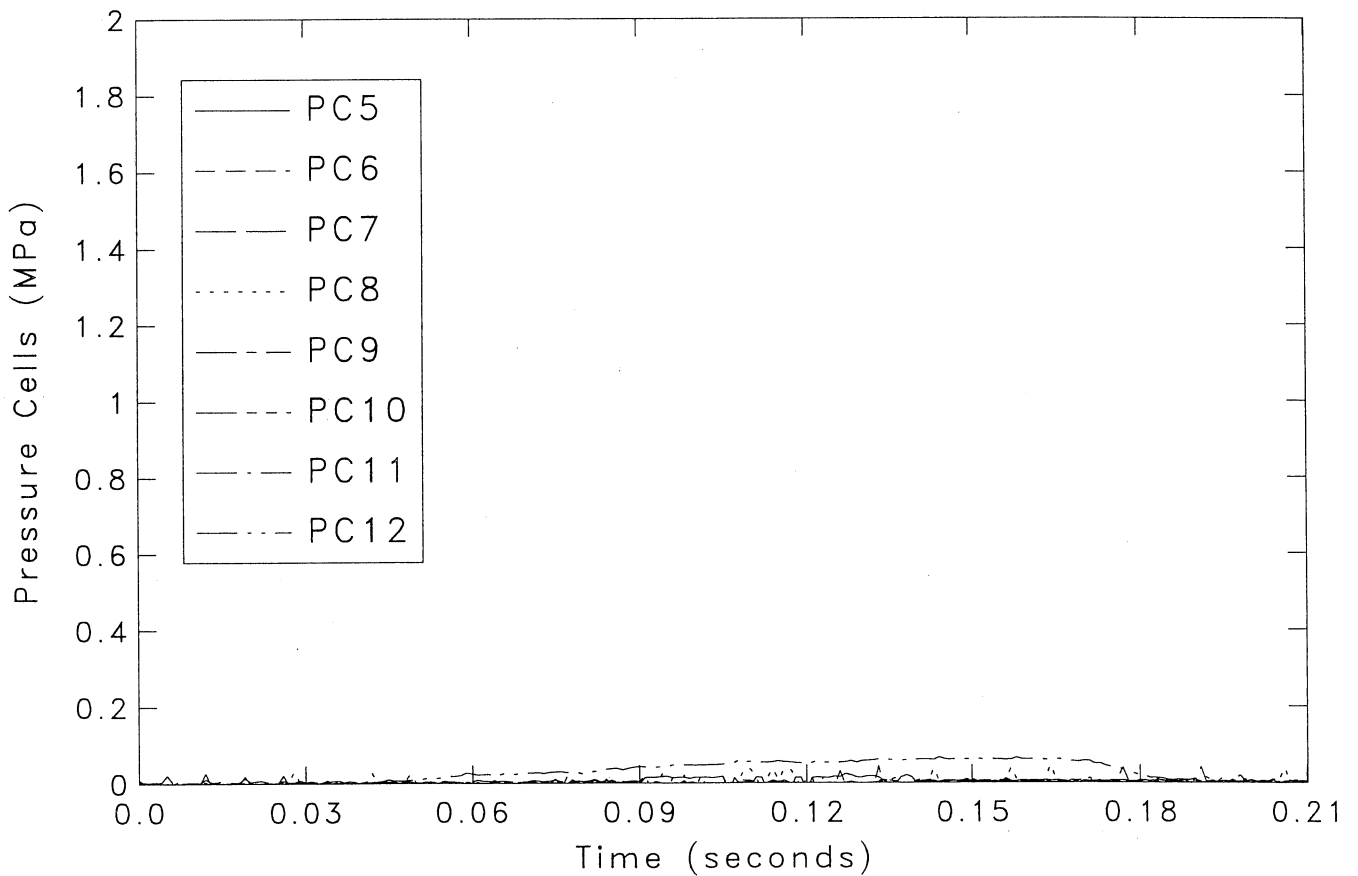
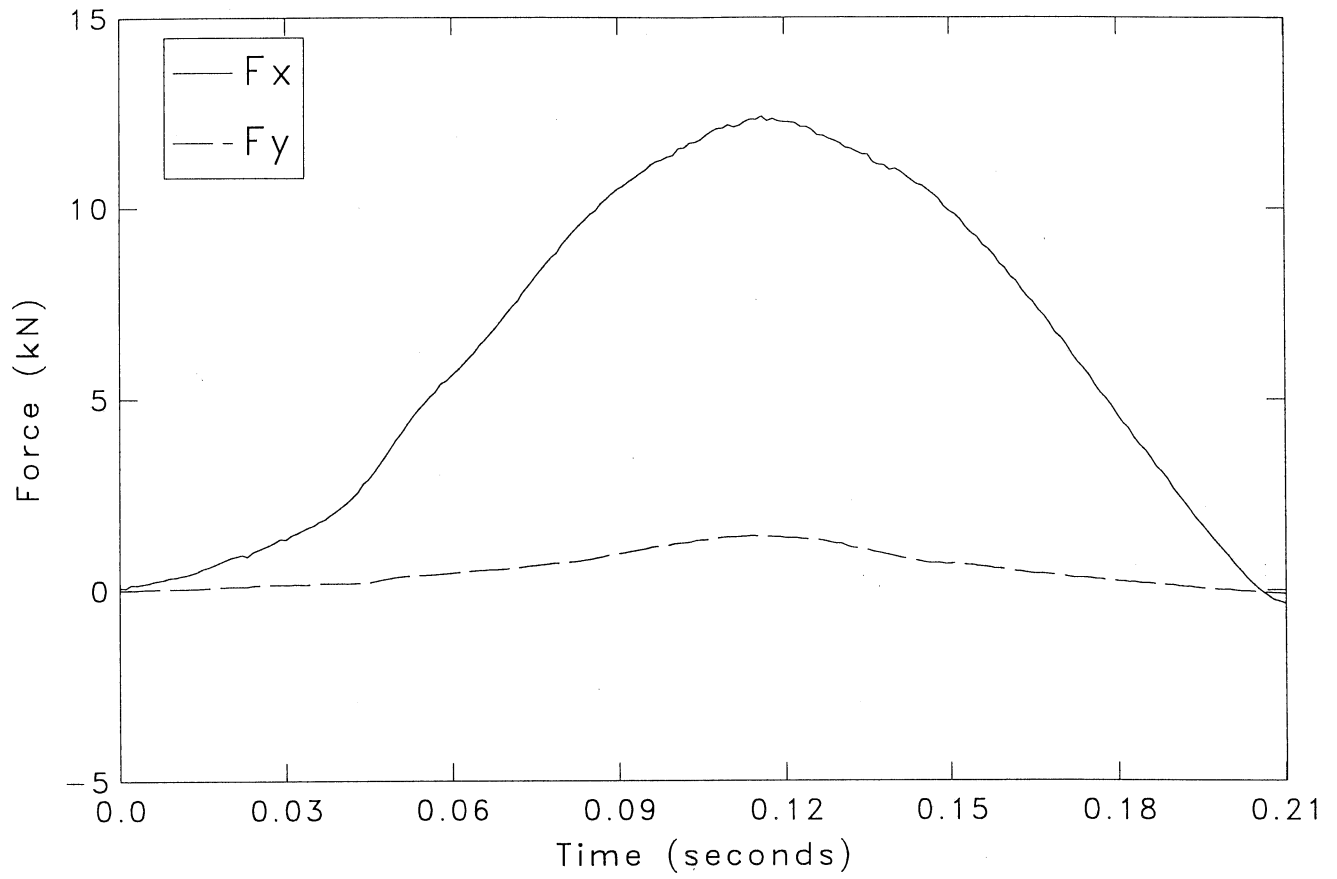


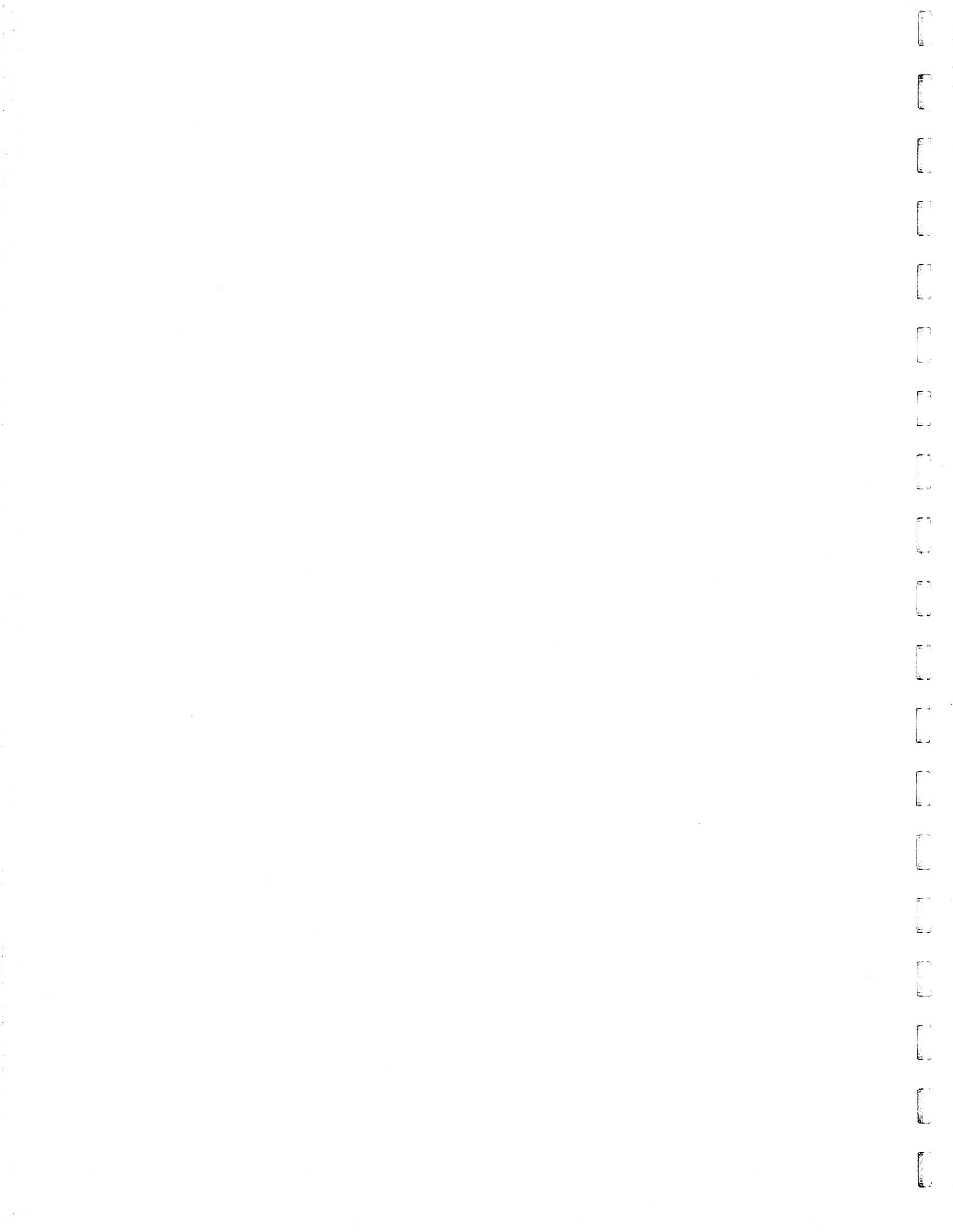
Floe Velocity = 45mm/s
Floe Mass = 14.3t
Impact Edge Shape = curve

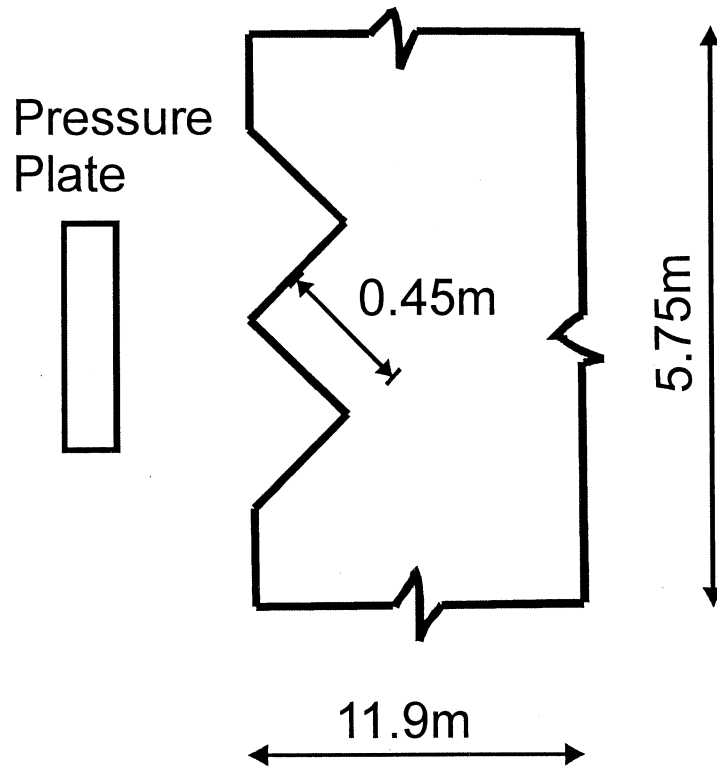
Exaggerated details for clarity

Test 17





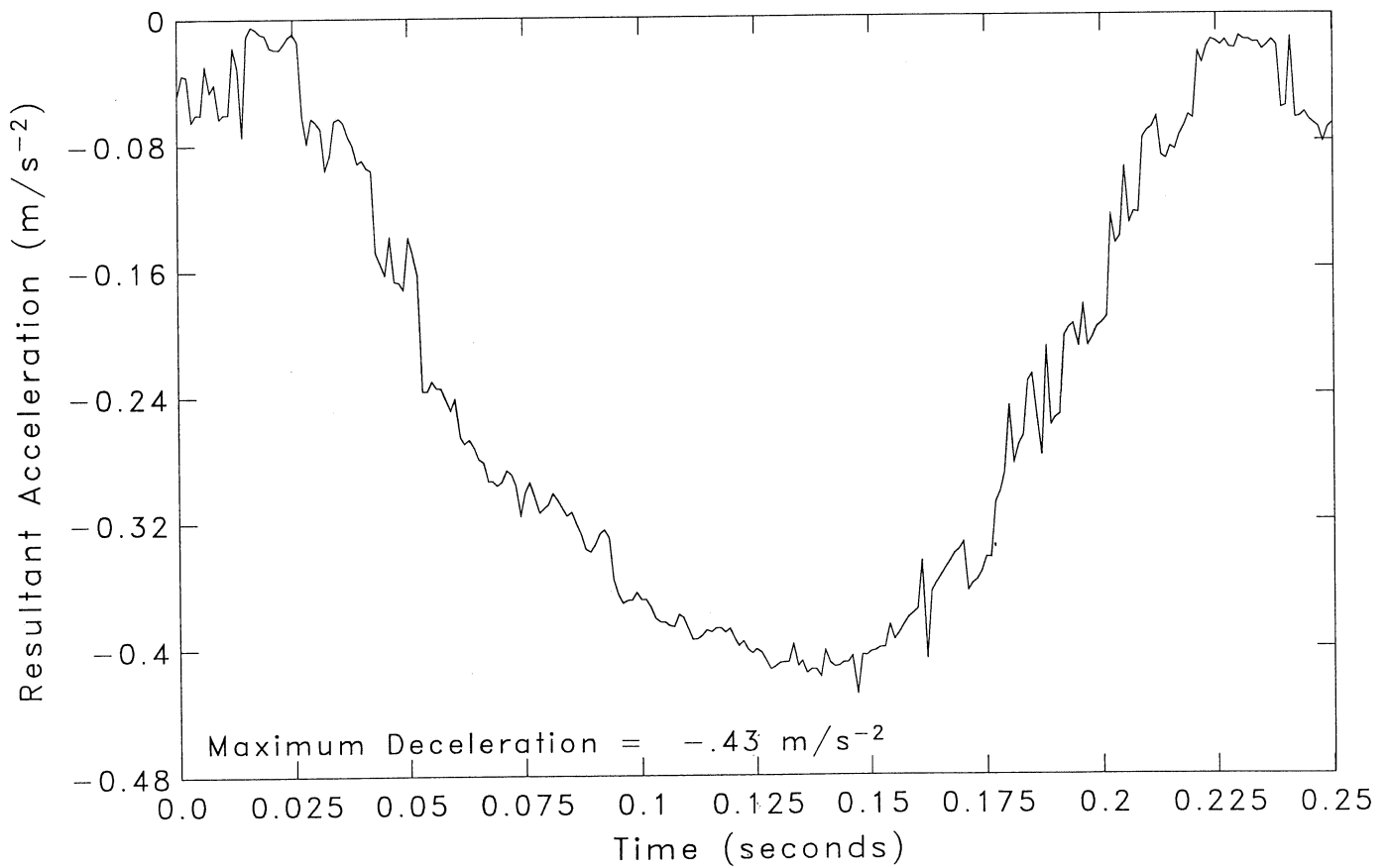
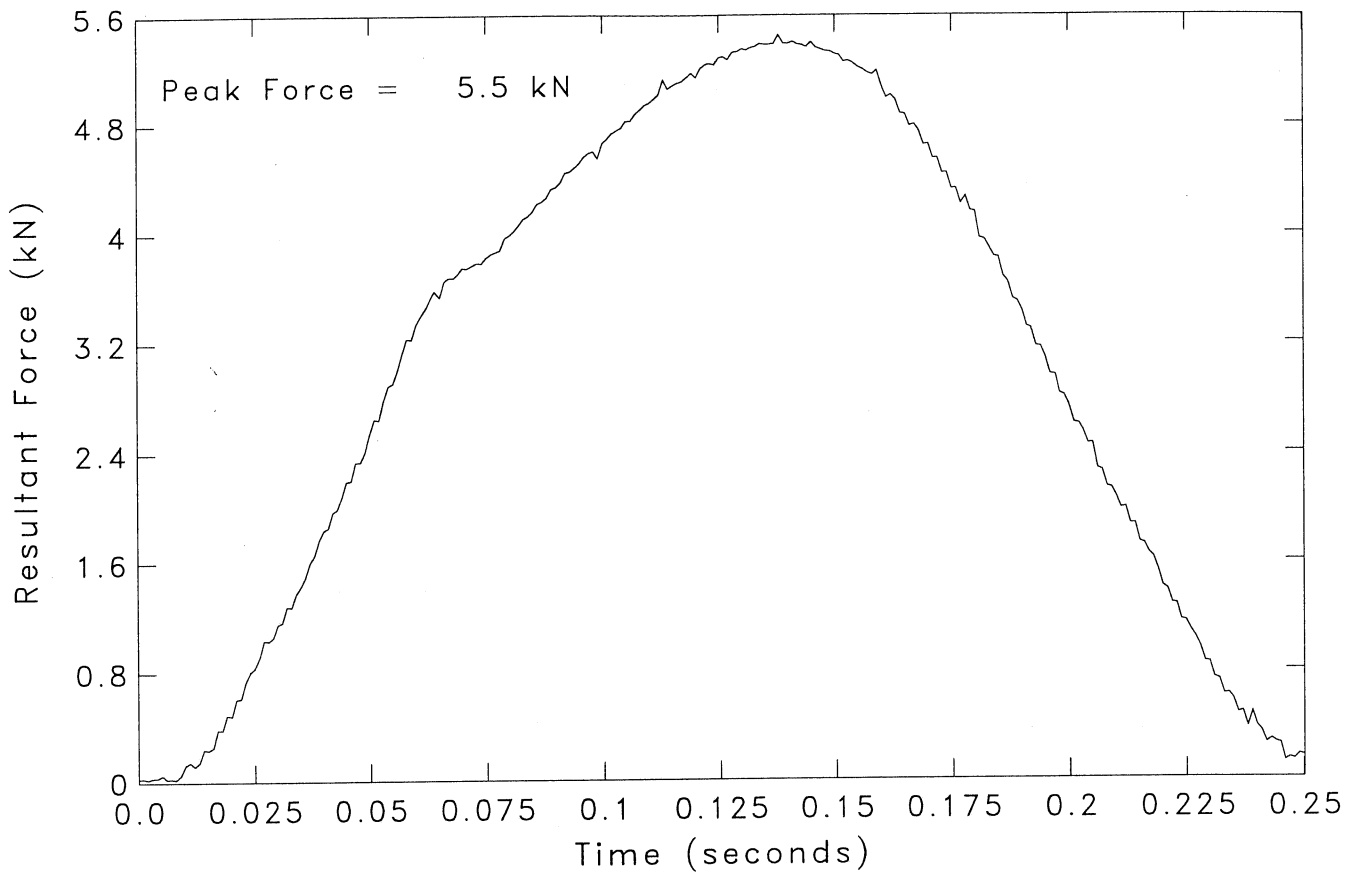


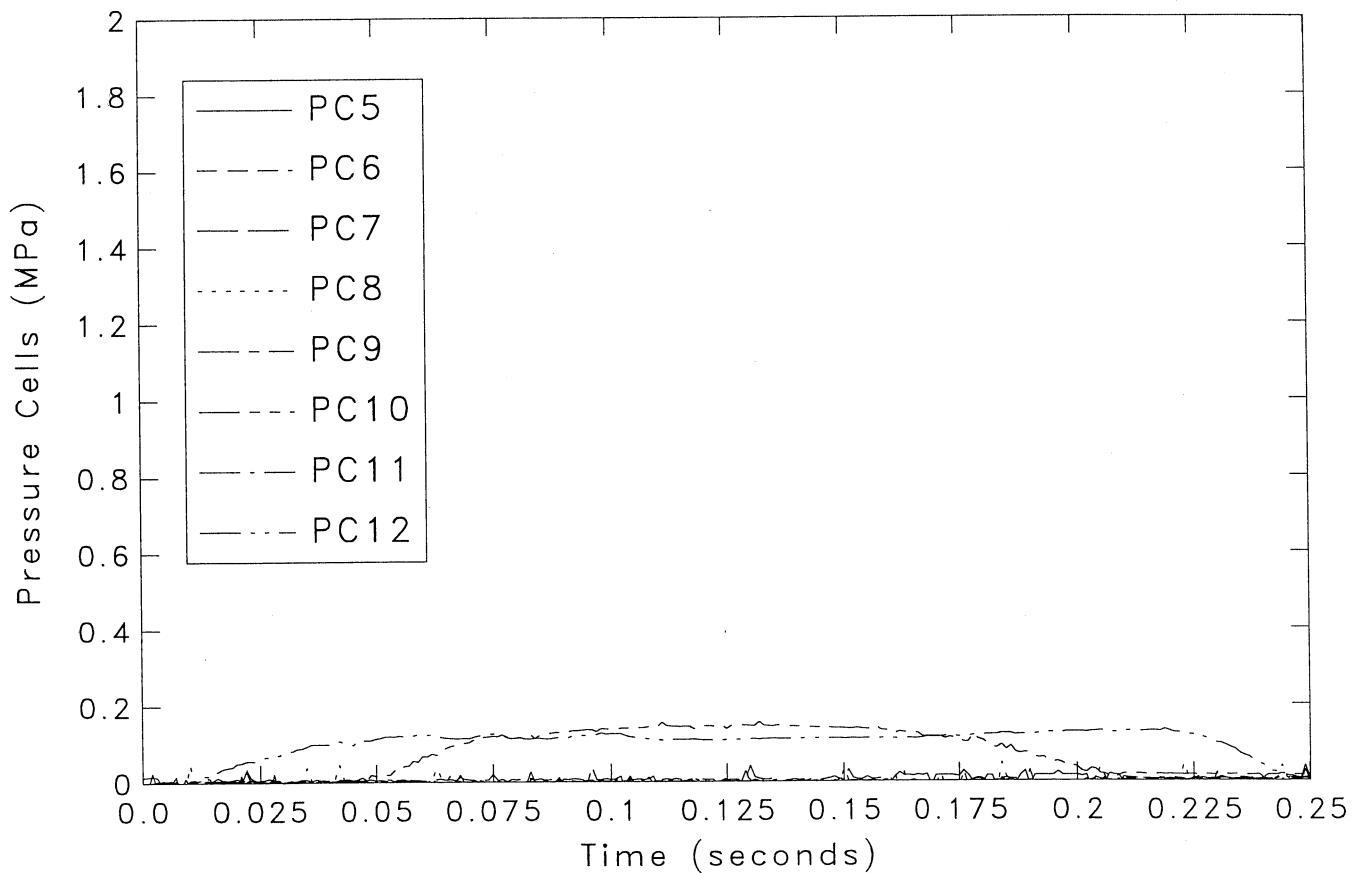
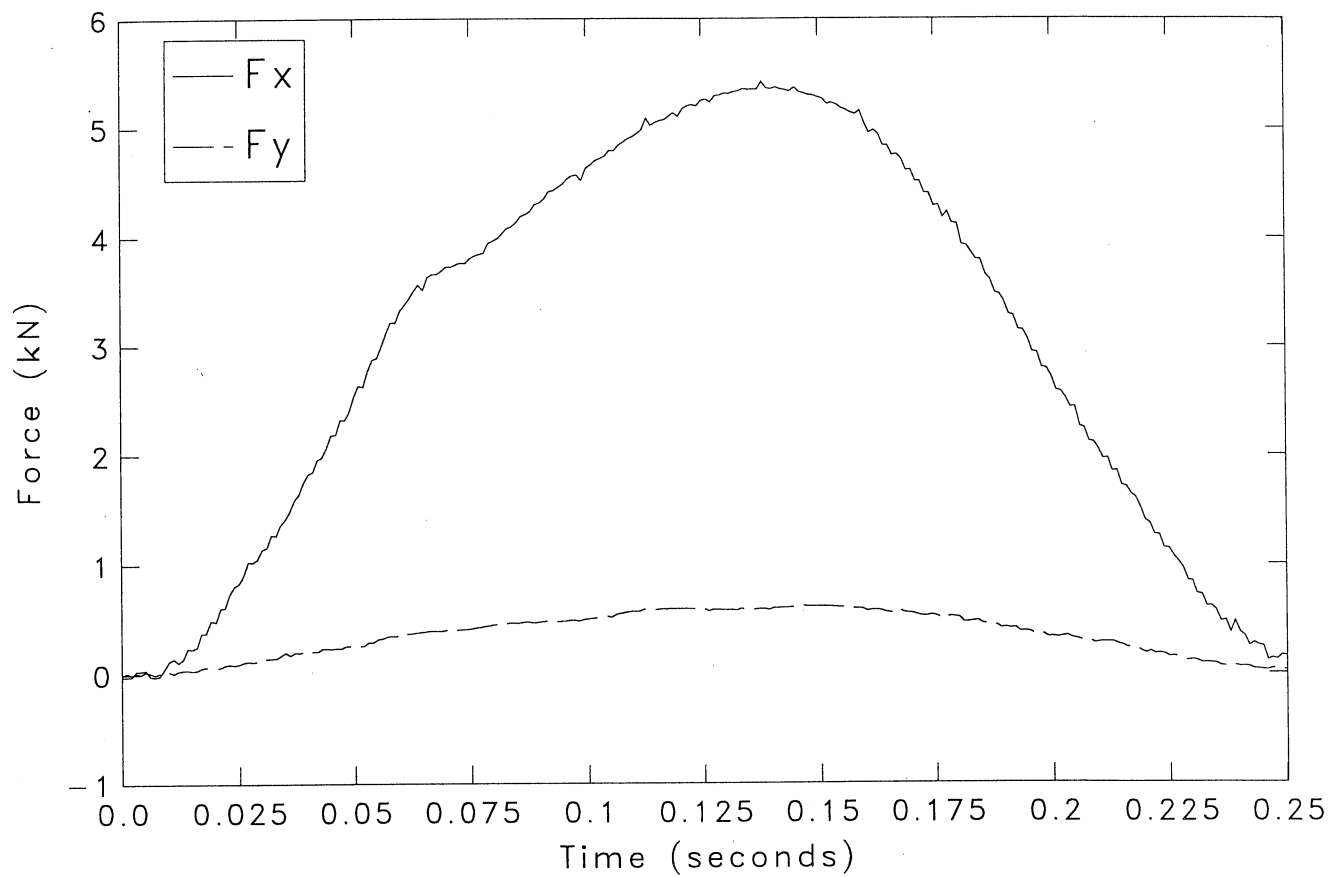


Floe Velocity = 42mm/s
Floe Mass = 14.3t
Impact Edge Shape = wedge

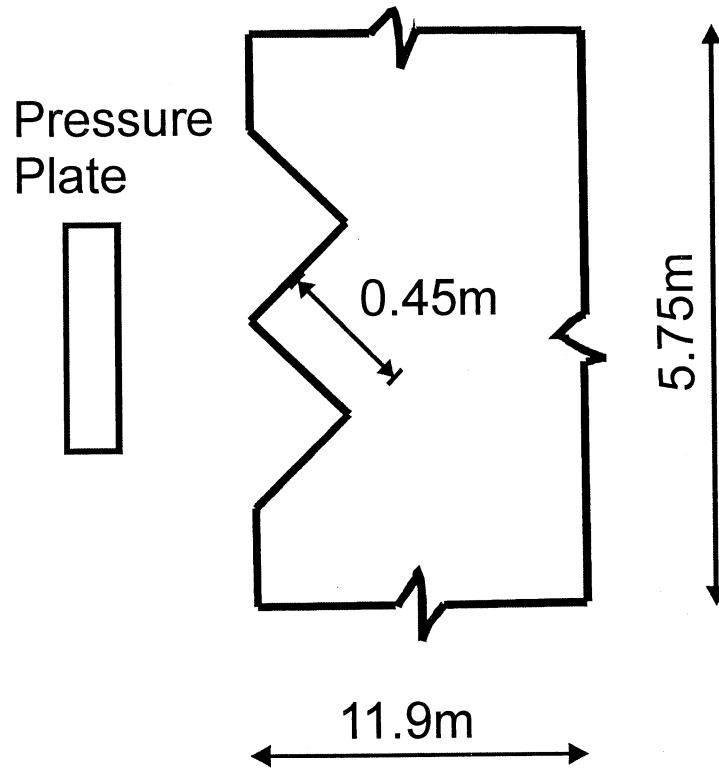
Exaggerated details for clarity

Test 18





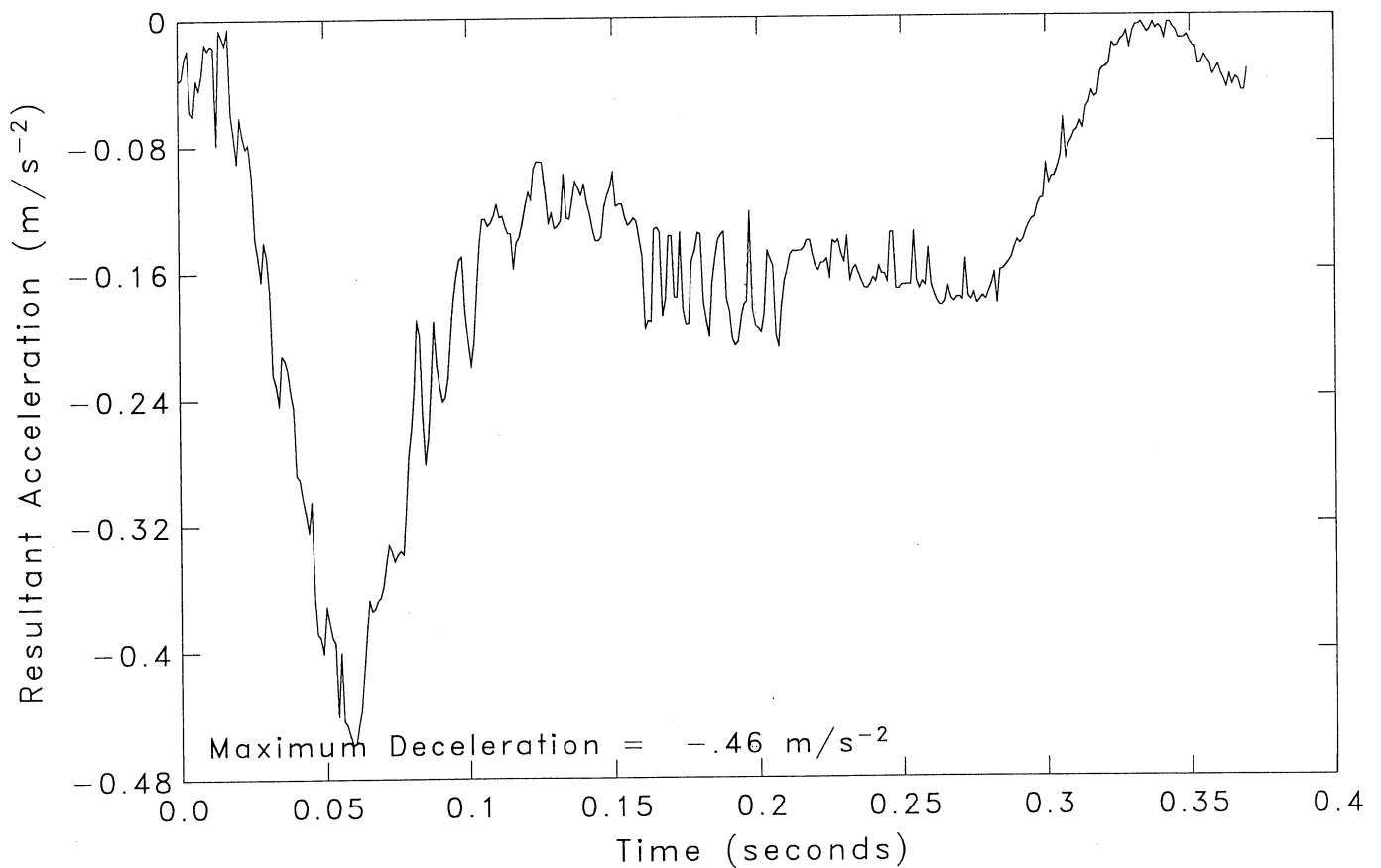
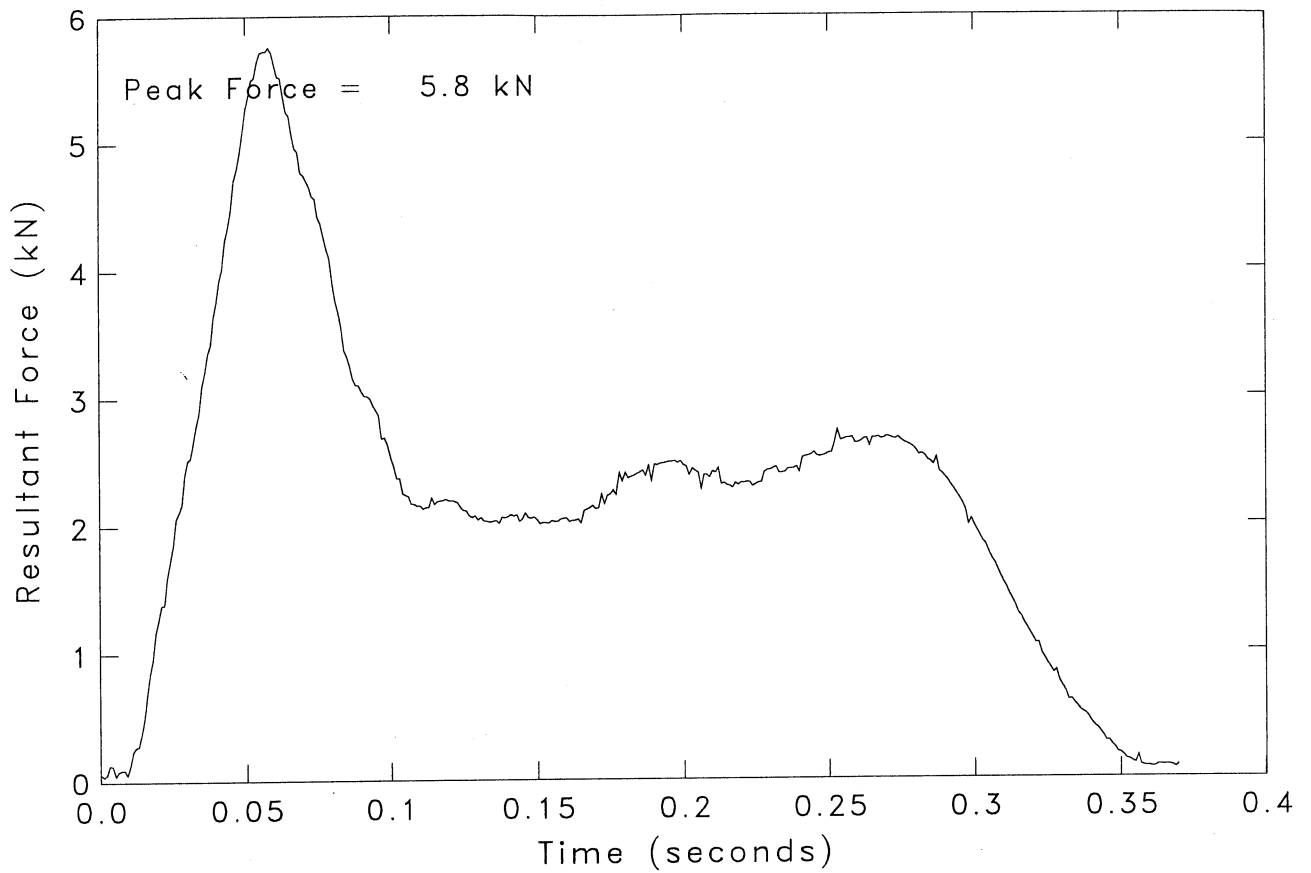


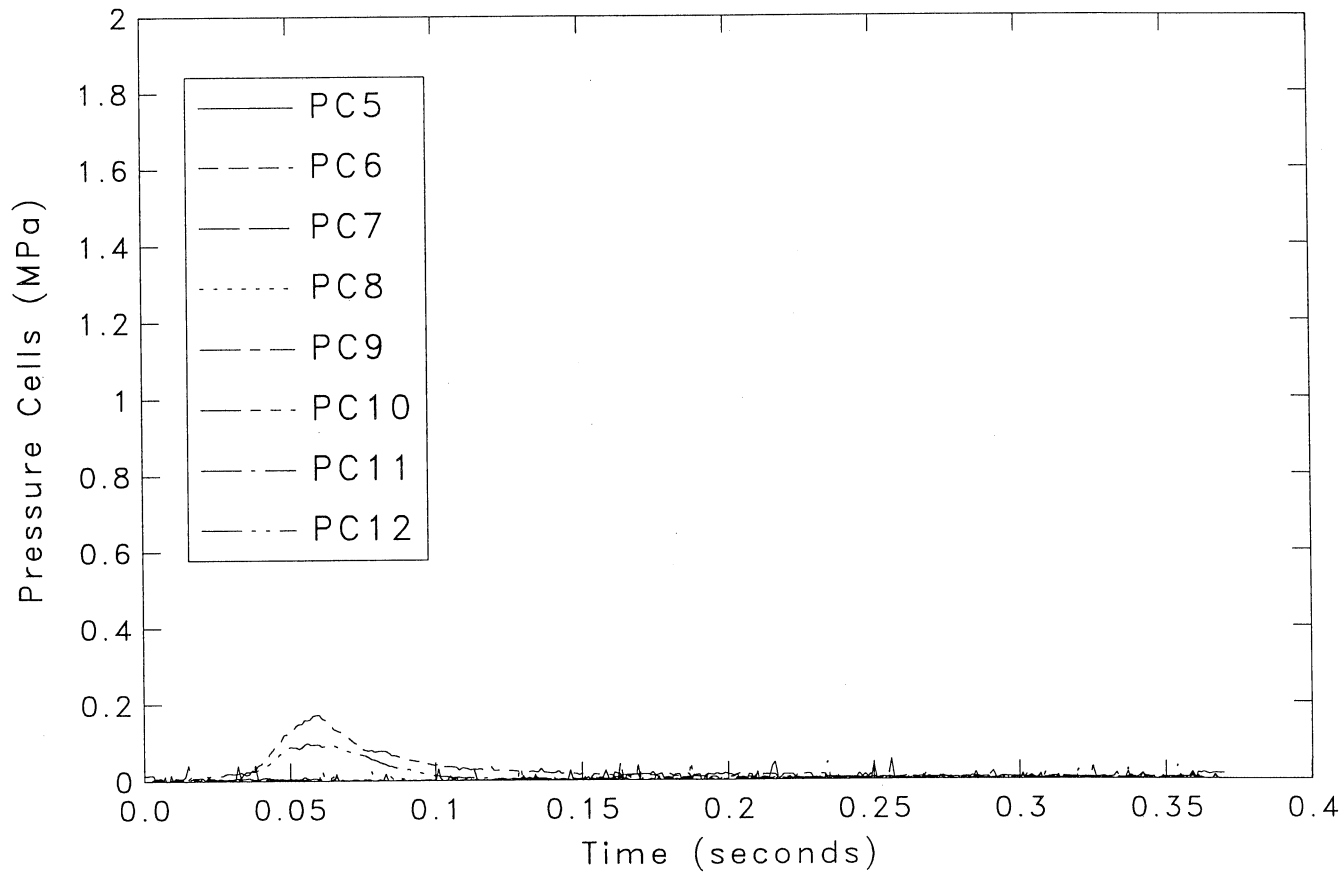
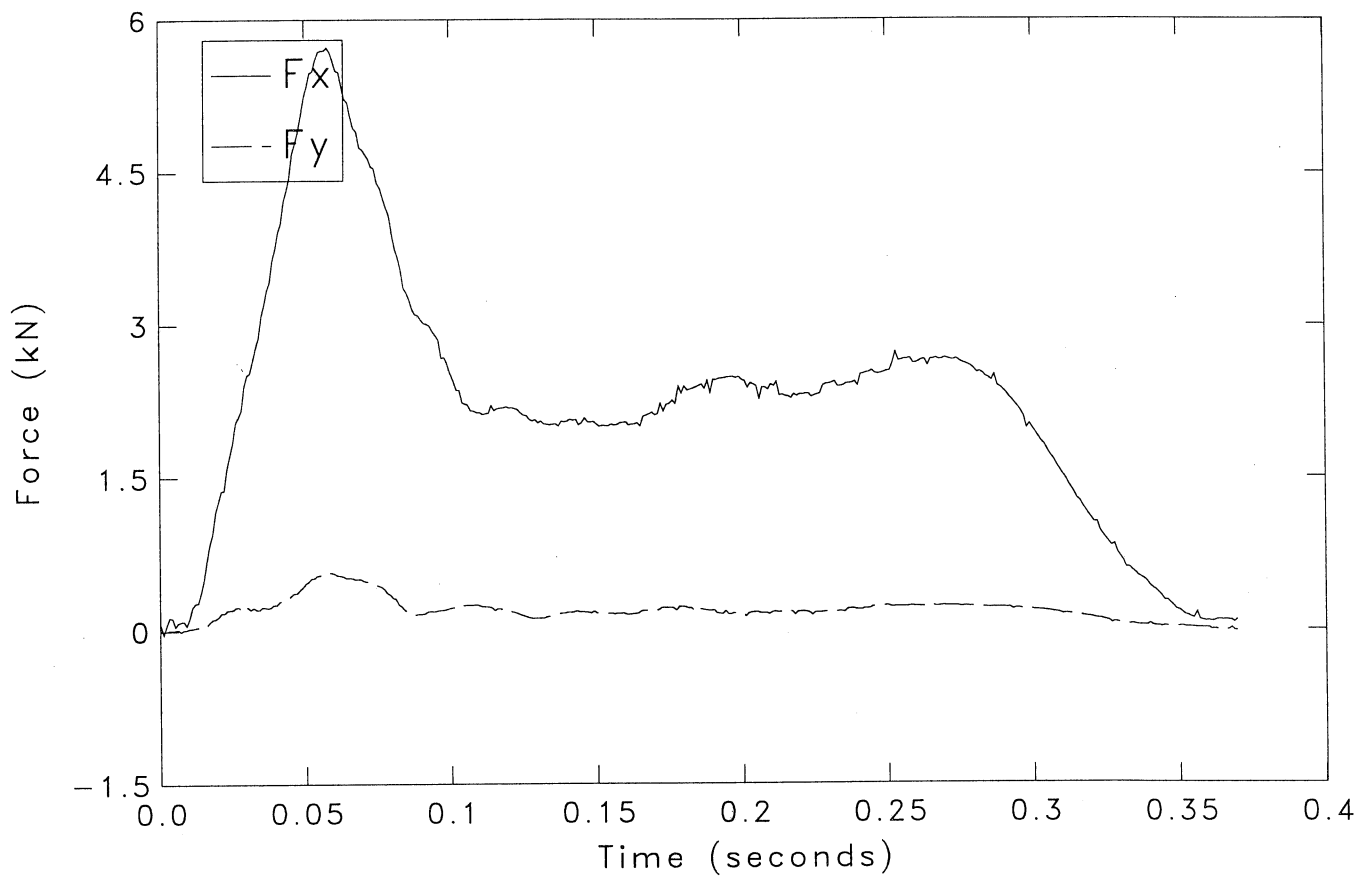


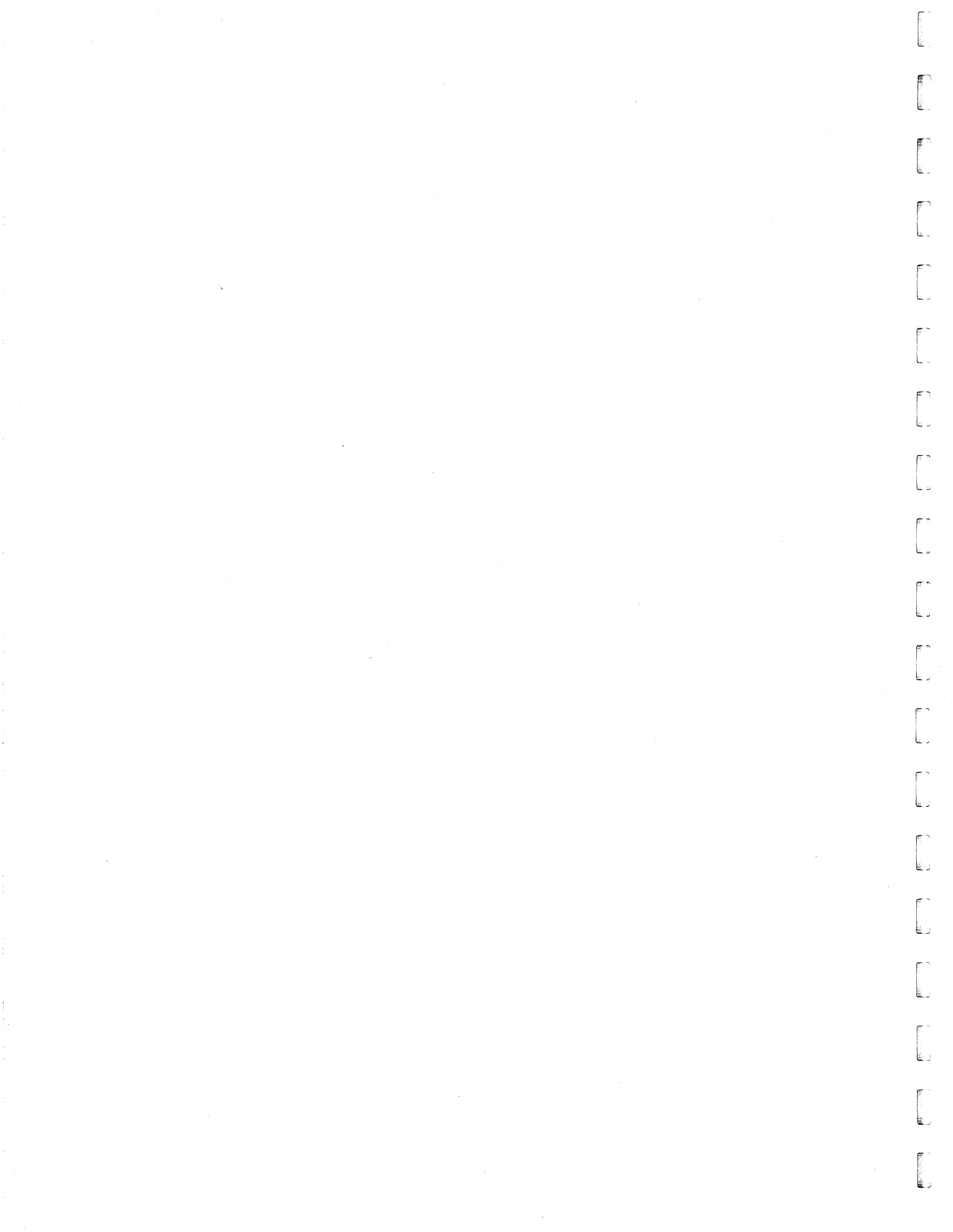
Floe Velocity = 57mm/s
Floe Mass = 14.3t
Impact Edge Shape = wedge

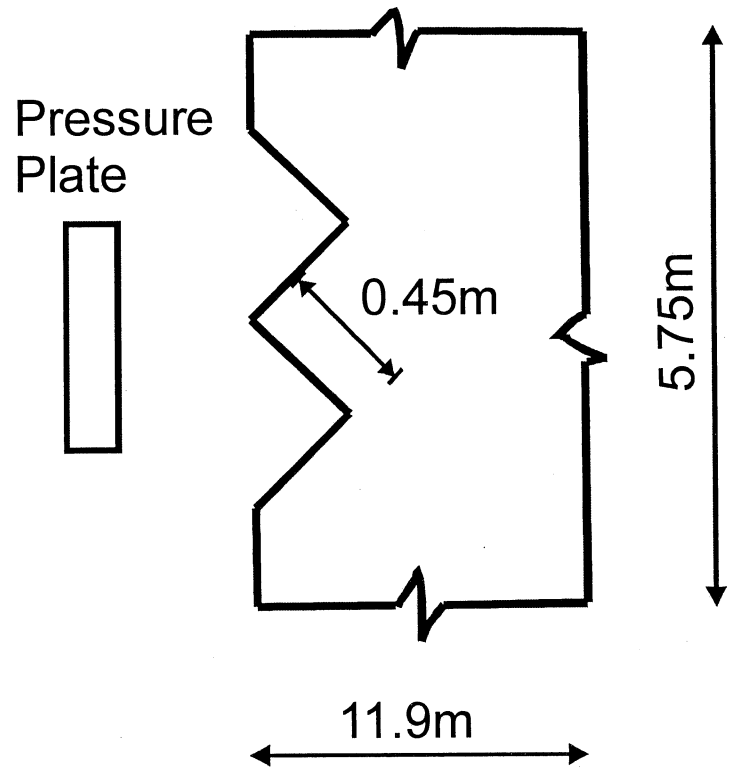
Exaggerated details for clarity

Test 19





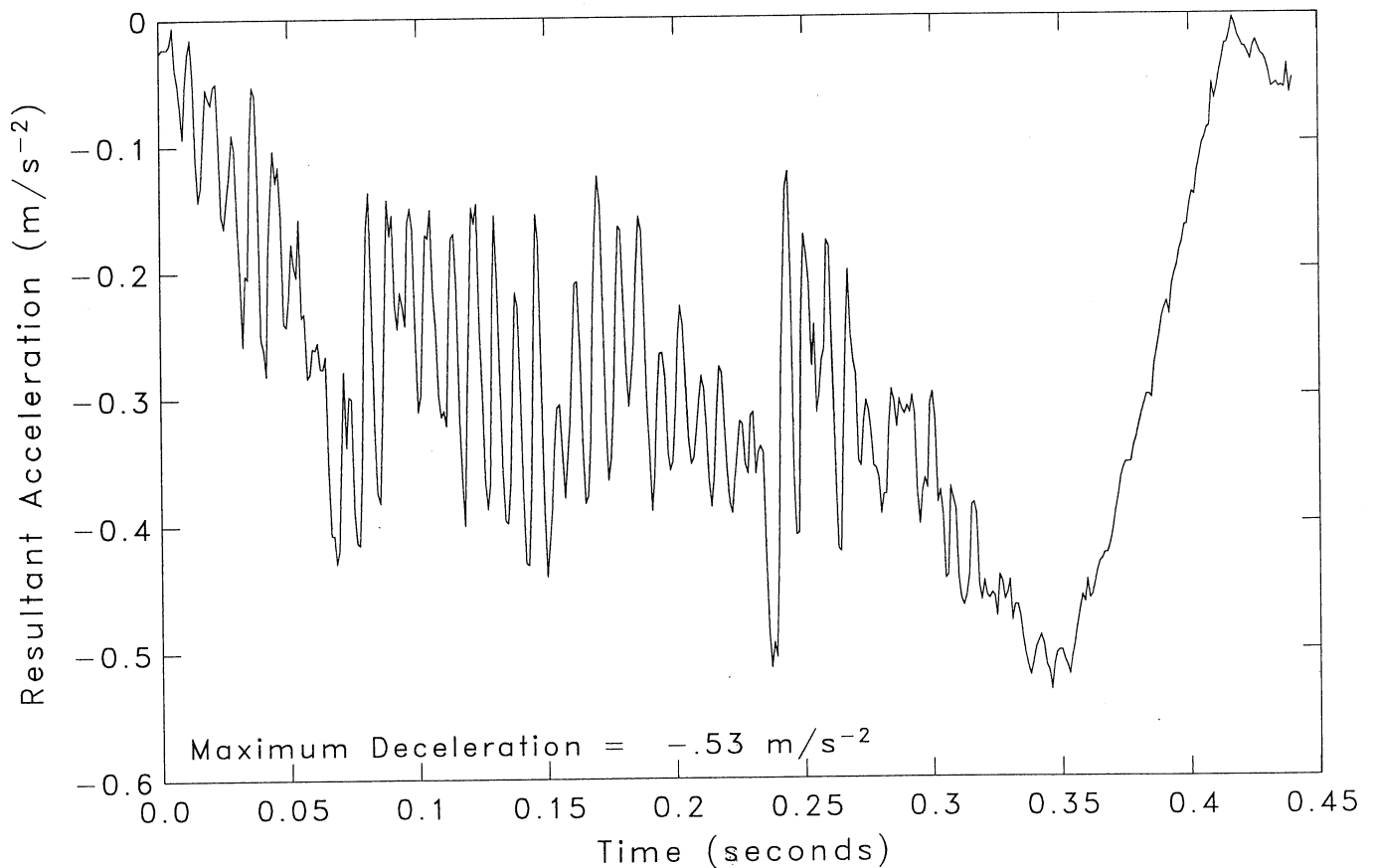
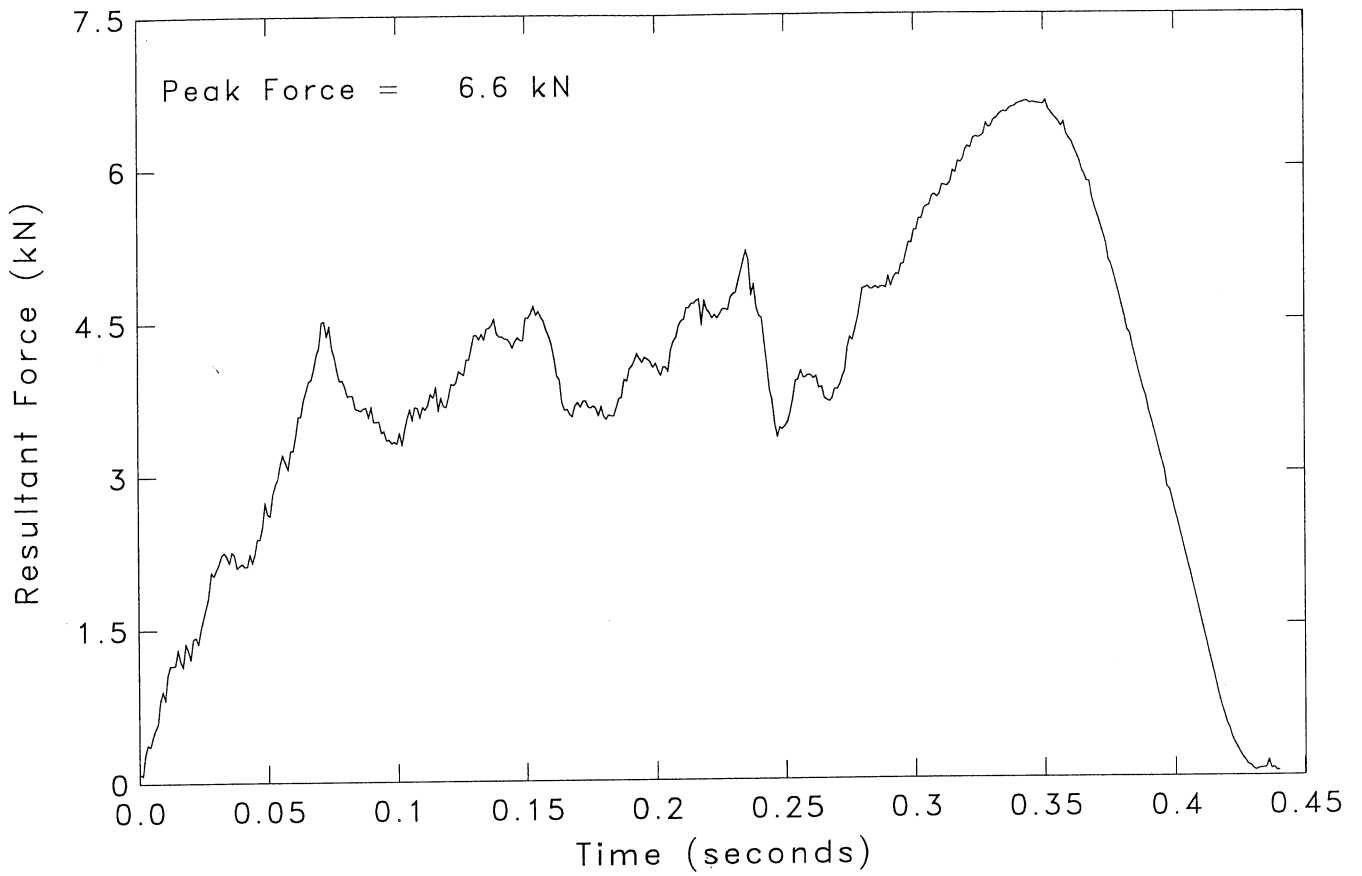


