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Memorandum

To:	Keith Mayes	**Client:**	KGL
From:	Bill Amann	**Project**:	Jervois
c.c:	Thanga Martin Bennet	**Prospect:**	Rock Face
Date:	28 October 2015	**Memo No:**	NX21832
Subject:	KJC168 DHEM Survey Completion Report		

A Downhole Electromagnetic (DHEM) survey was completed in KJC168 on 3 November 2015 by GAP Geophysics at the Rock Face prospect which is part of the ongoing DHTEM programme at Jervois Project.

KJRC168 was logged from surface to 700m as shown using an 800X1000m loop centred to the NE of the collar as shown see Figure 1. Current was 150 amperes and turnoff a rapid 0.3ms loop coordinates are shown. Data are good quality and fit for purpose.

The measured response is shown on Figure 2 Figure 3 and Figure 4 which shows a longwavelength response for the length of the survey, this is interpreted to be caused by a weak distant conductor consistent with the monotonous powerlaw decay which is observed throughout the survey as shown on Figure 5. . No anomalies consistent with conductors proximal to the lower section of the hole are evident.

An interesting response is noted within the top 100m of the hole which has an obvious 16ms exponential decay as observed at 30m depth see Figure 6. This is interpreted to be a conductor sited just in front of the drill rig possibly worth looking at.

A very short wavelength response is observed at 110m with rapid perturbations on all components, this is interpreted to be caused by a weak conductor within or very close to the drill hole at that depth.

A longer wavelength response which may be caused by the hole deviation and or loop position is observed also in the first 100m as a negative Ba response with a corresponding Bu response of negative to positive. This is interpreted to be caused by a very weak large source located above the hole but post probably geometry of the hole and loop.

Further modelling is recommended at the completion of the program when surface and other conductors are better defined.