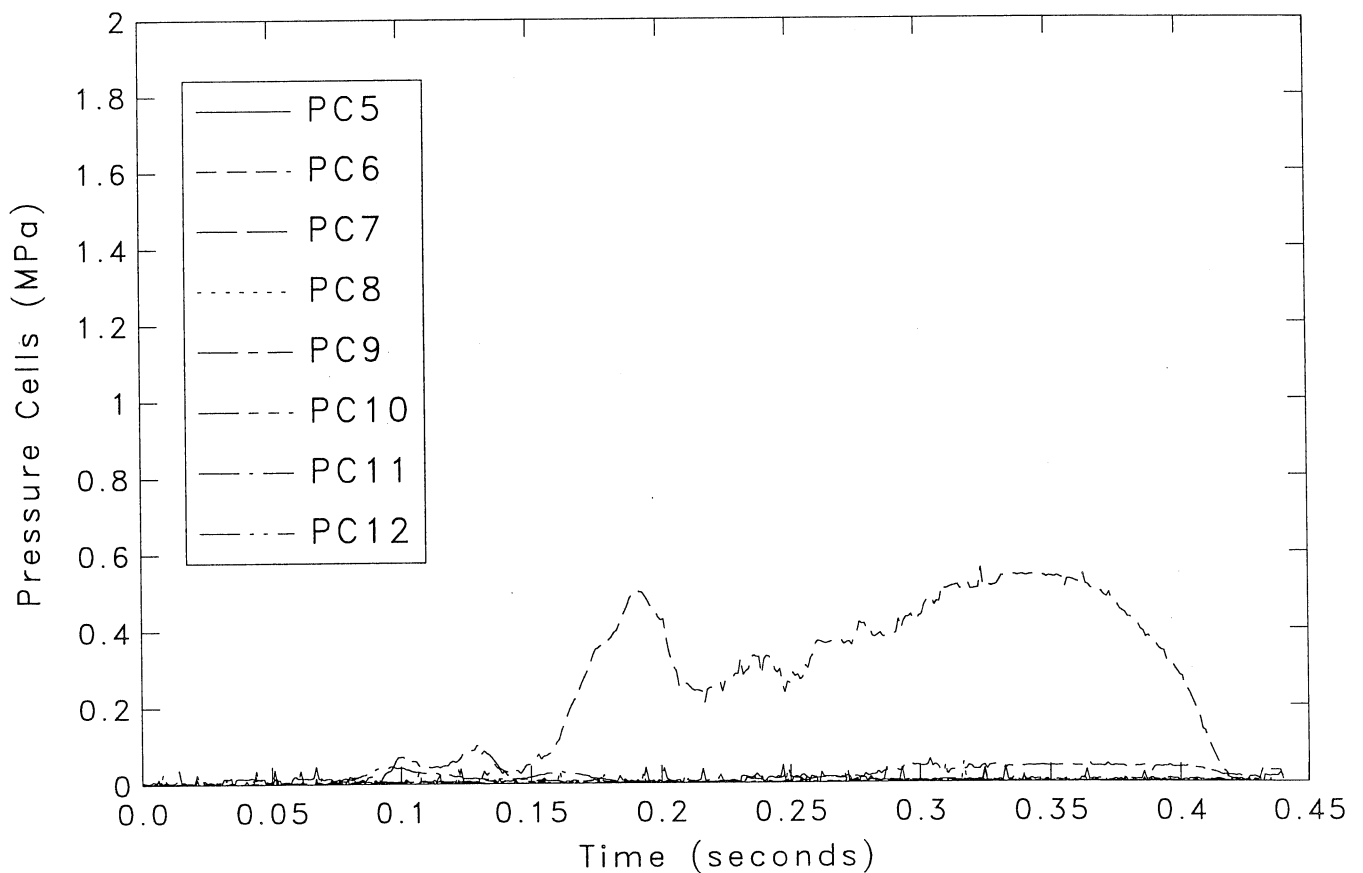
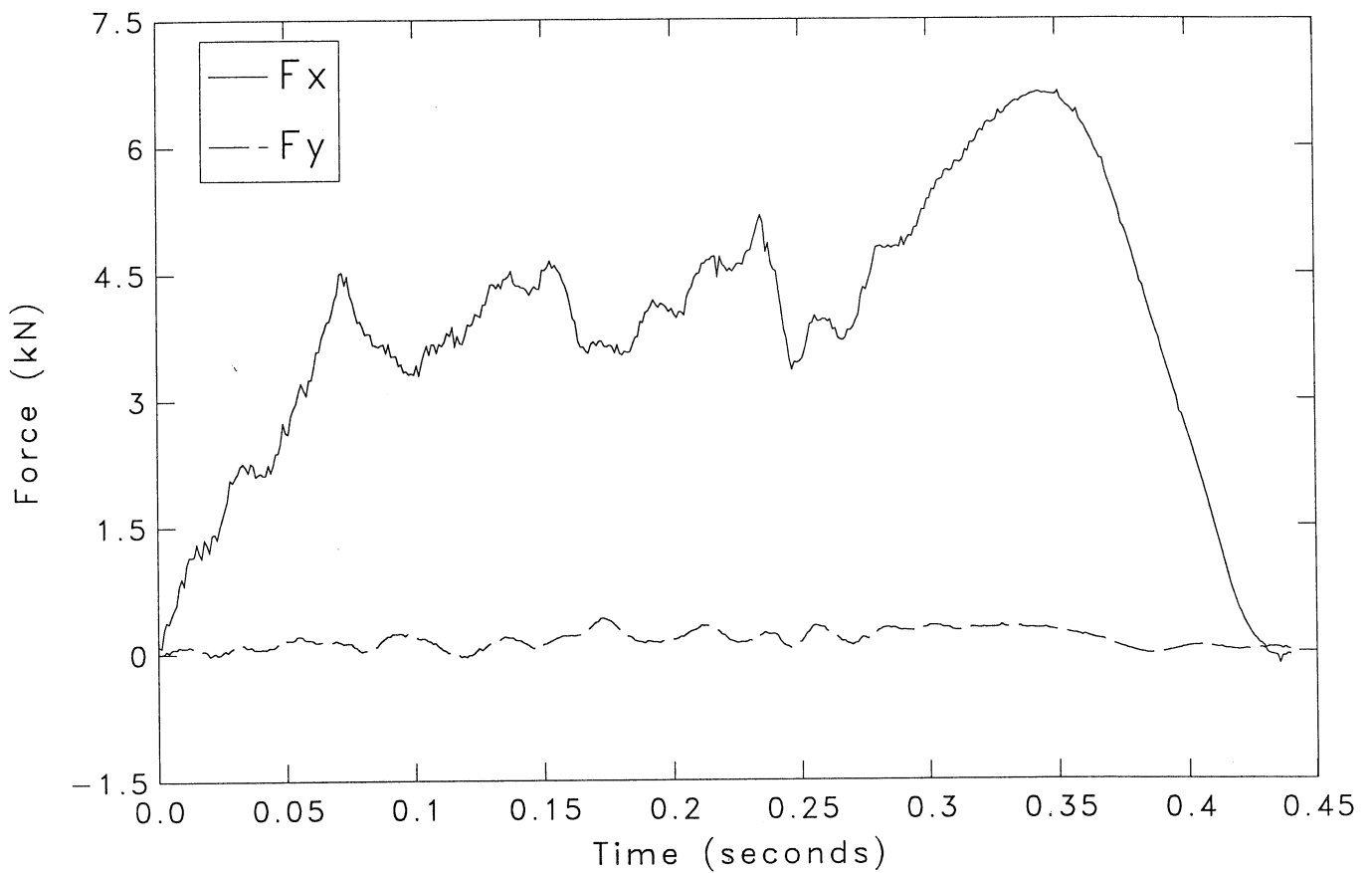


Floe Velocity = 114mm/s
Floe Mass = 14.3t
Impact Edge Shape = wedge

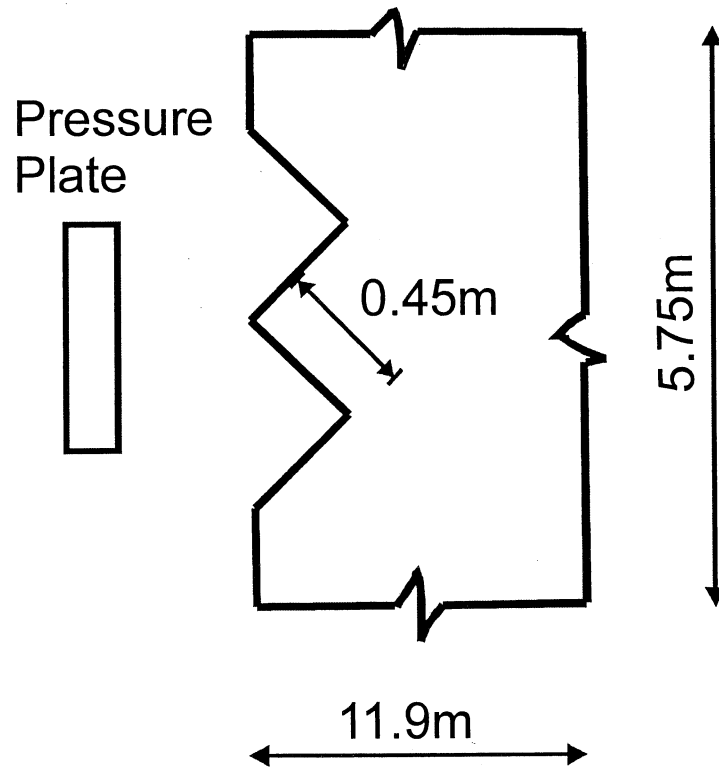
Exaggerated details for clarity

Test 20





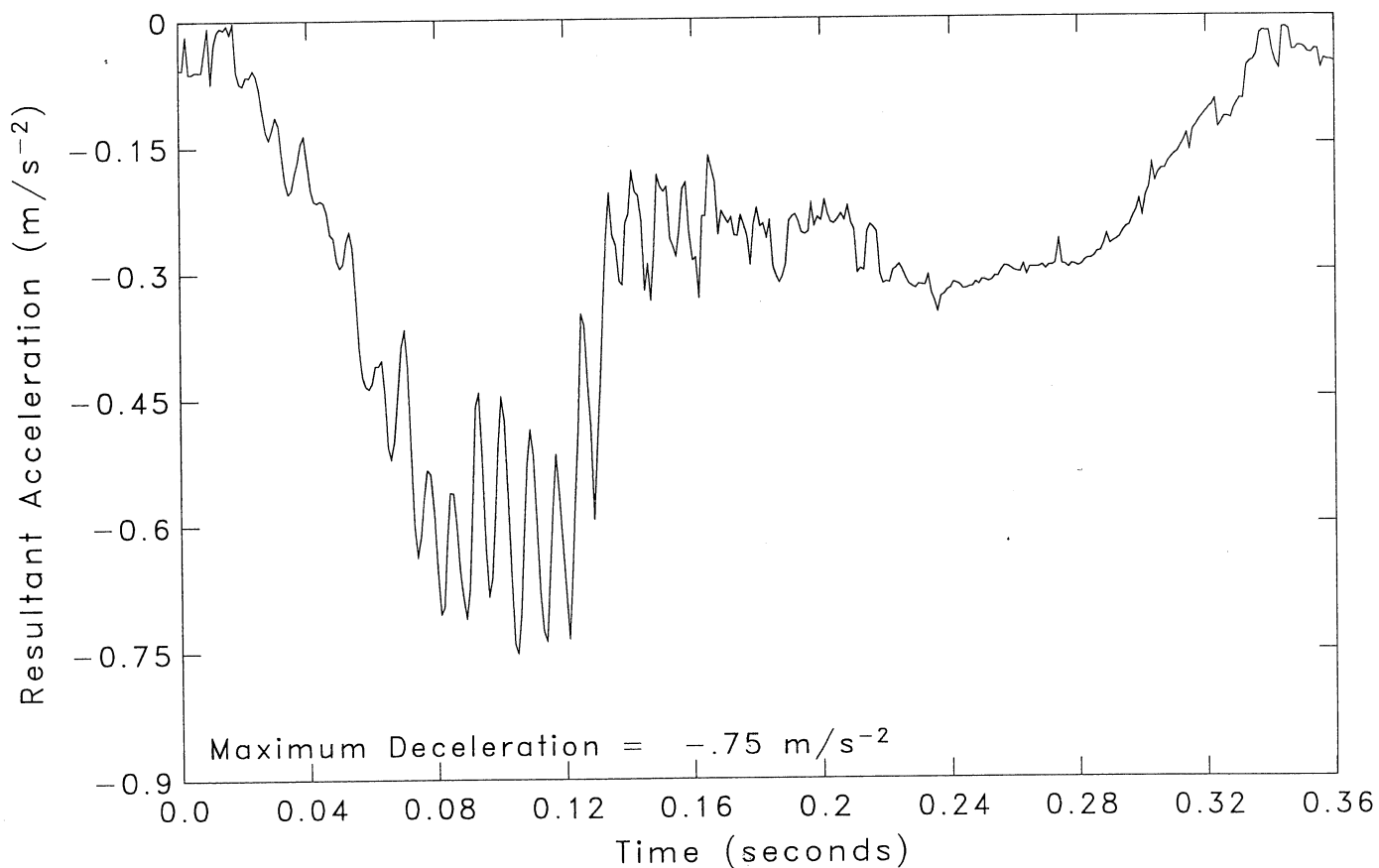
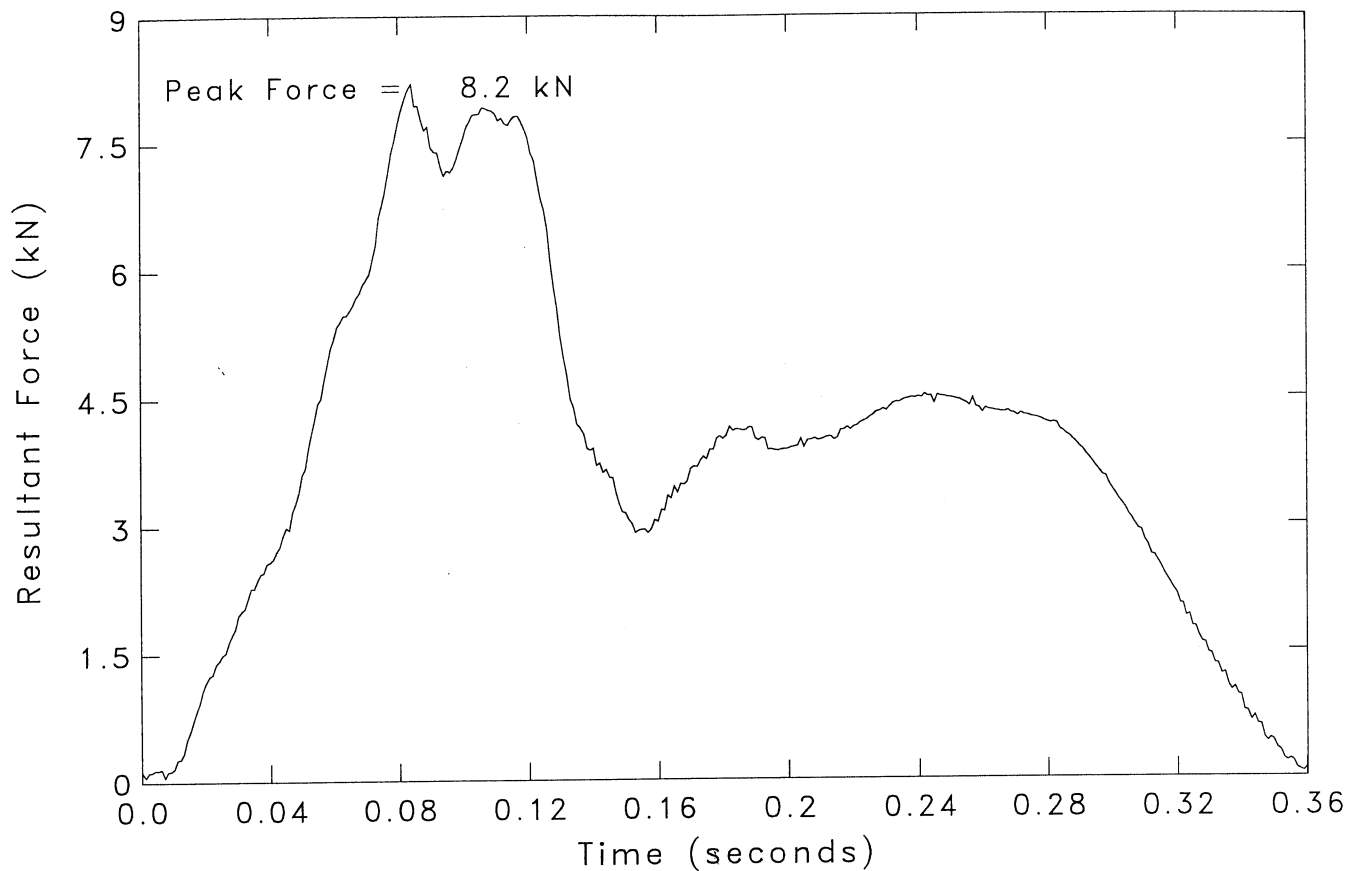


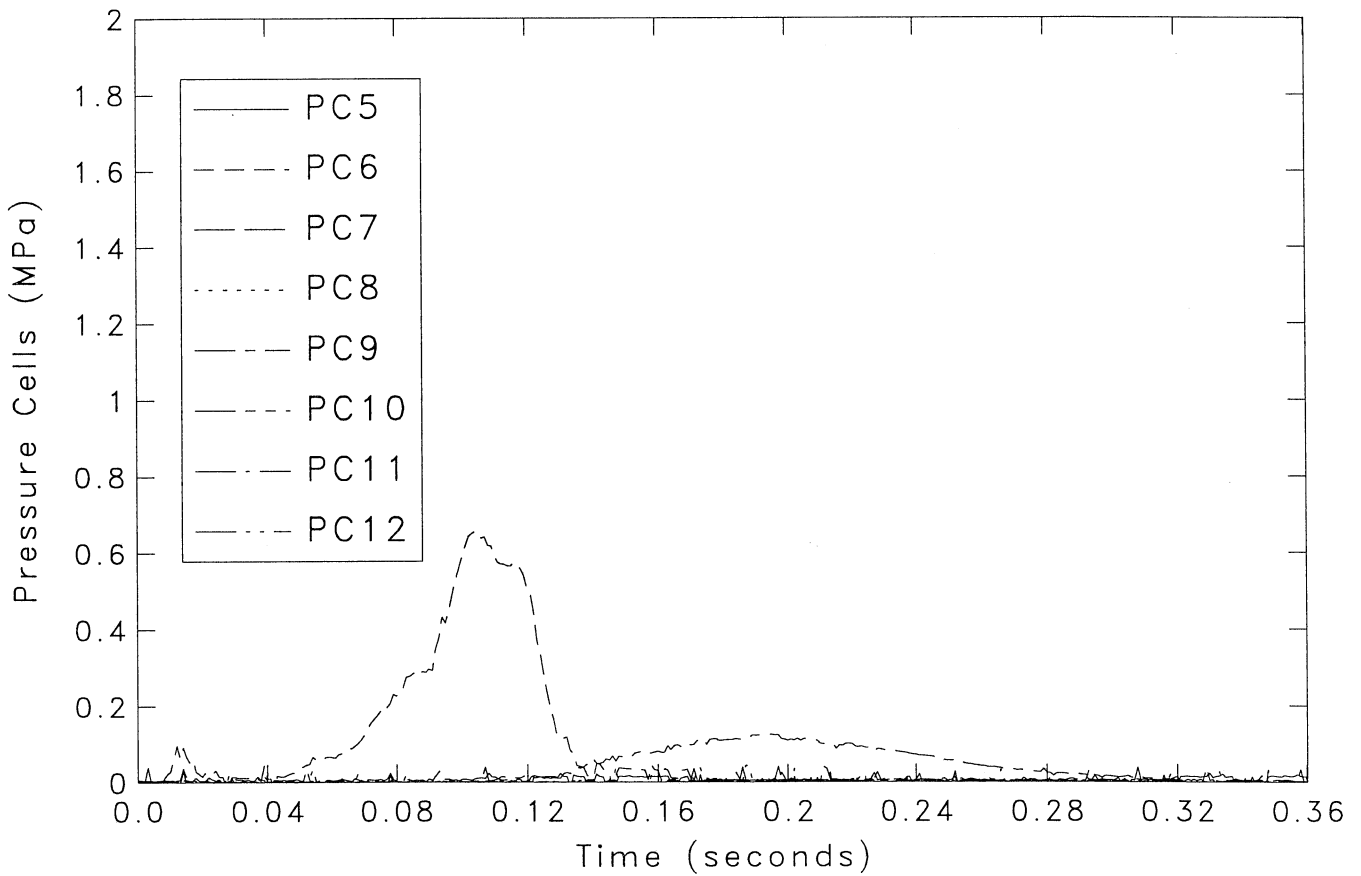
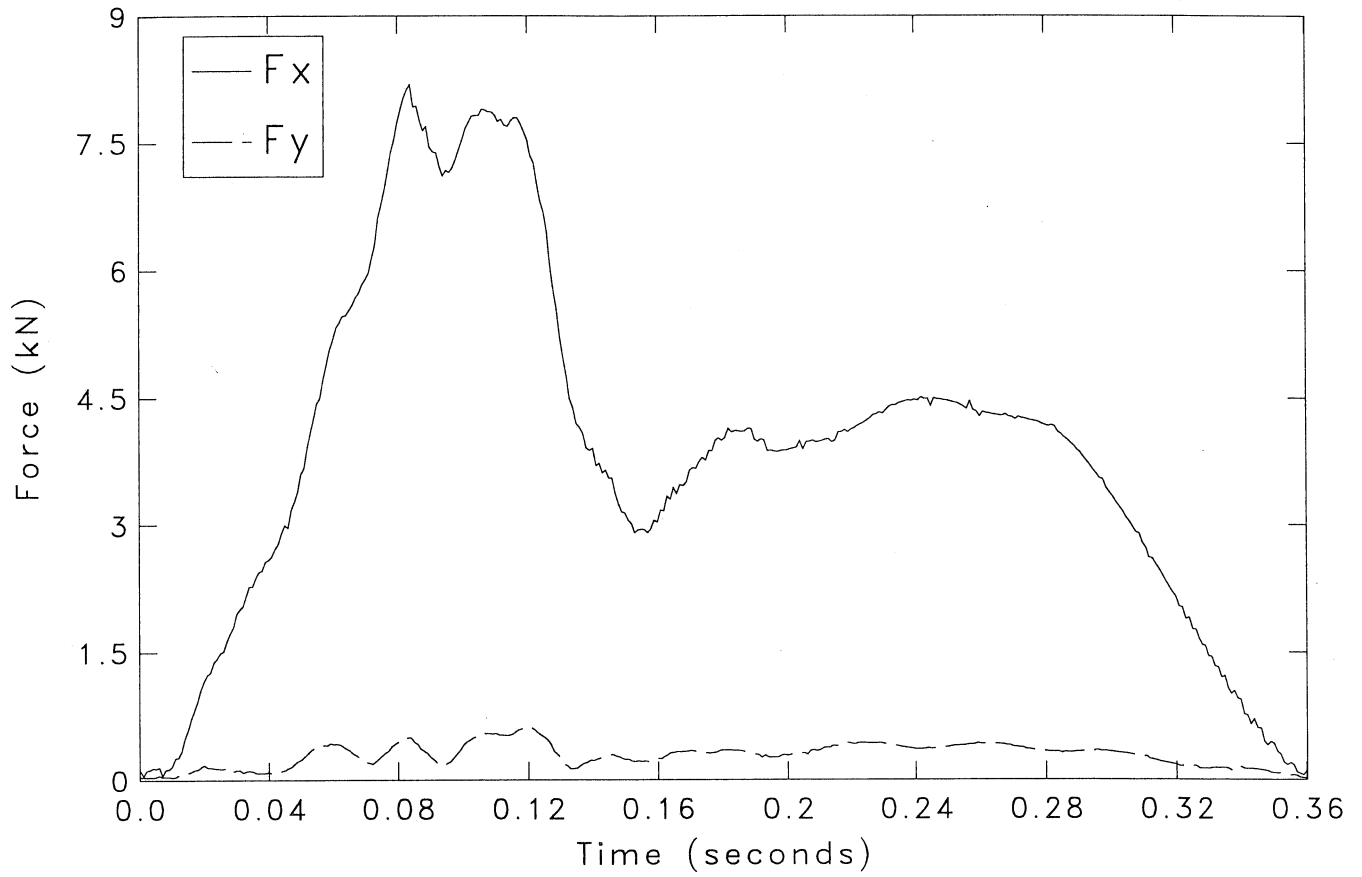


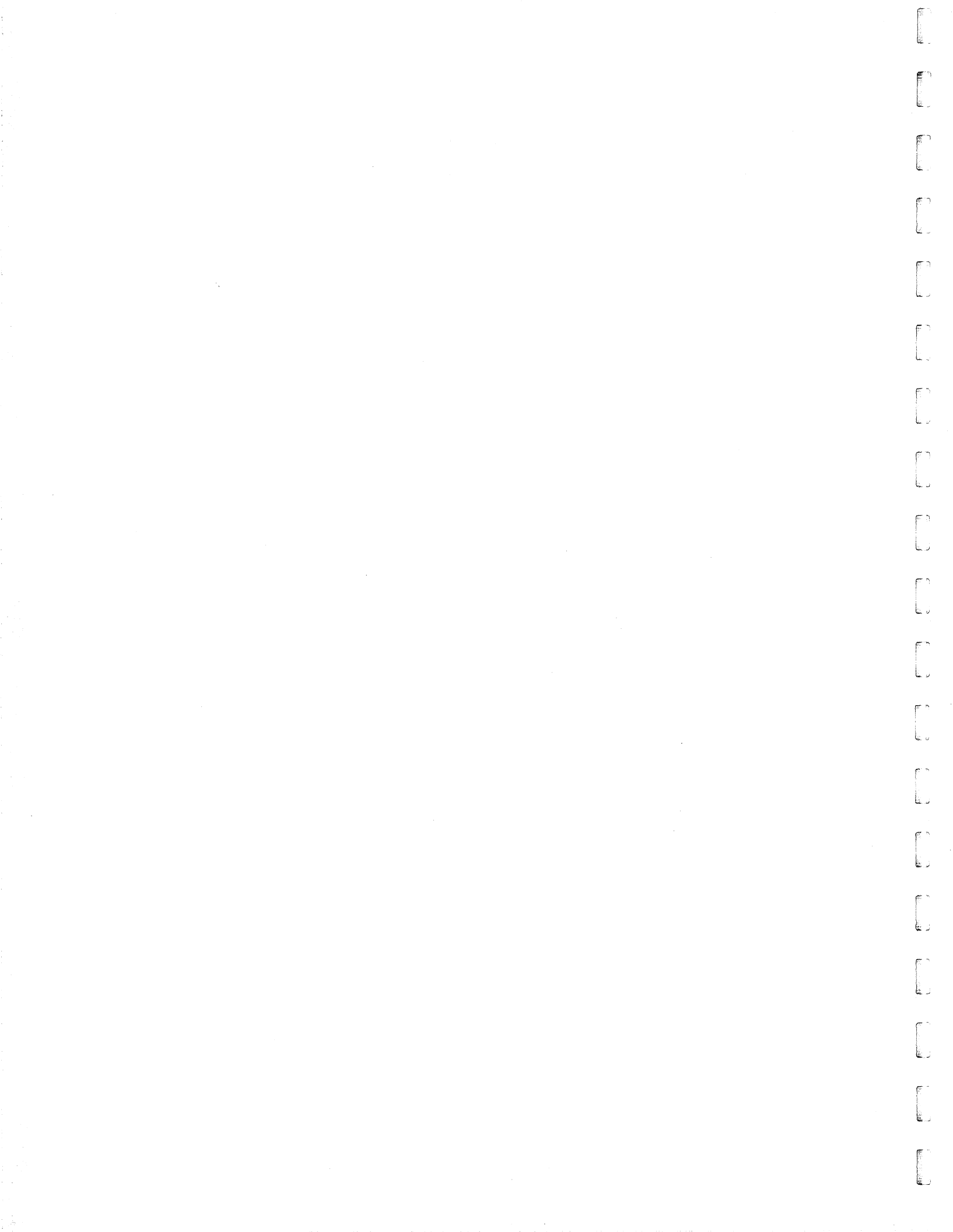
Floe Velocity = 106mm/s
Floe Mass = 14.3t
Impact Edge Shape = wedge

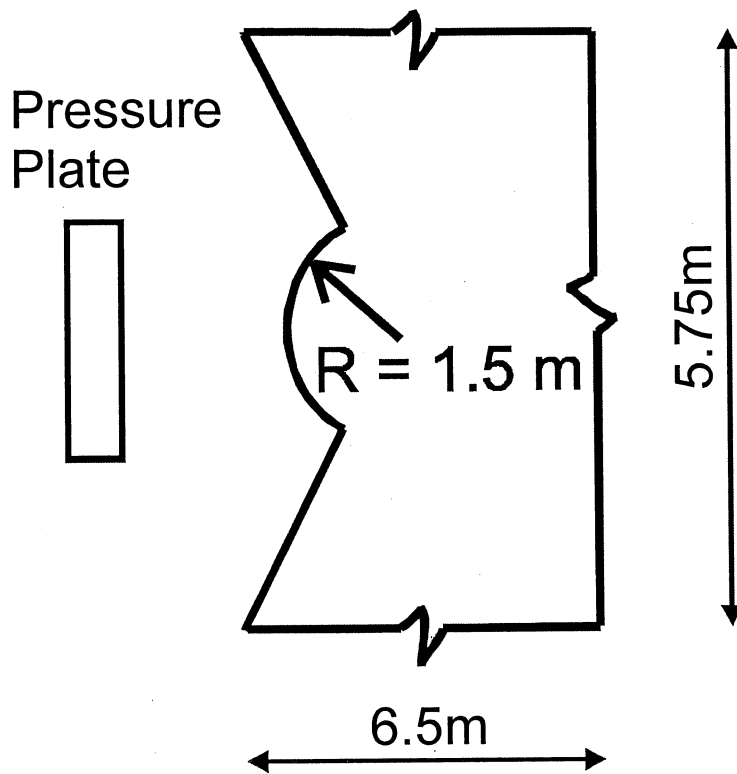
Exaggerated details for clarity

Test 21





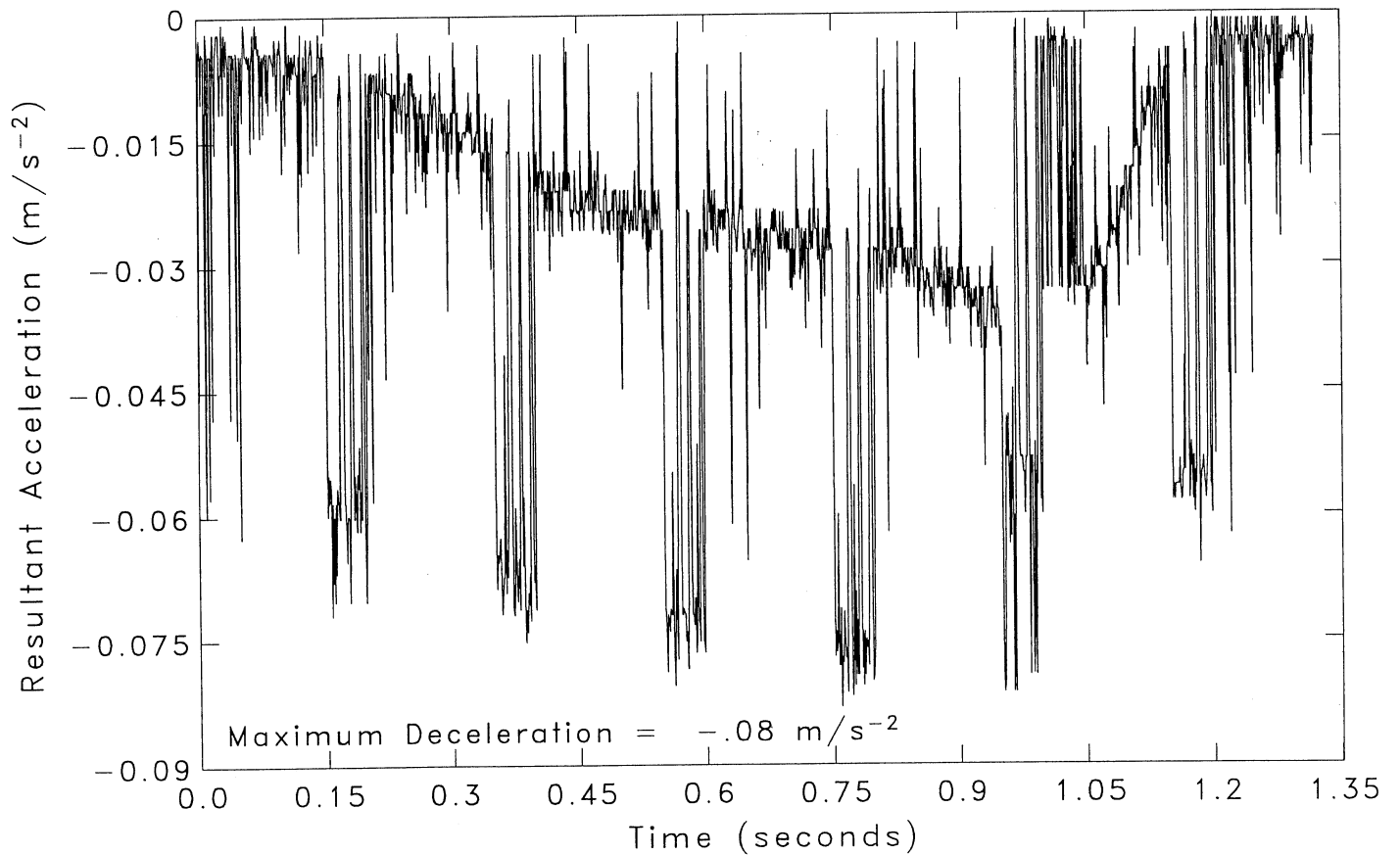
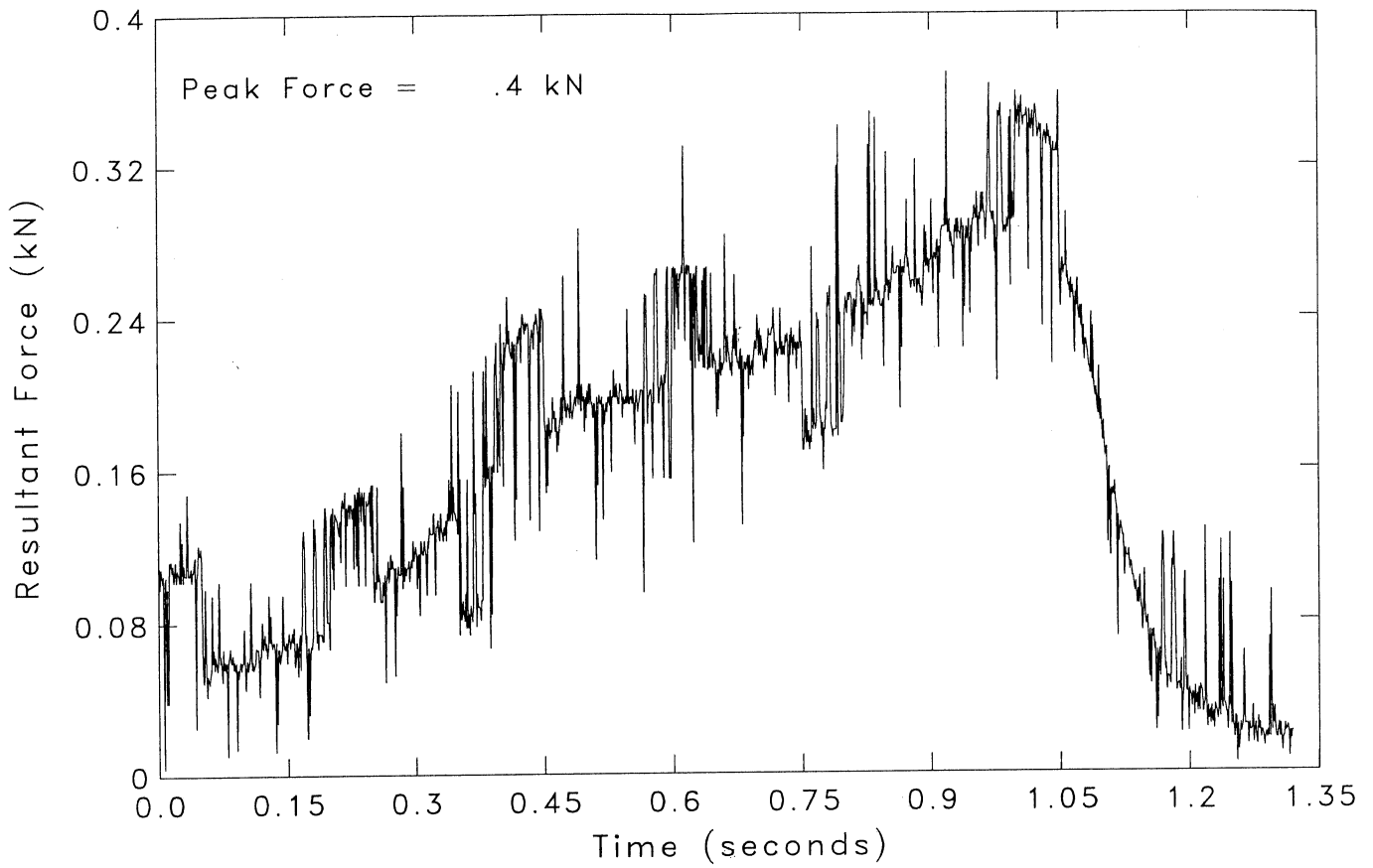


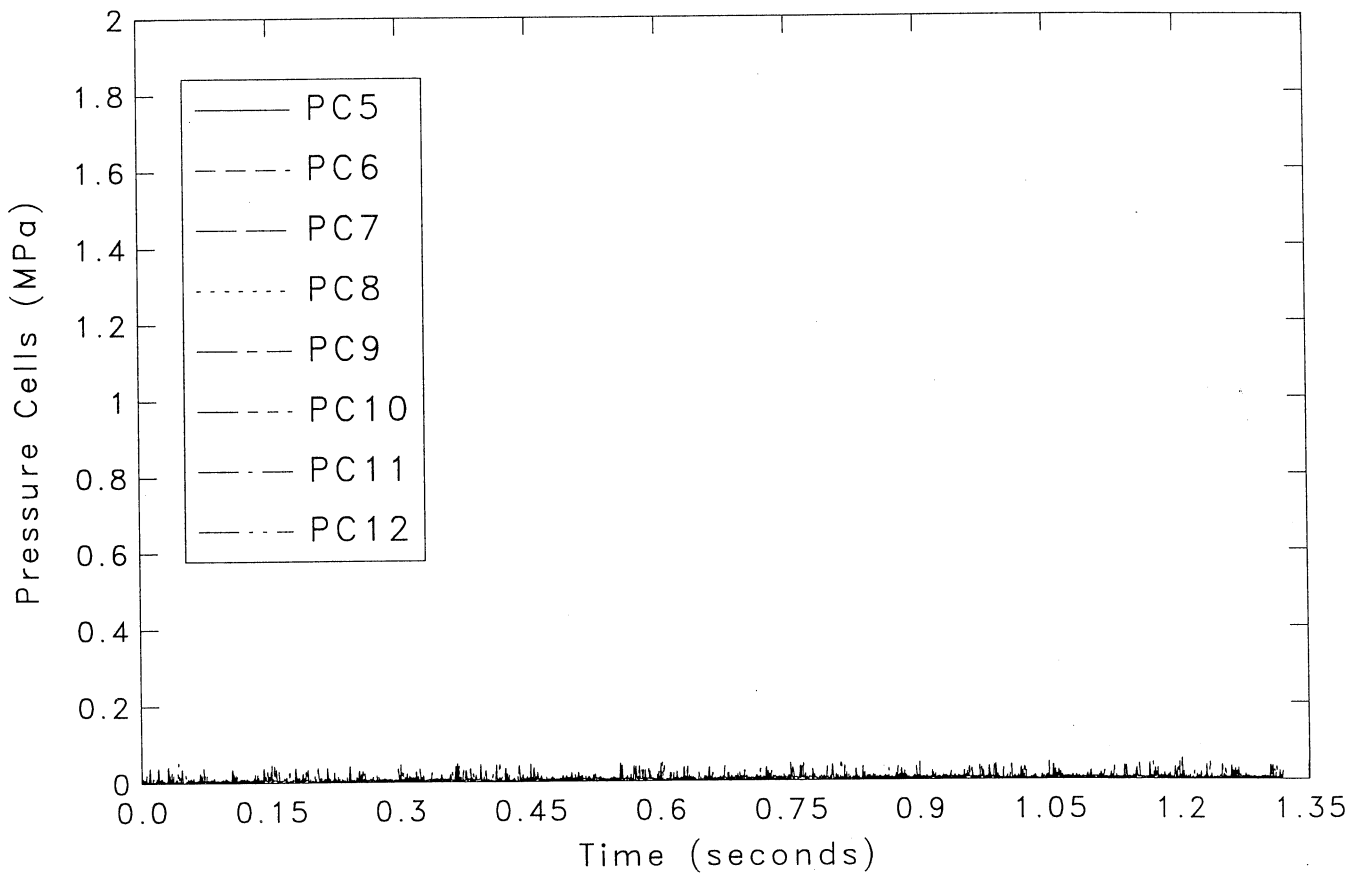
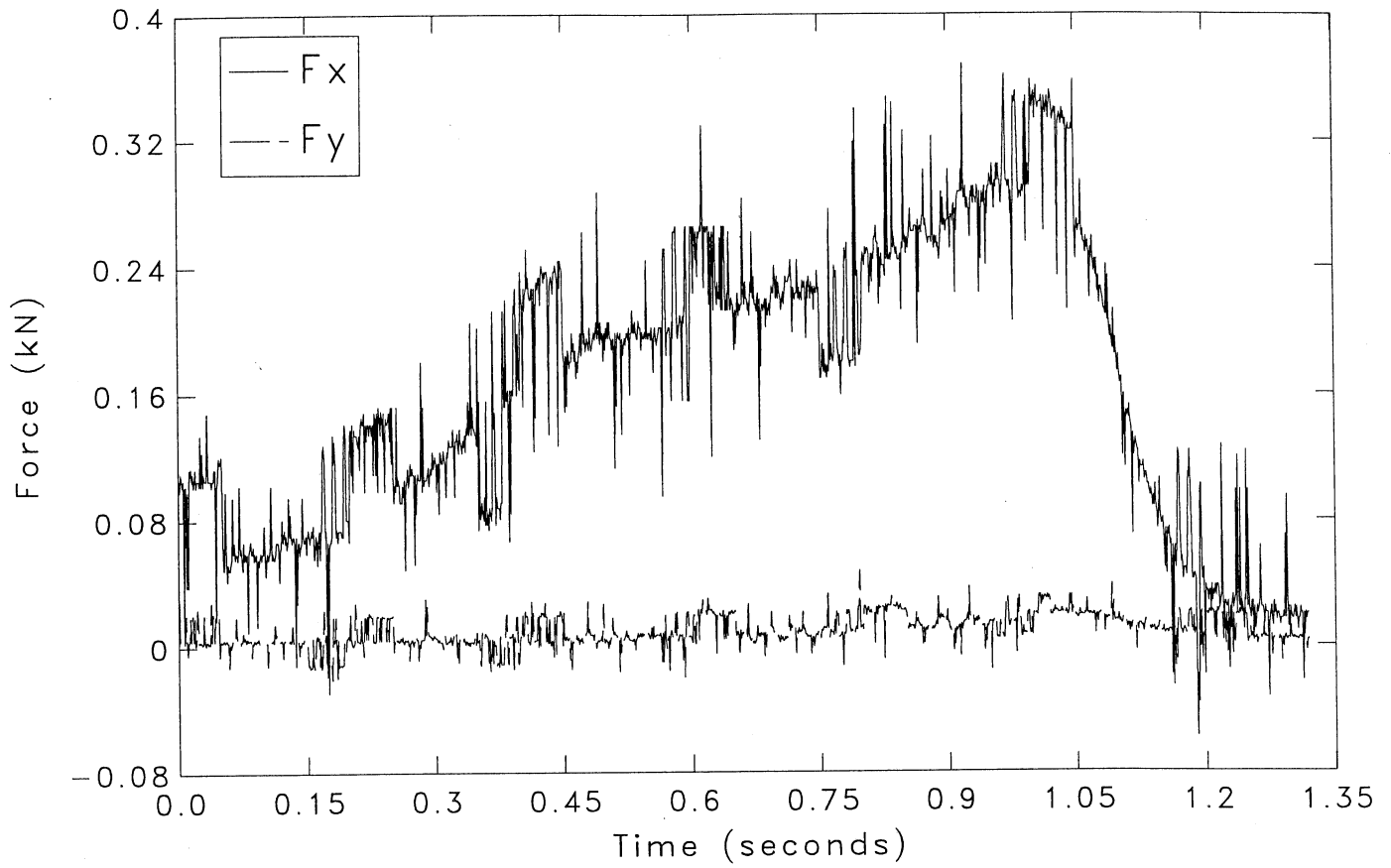


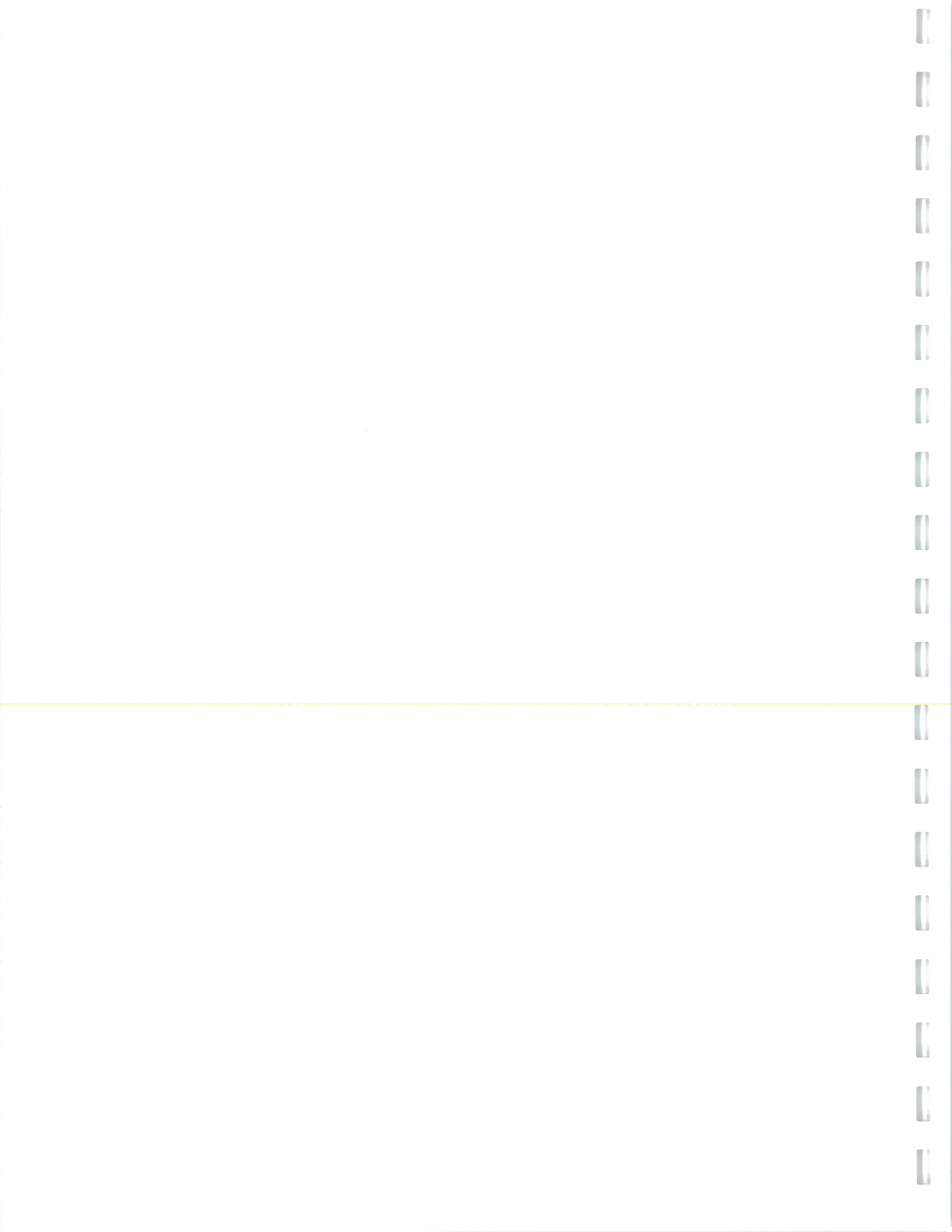
Floe Velocity = 30mm/s
Floe Mass = 7.8t
Impact Edge Shape = curve

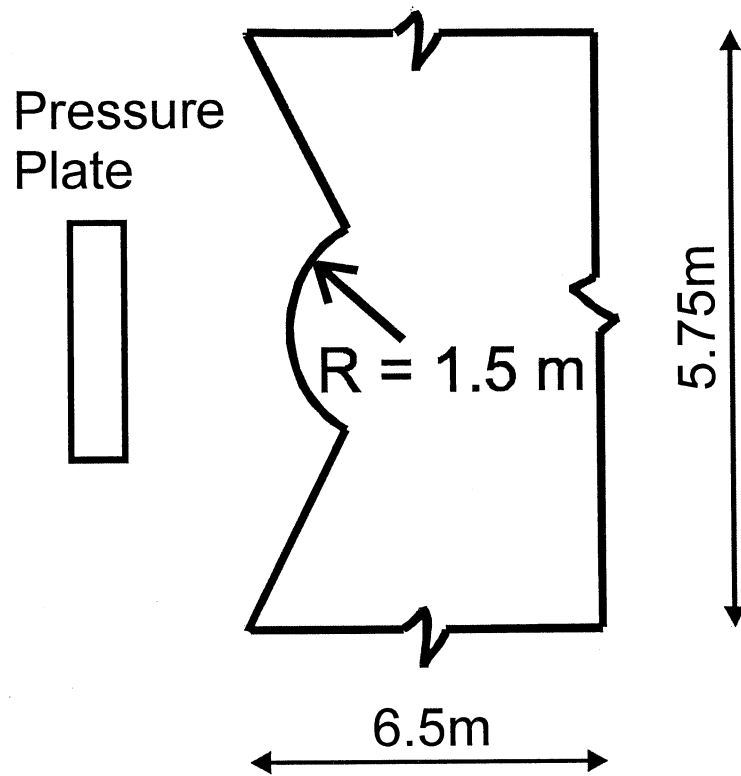
Exaggerated details for clarity

Test 22





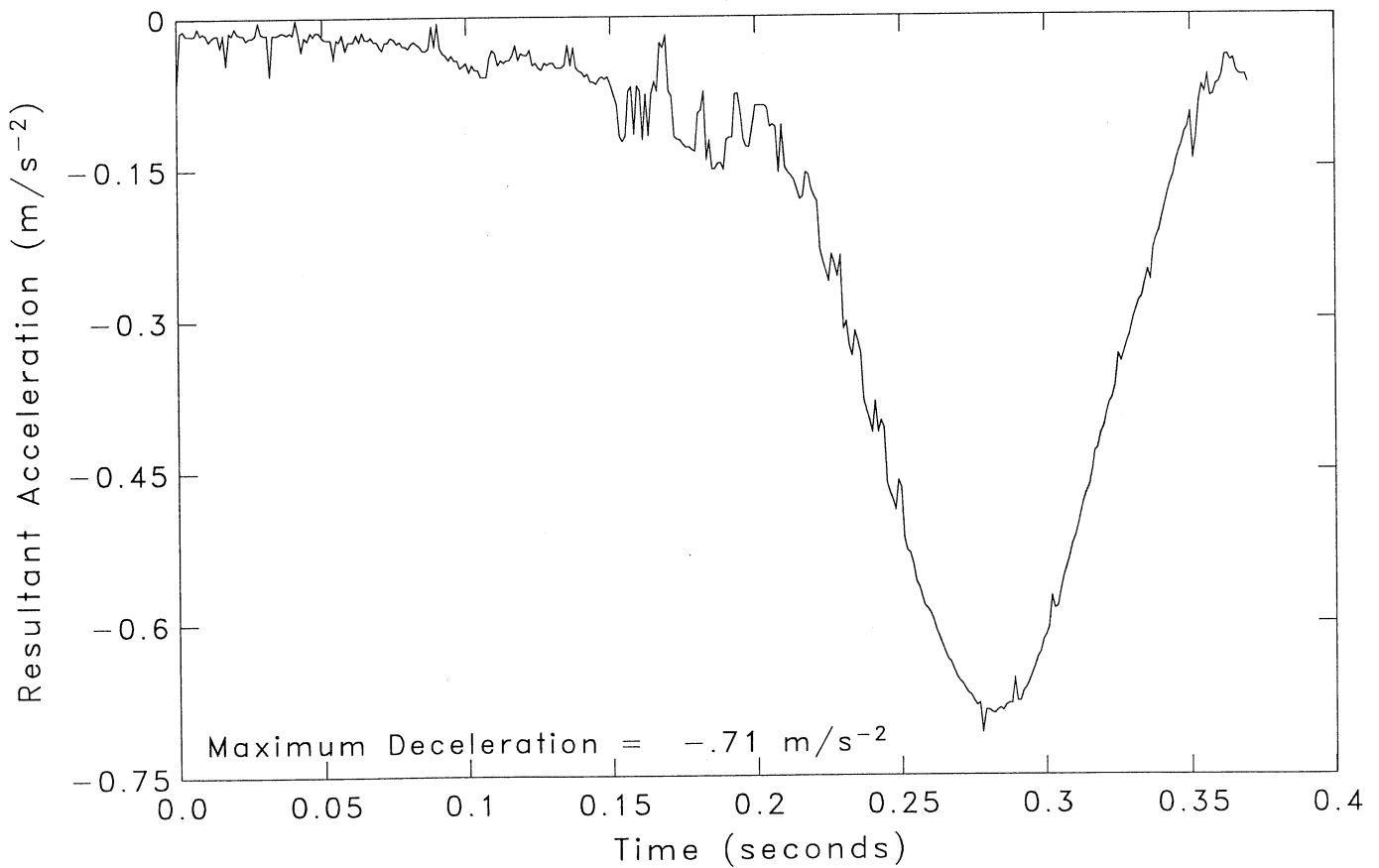
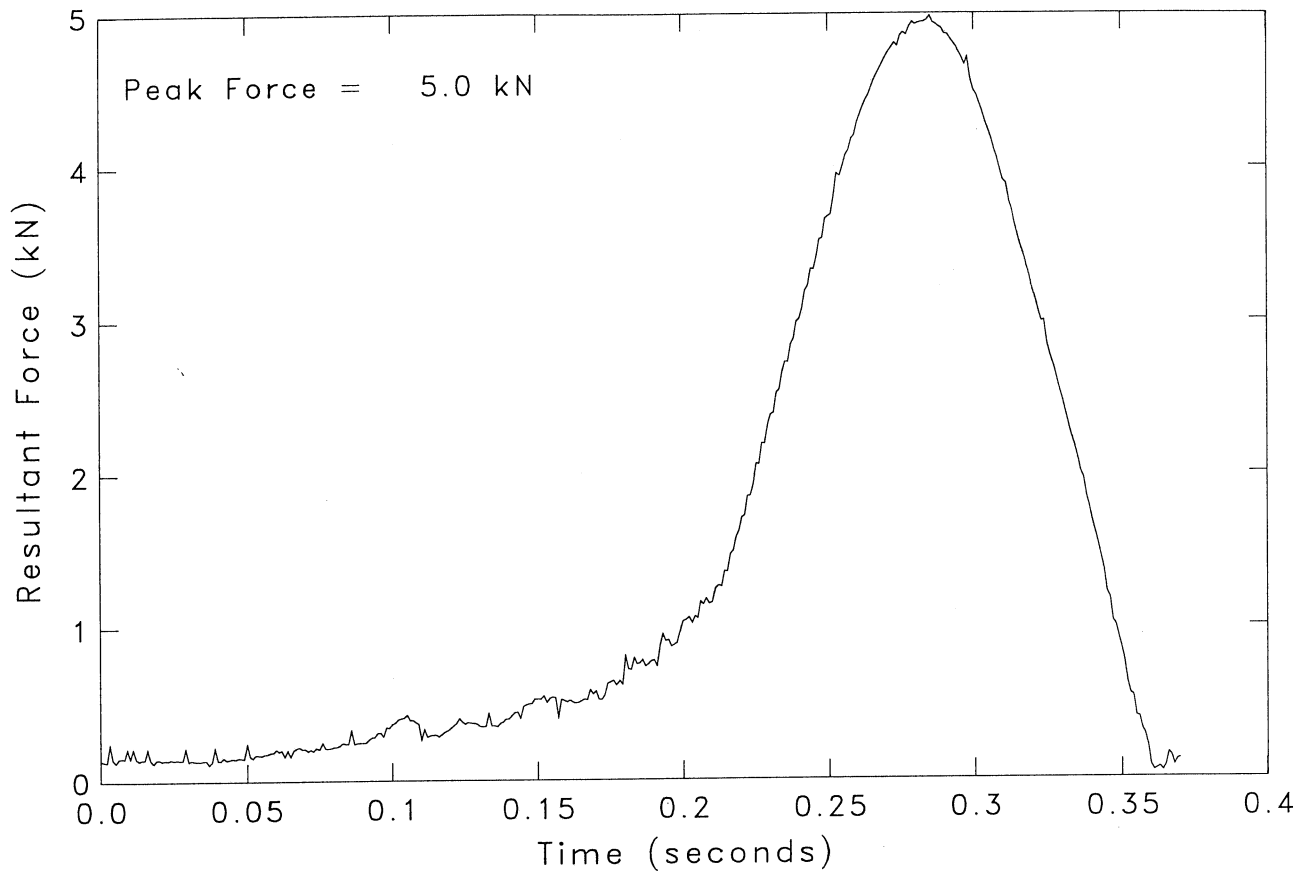


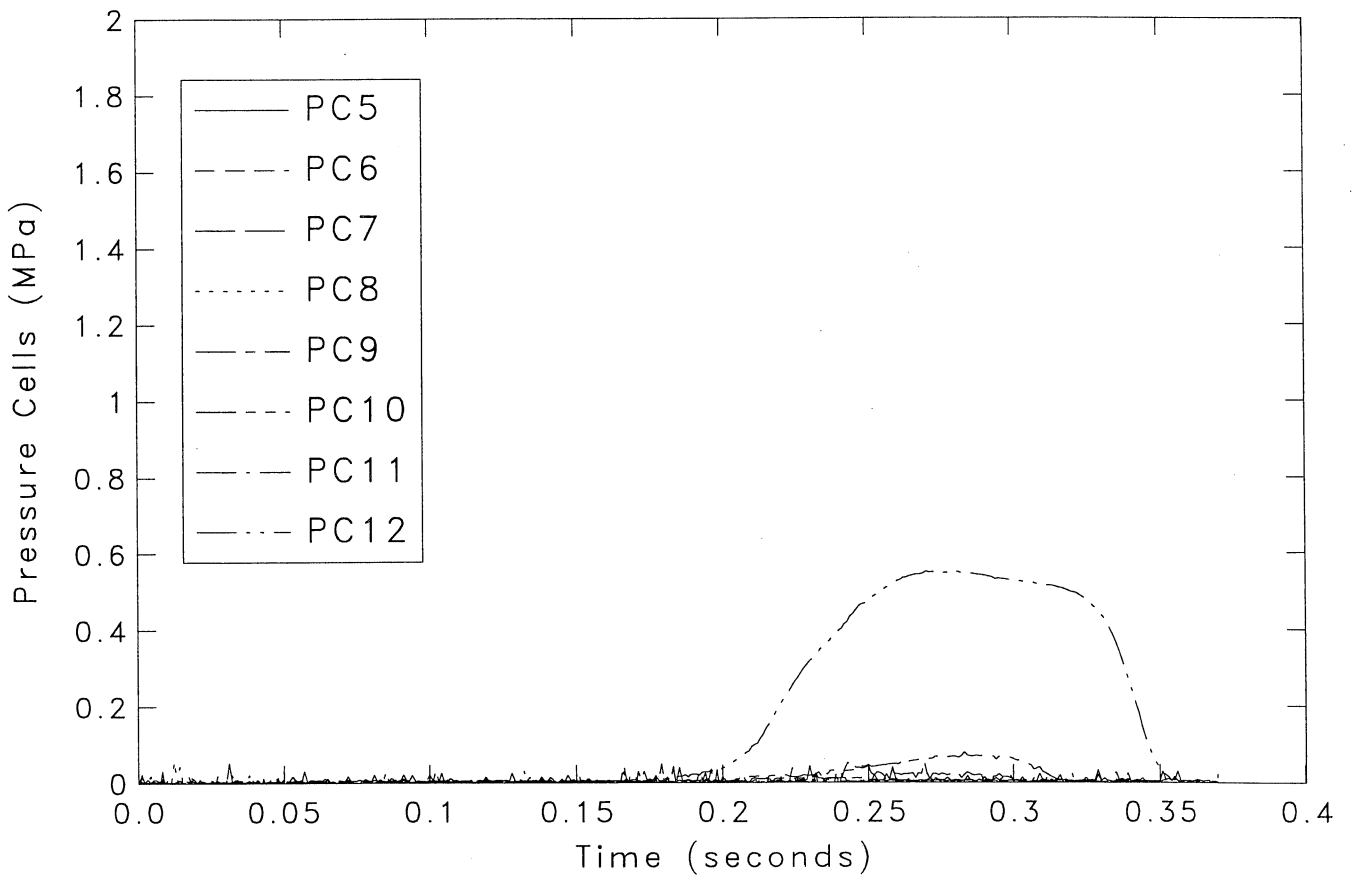
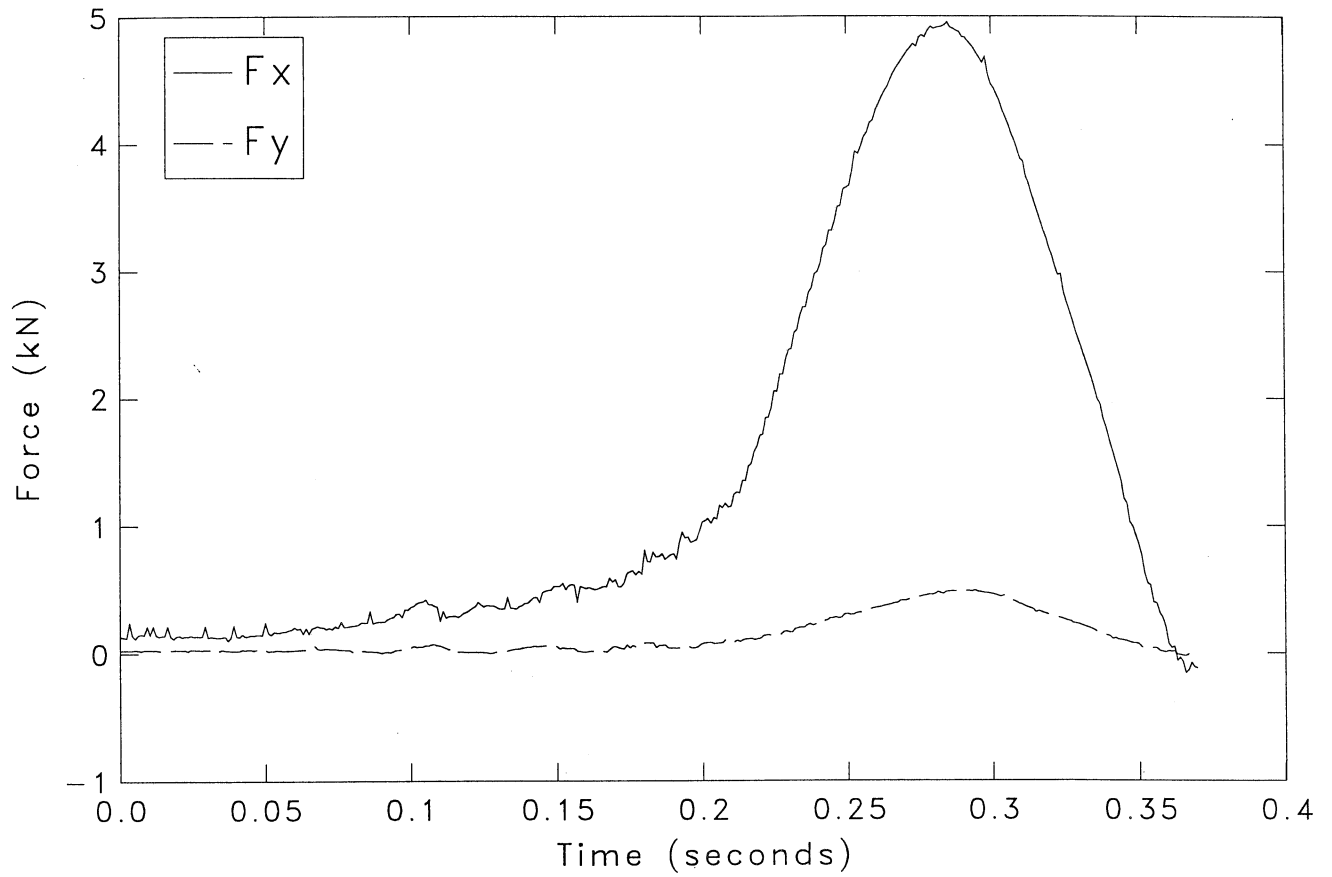


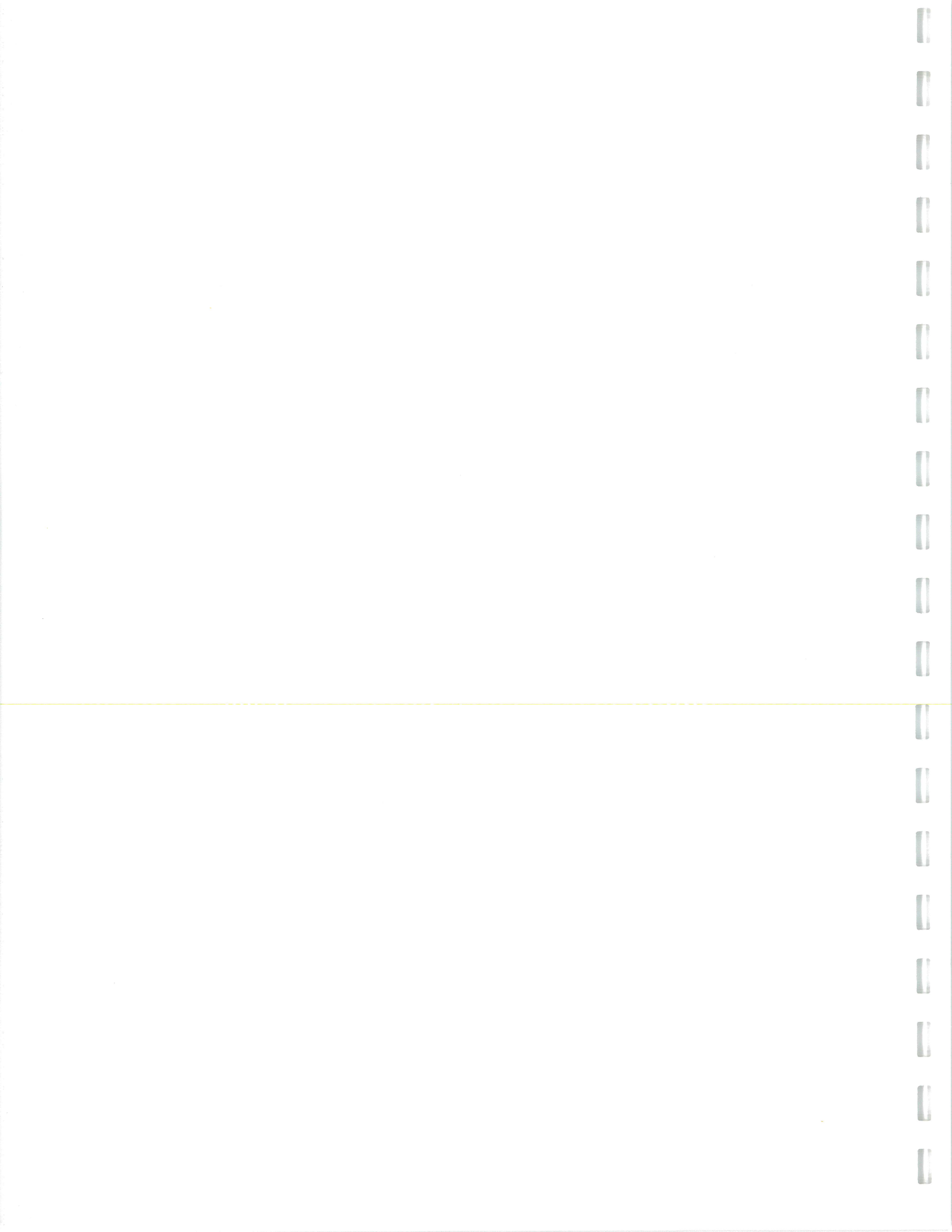
Floe Velocity = 46mm/s
Floe Mass = 7.8t
Impact Edge Shape = curve

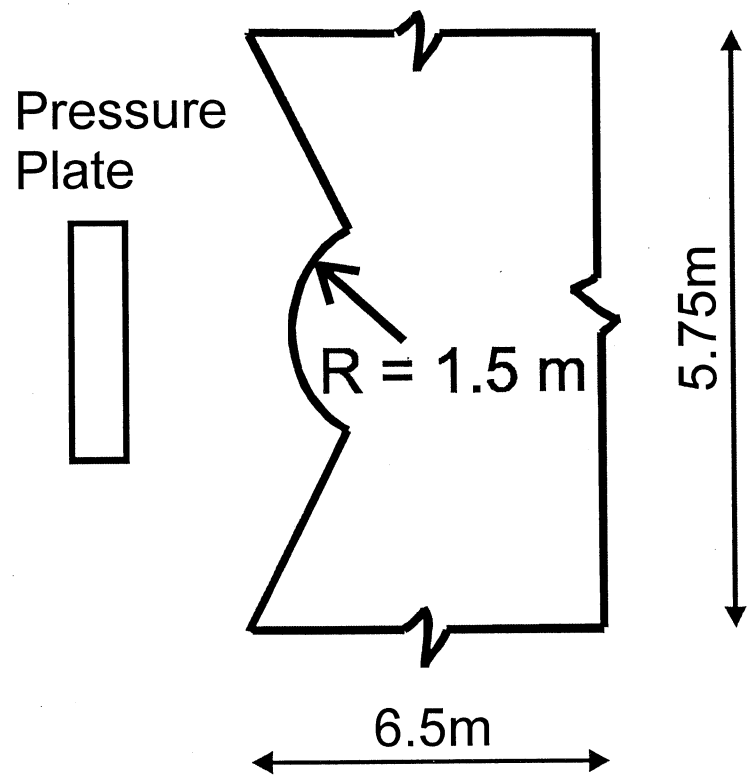
Exaggerated details for clarity

Test 23





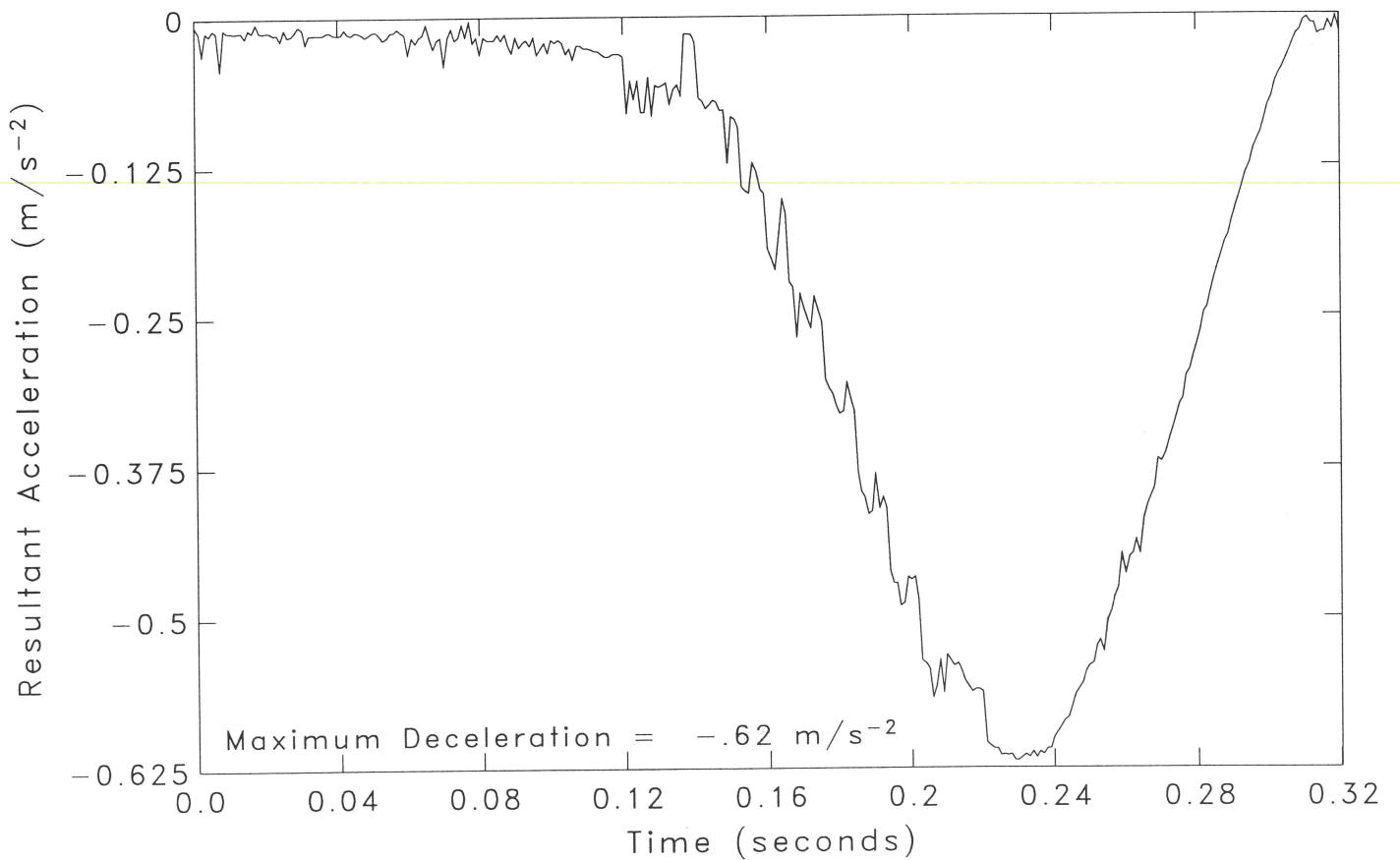
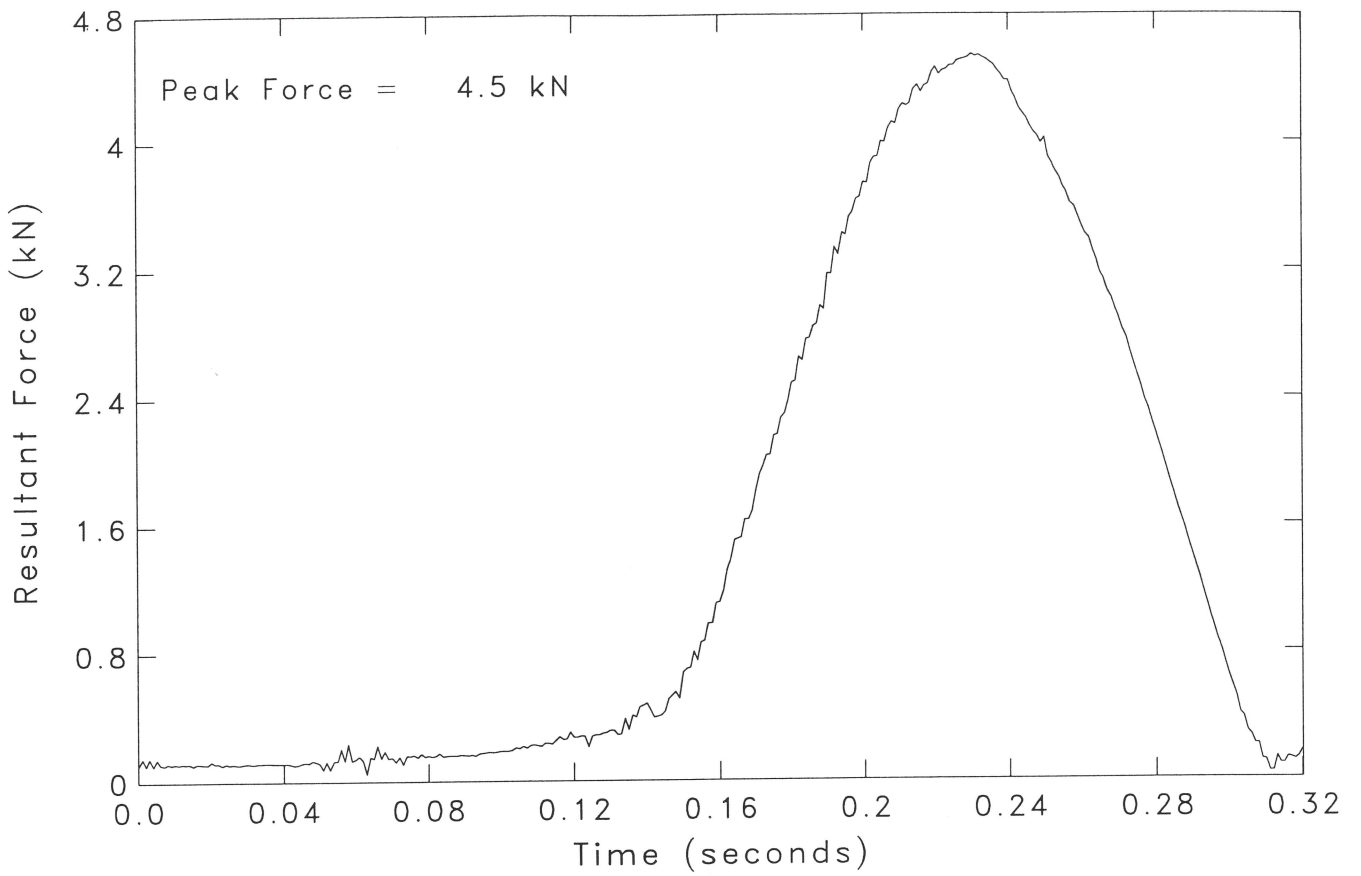


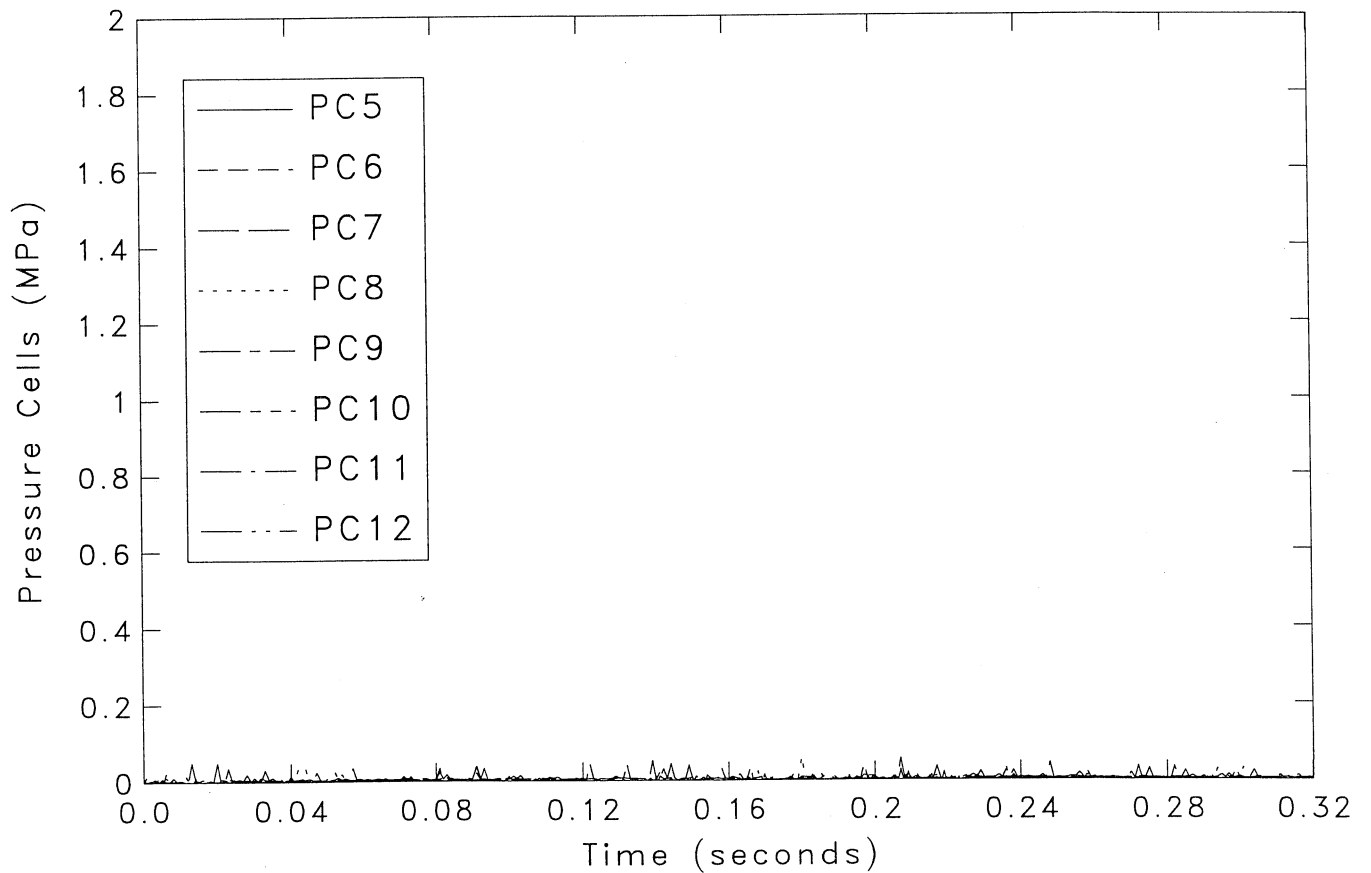
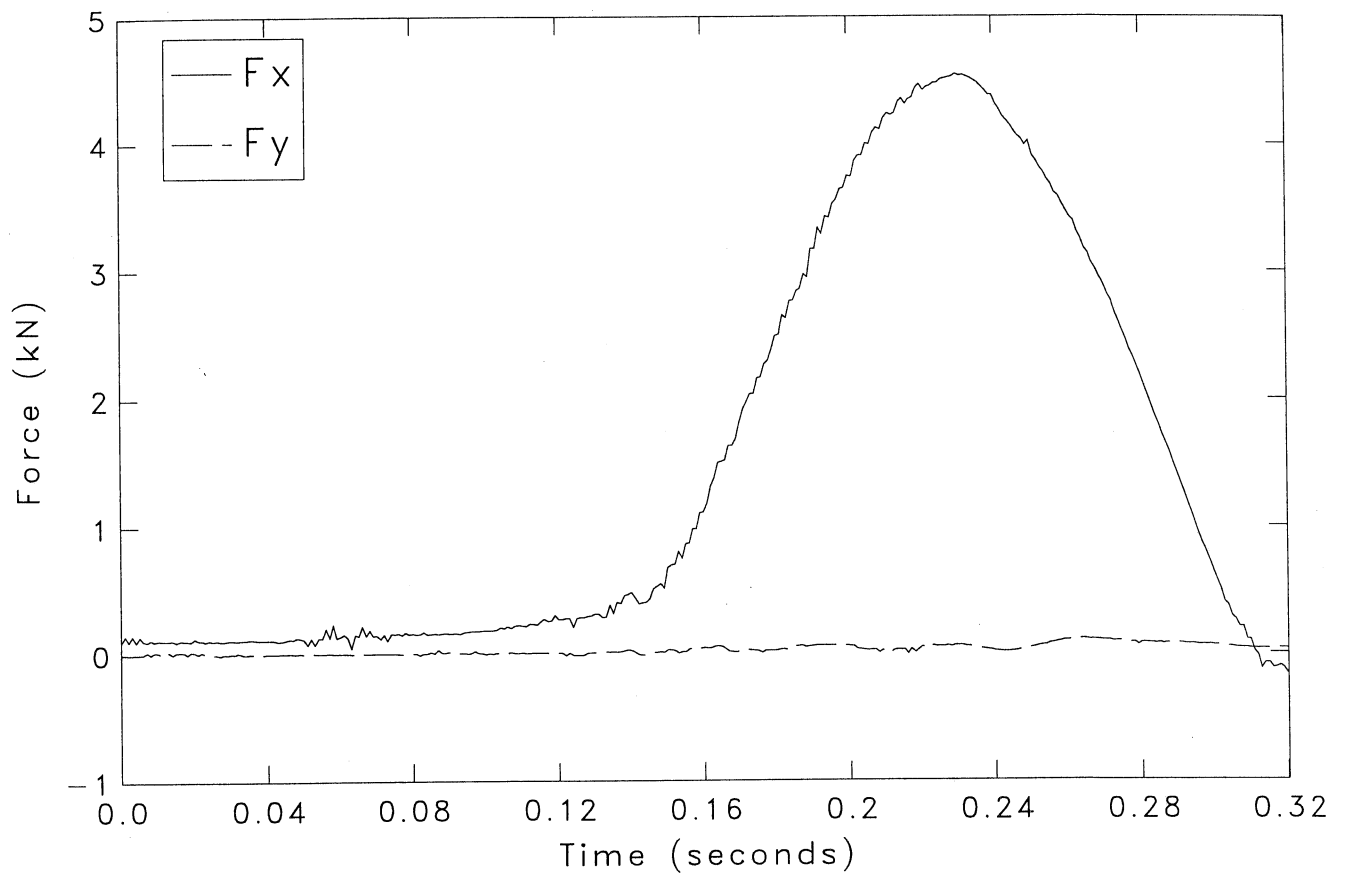


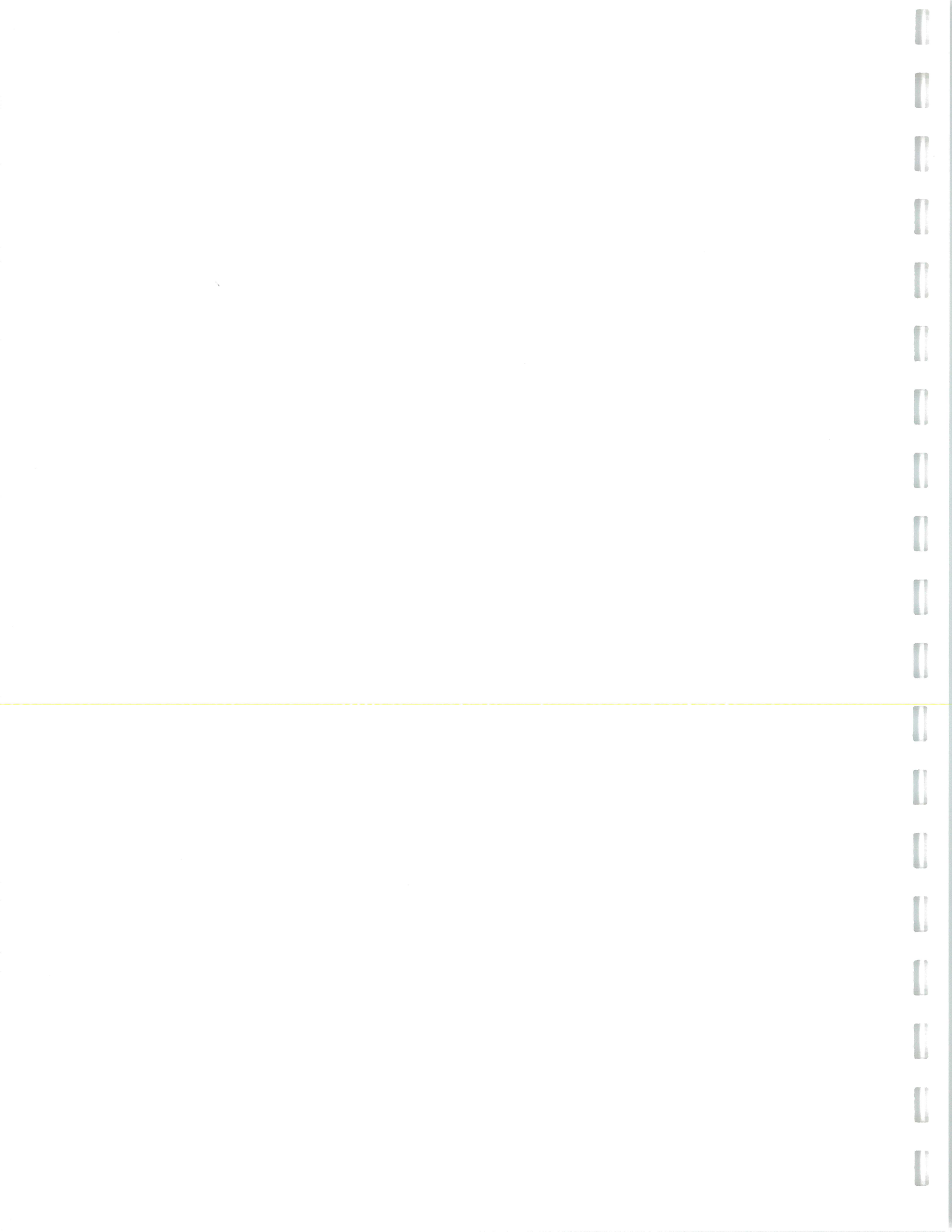
Floe Velocity = 47mm/s
Floe Mass = 7.8t
Impact Edge Shape = curve

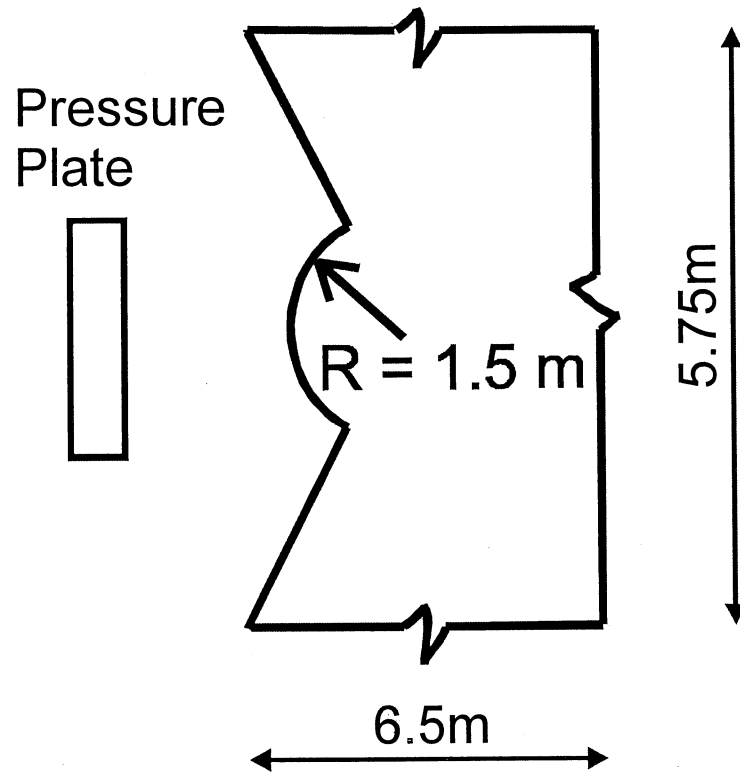
Exaggerated details for clarity

Test 24





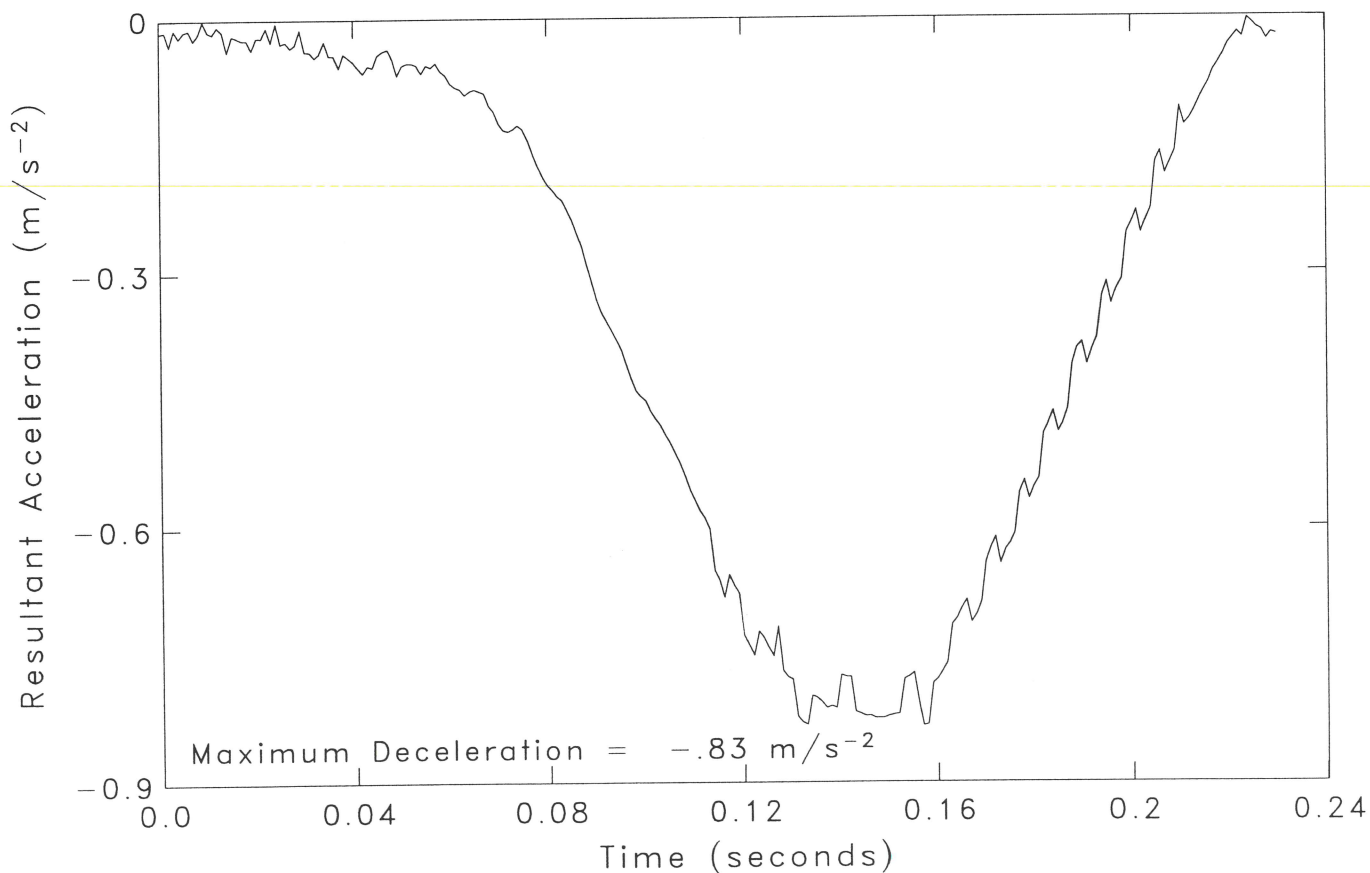
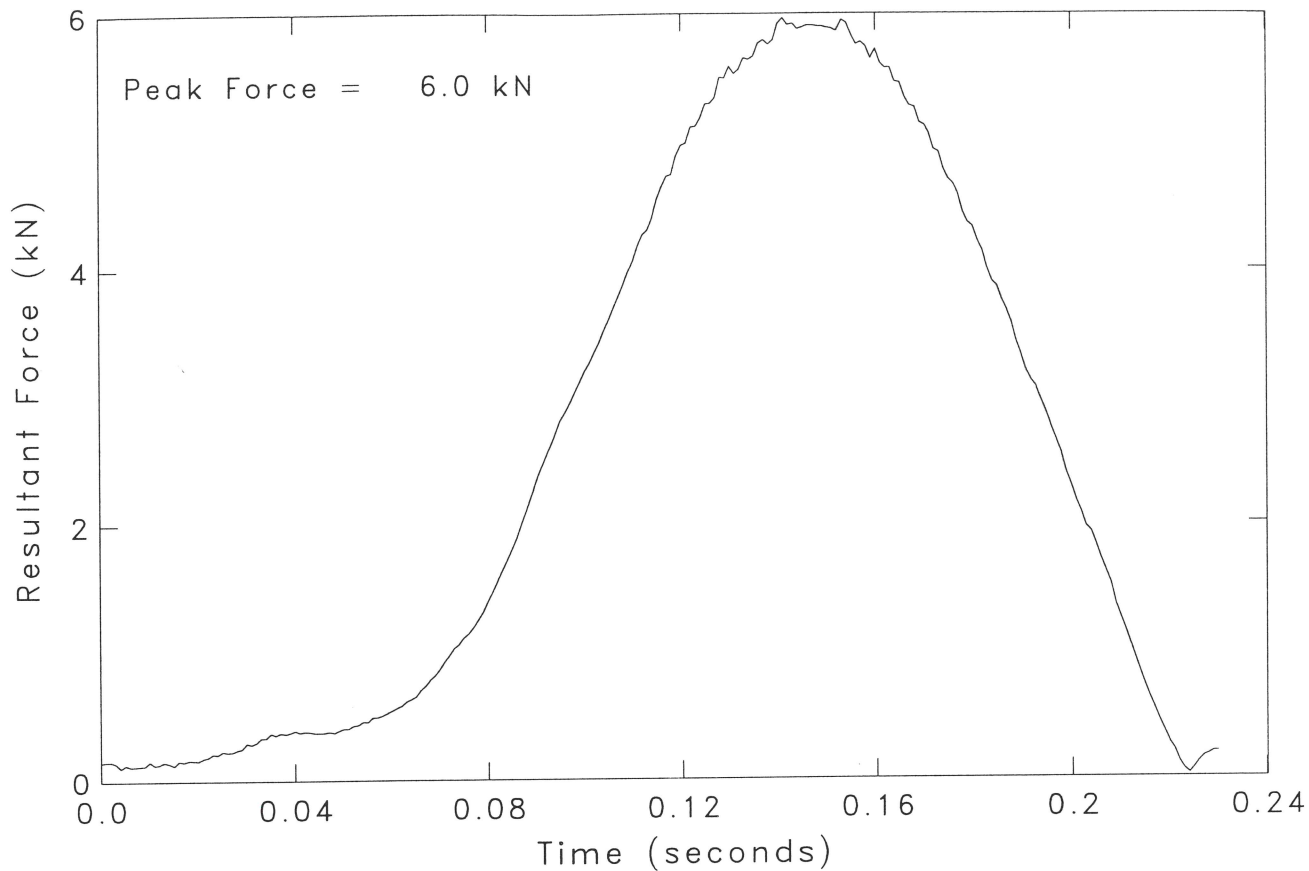


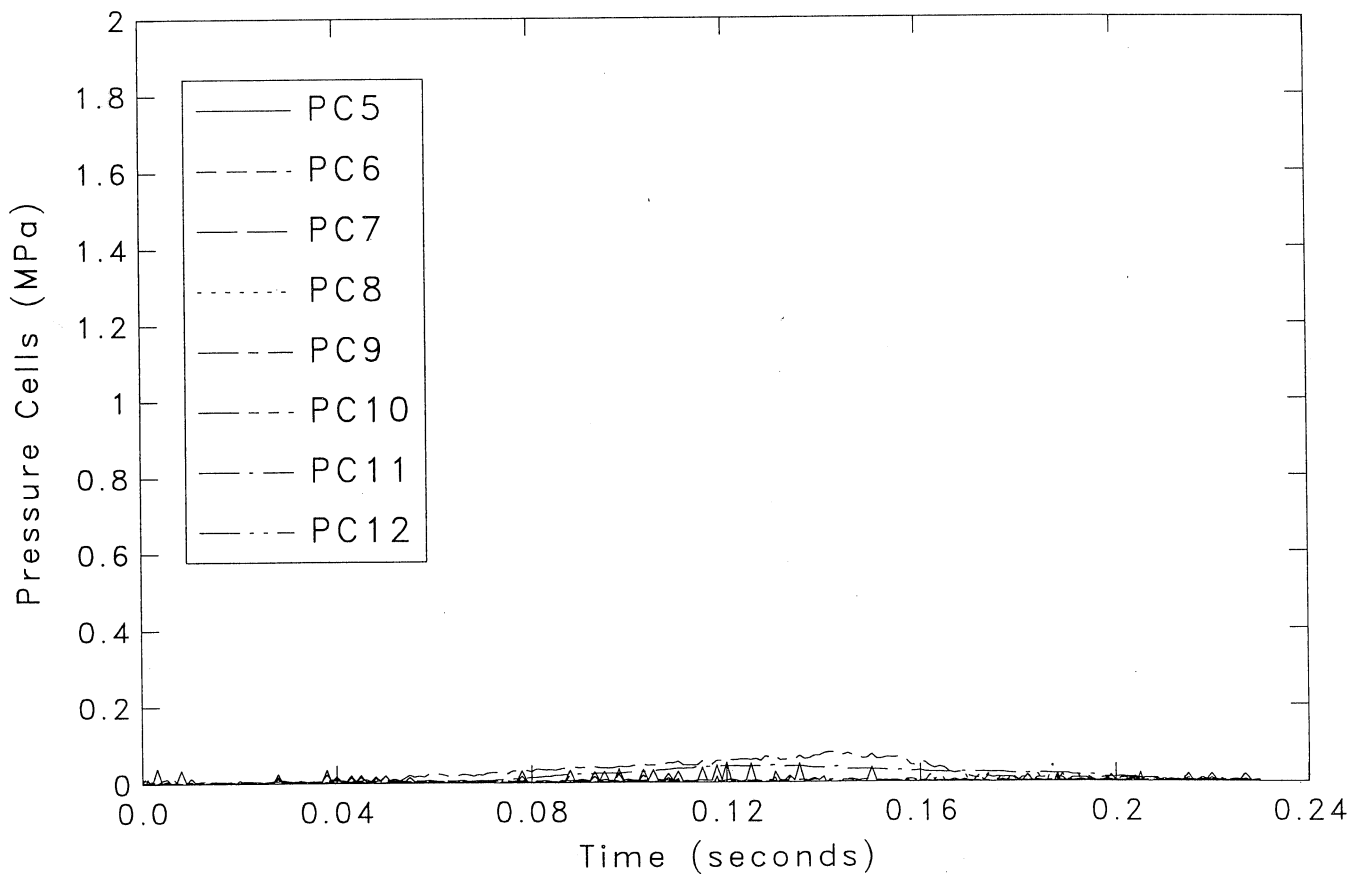
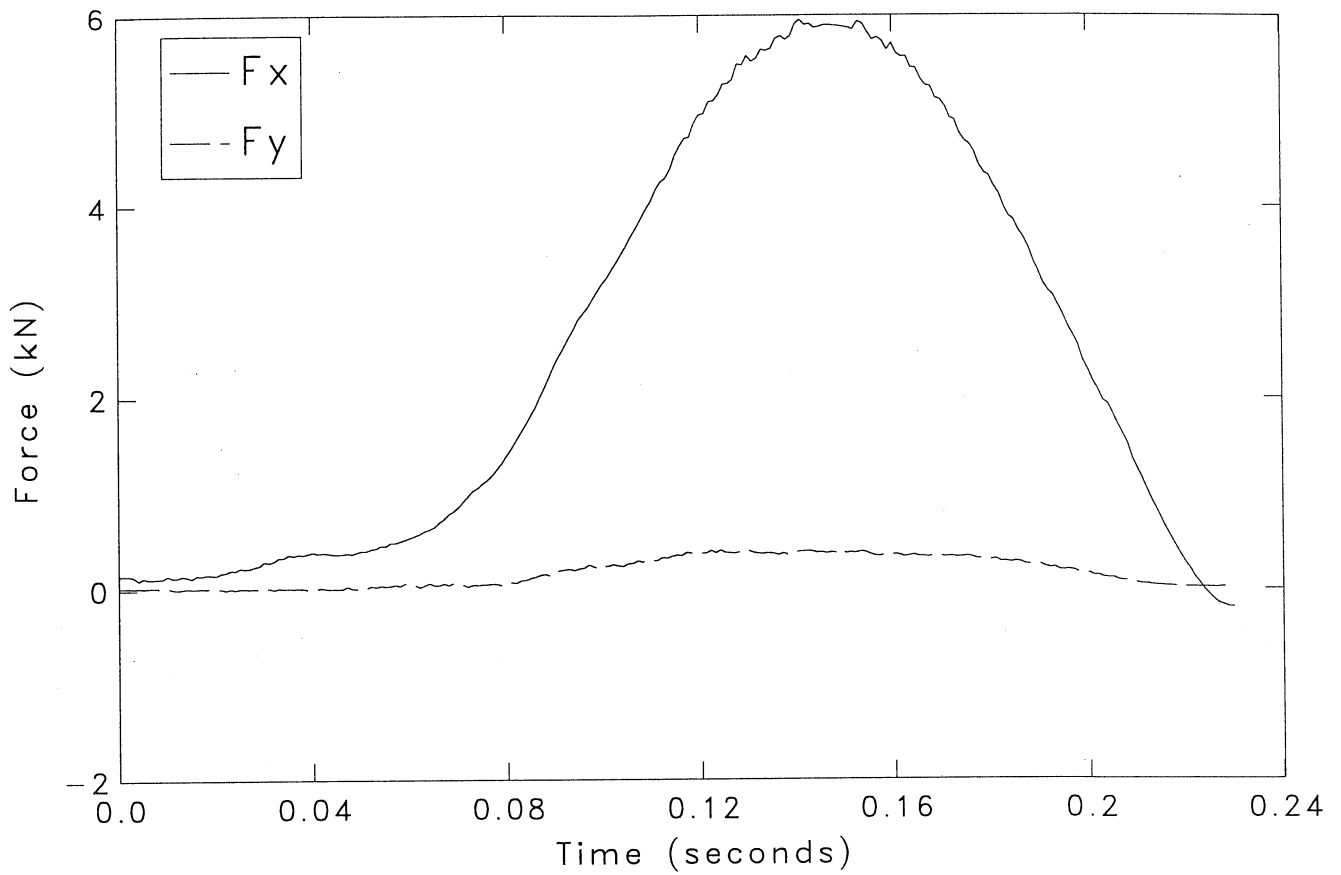