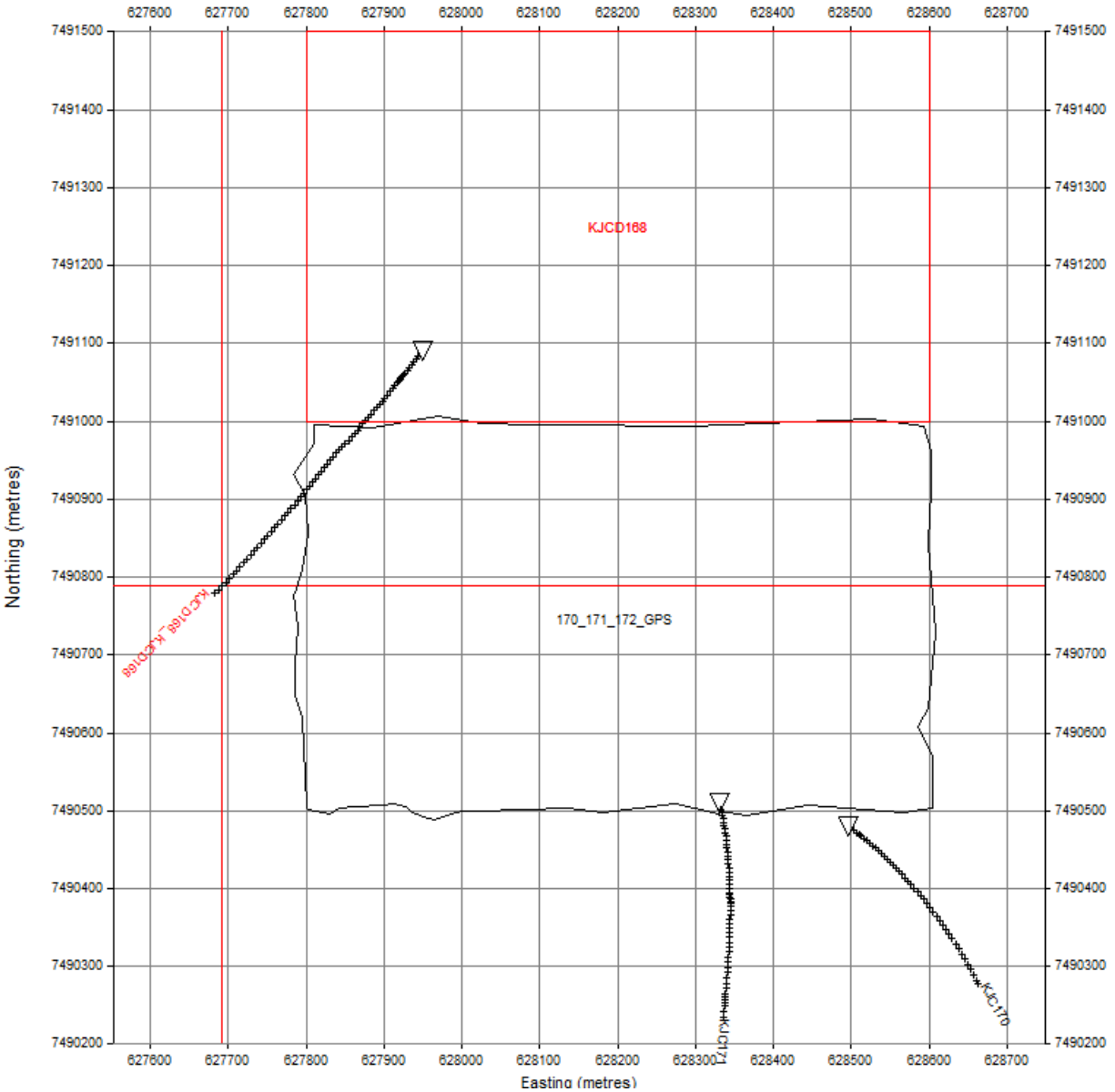

Figure 1 KJRC168 Loop Layout and hole position showing KJRC170

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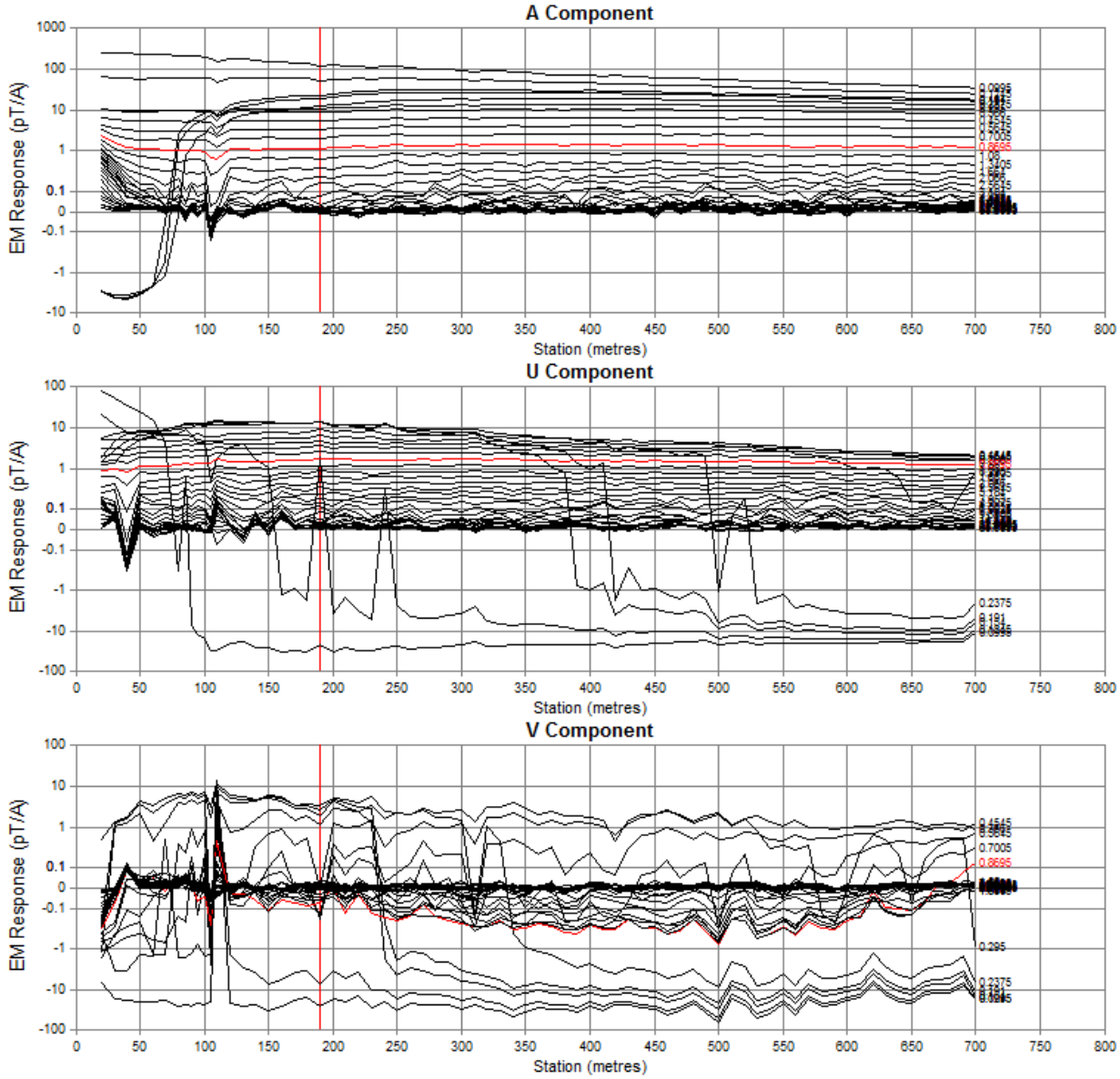