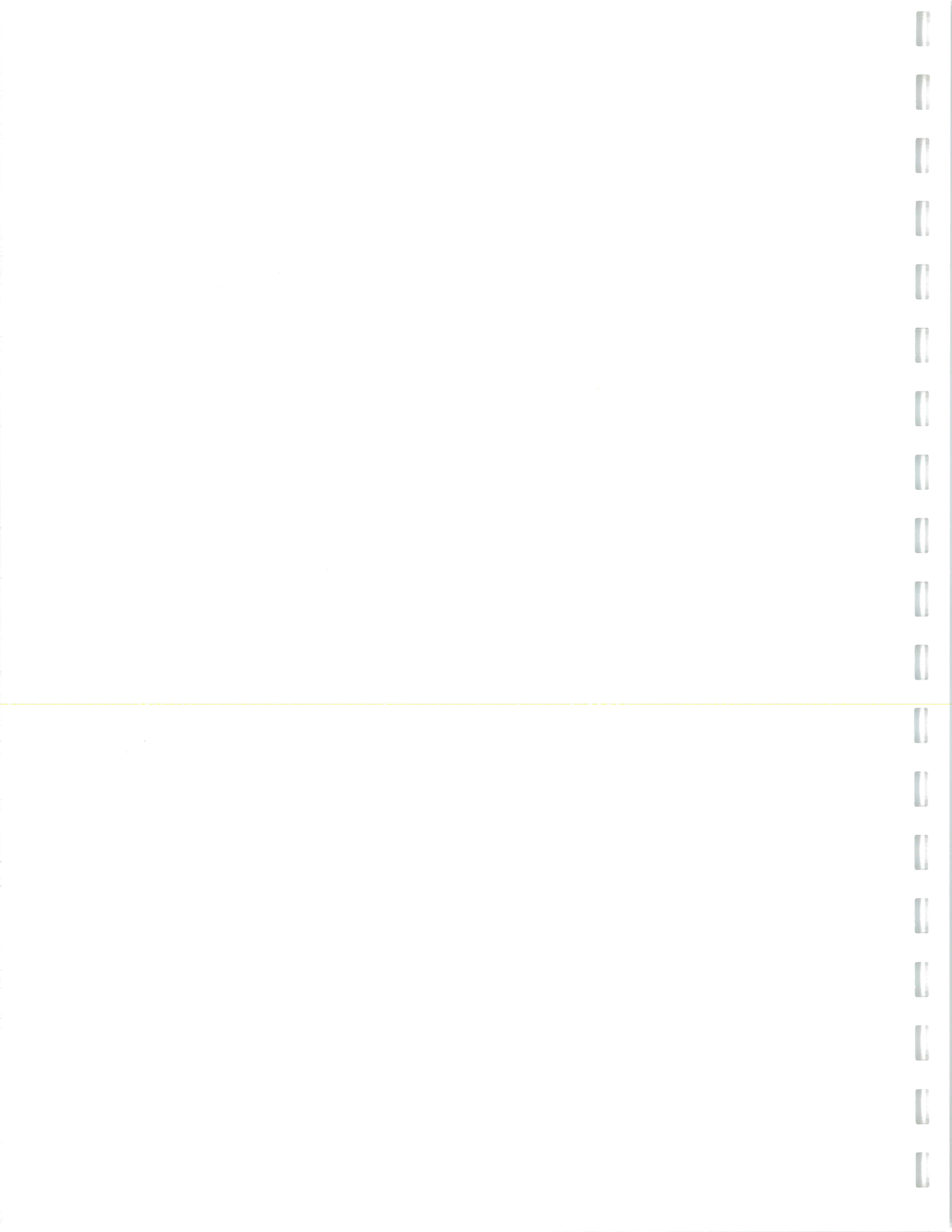
Floe Velocity = 58mm/s
Floe Mass = 7.8t
Impact Edge Shape = curve

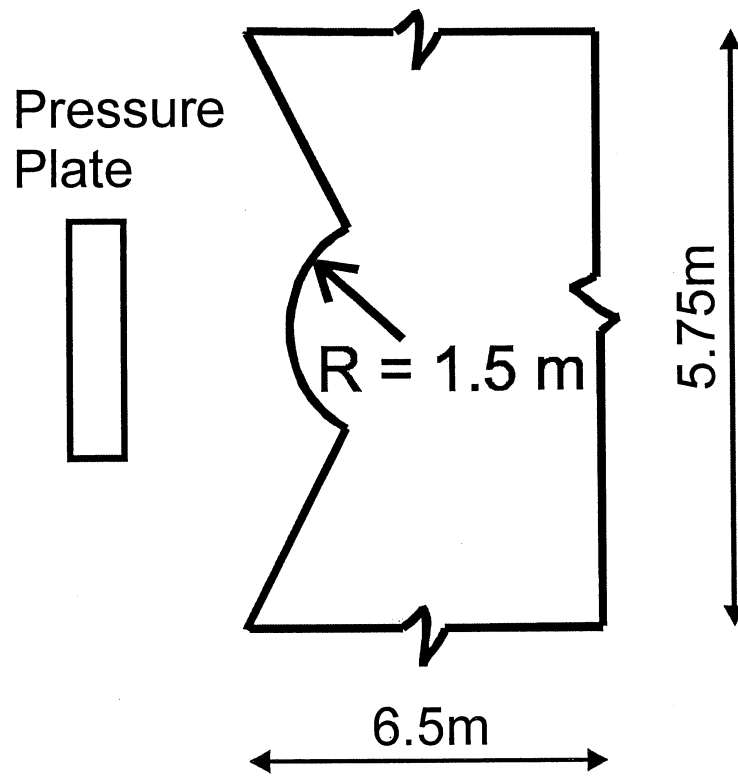
Exaggerated details for clarity

Test 25





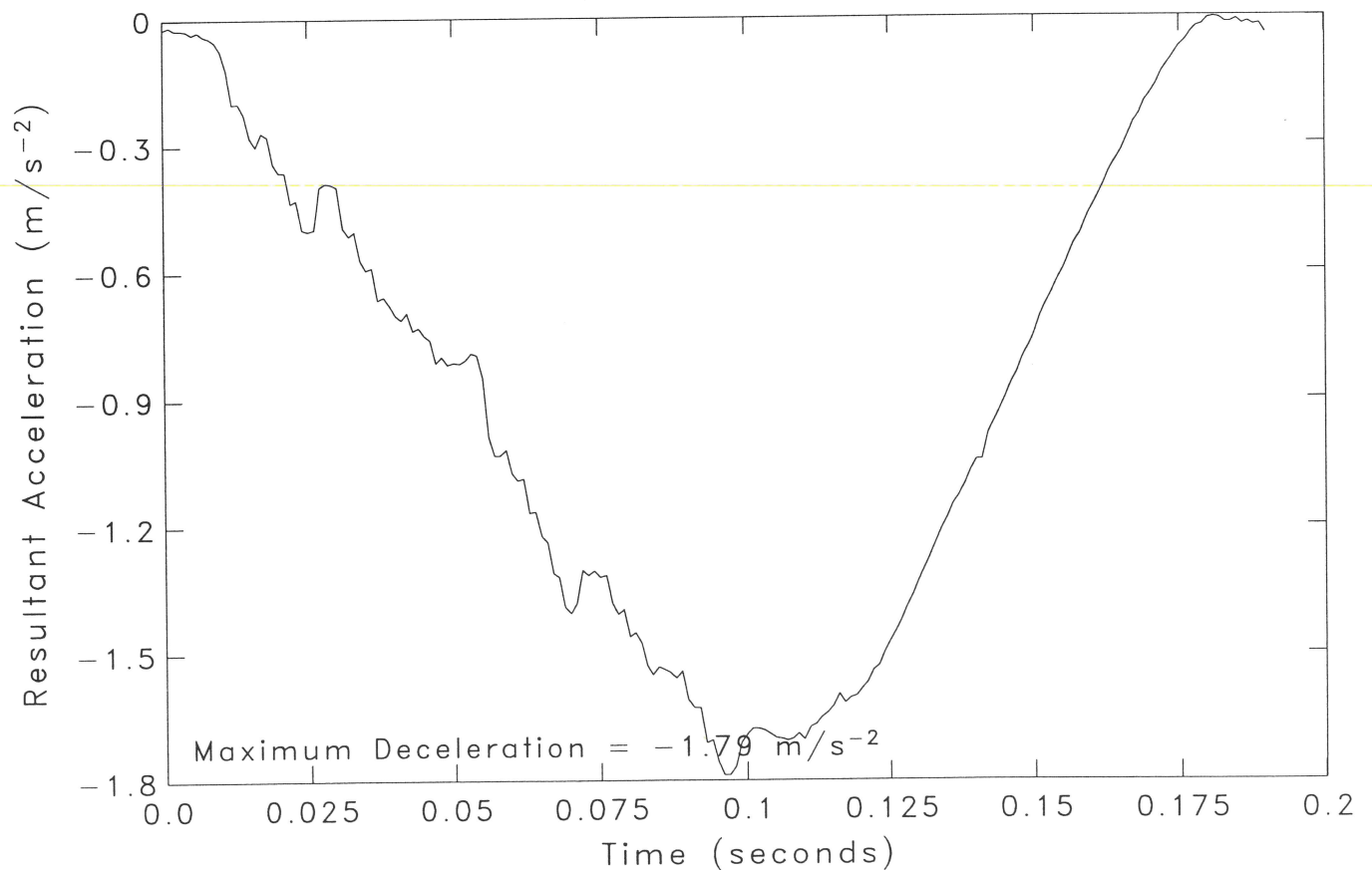
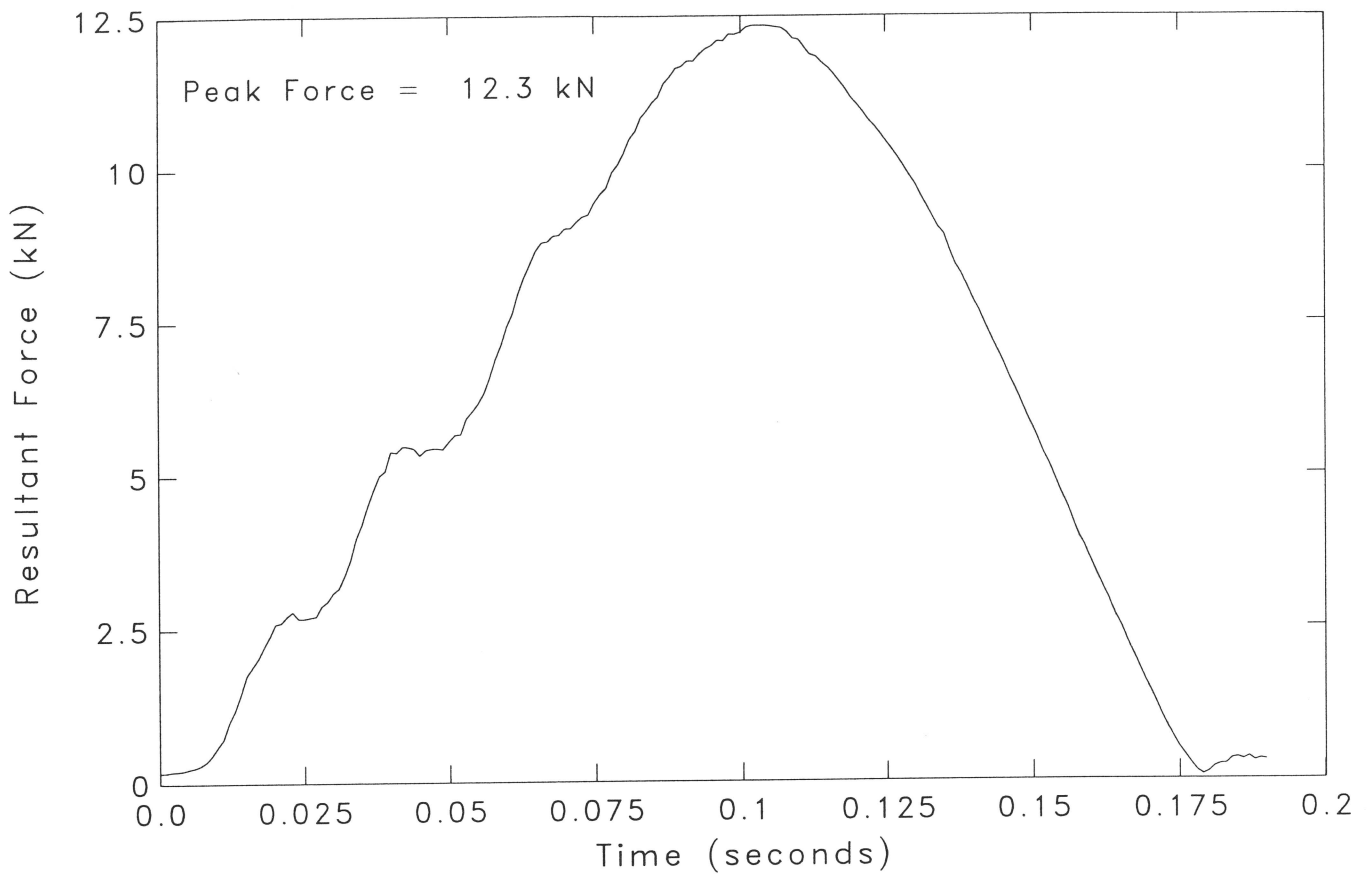


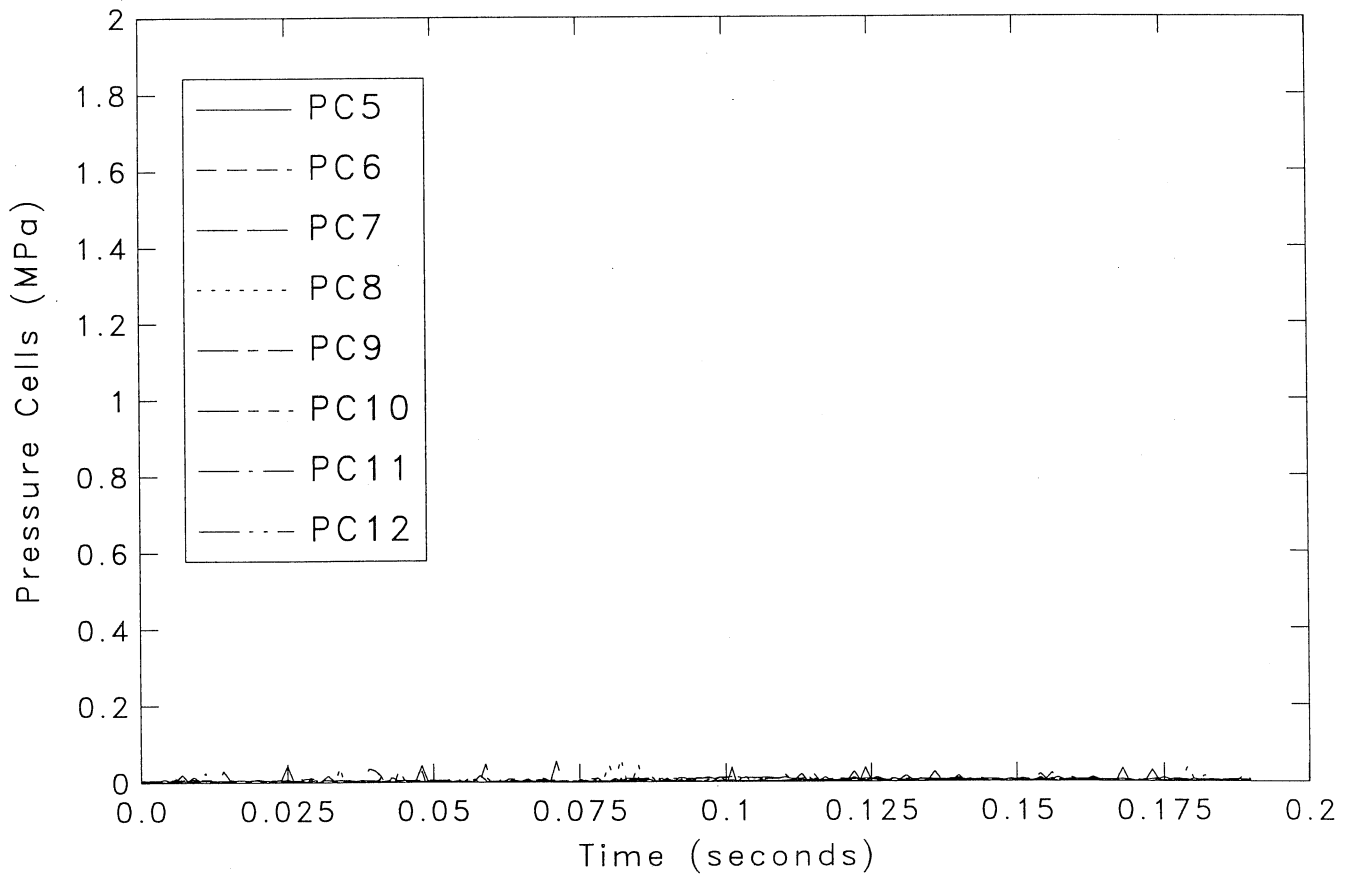
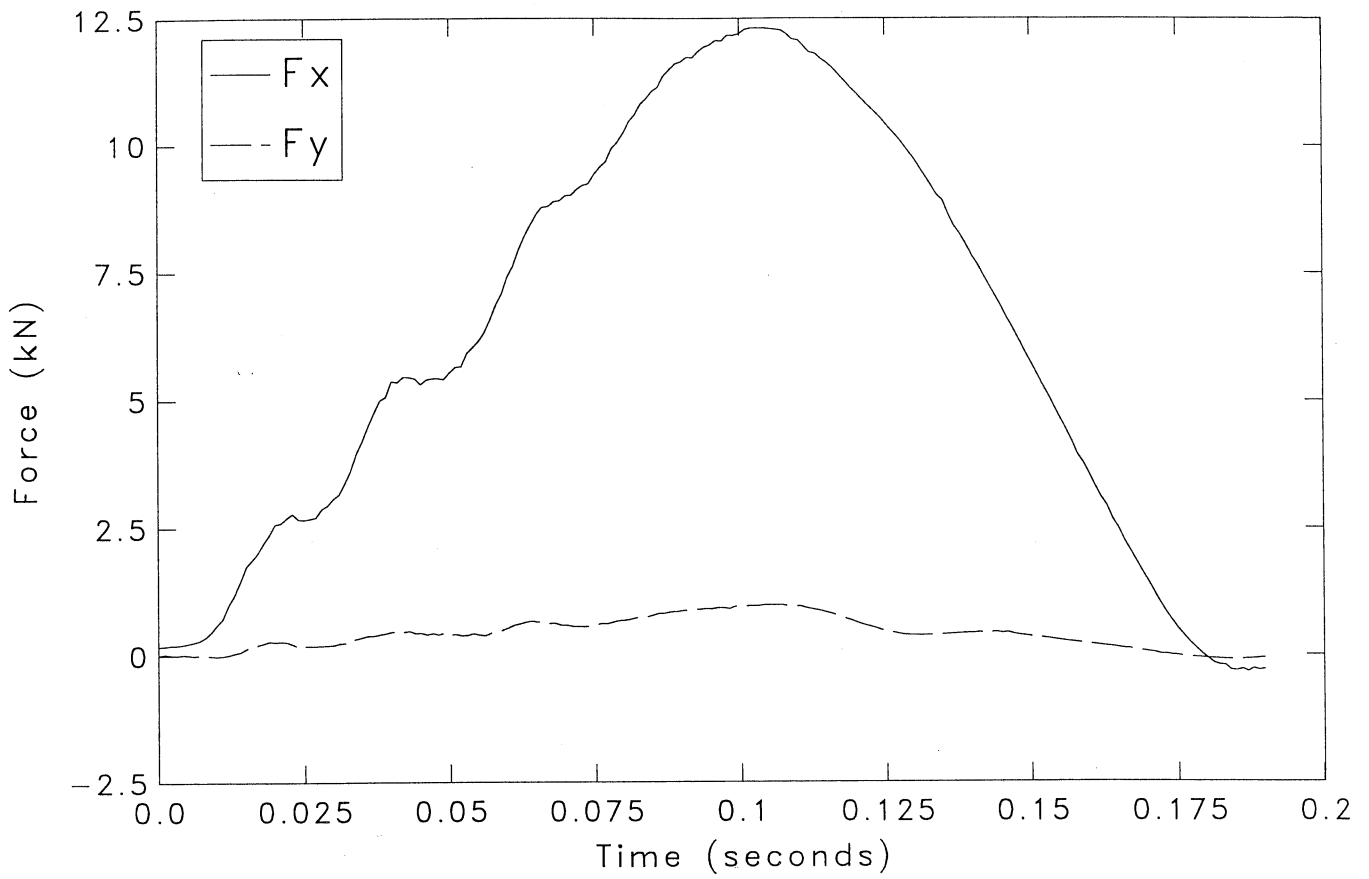


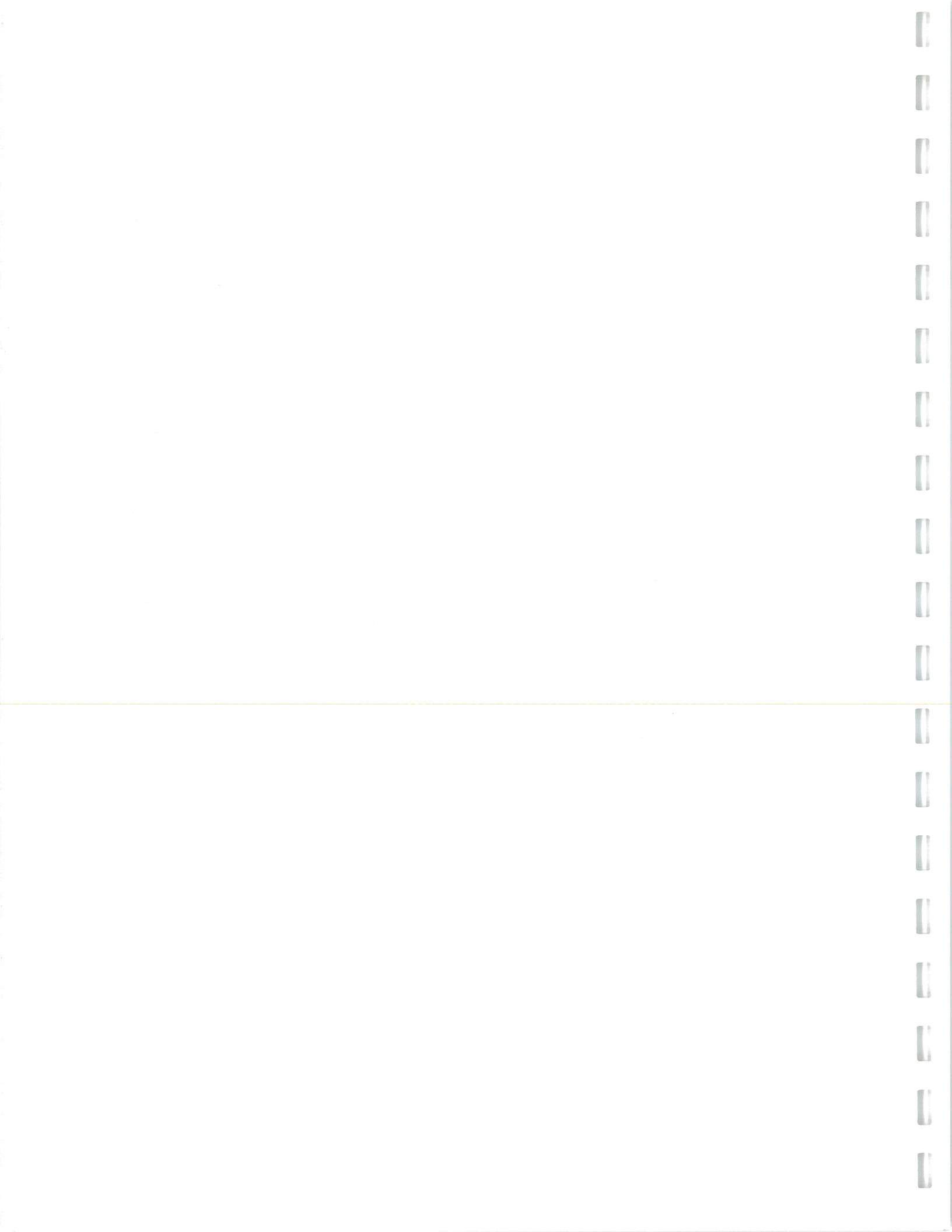
Floe Velocity = 94mm/s
Floe Mass = 7.8t
Impact Edge Shape = curve

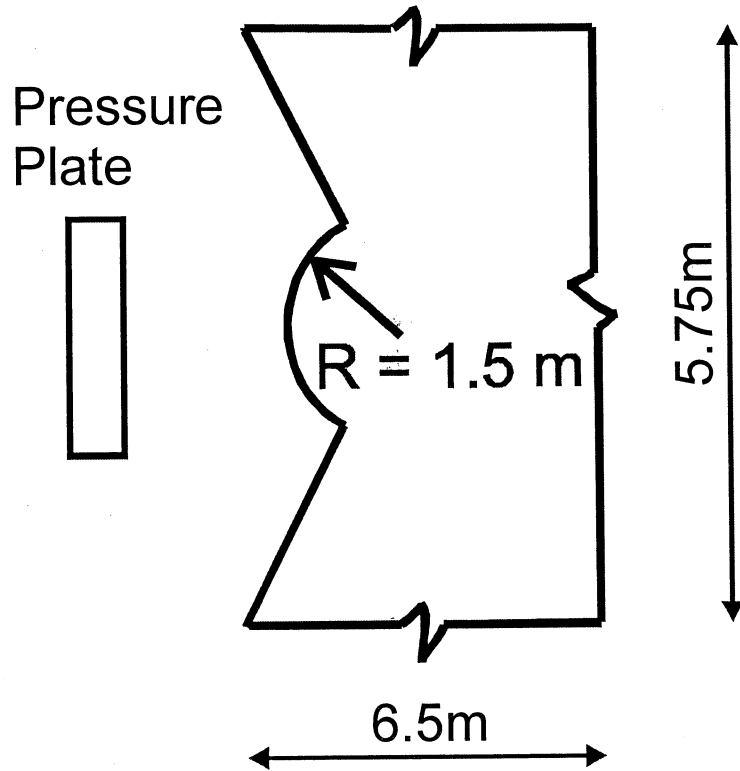
Exaggerated details for clarity

Test 26





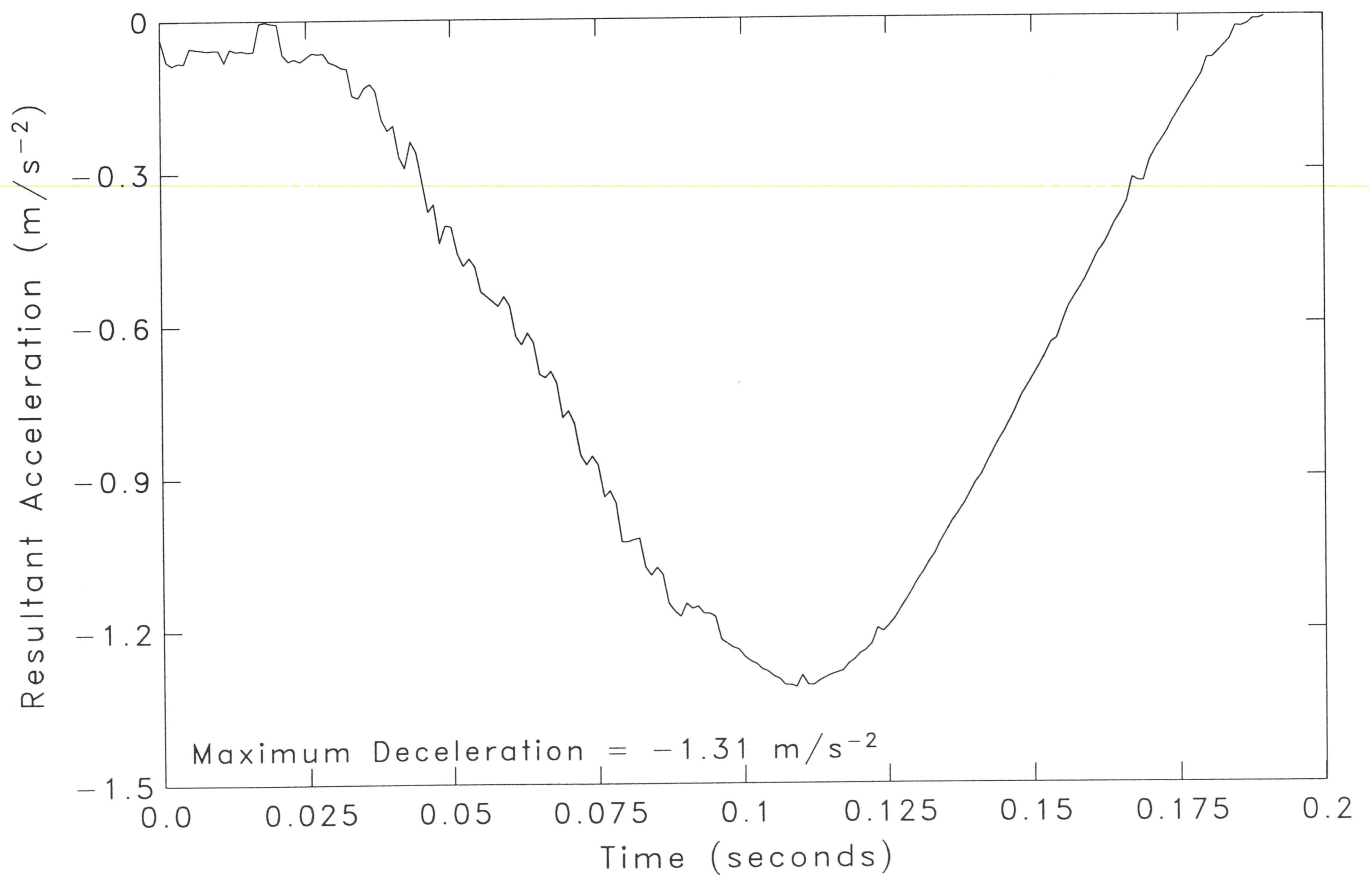
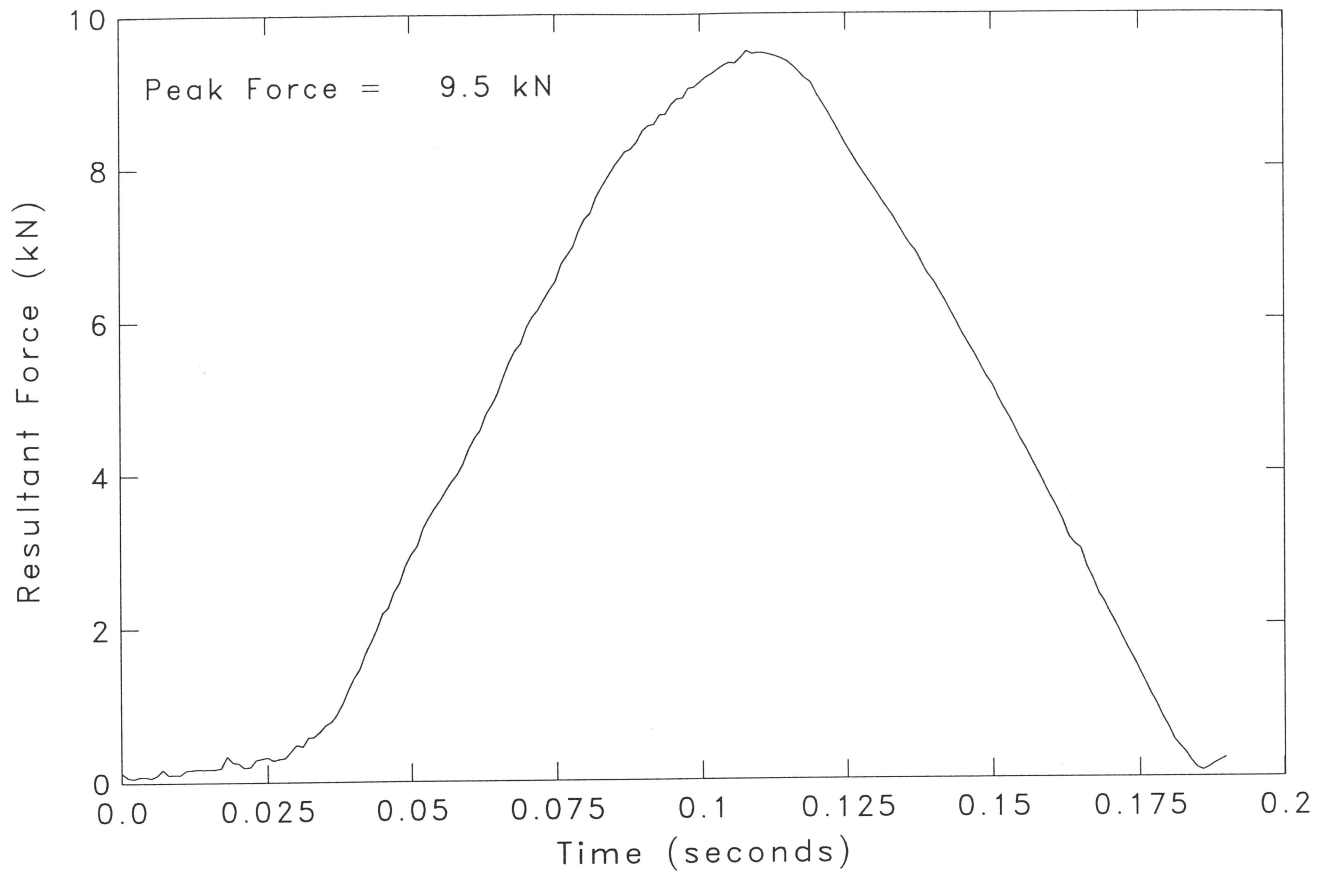


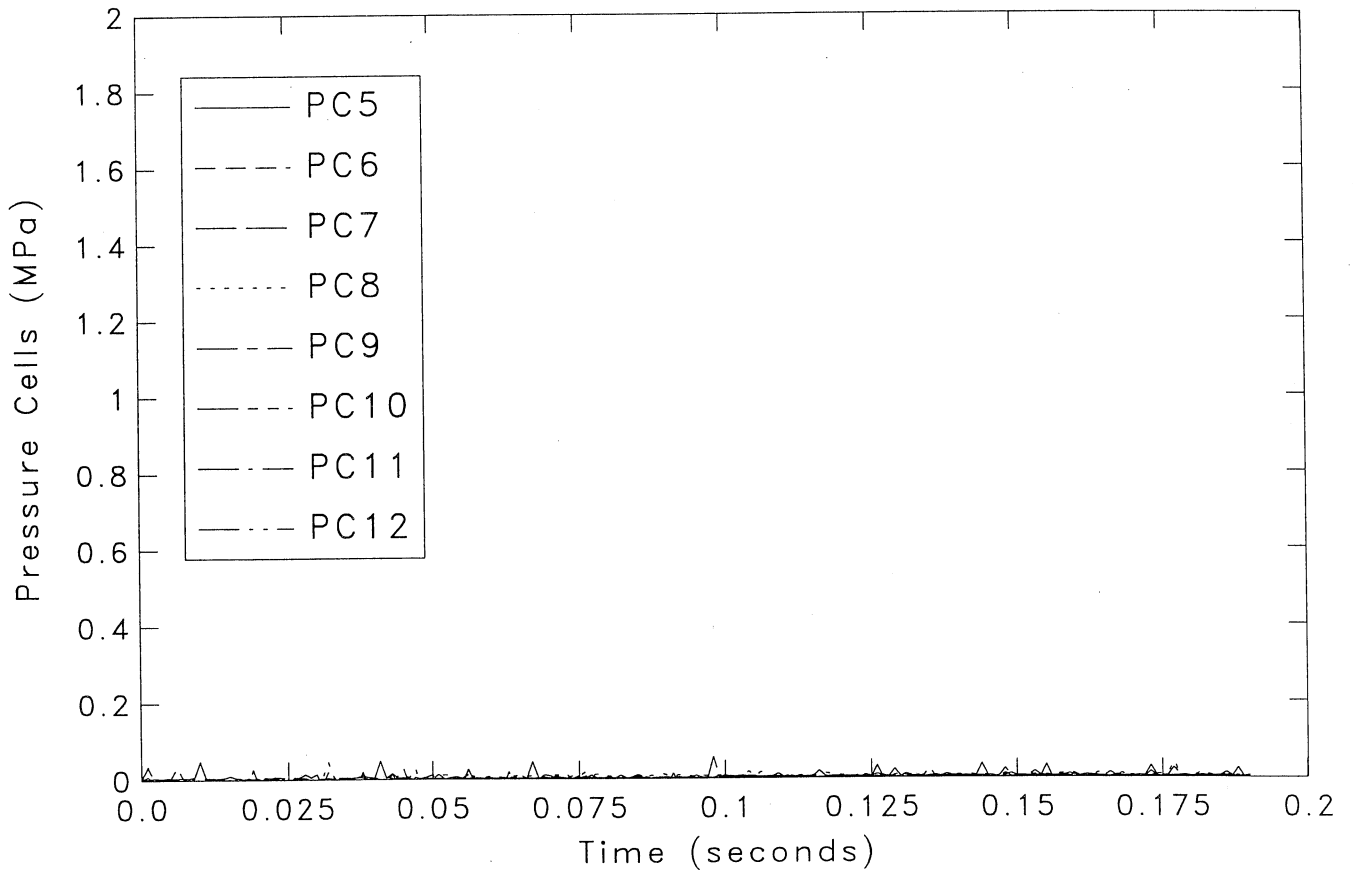
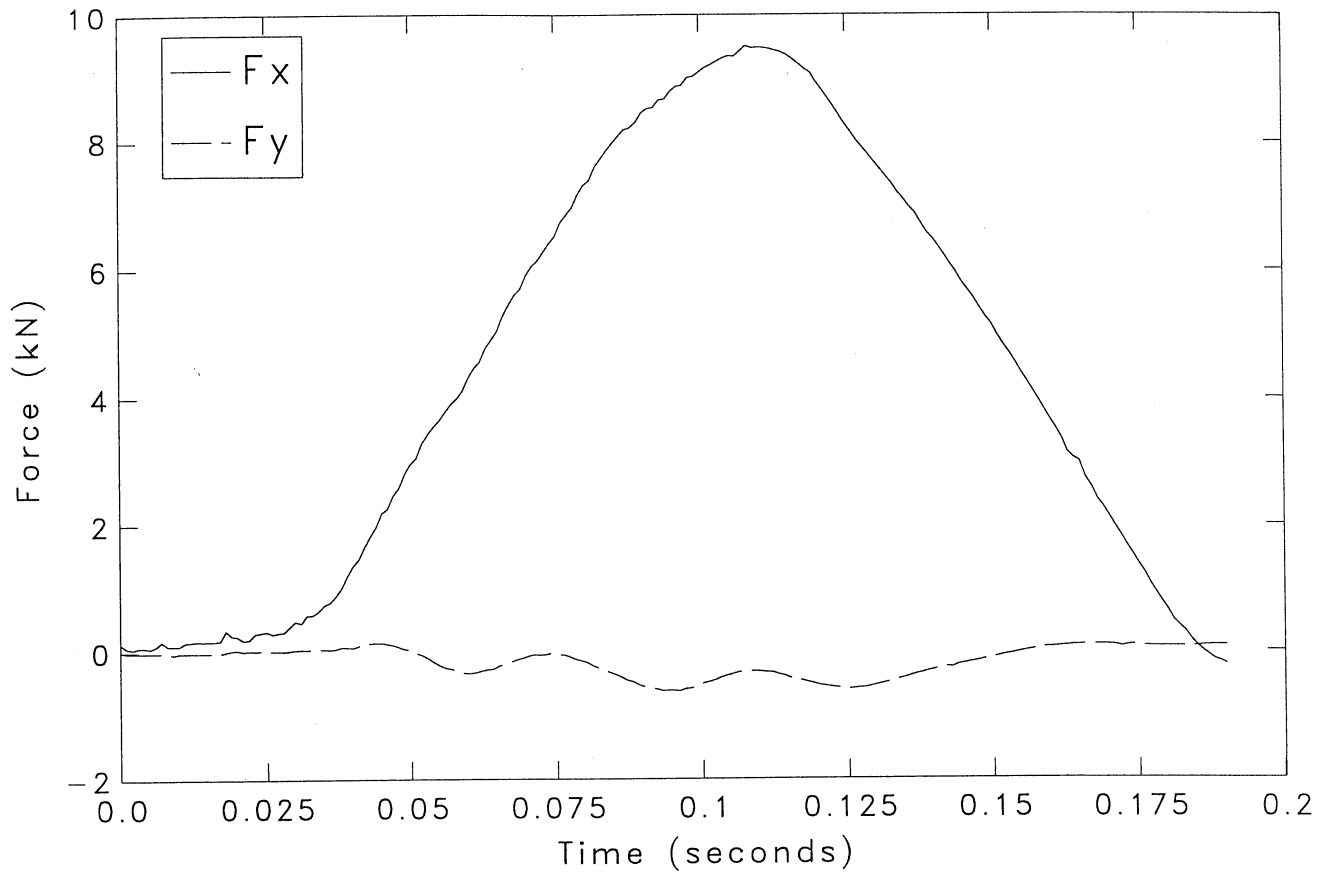


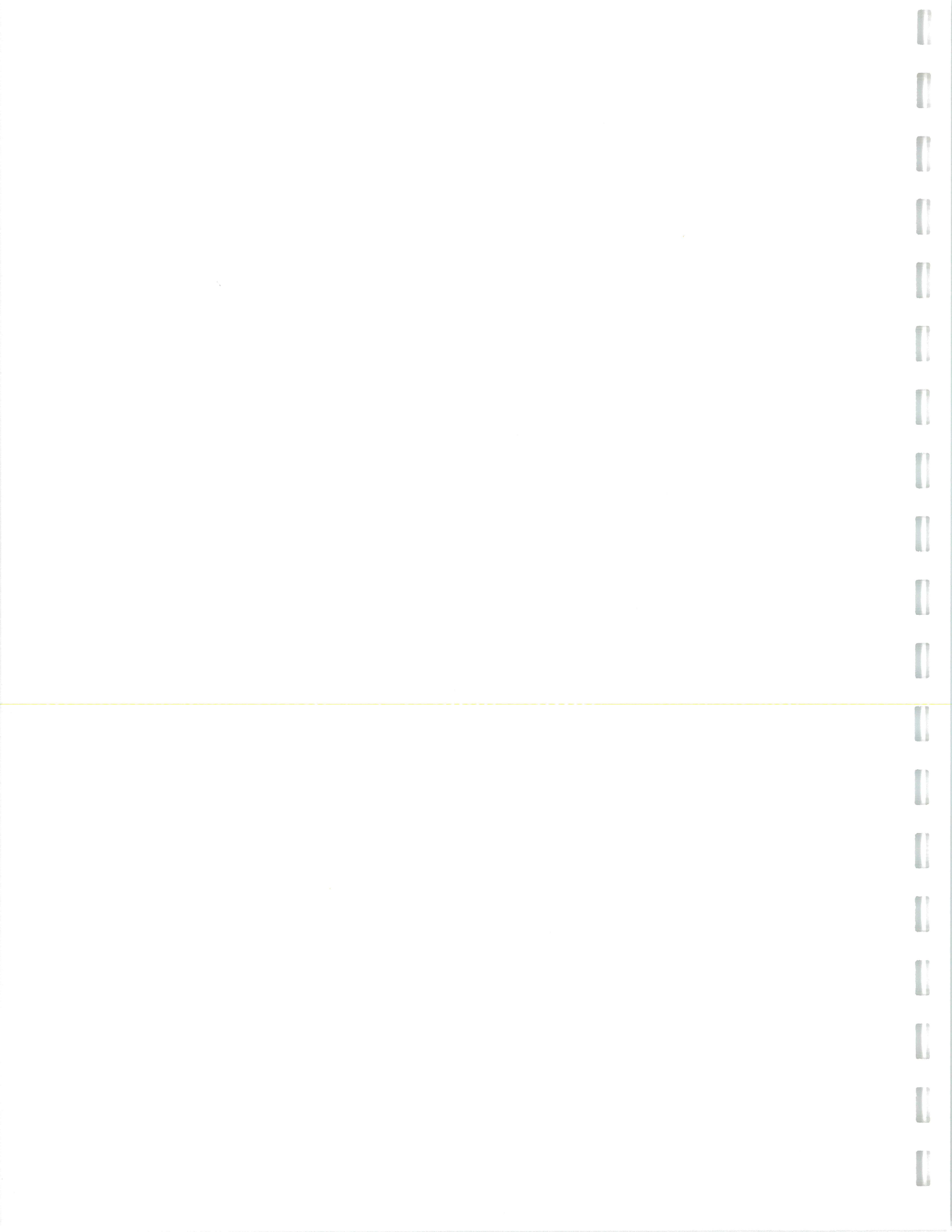
Floe Velocity = 70mm/s
Floe Mass = 7.8t
Impact Edge Shape = curve

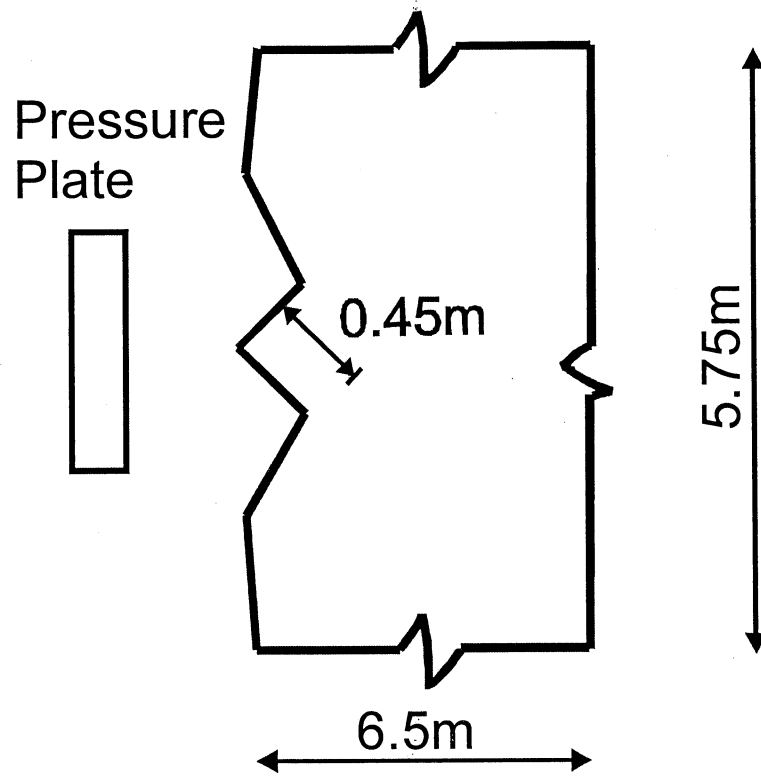
Exaggerated details for clarity

Test 27





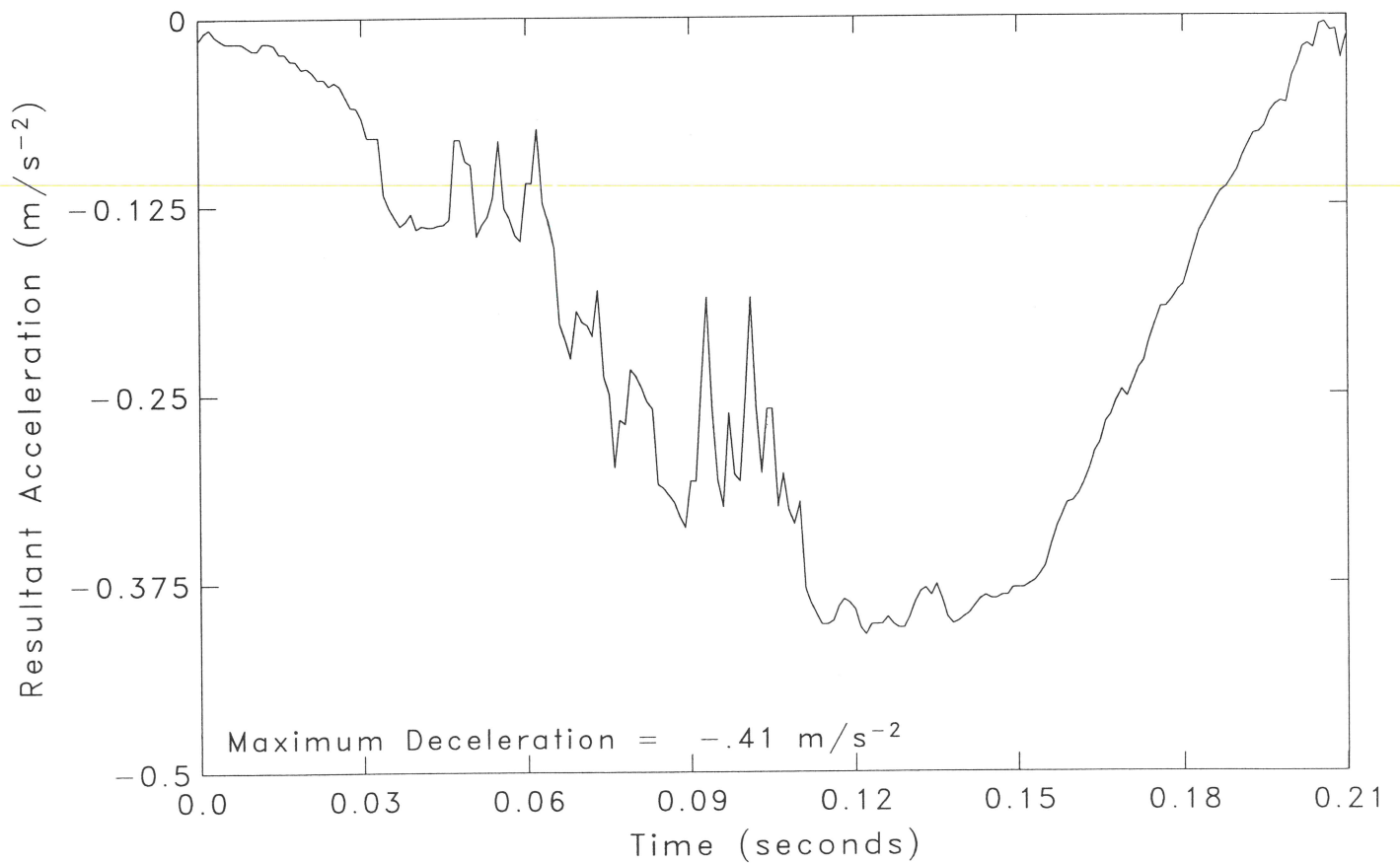
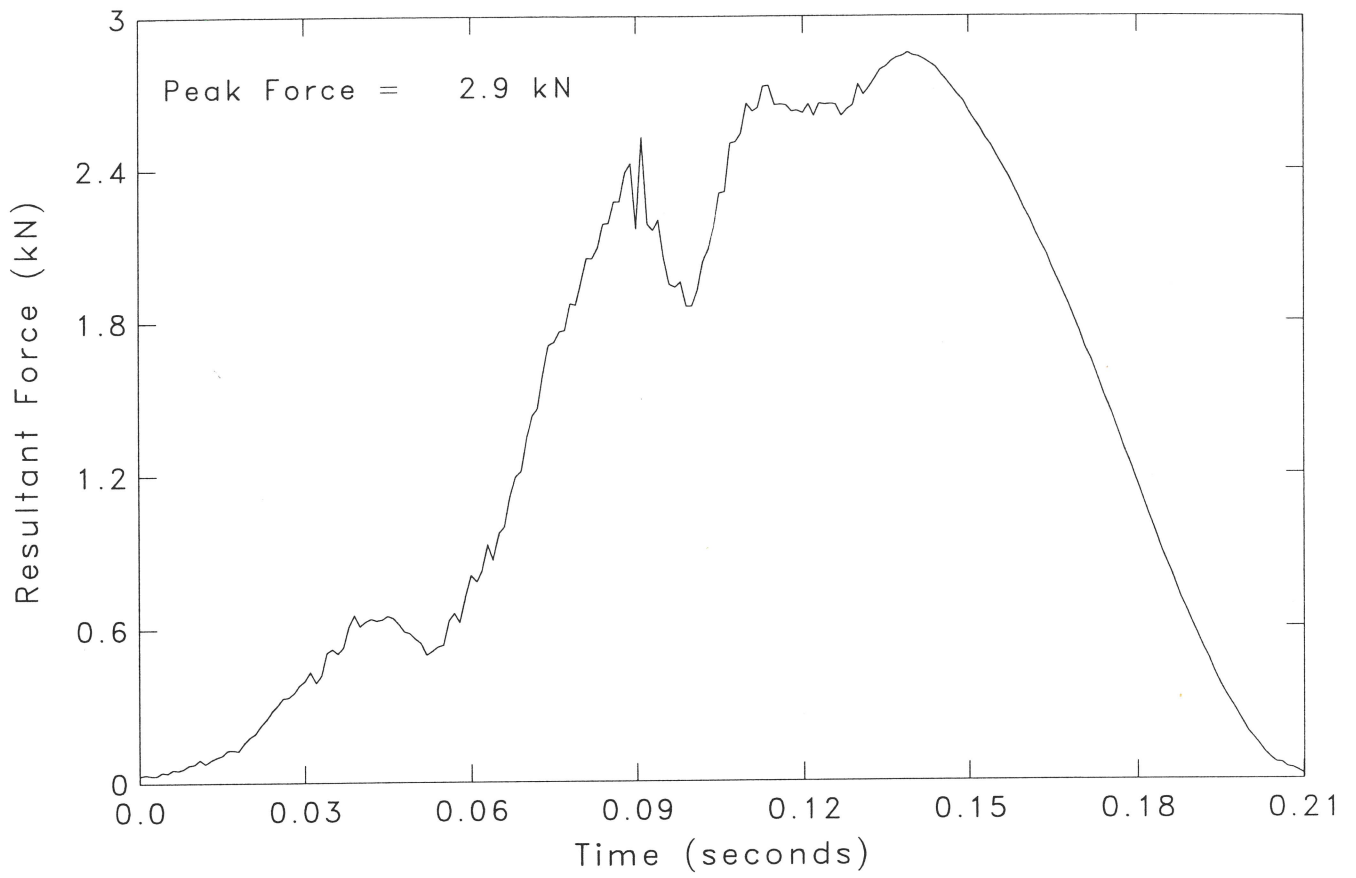


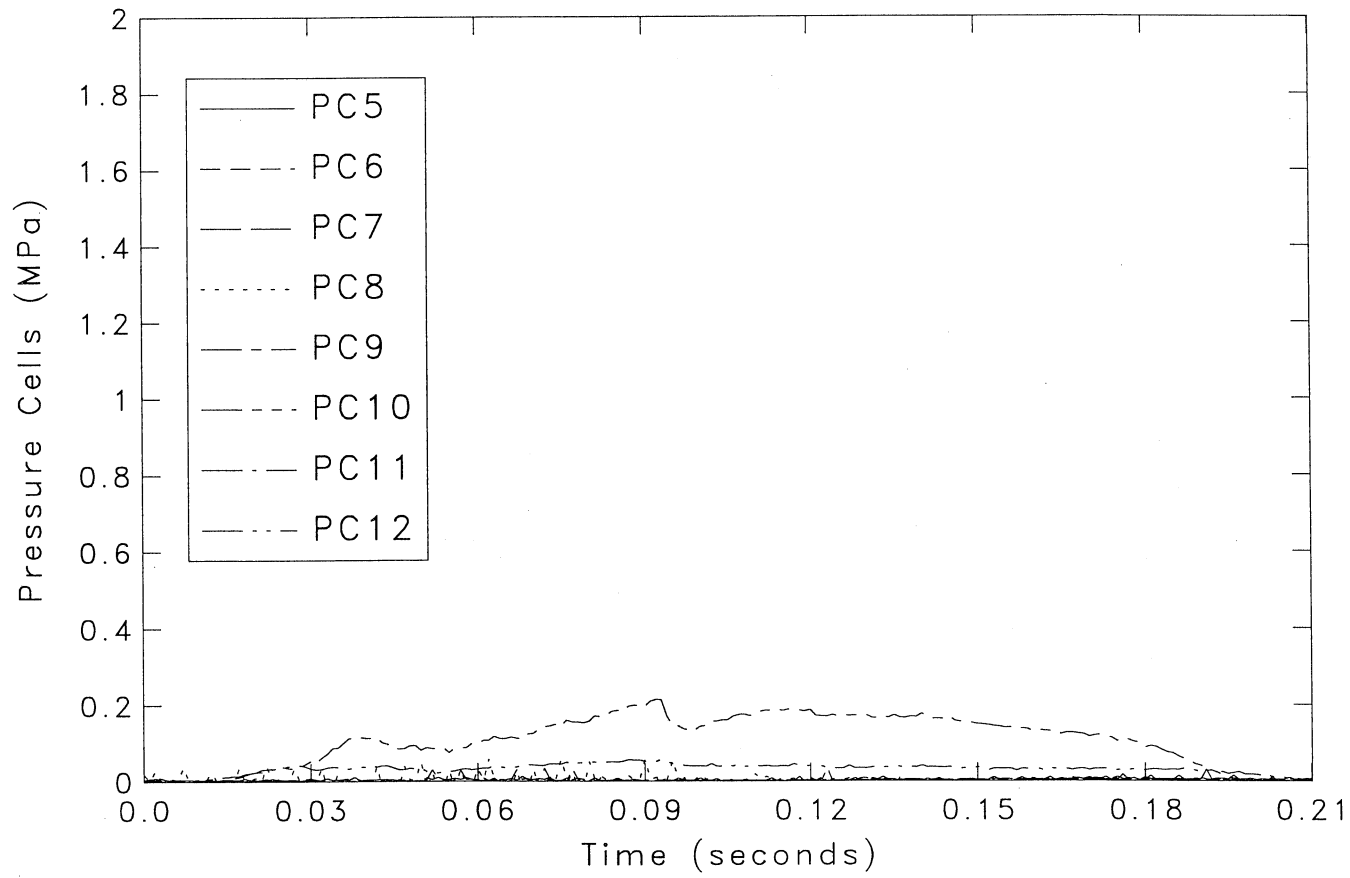
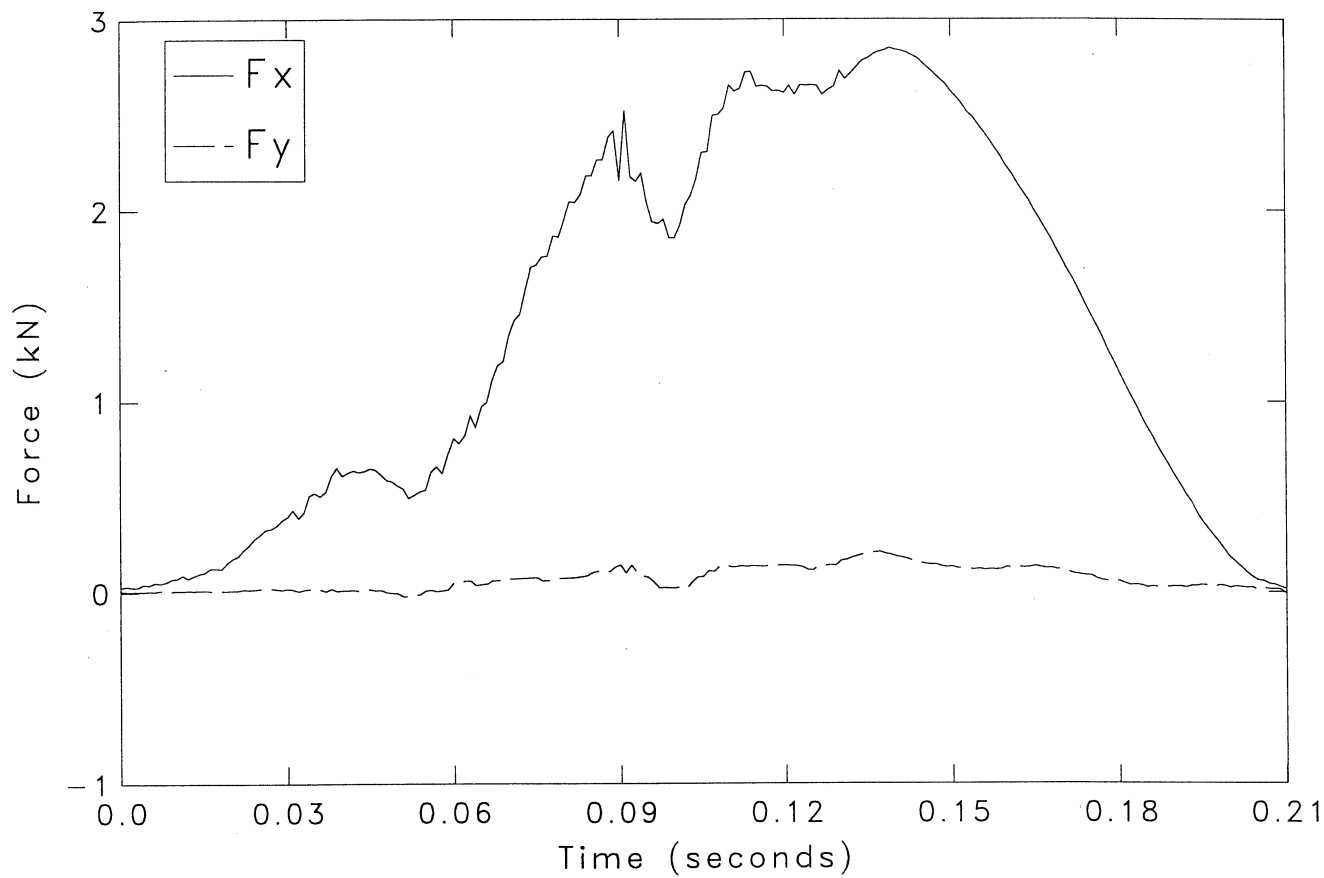


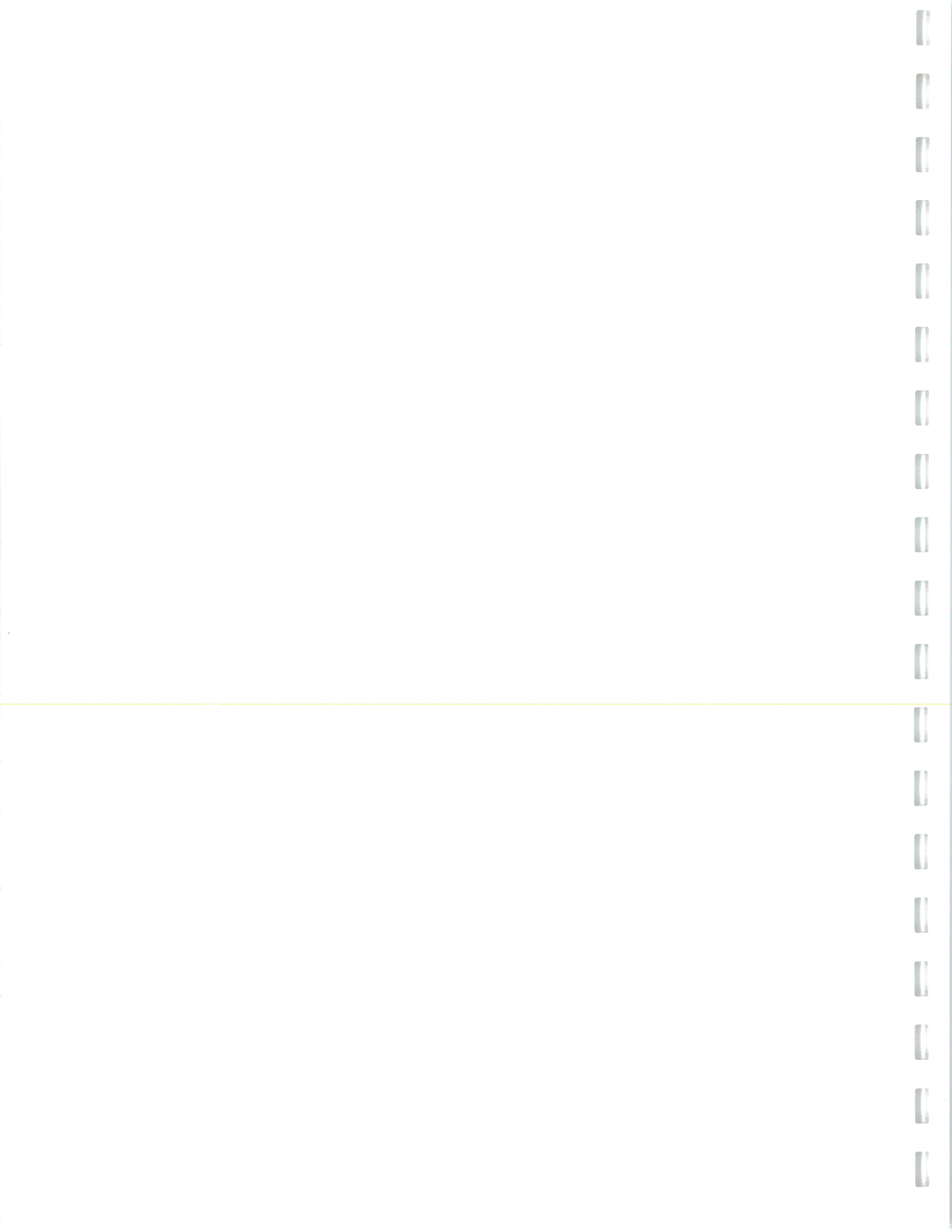
Floe Velocity = 28mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

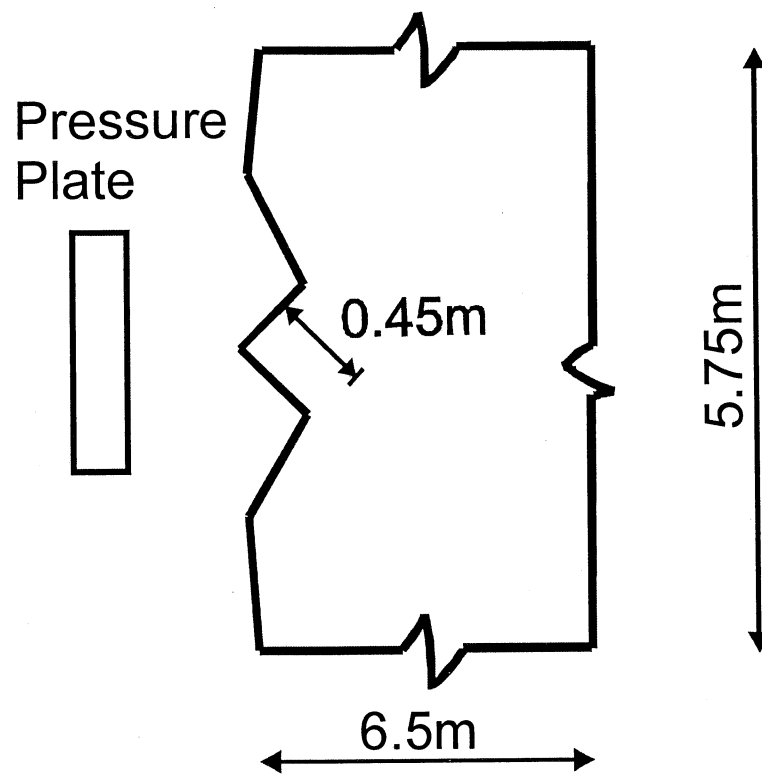
Exaggerated details for clarity

Test 28





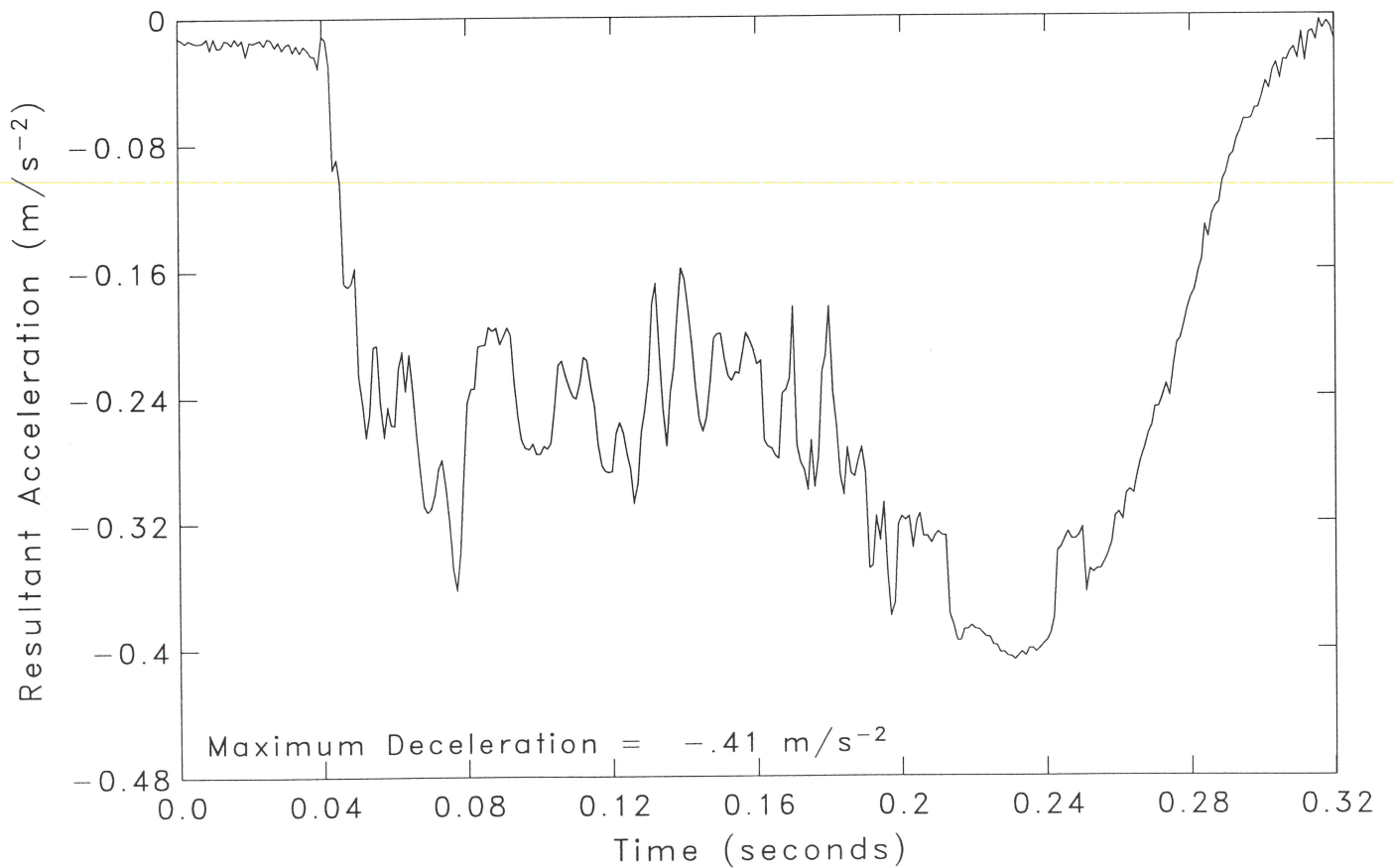
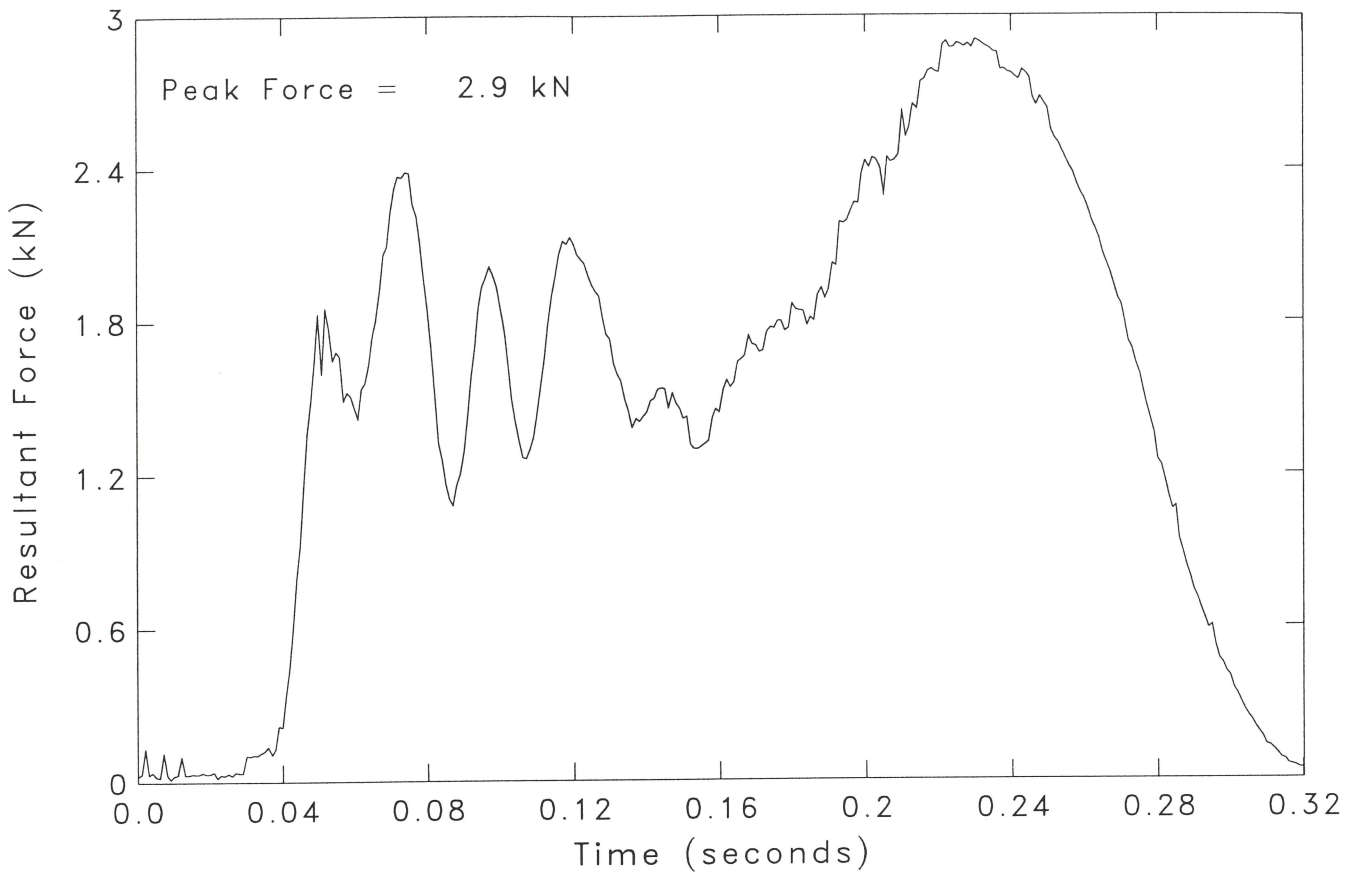


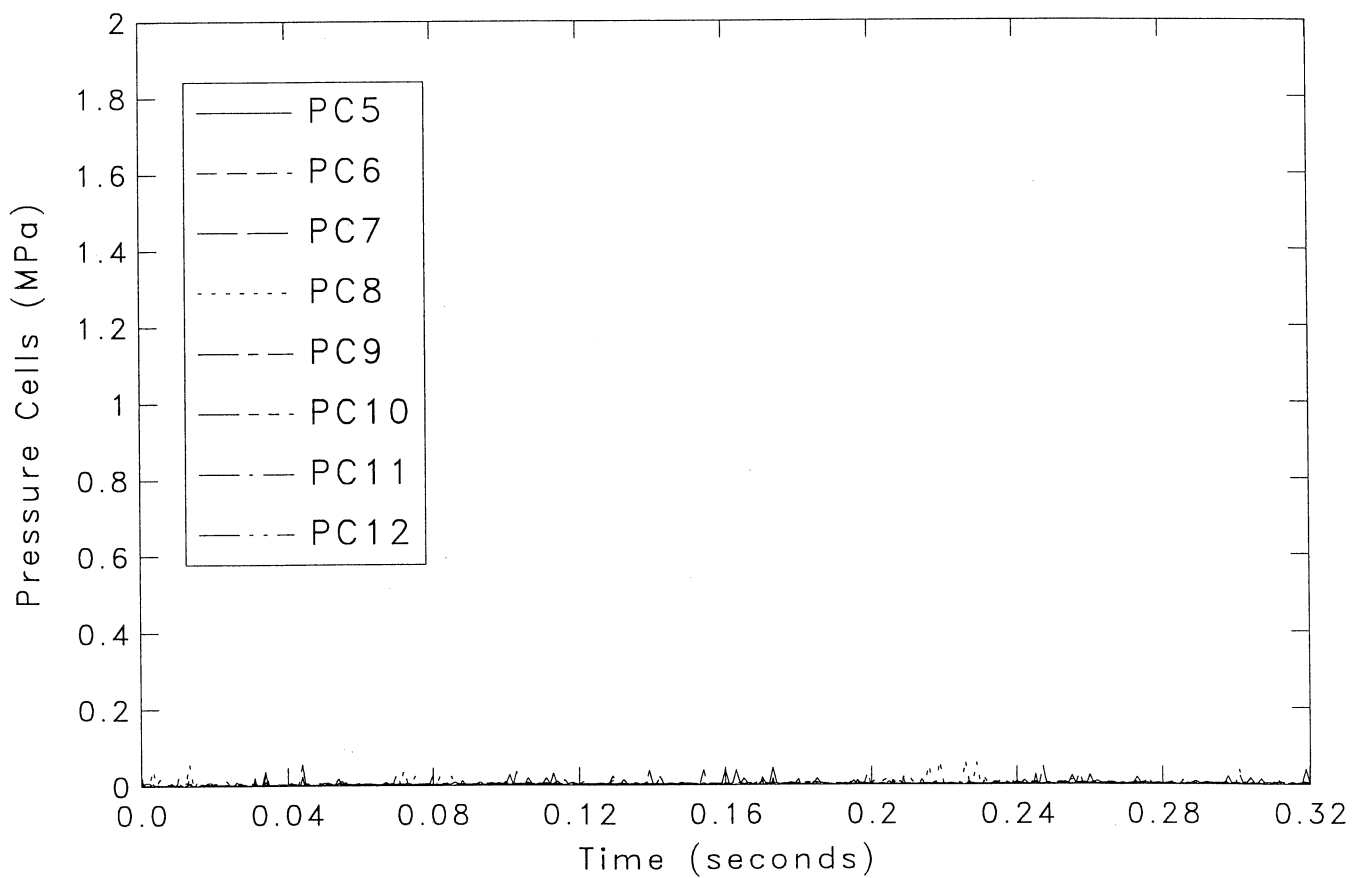
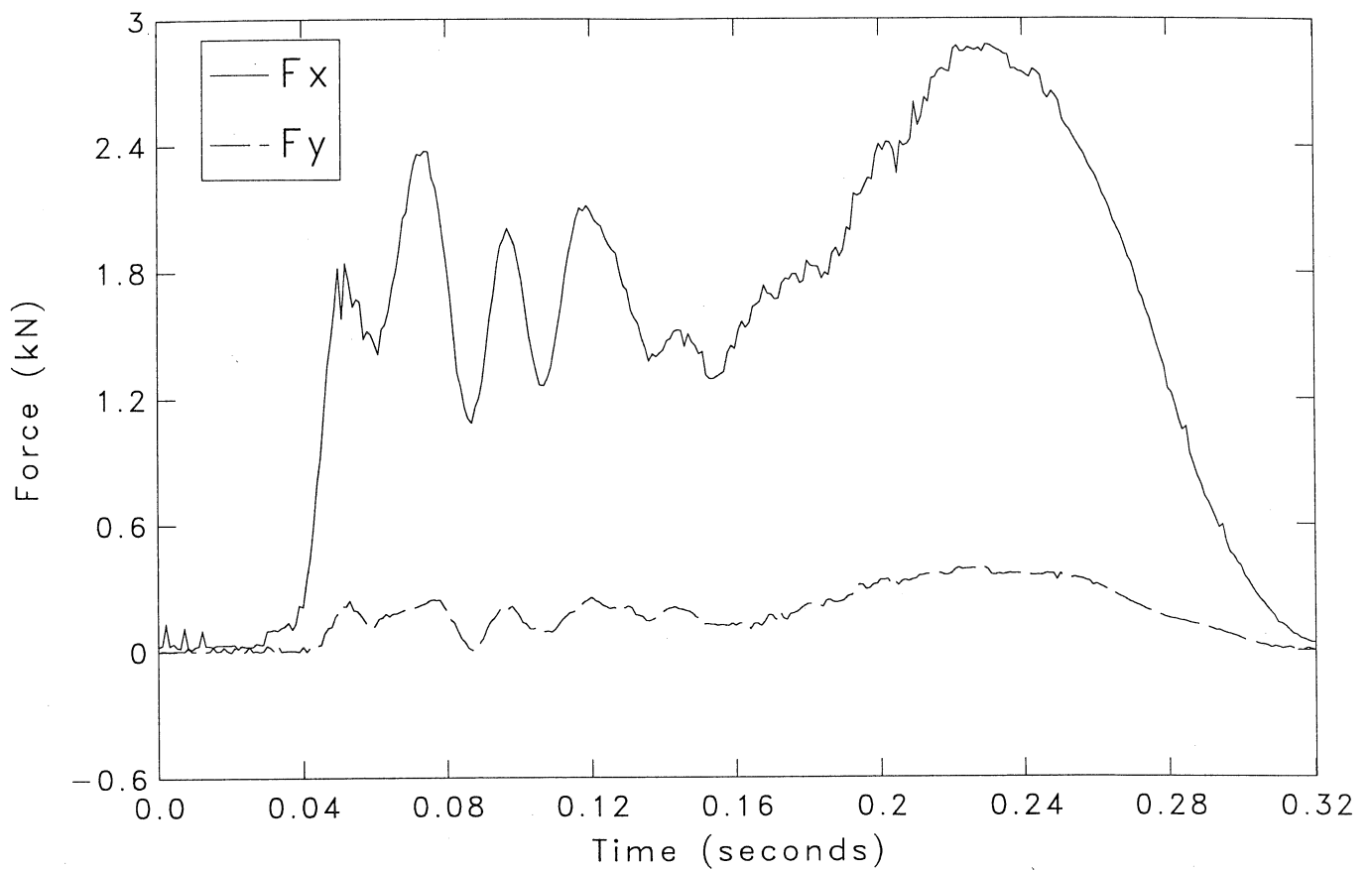


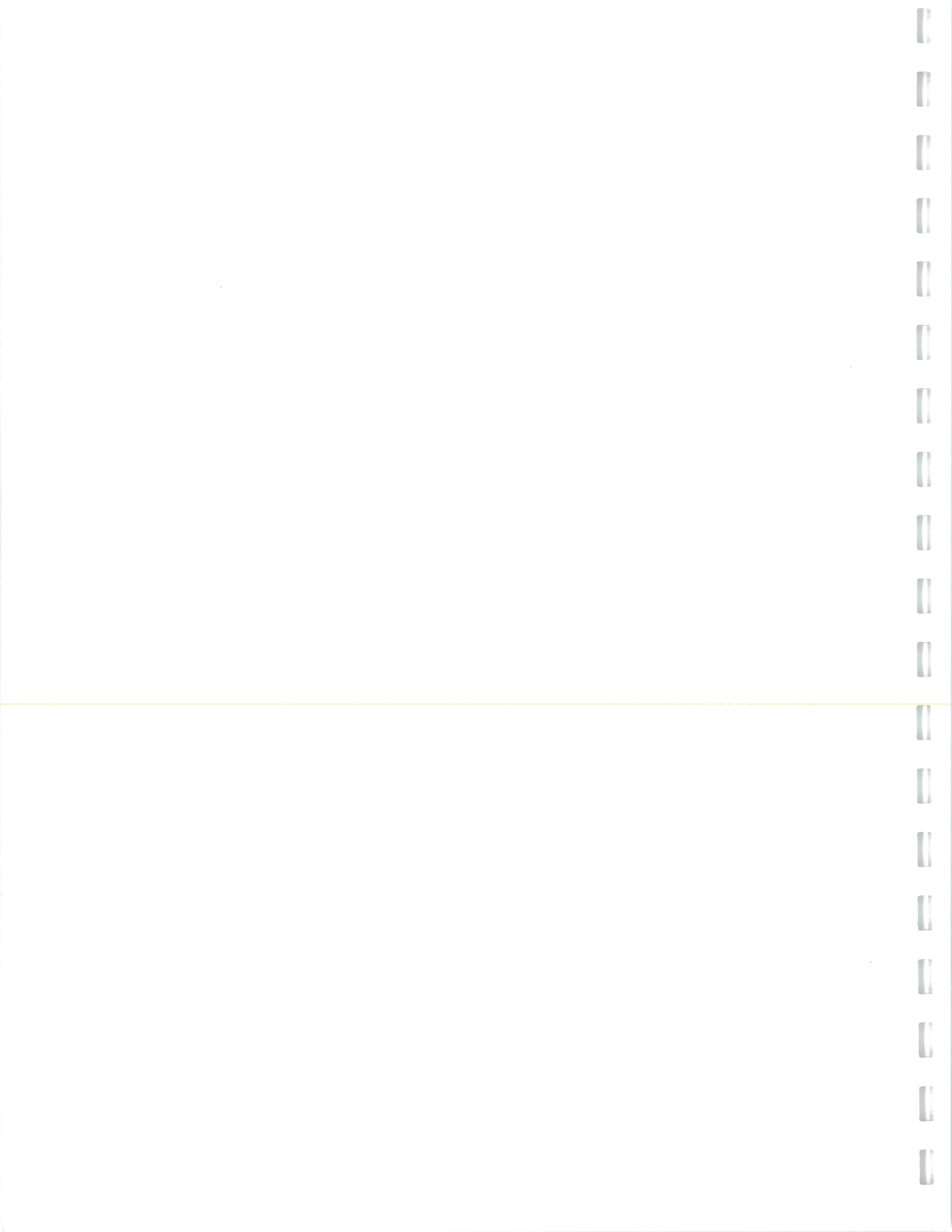
Floe Velocity = 53mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

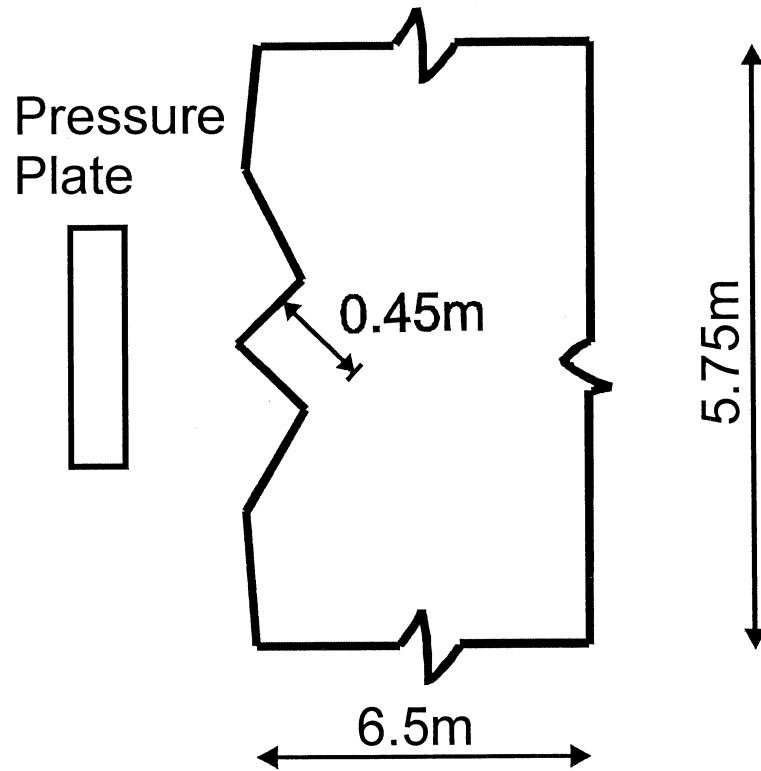
Exaggerated details for clarity

Test 29





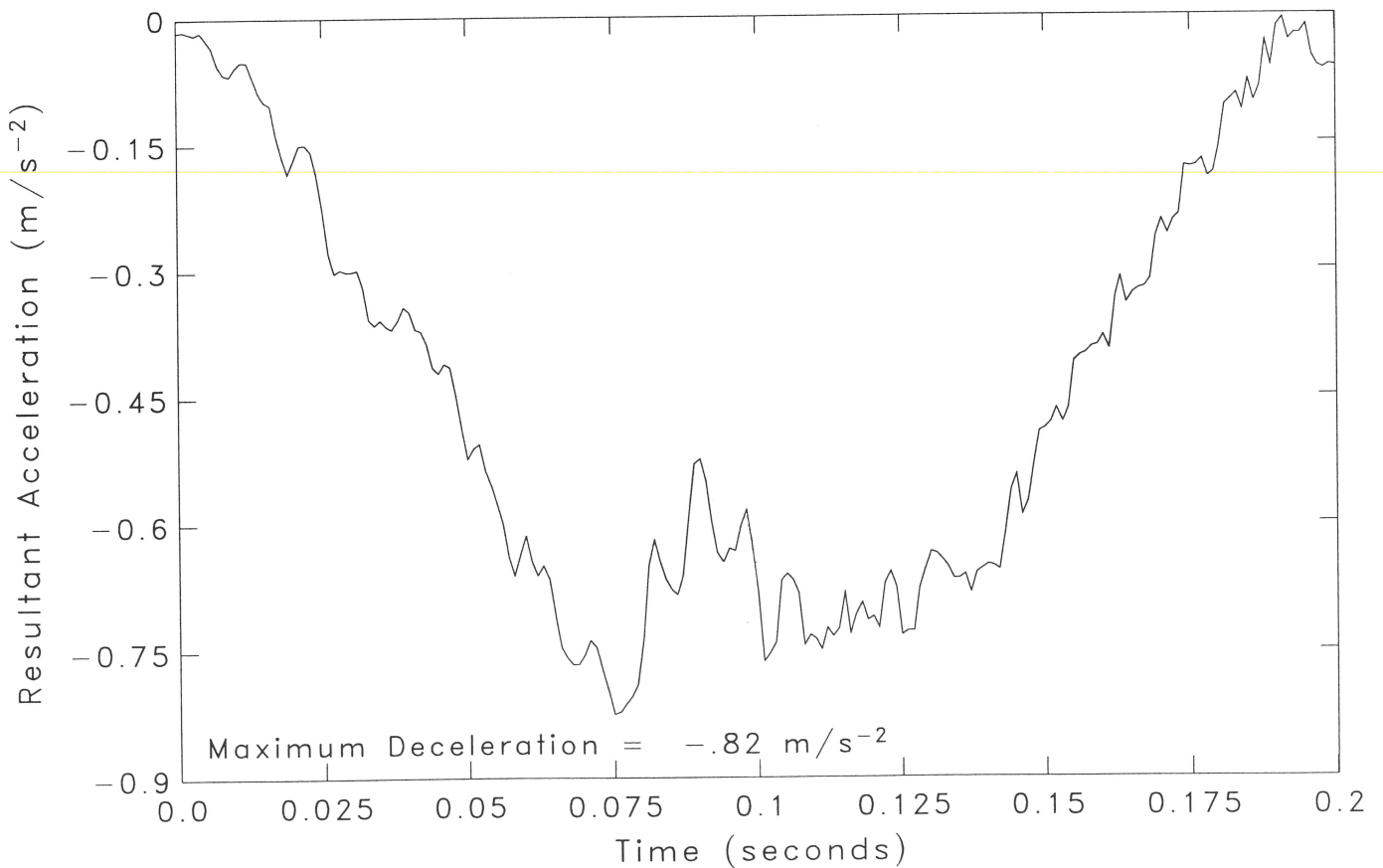
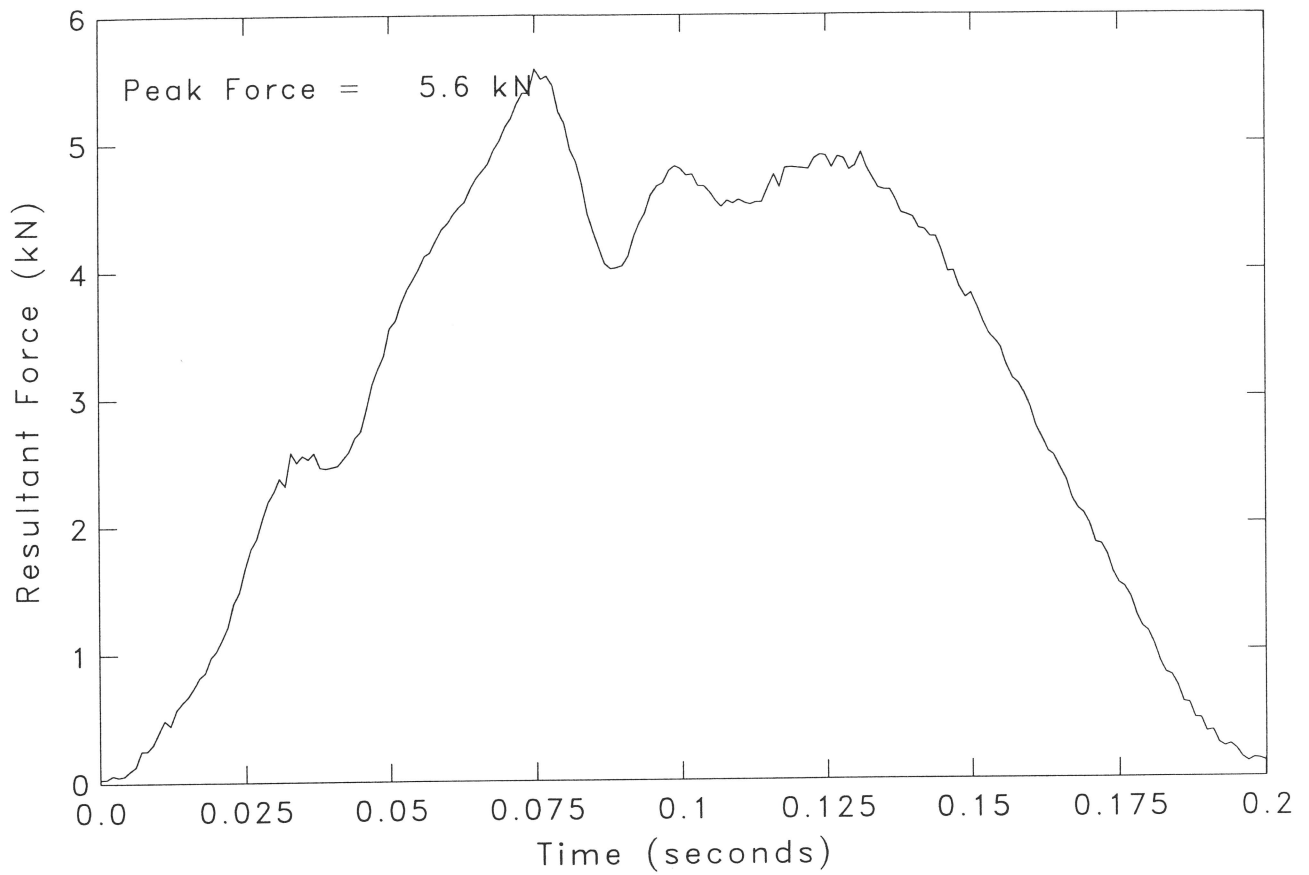


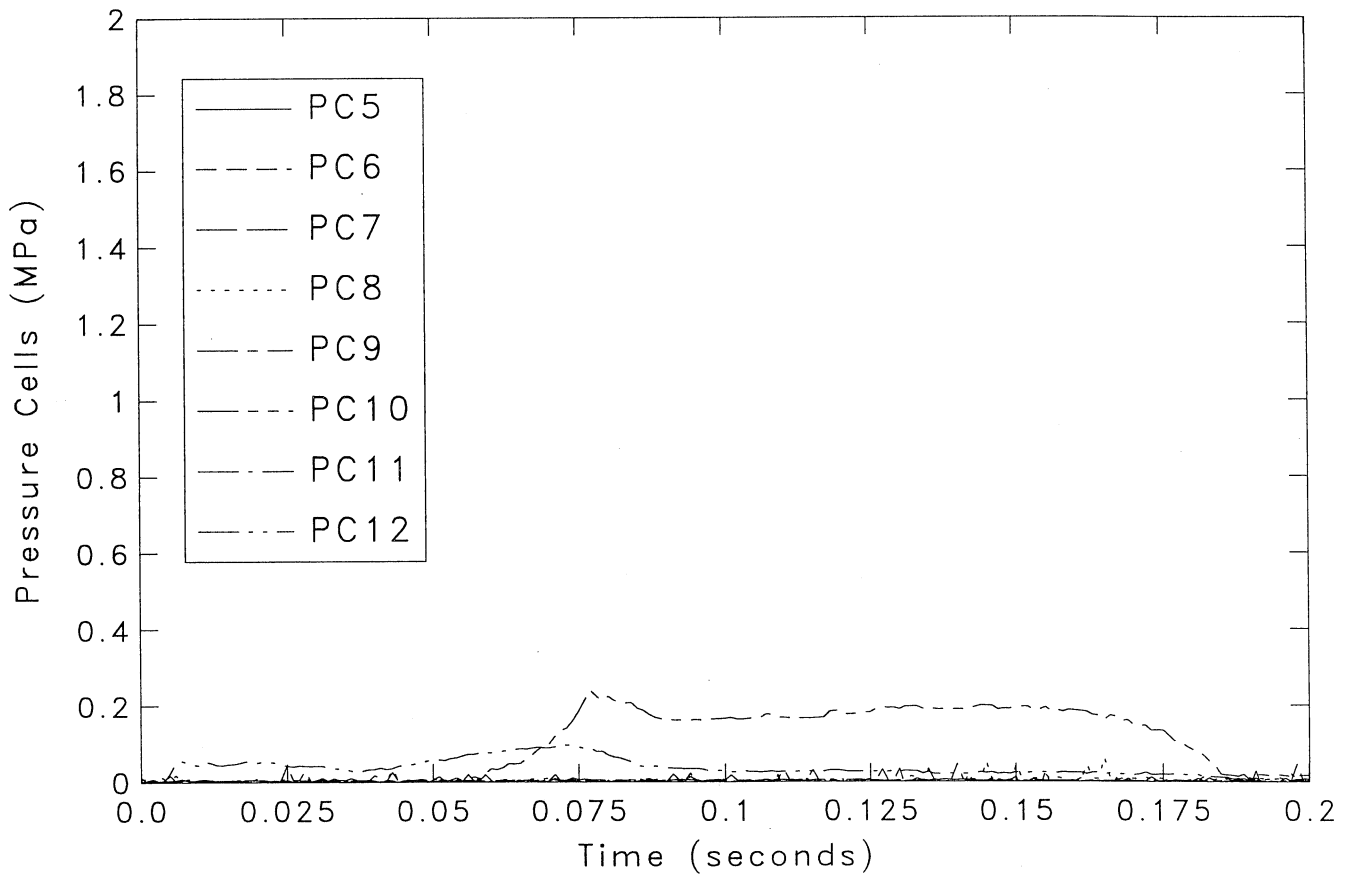
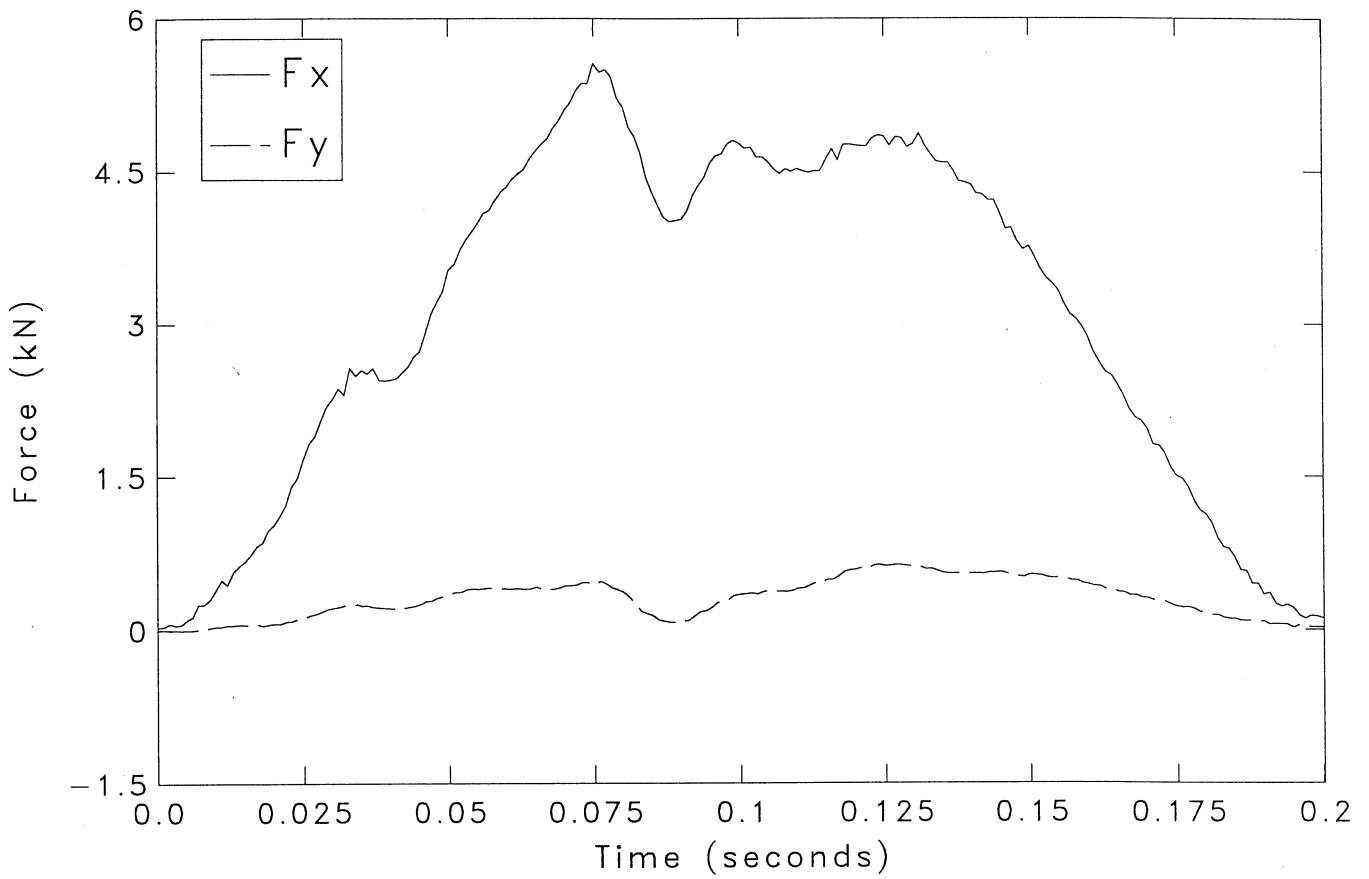


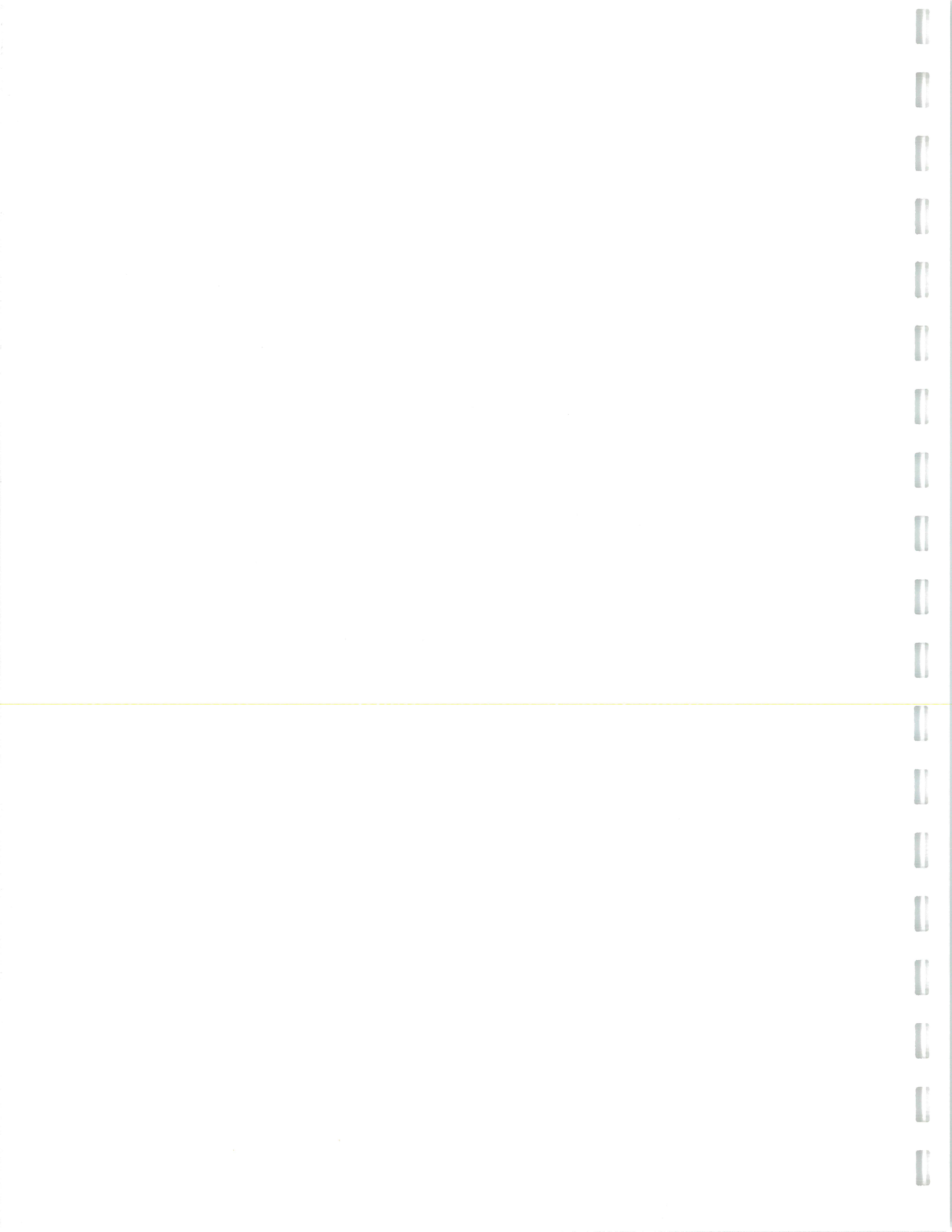
Floe Velocity = 66mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