Figure 2 KJRC168 Logarithmic profiles all channels

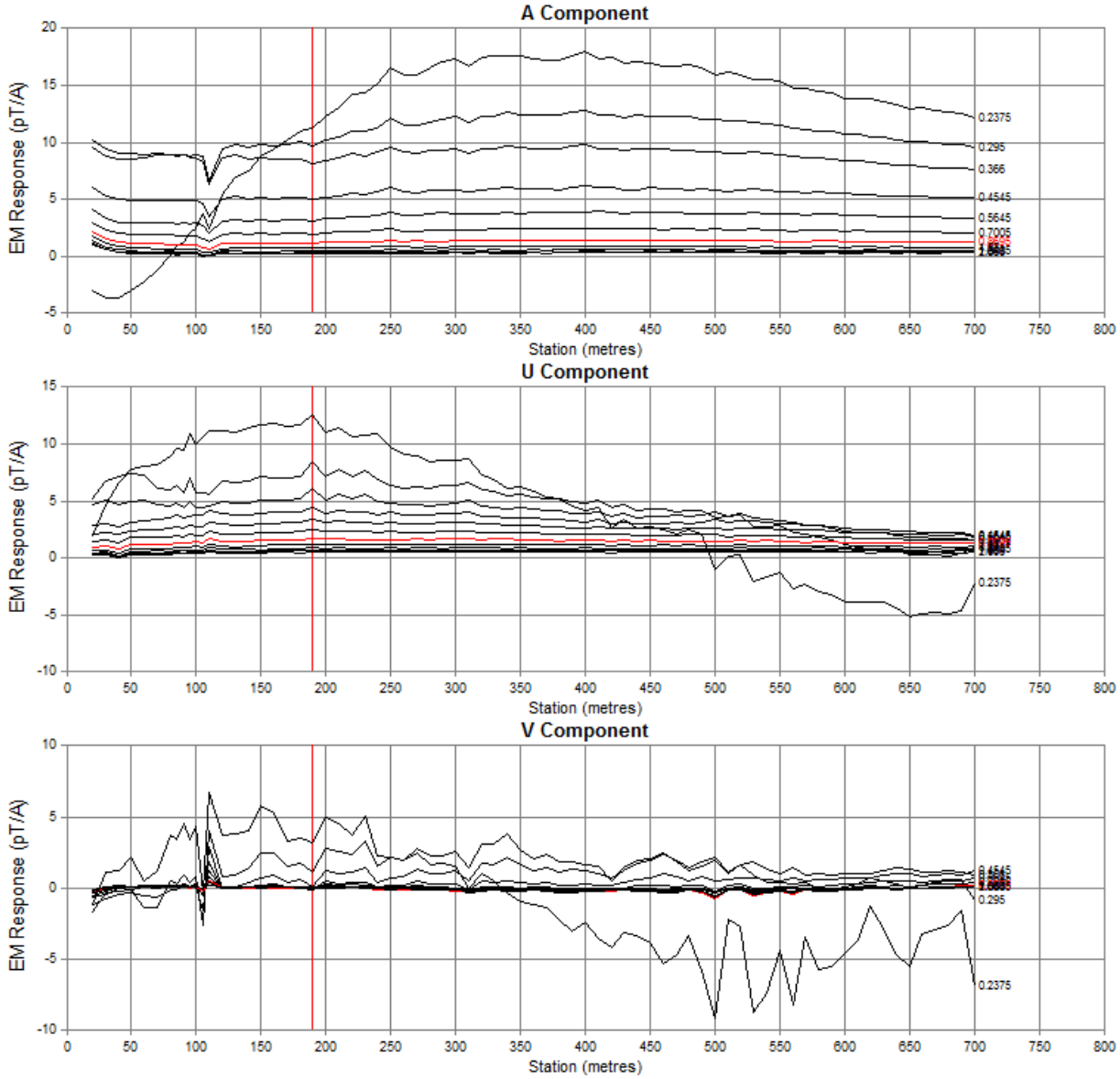

Figure 3 KJRC168 linear