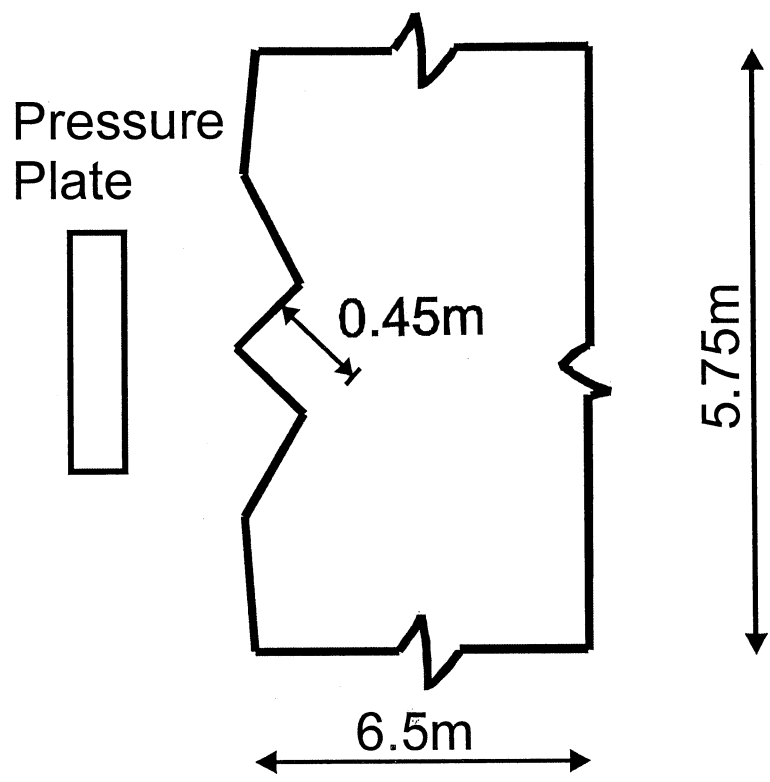
Exaggerated details for clarity

Test 30





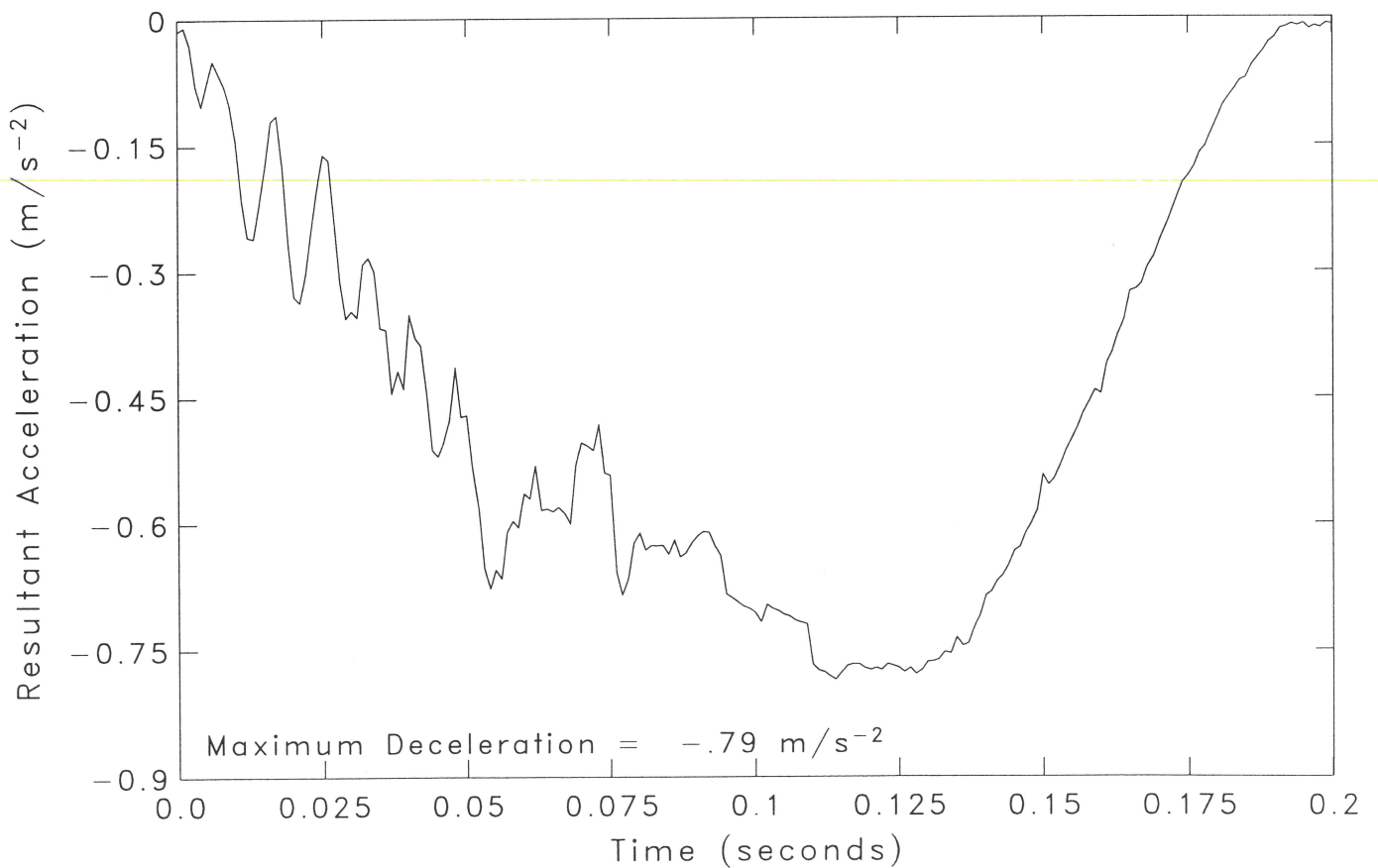
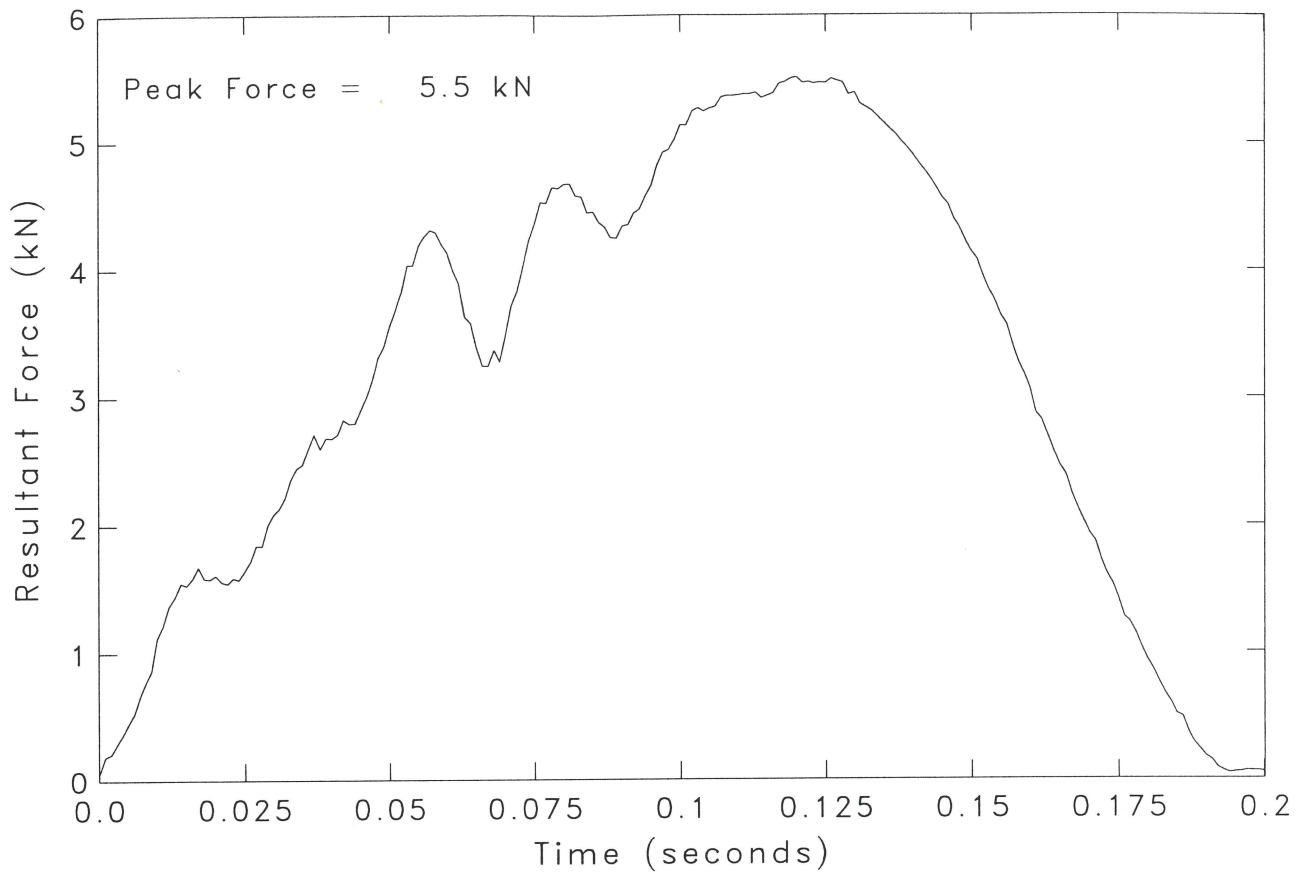


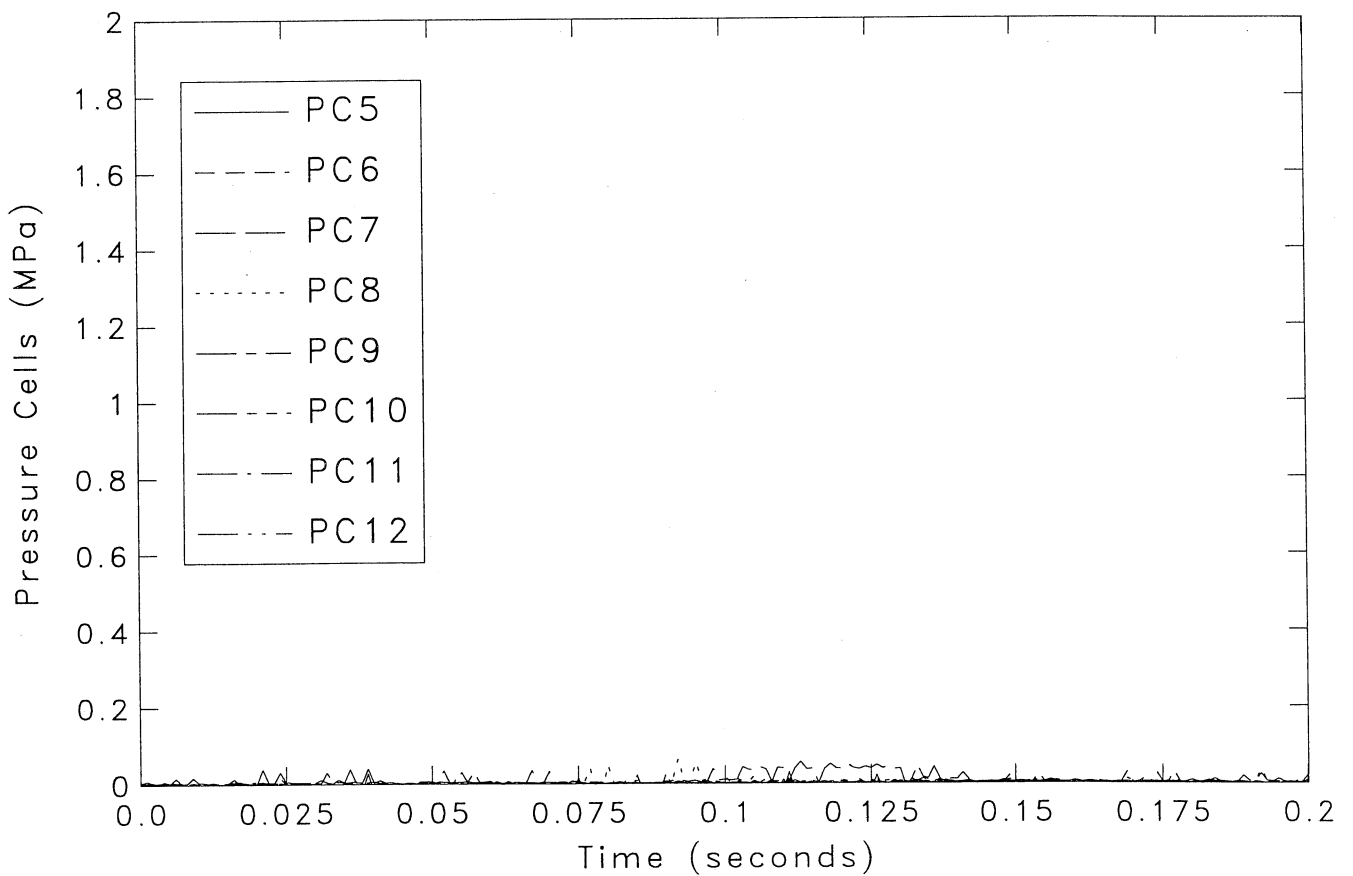
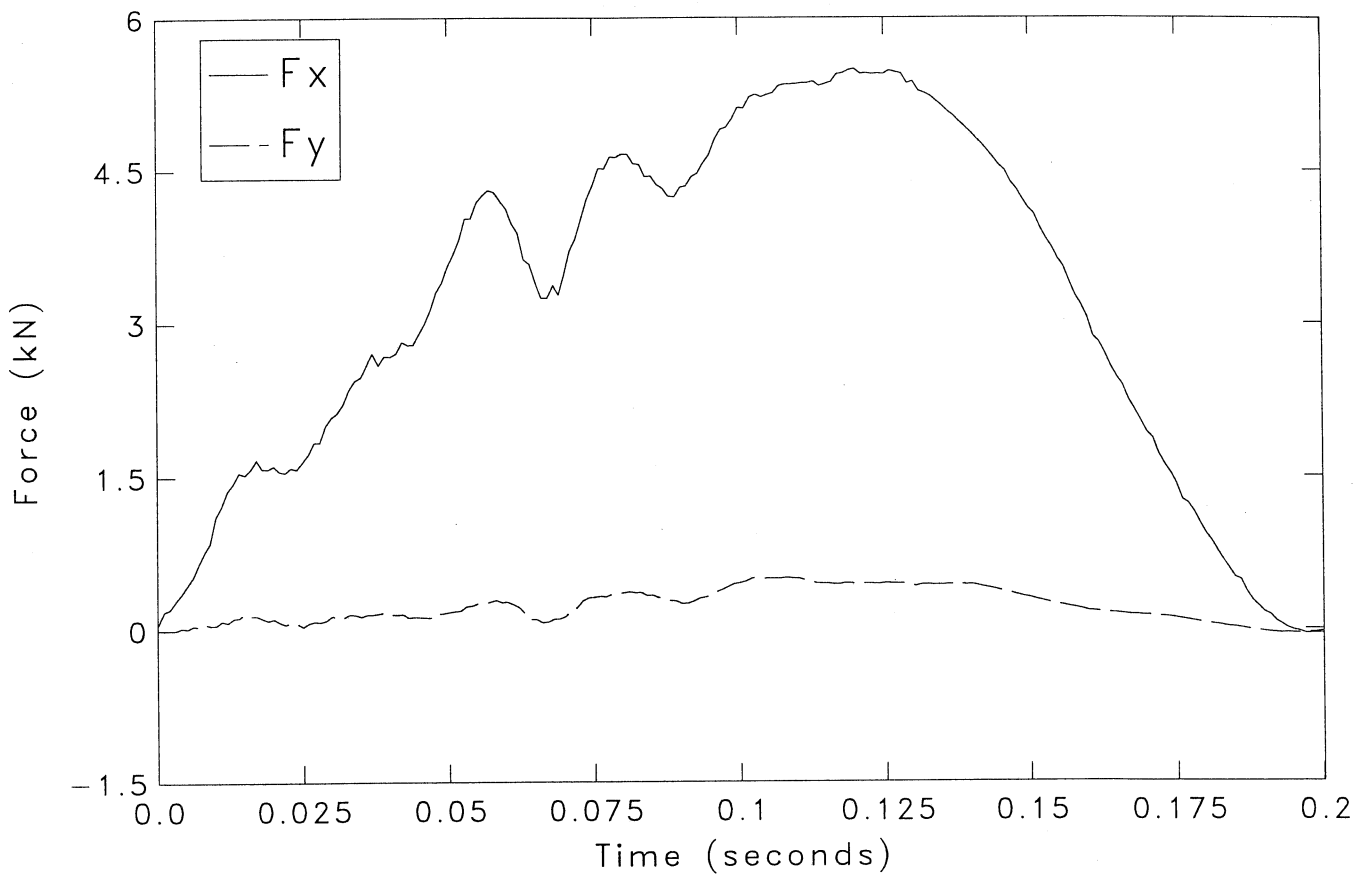


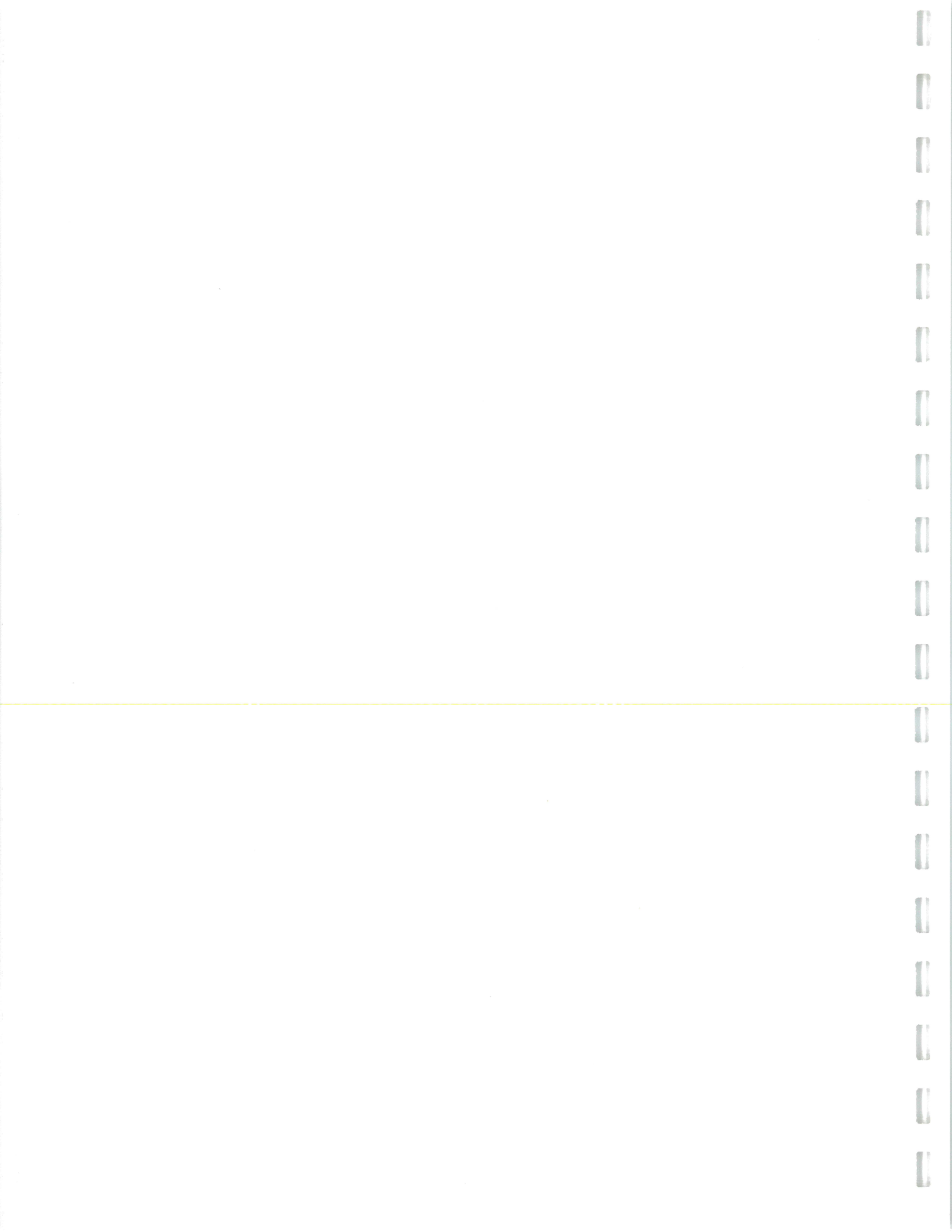
Floe Velocity = 70mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

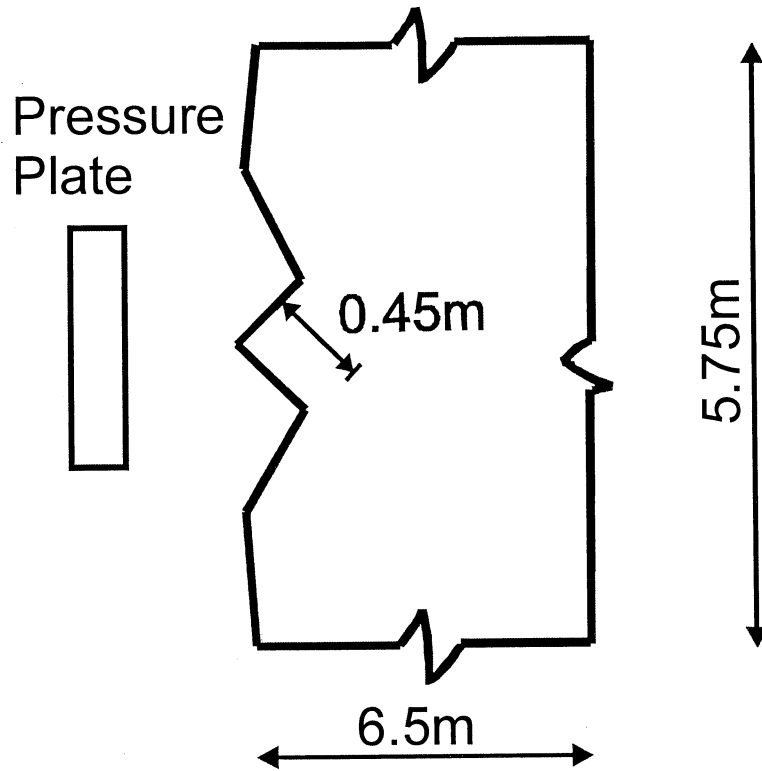
Exaggerated details for clarity

Test 31





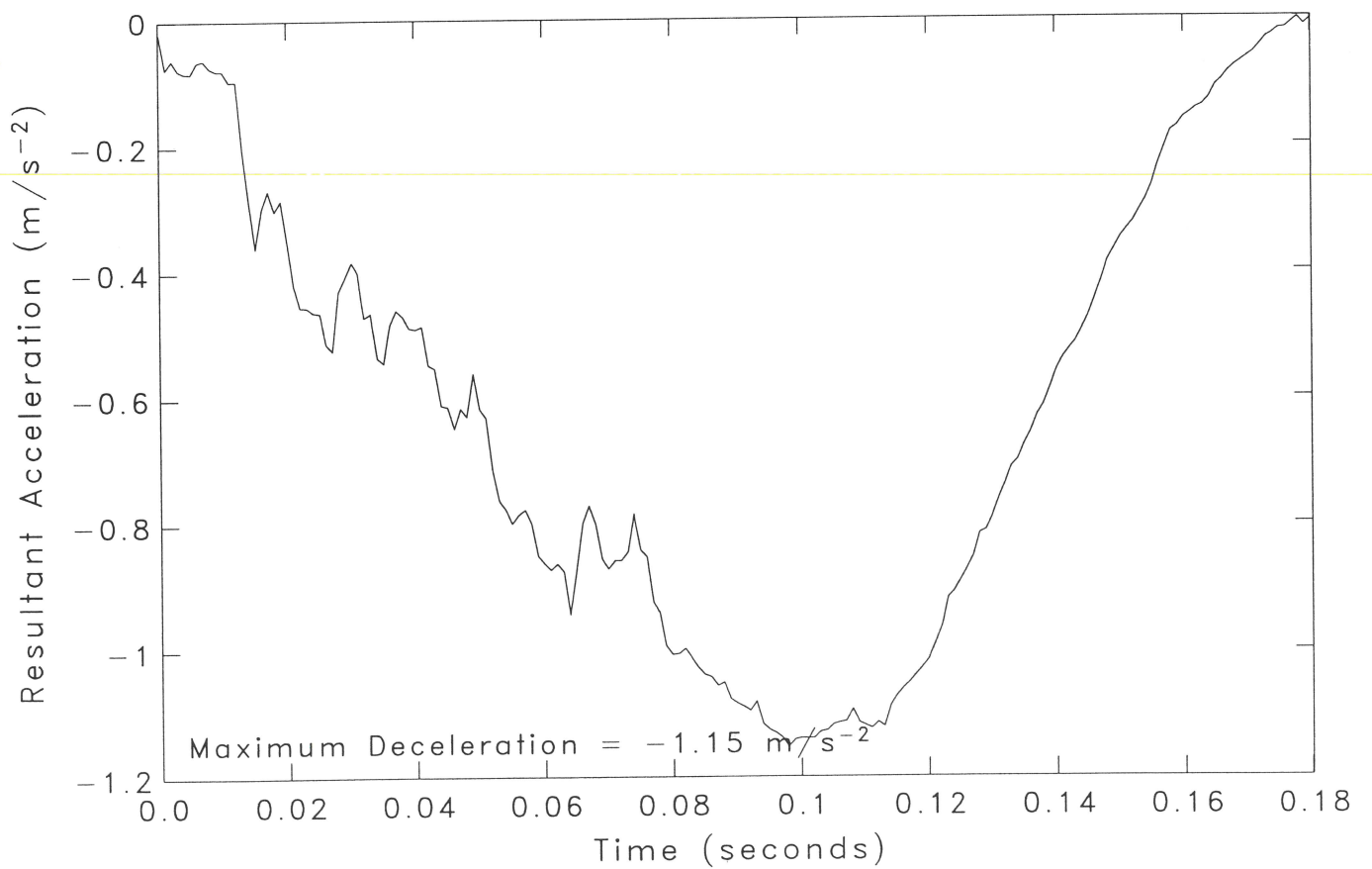
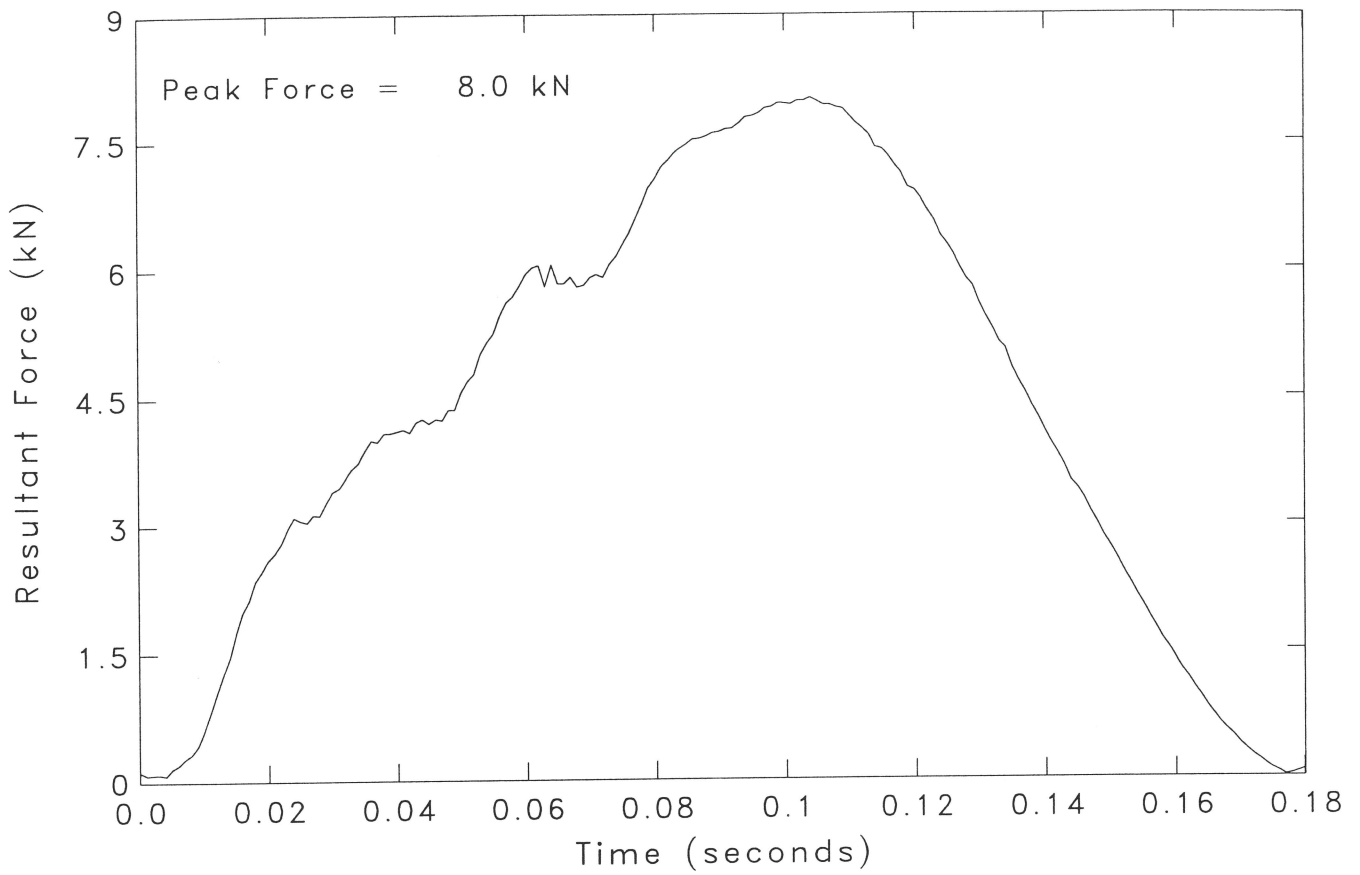


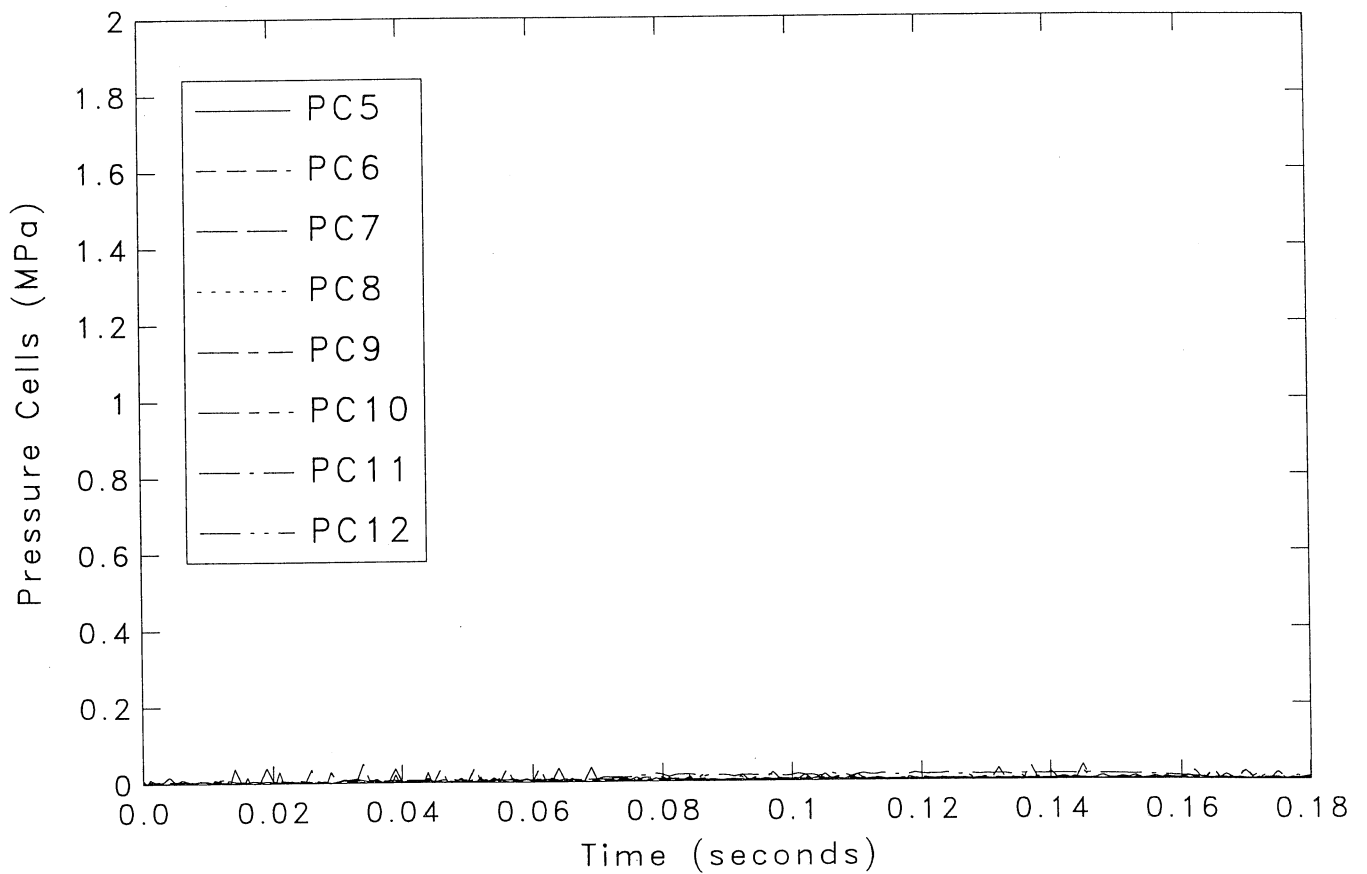
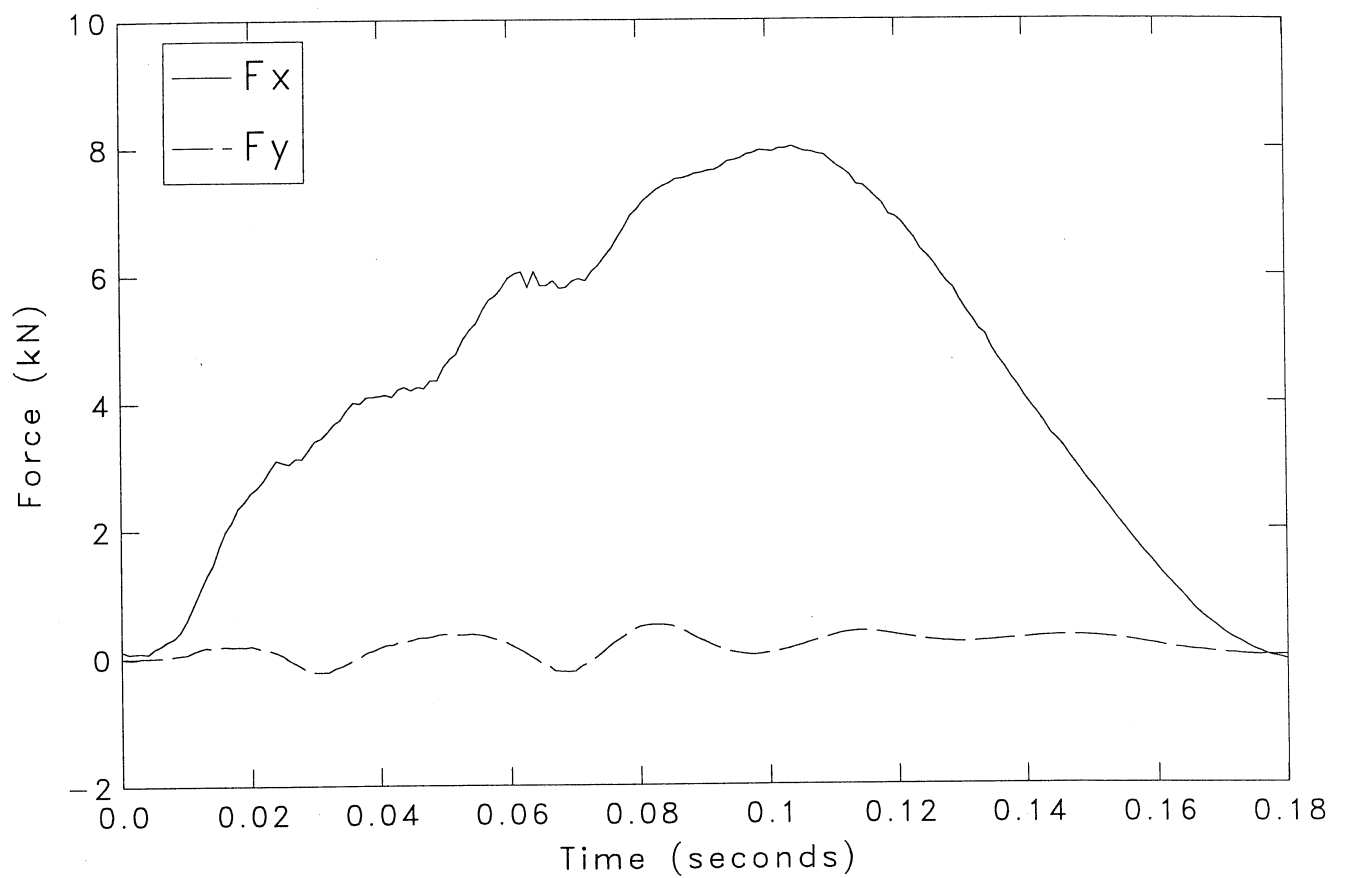


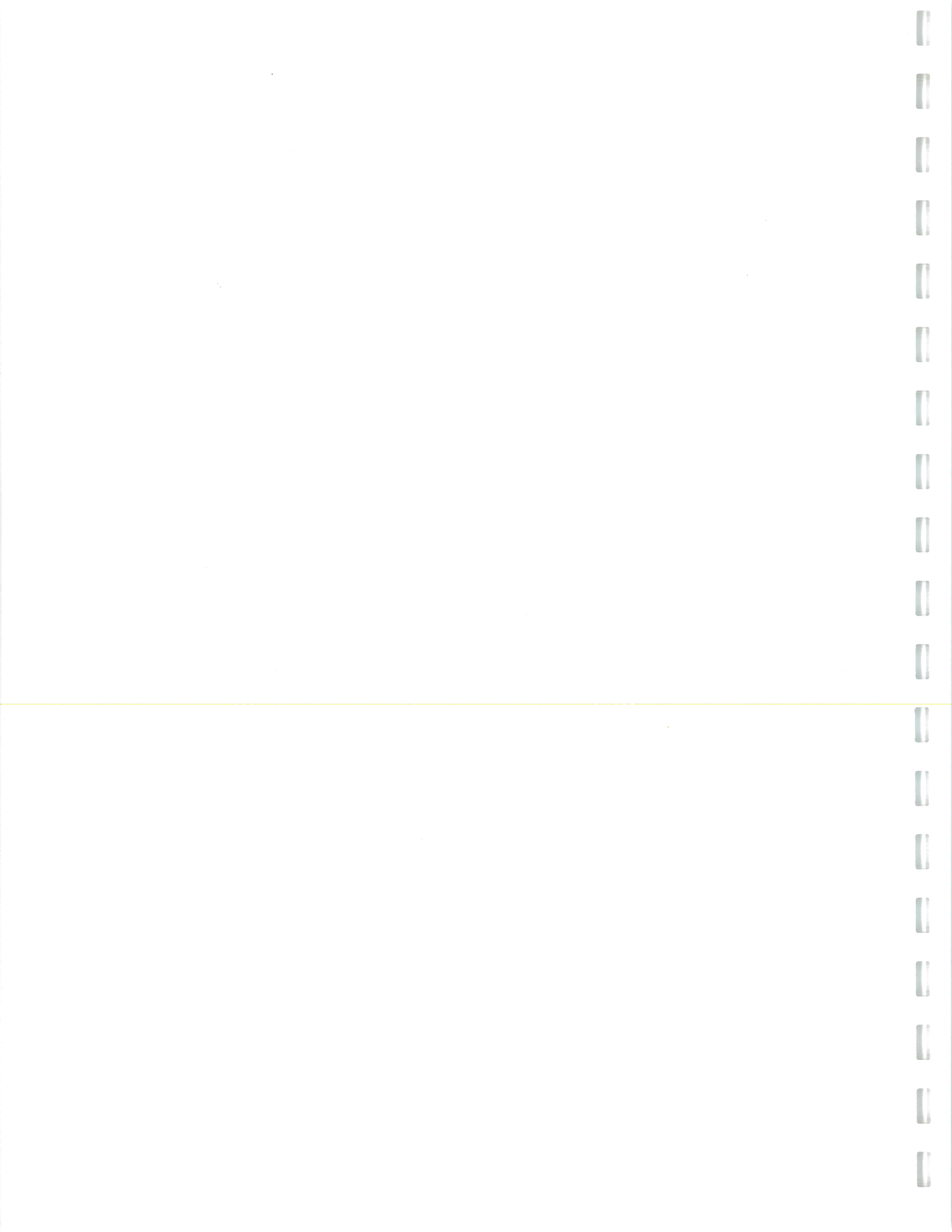
Floe Velocity = 76mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

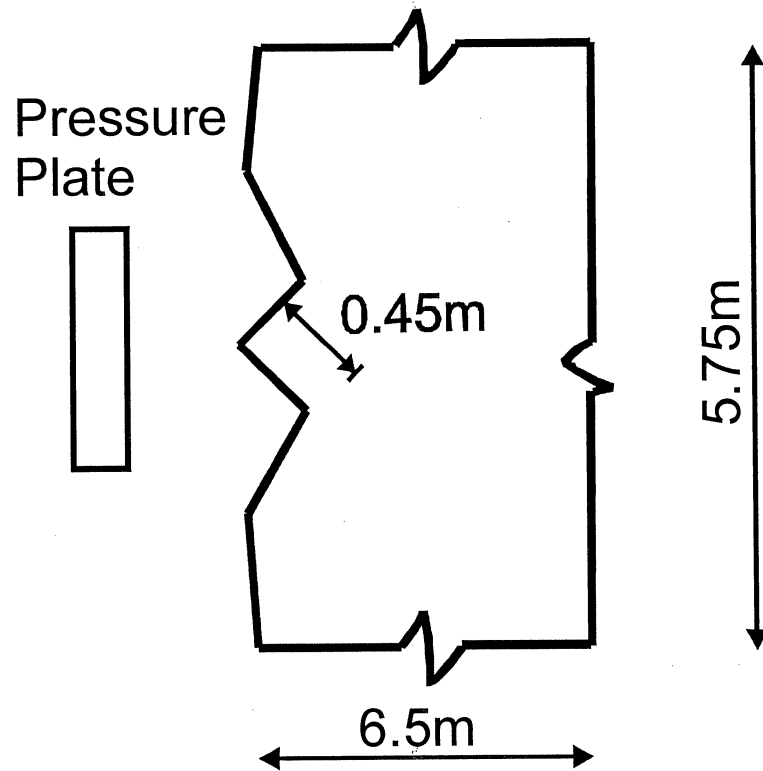
Exaggerated details for clarity

Test 32





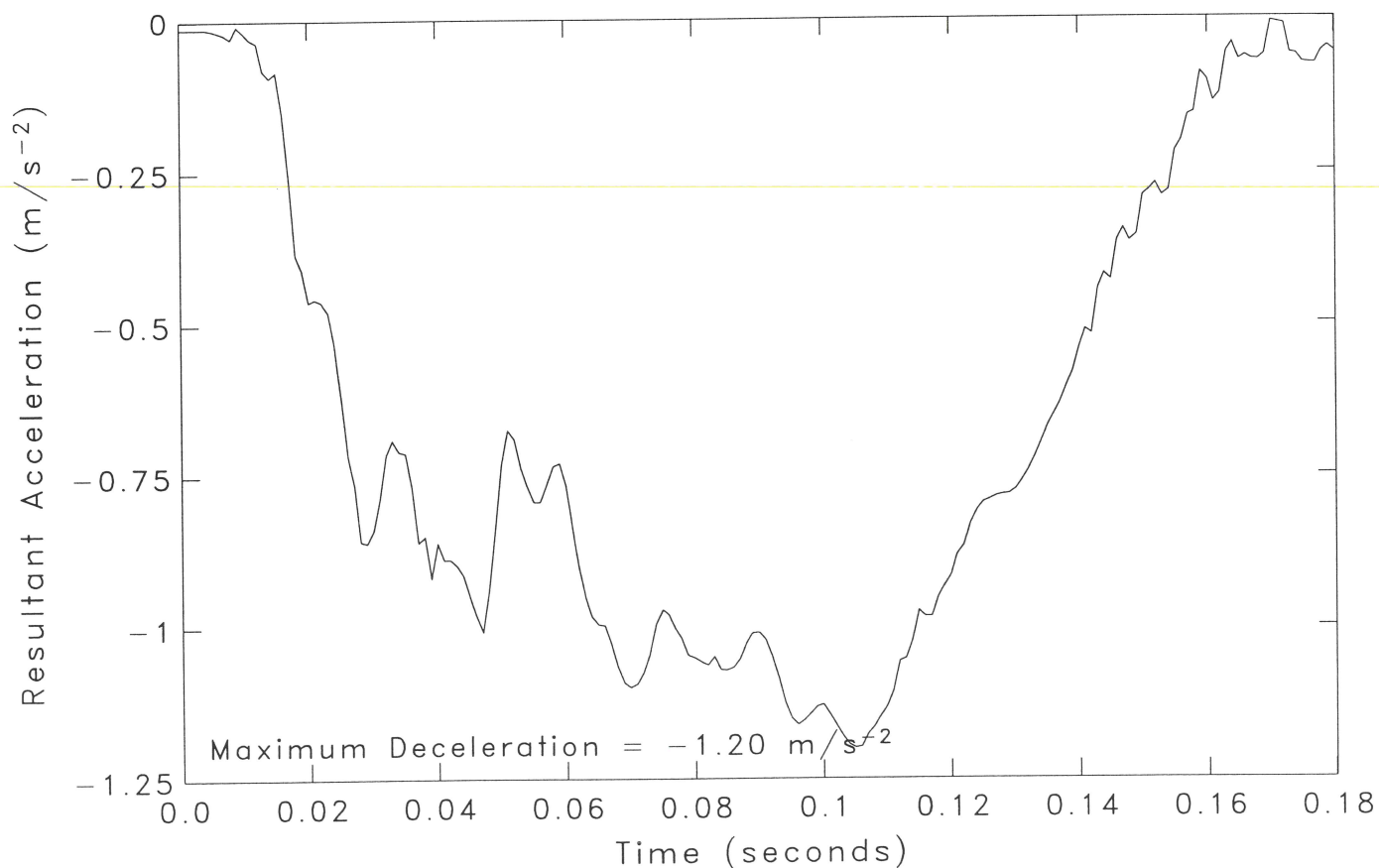
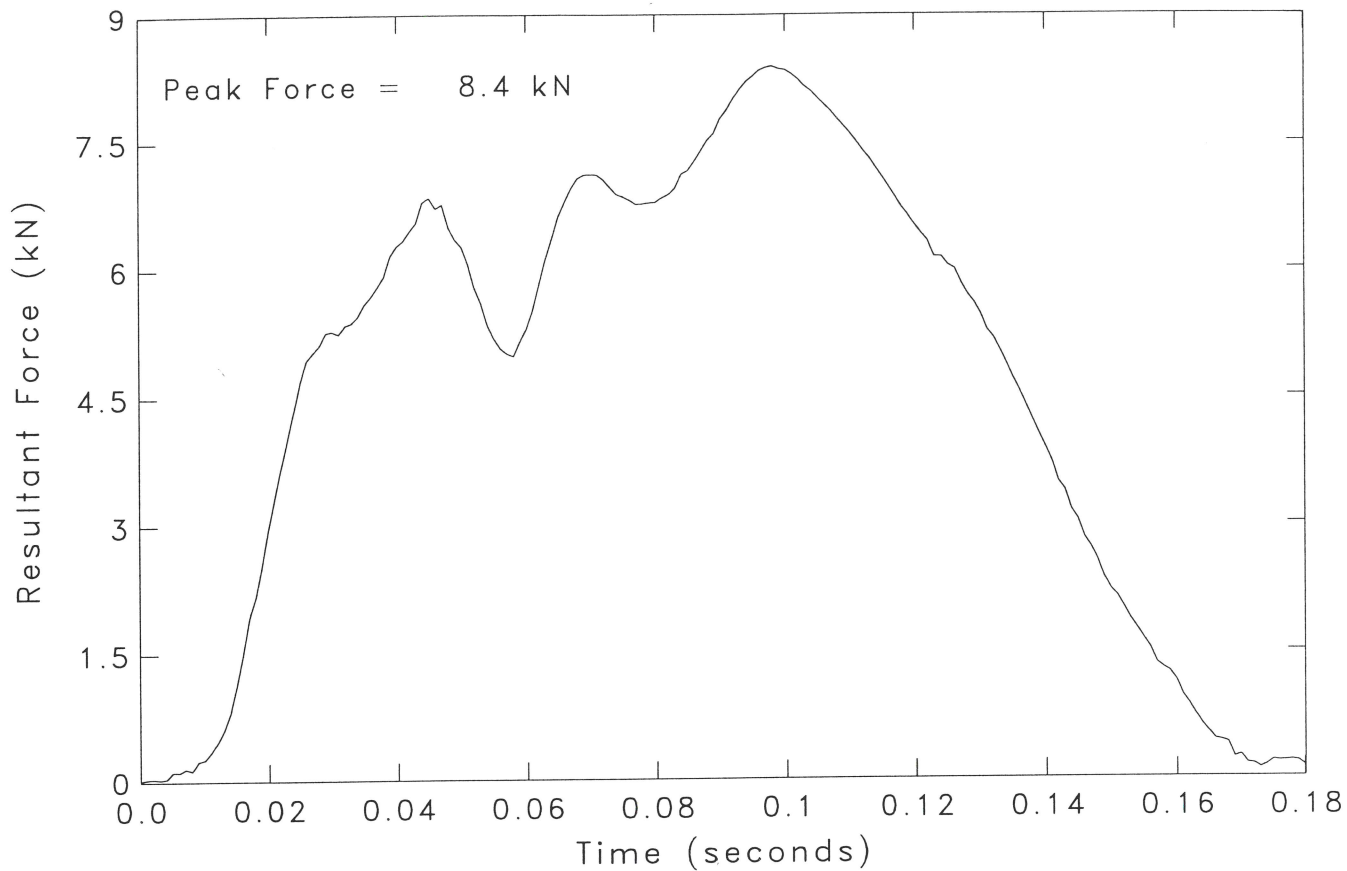


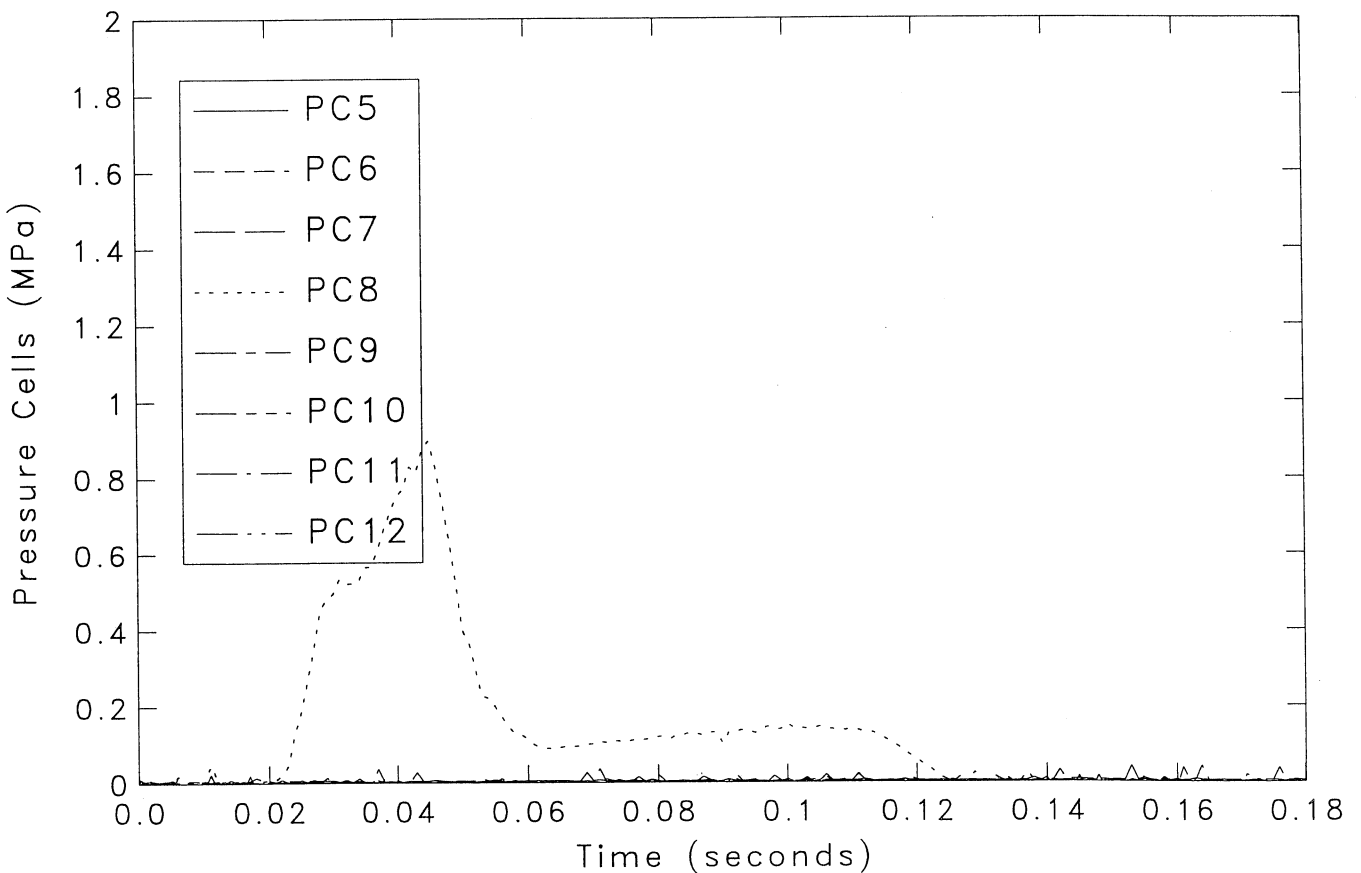
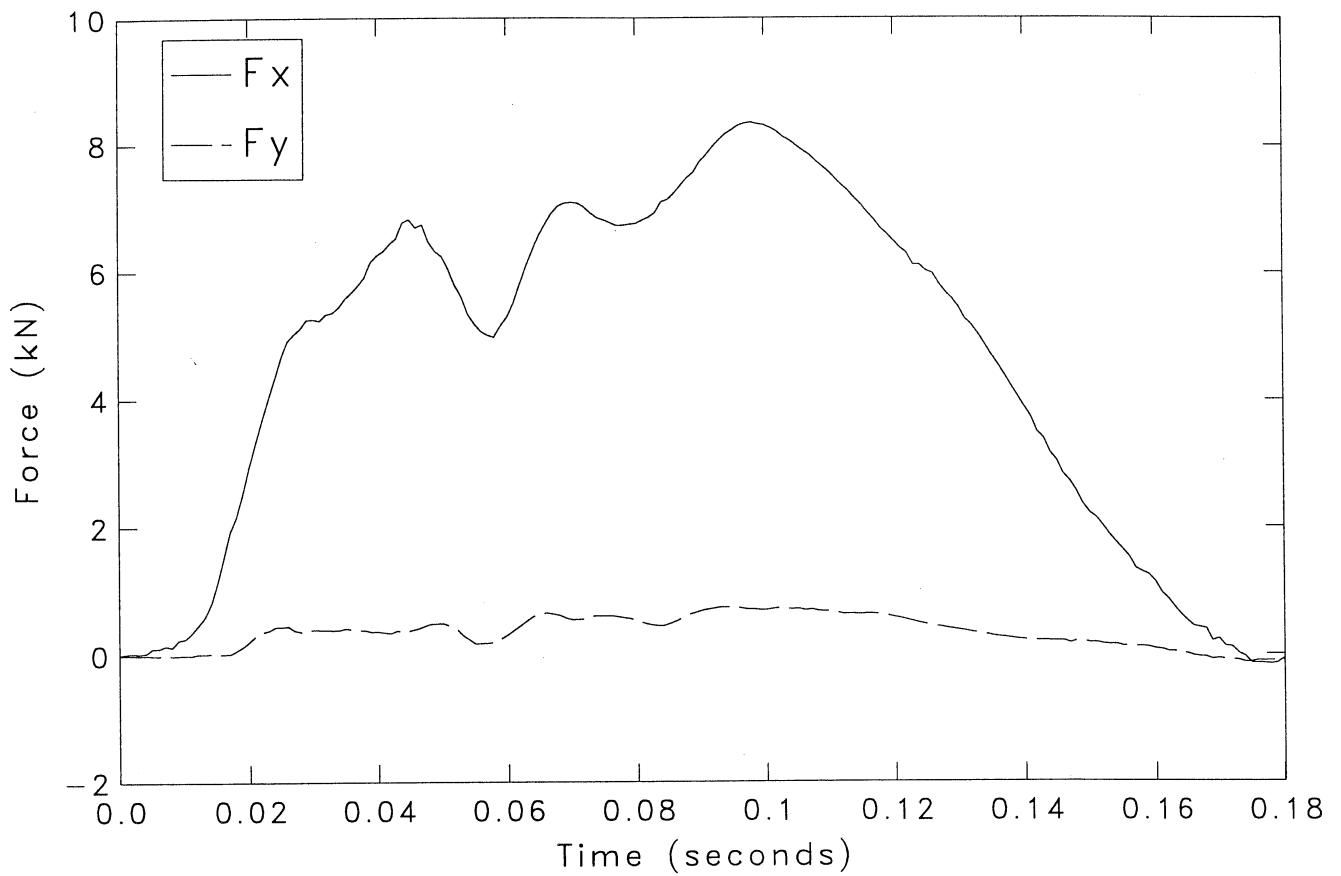


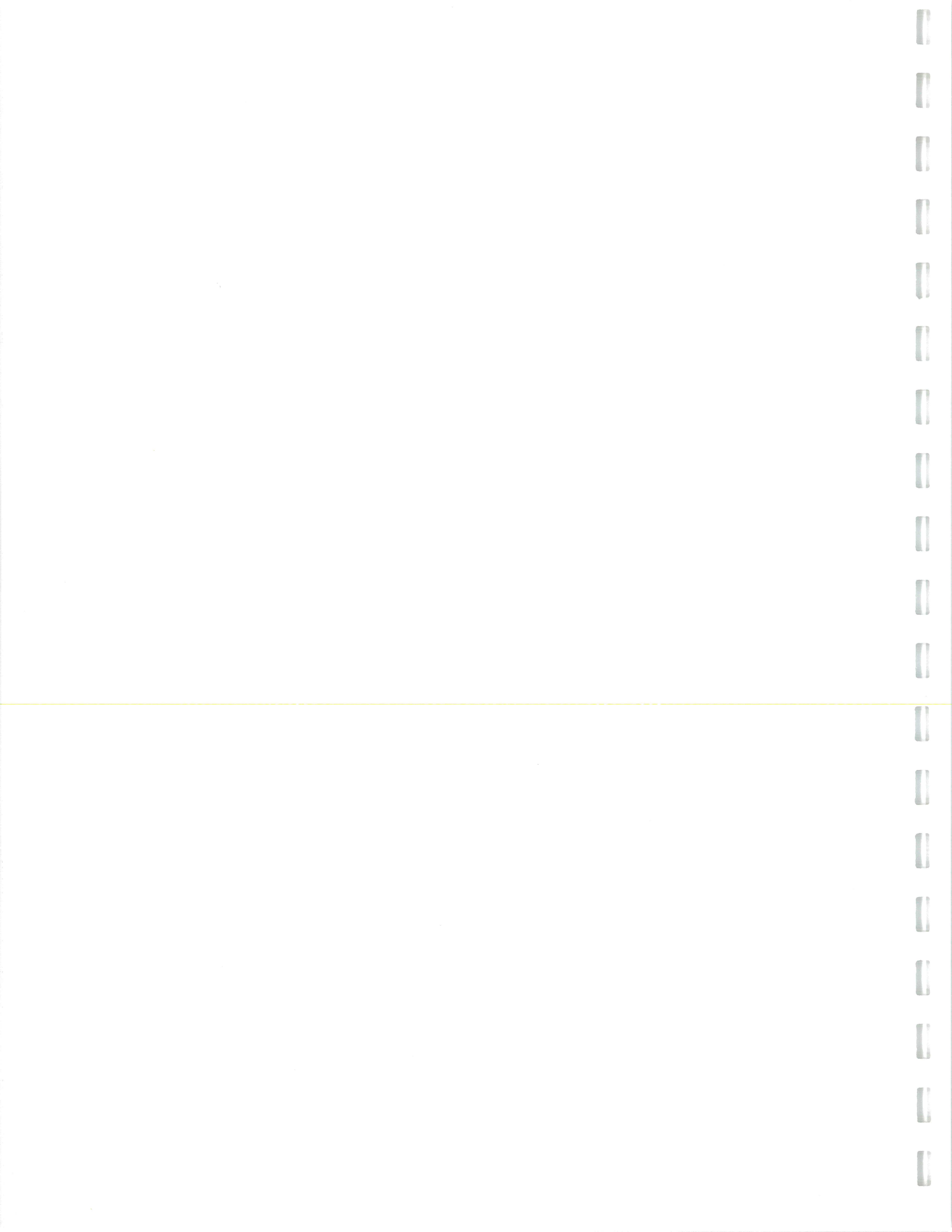
Floe Velocity = 85mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

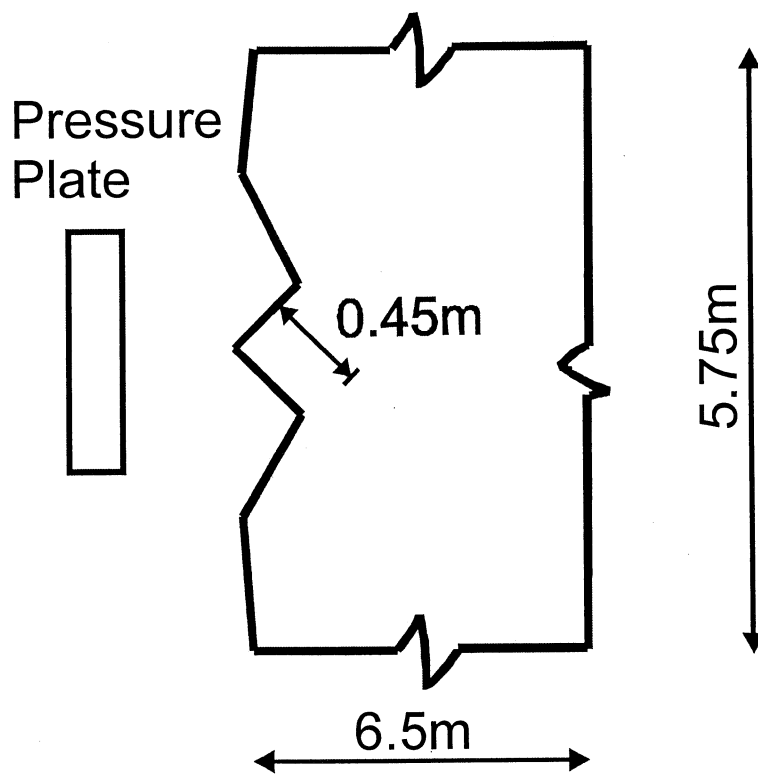
Exaggerated details for clarity

Test 33





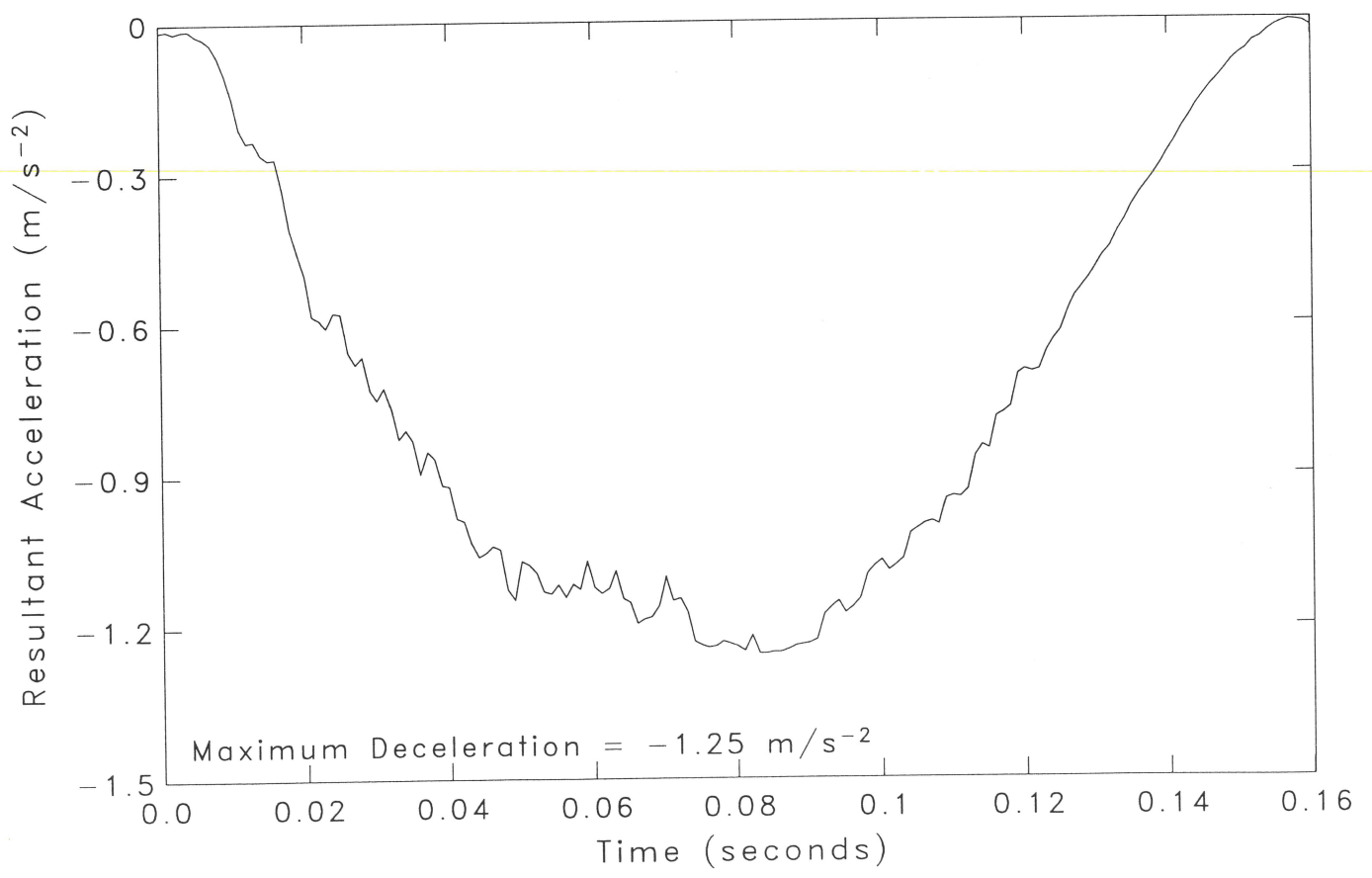
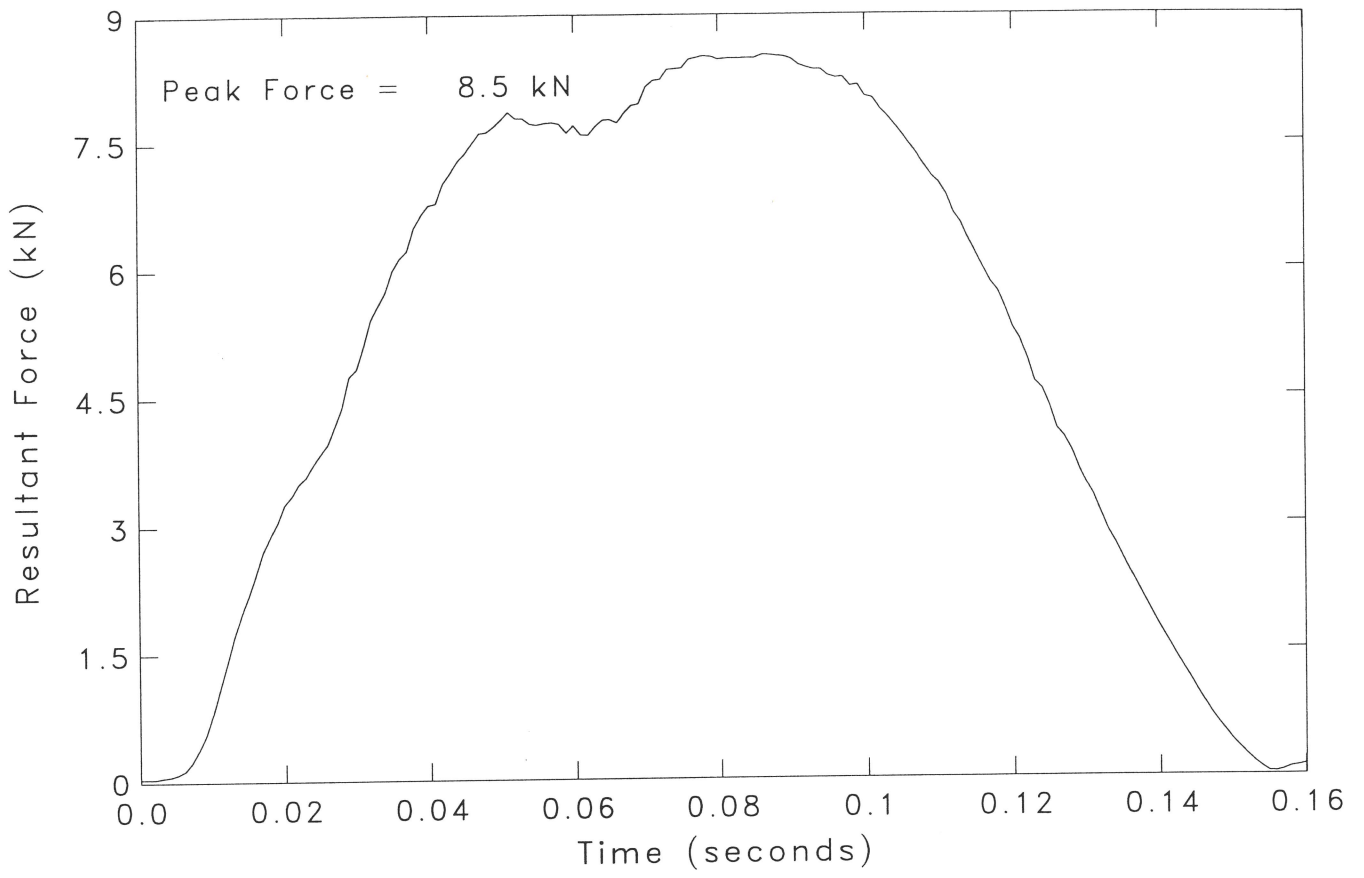


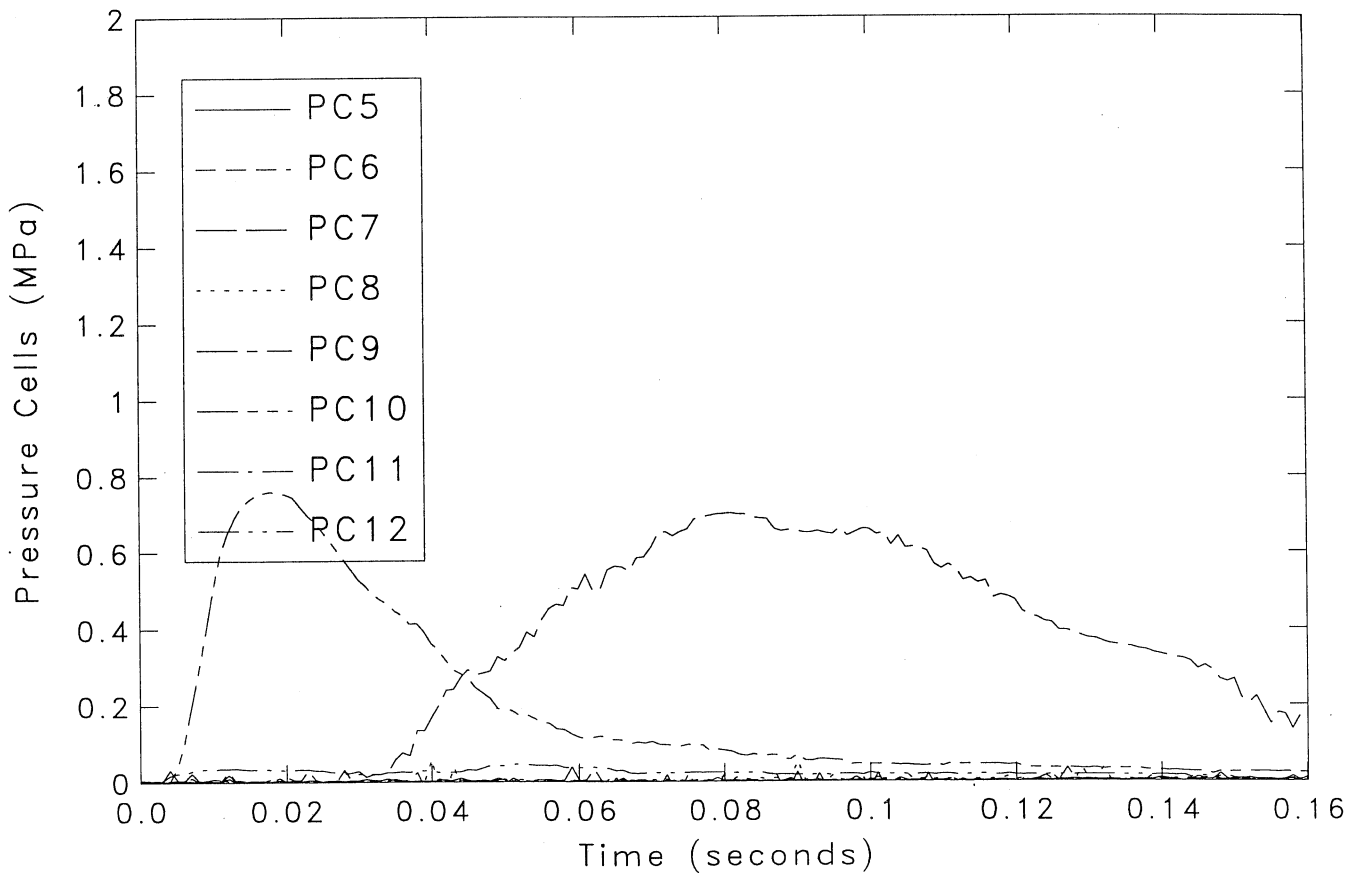
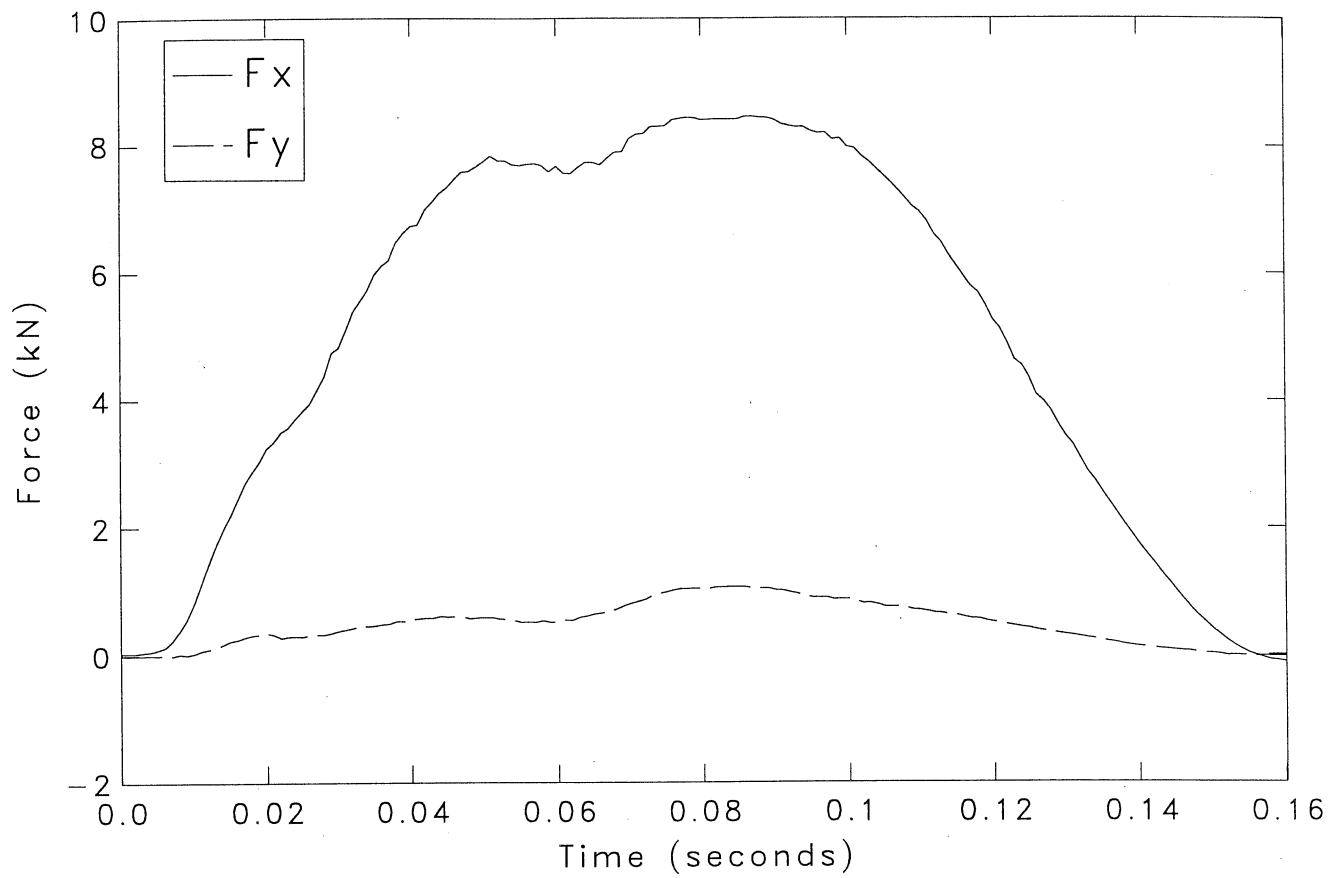


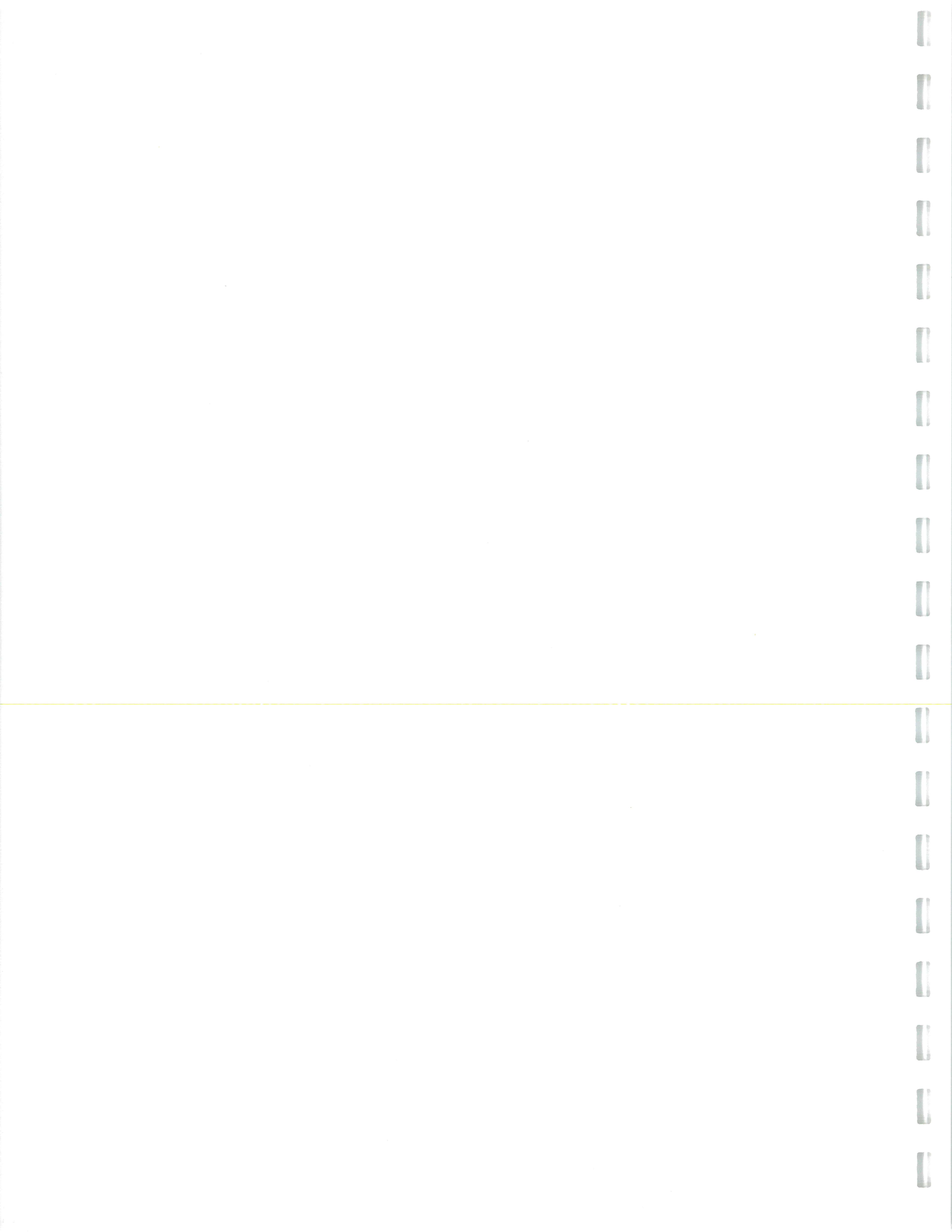
Floe Velocity = 79mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

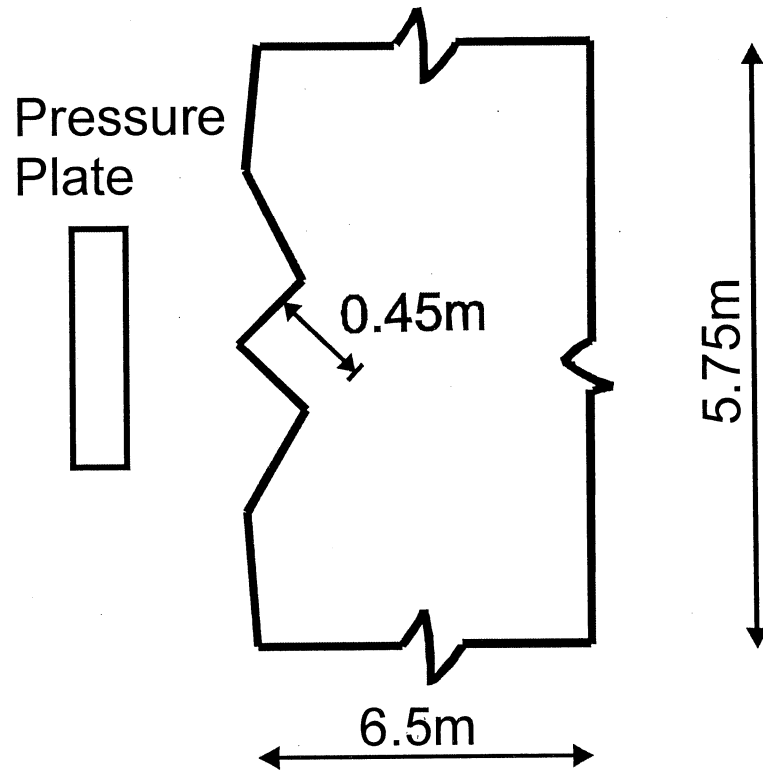
Exaggerated details for clarity

Test 34





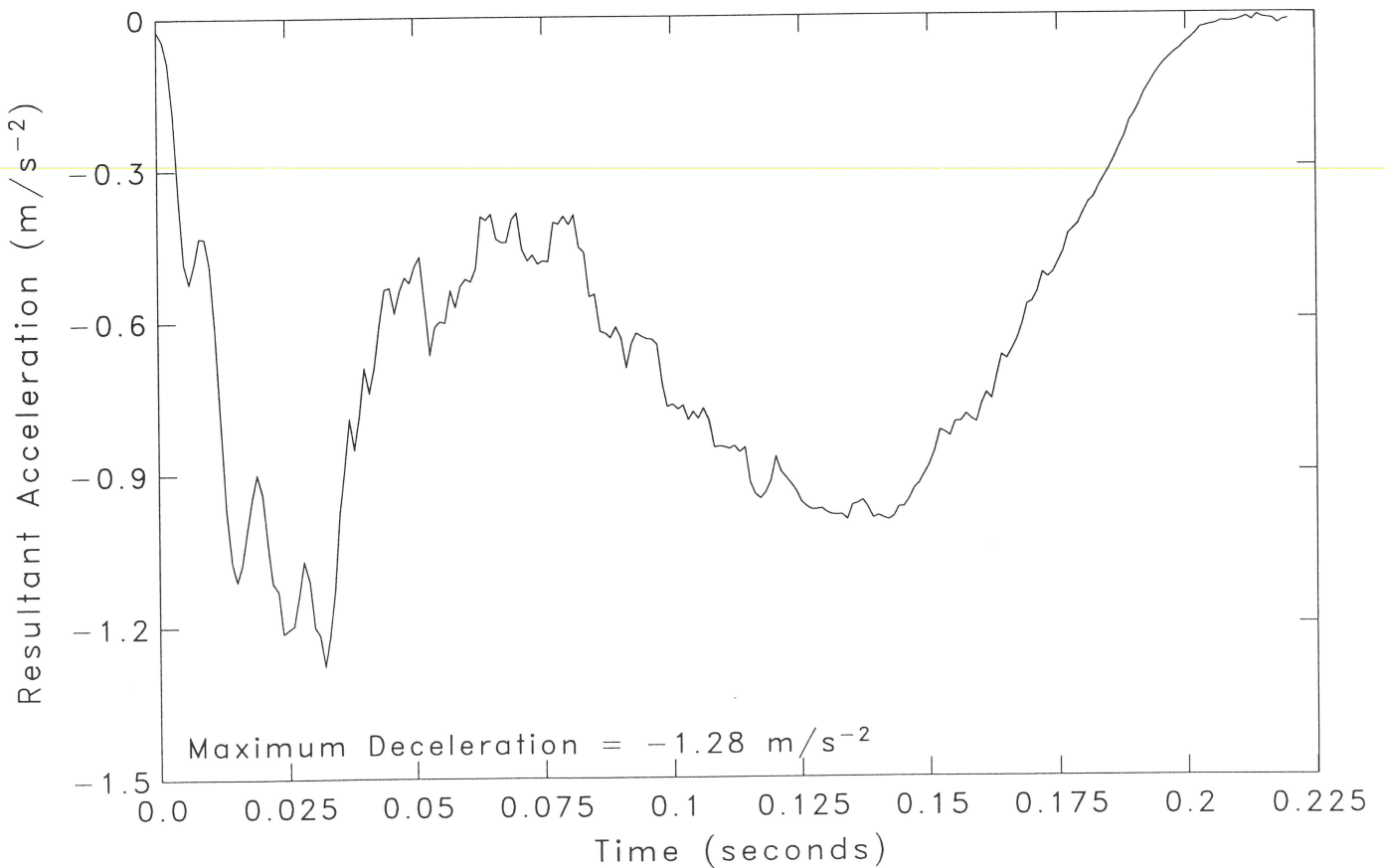
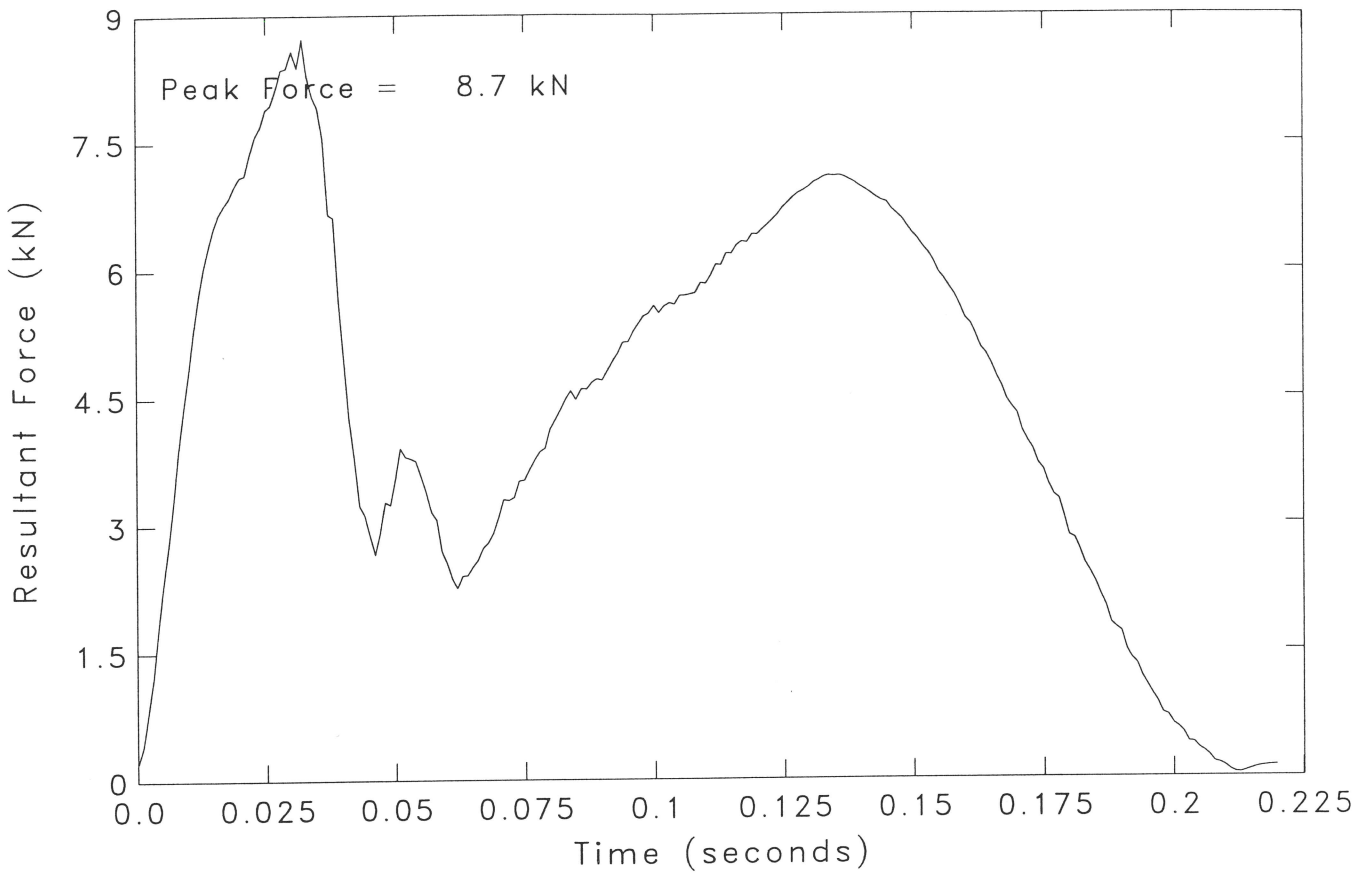


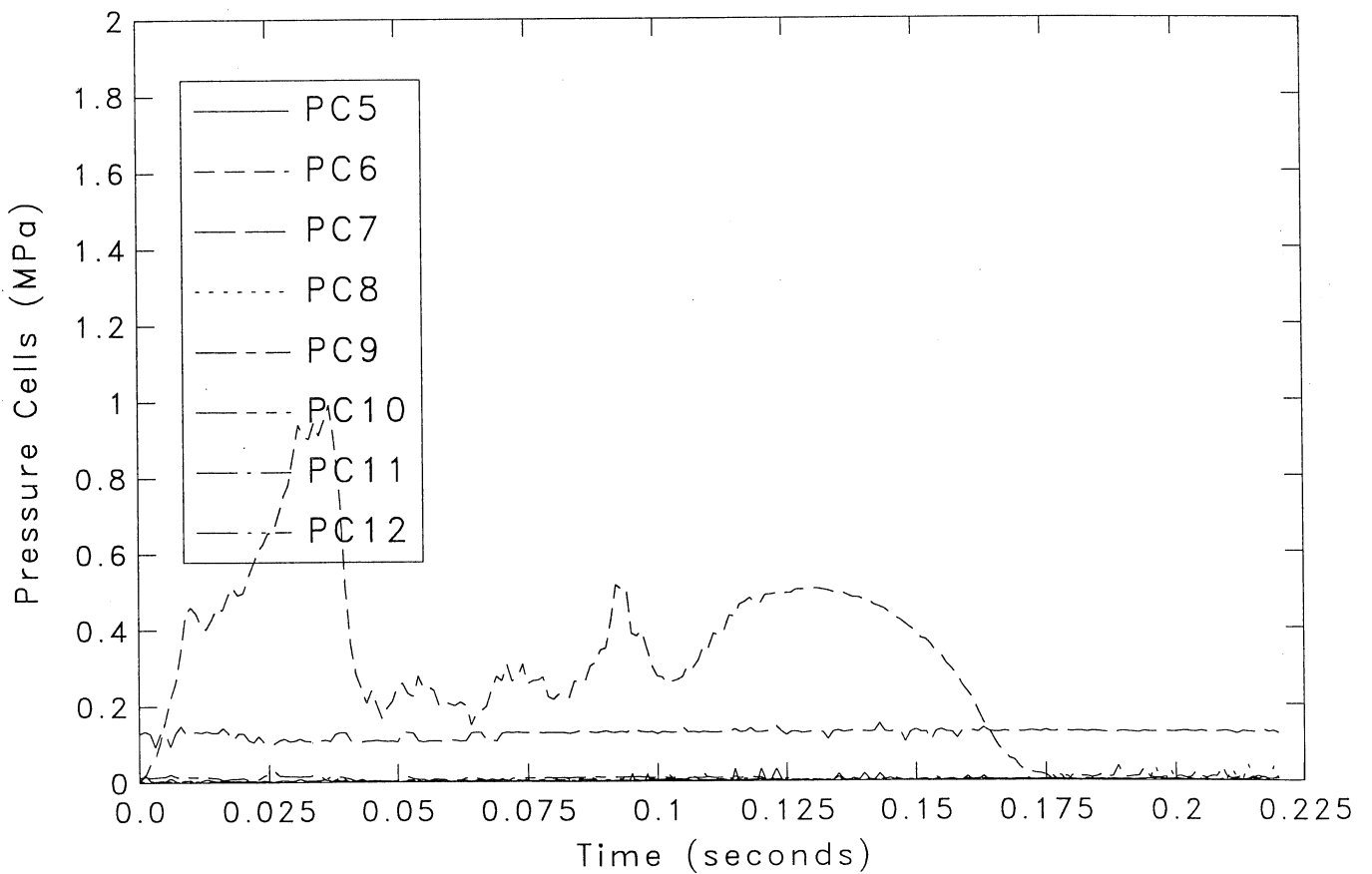
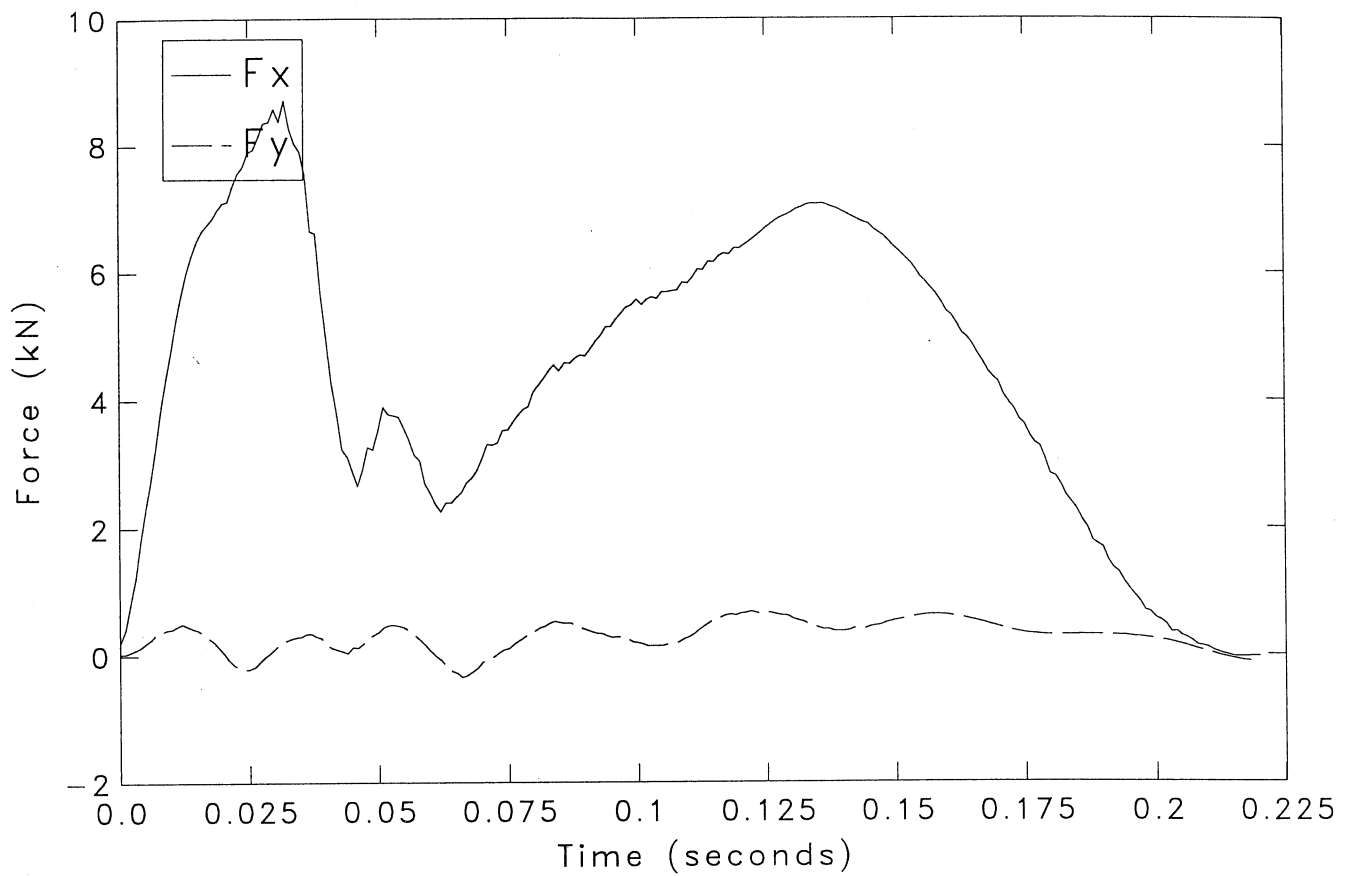


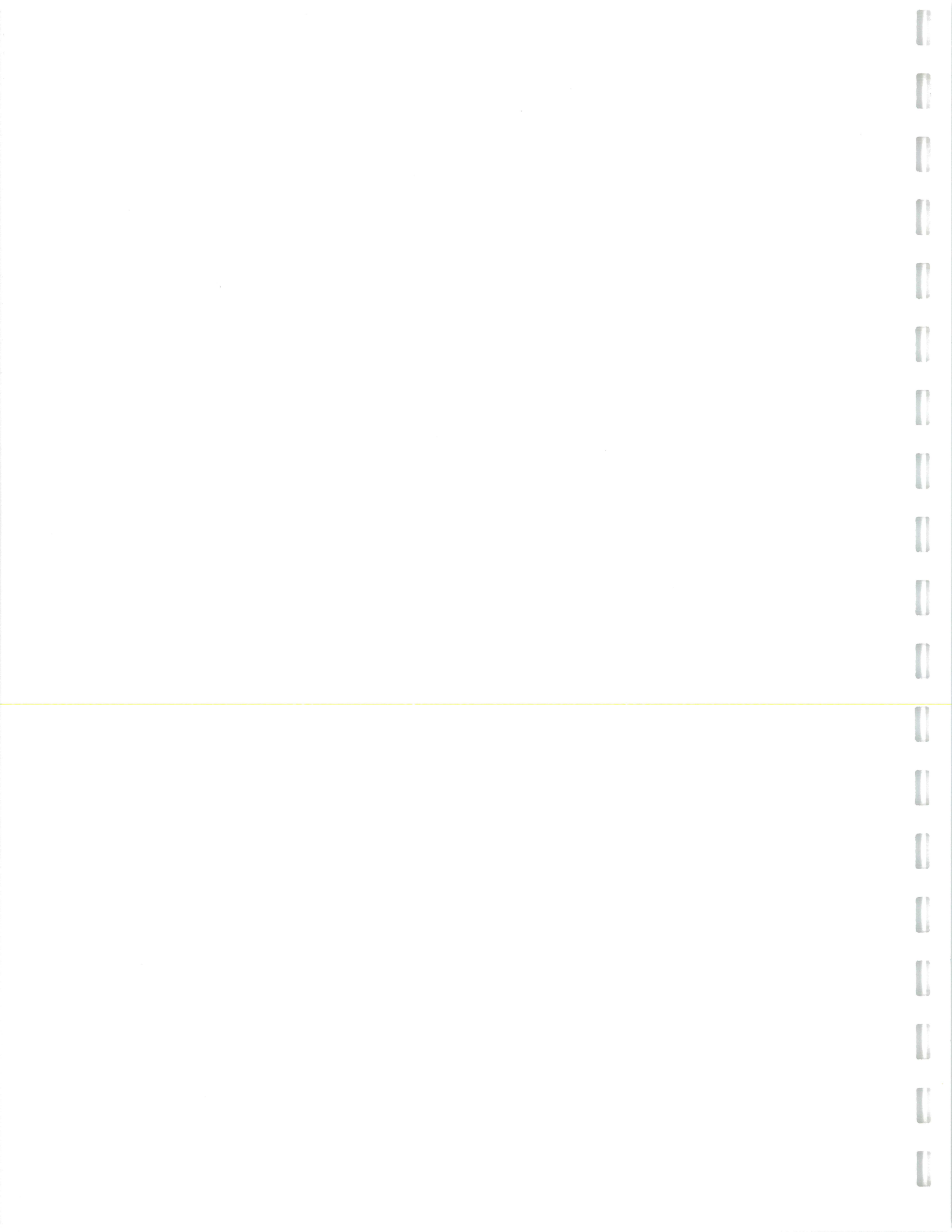
Floe Velocity = 93mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

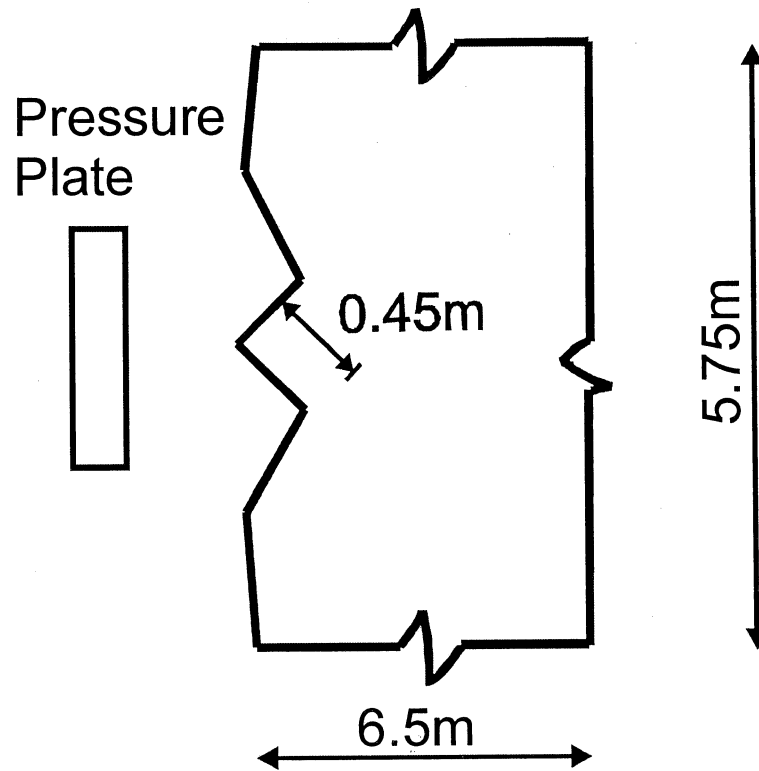
Exaggerated details for clarity

Test 35





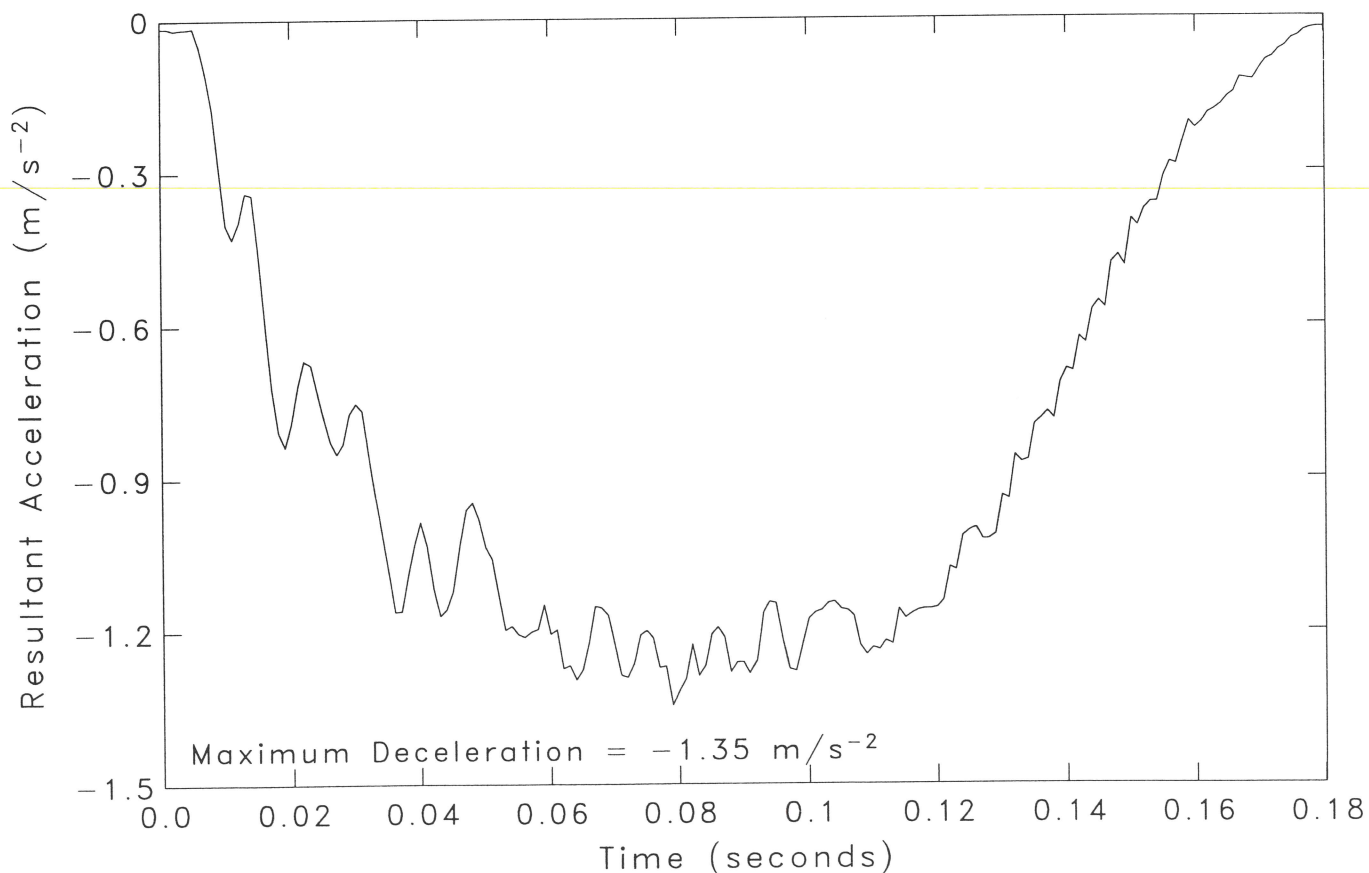
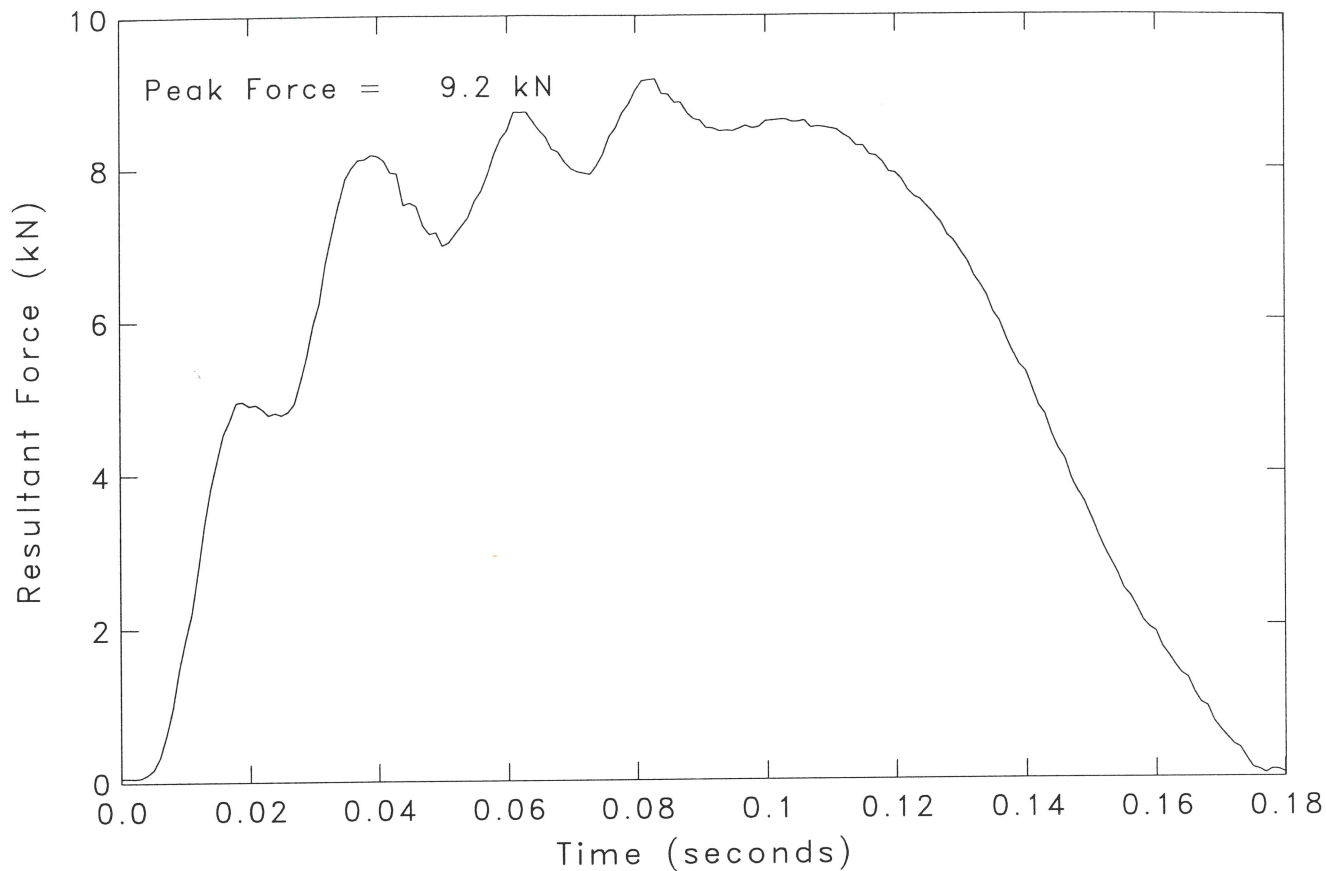


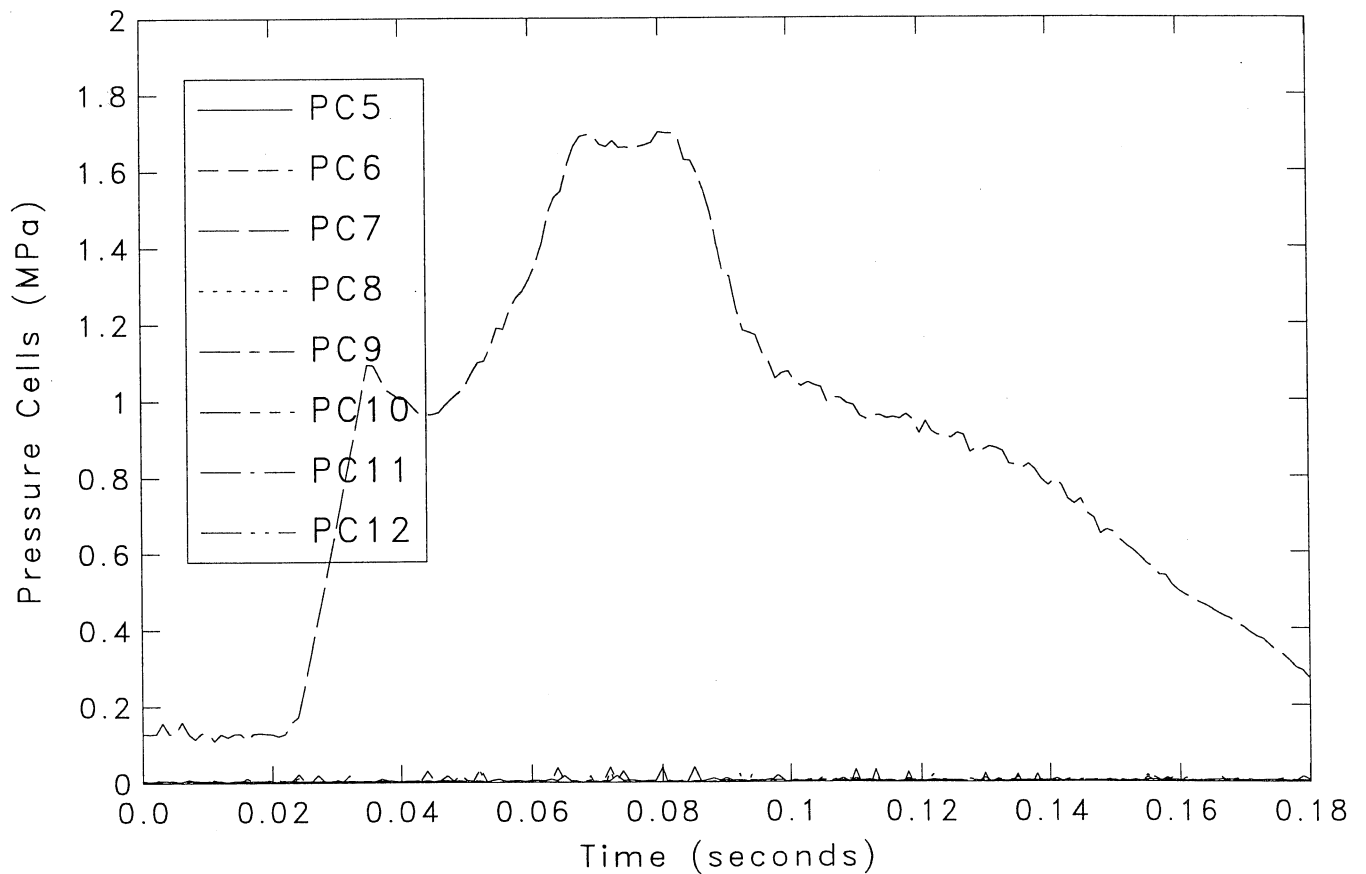
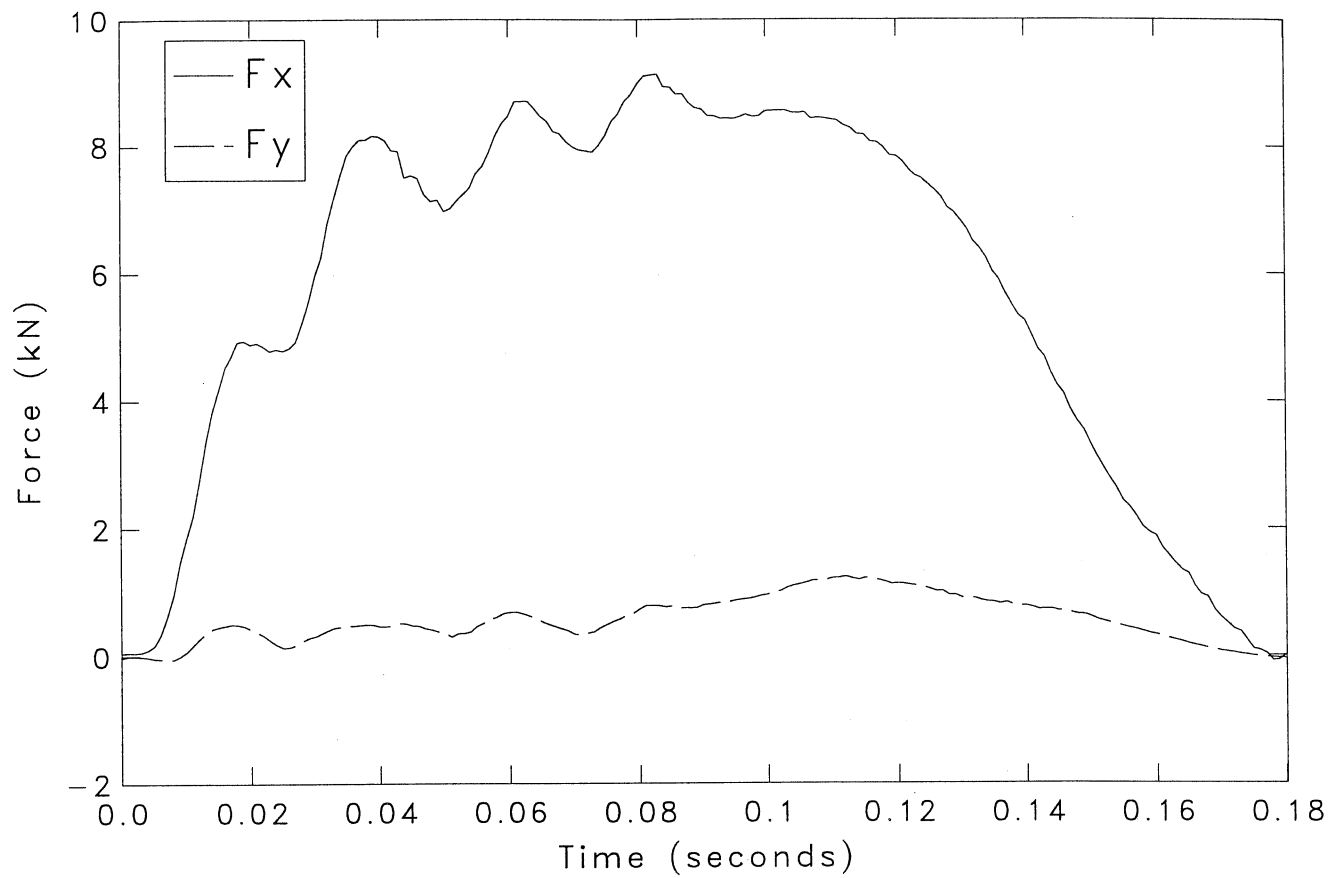


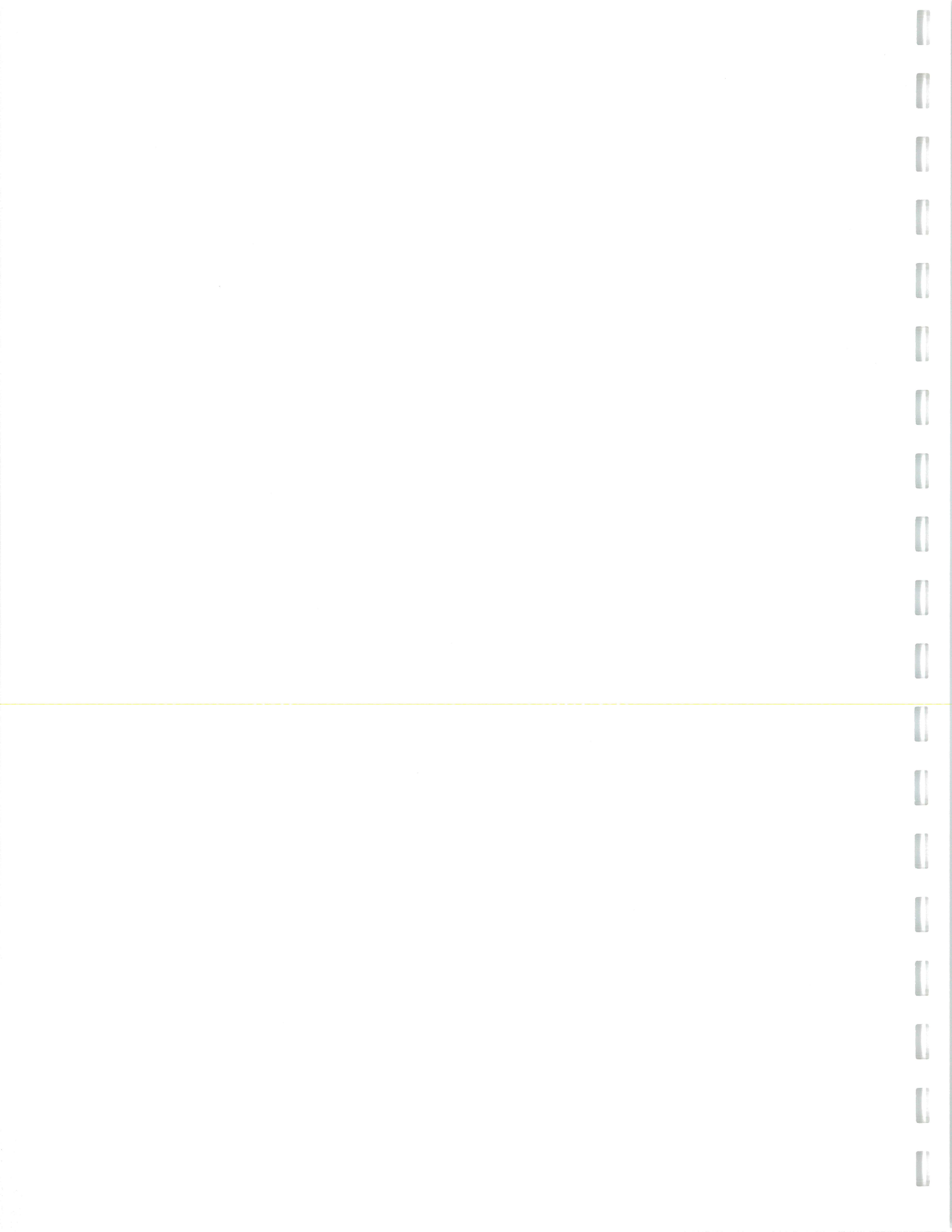
Floe Velocity = 101mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

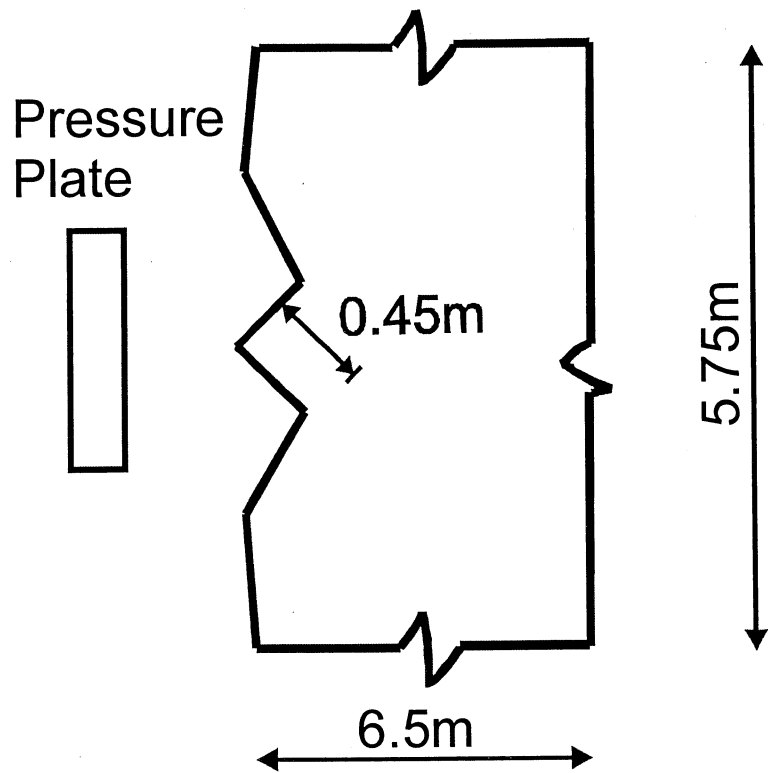
Exaggerated details for clarity

Test 36





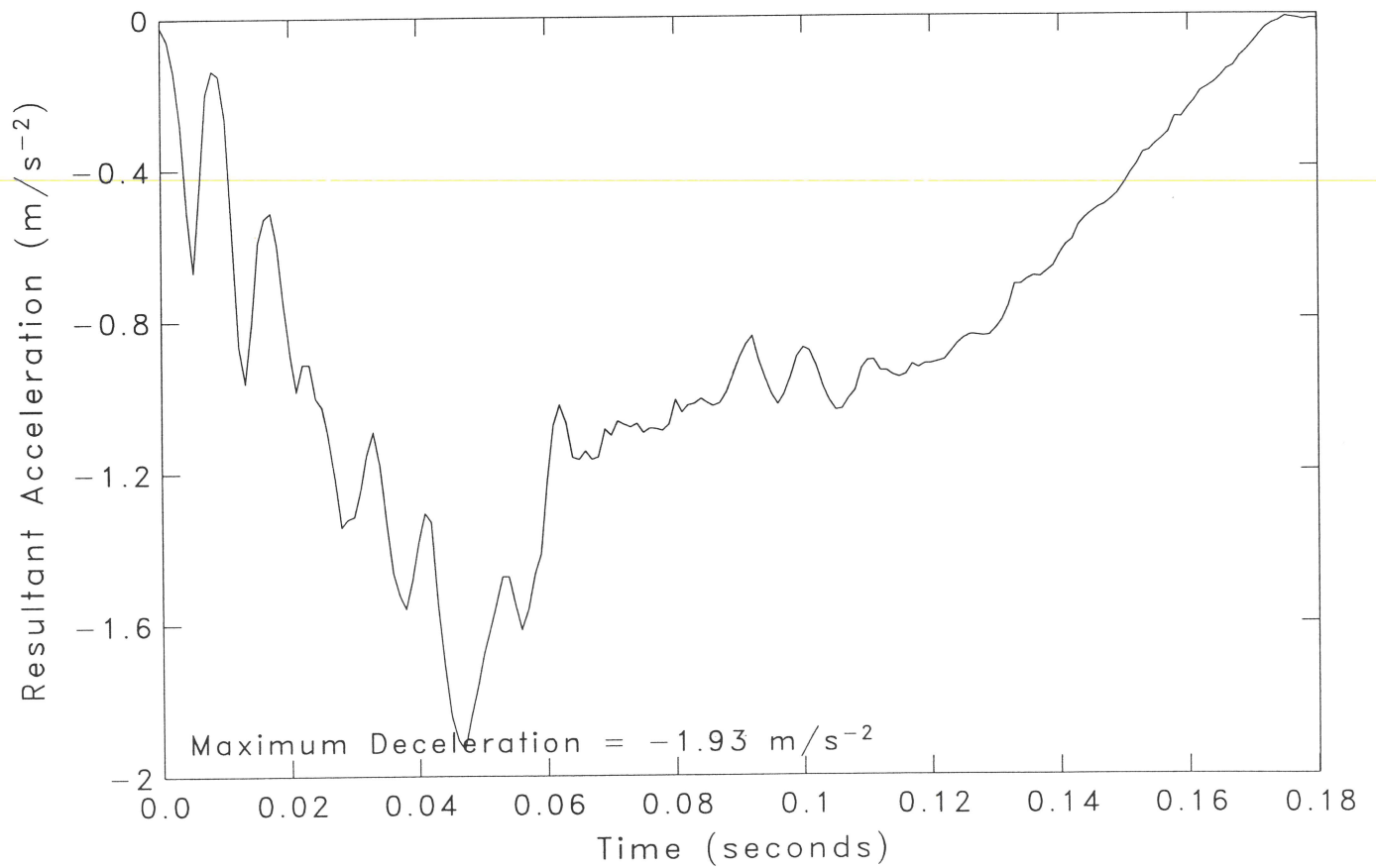
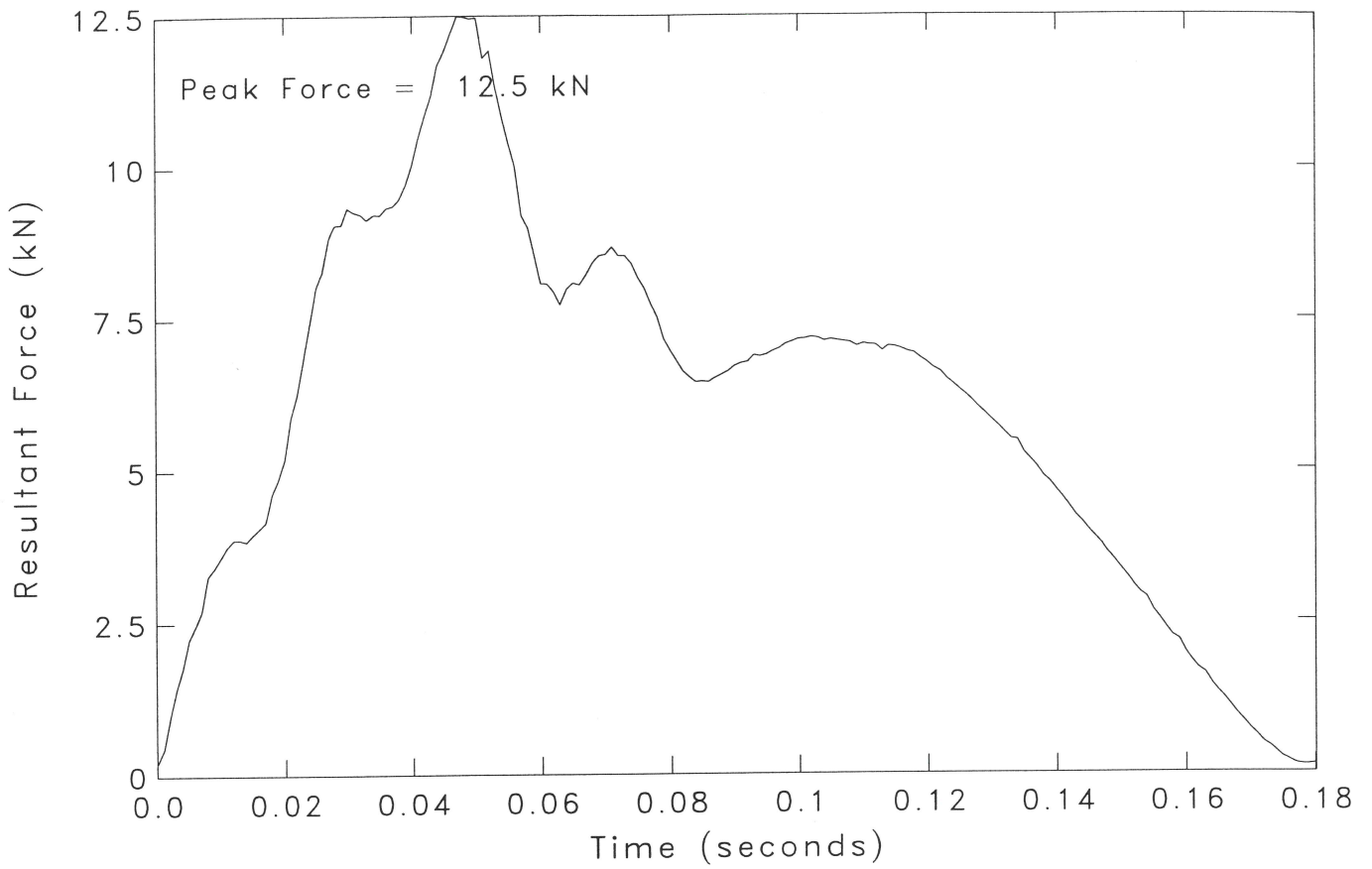


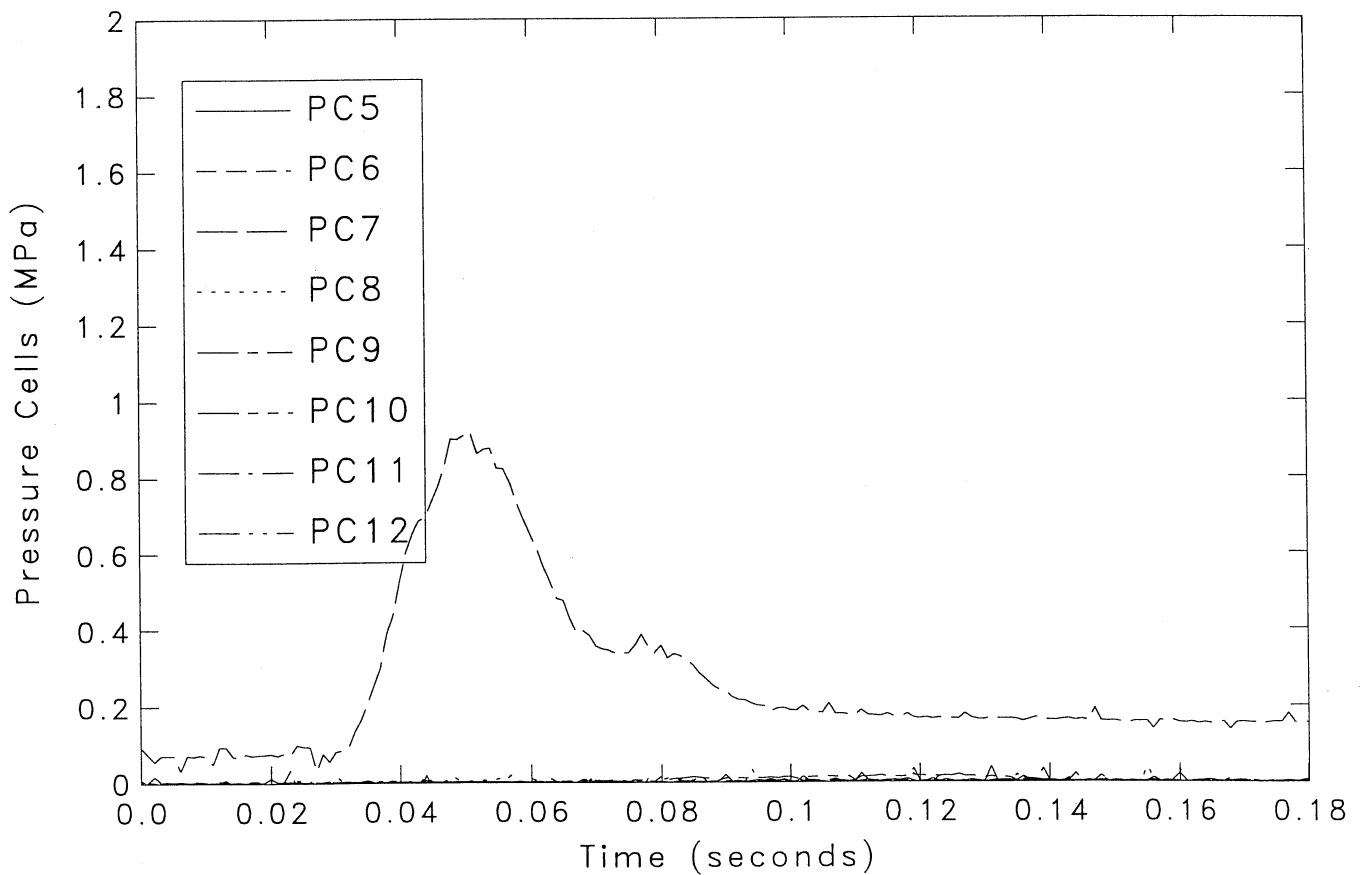
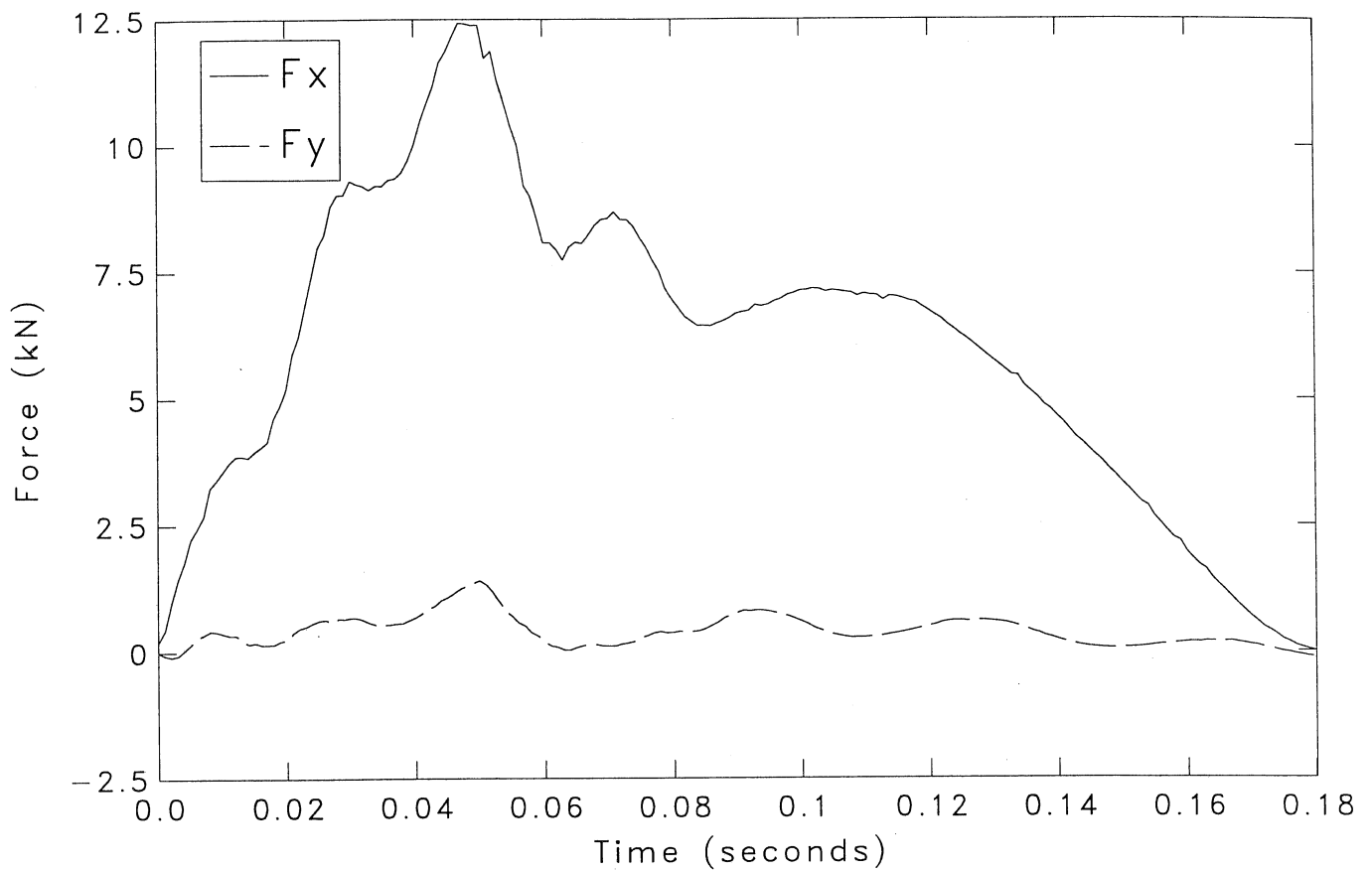


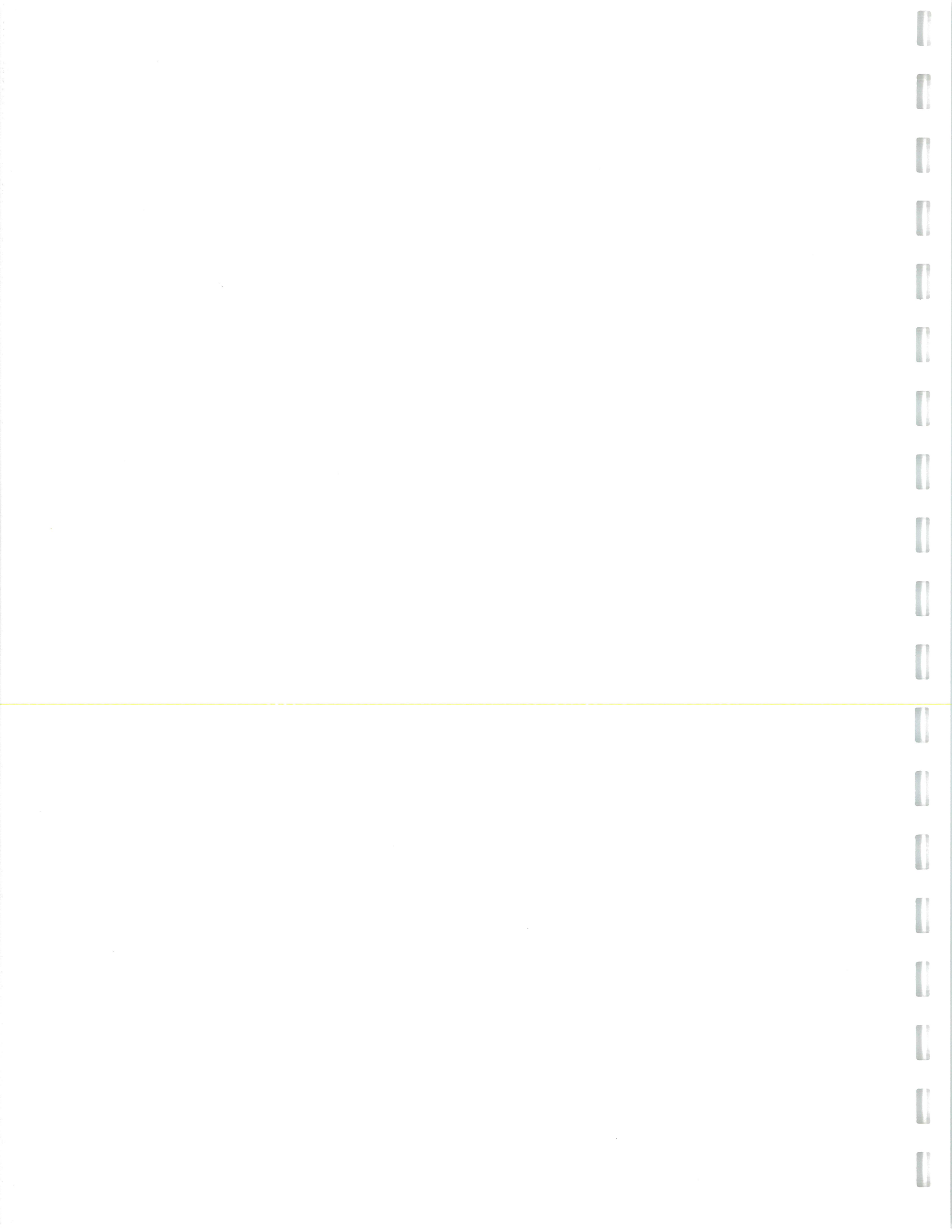
Floe Velocity = 115mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

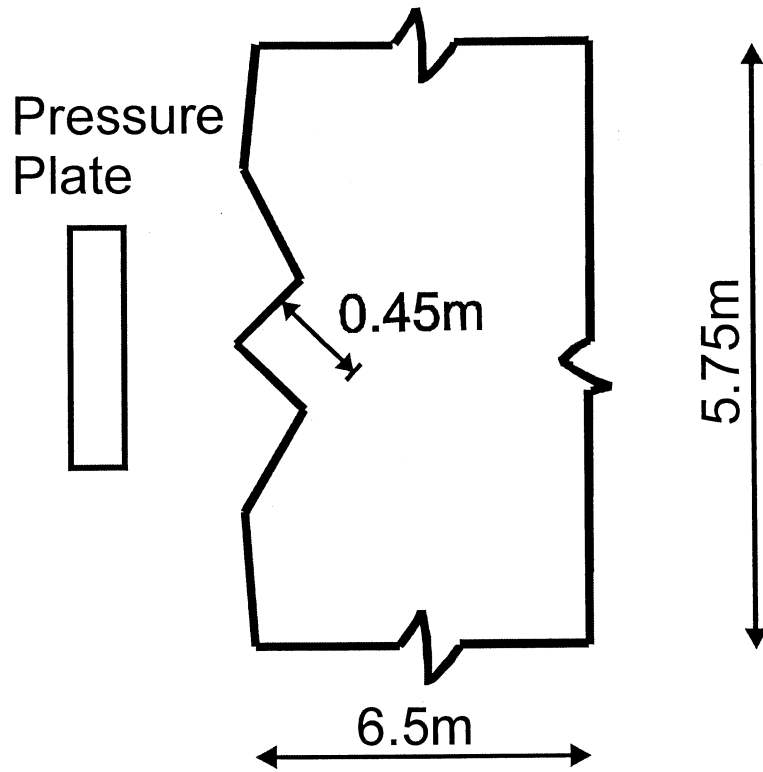
Exaggerated details for clarity

Test 37





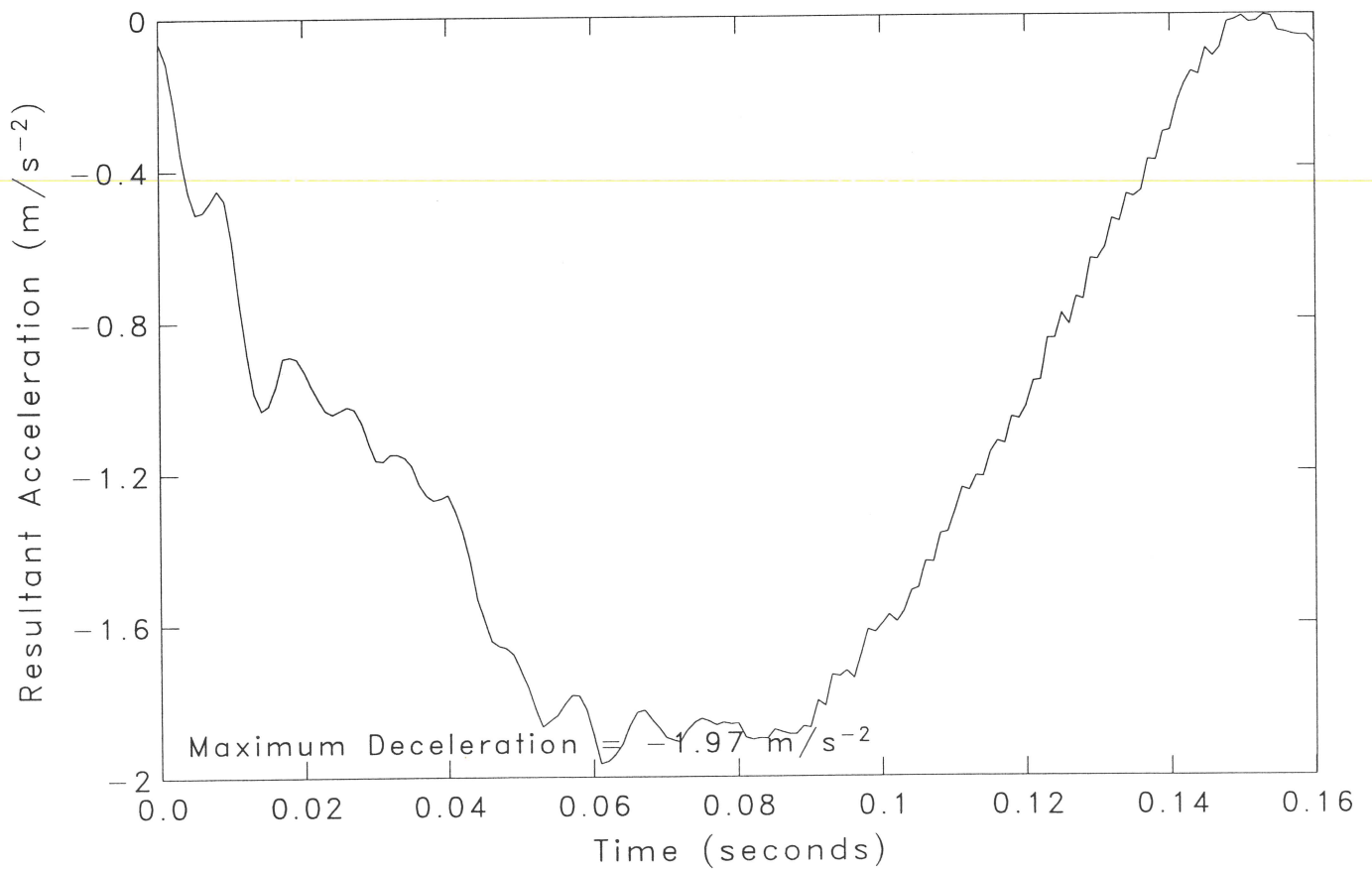
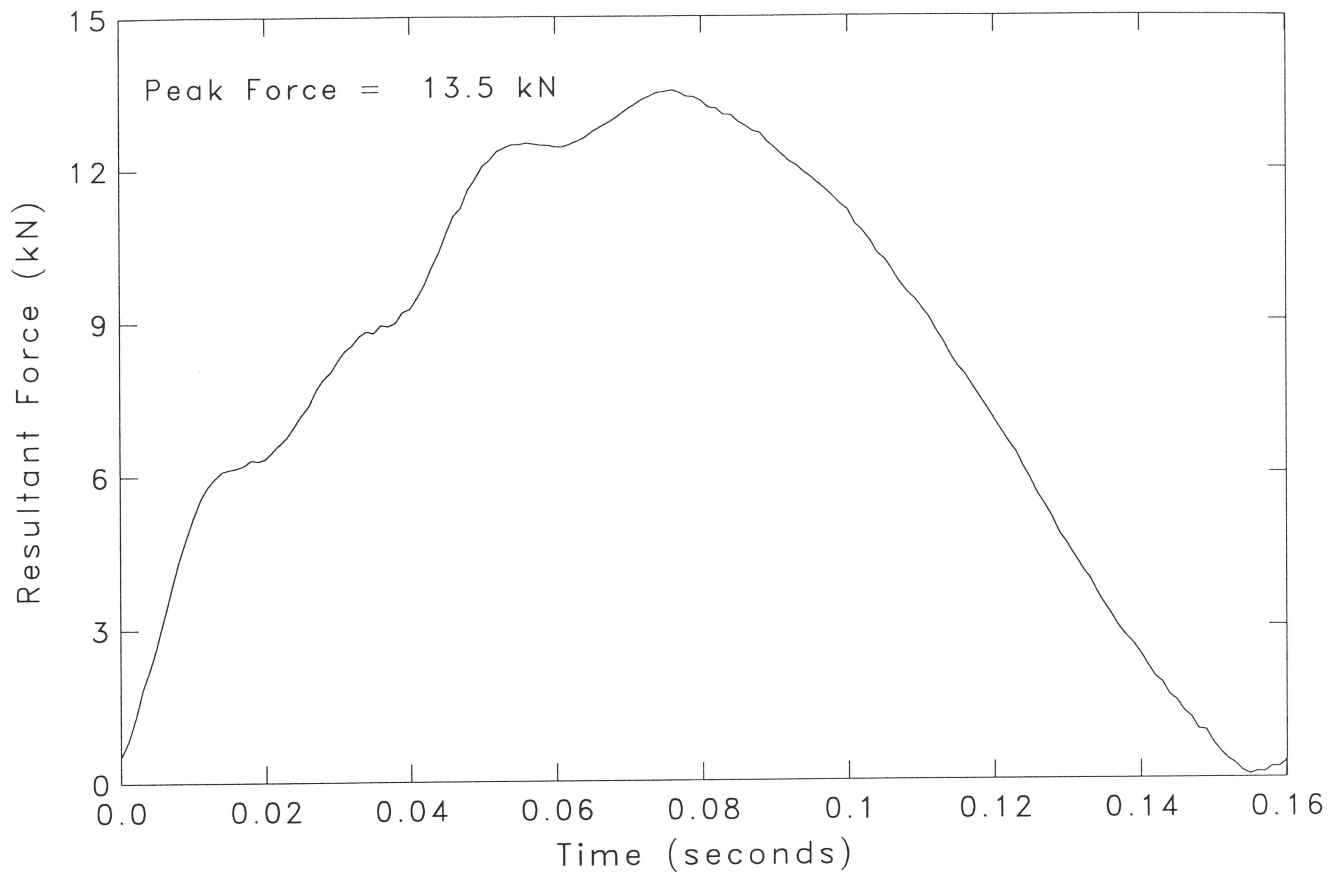


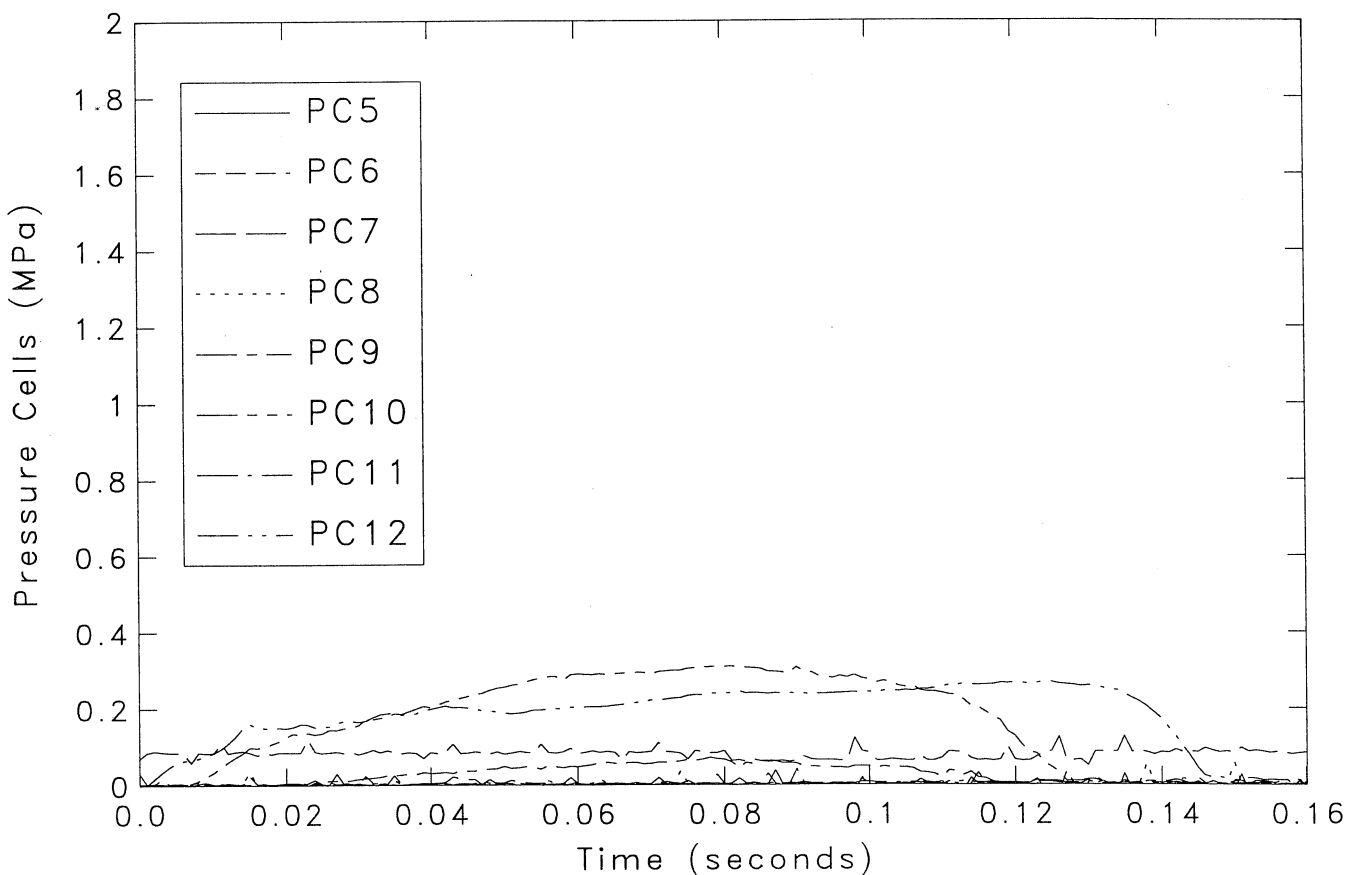
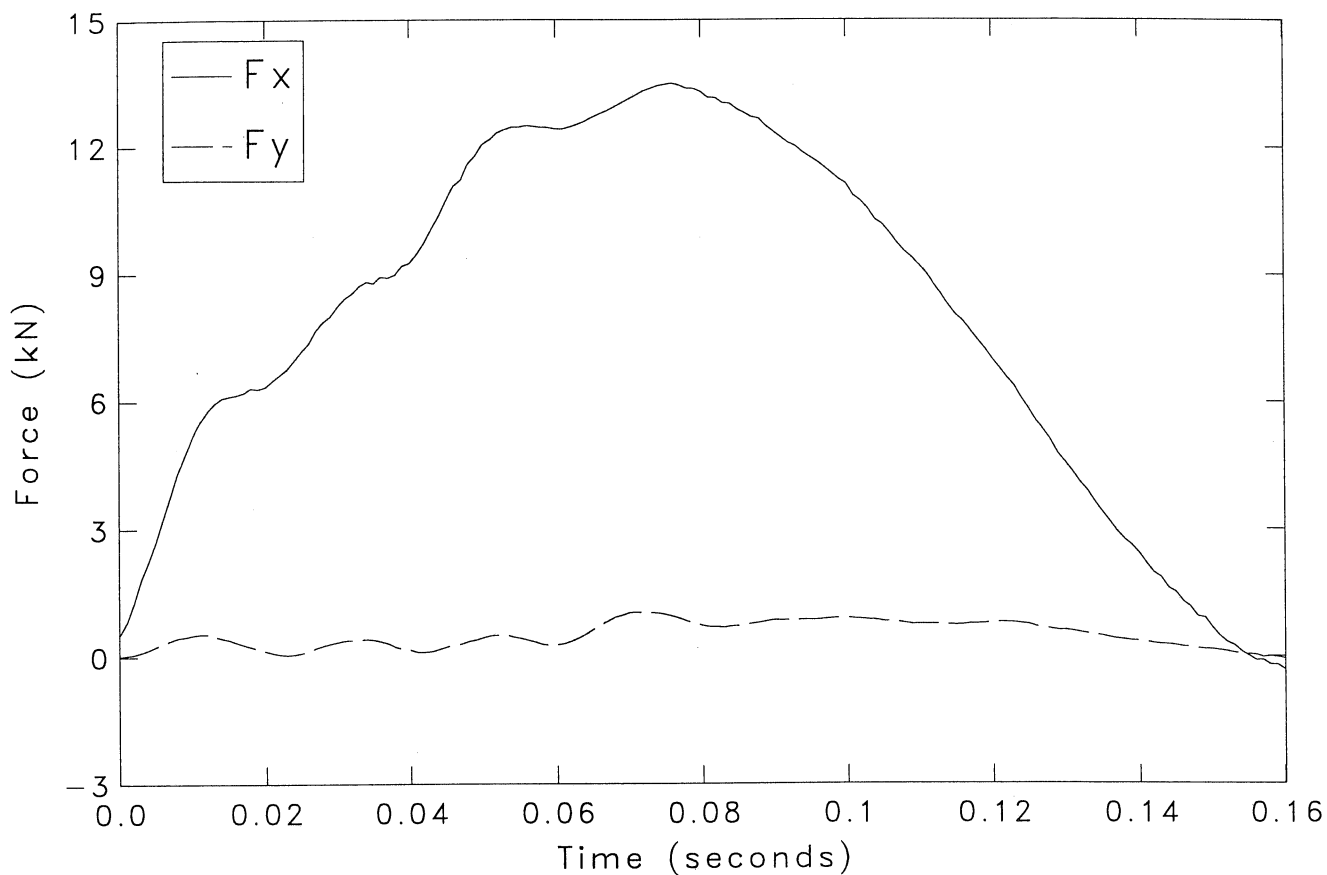


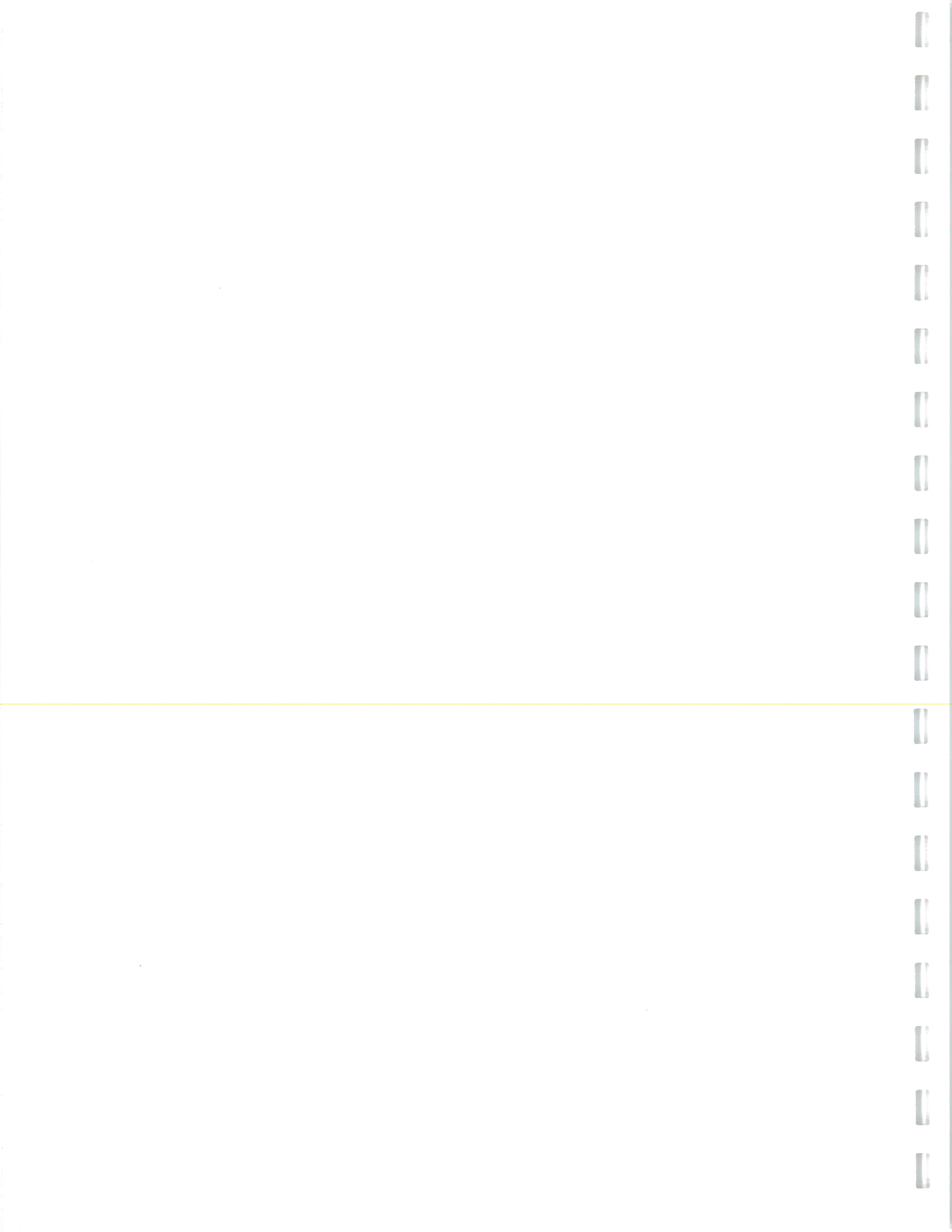
Floe Velocity = 111mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

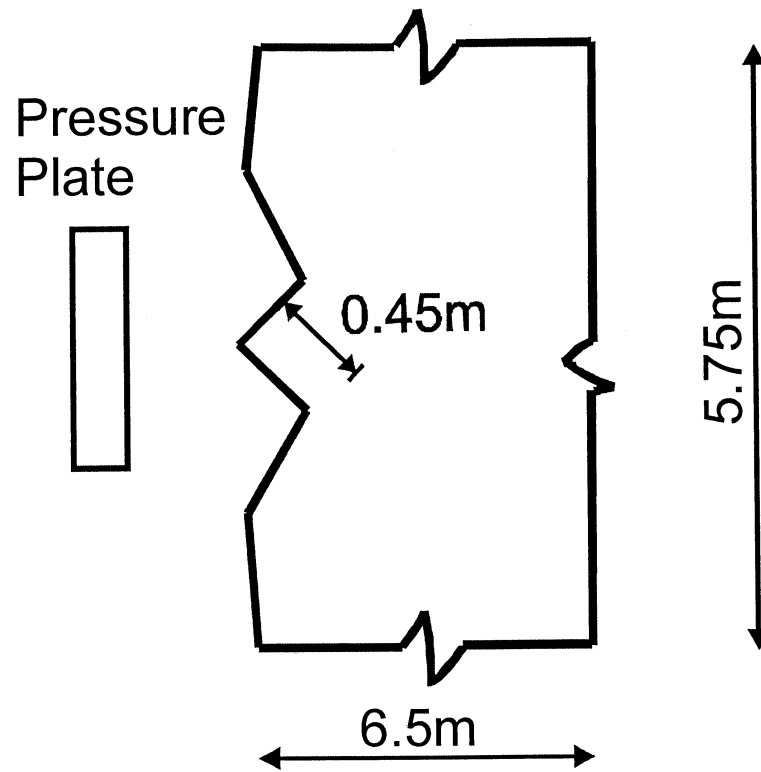
Exaggerated details for clarity

Test 38









Floe Velocity = 133mm/s
Floe Mass = 7.8t
Impact Edge Shape = wedge

Exaggerated details for clarity

Test 39