profiles 0.2ms onwards

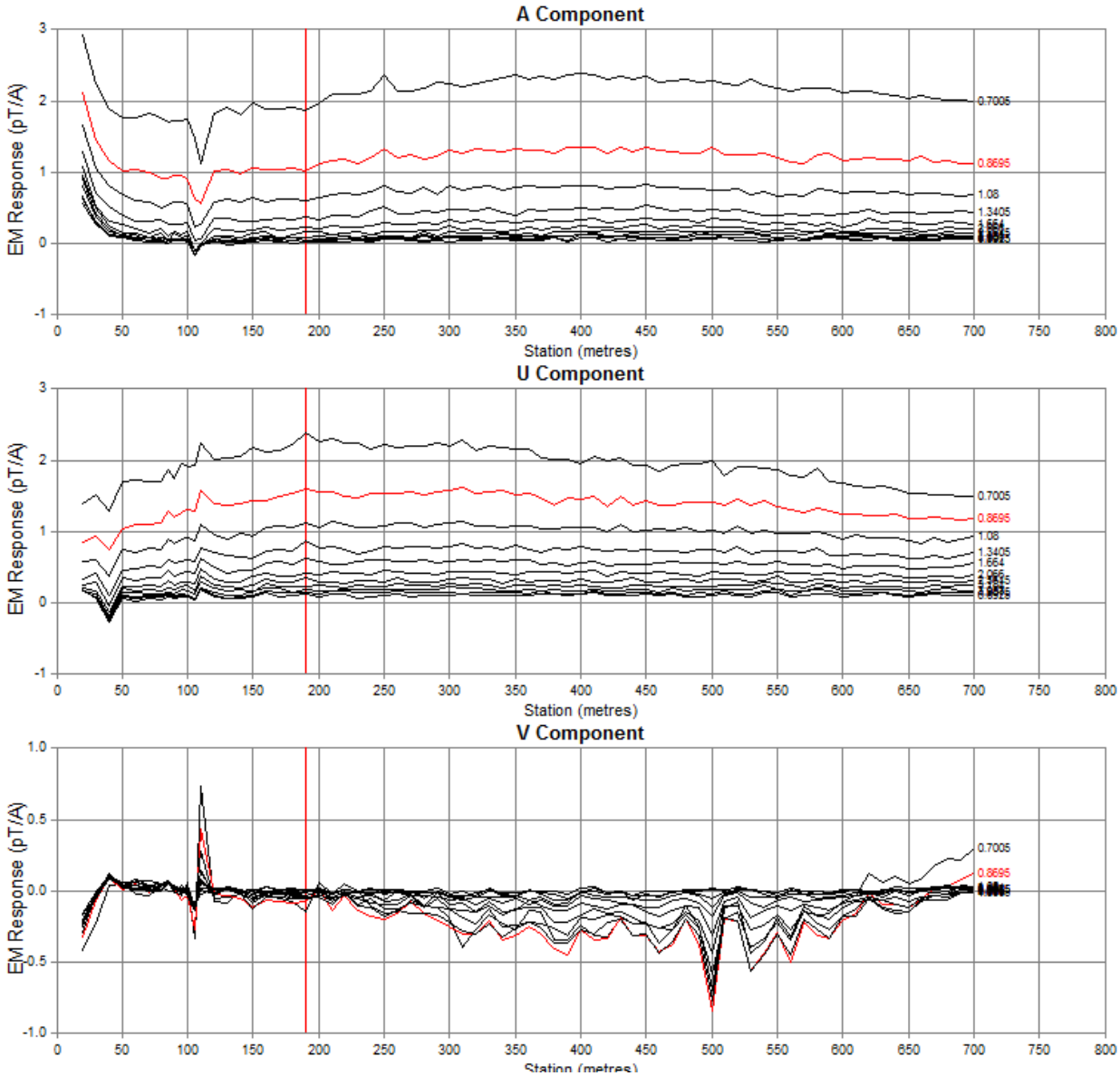

Figure 4KJRC168 linear profiles 0.7ms onward

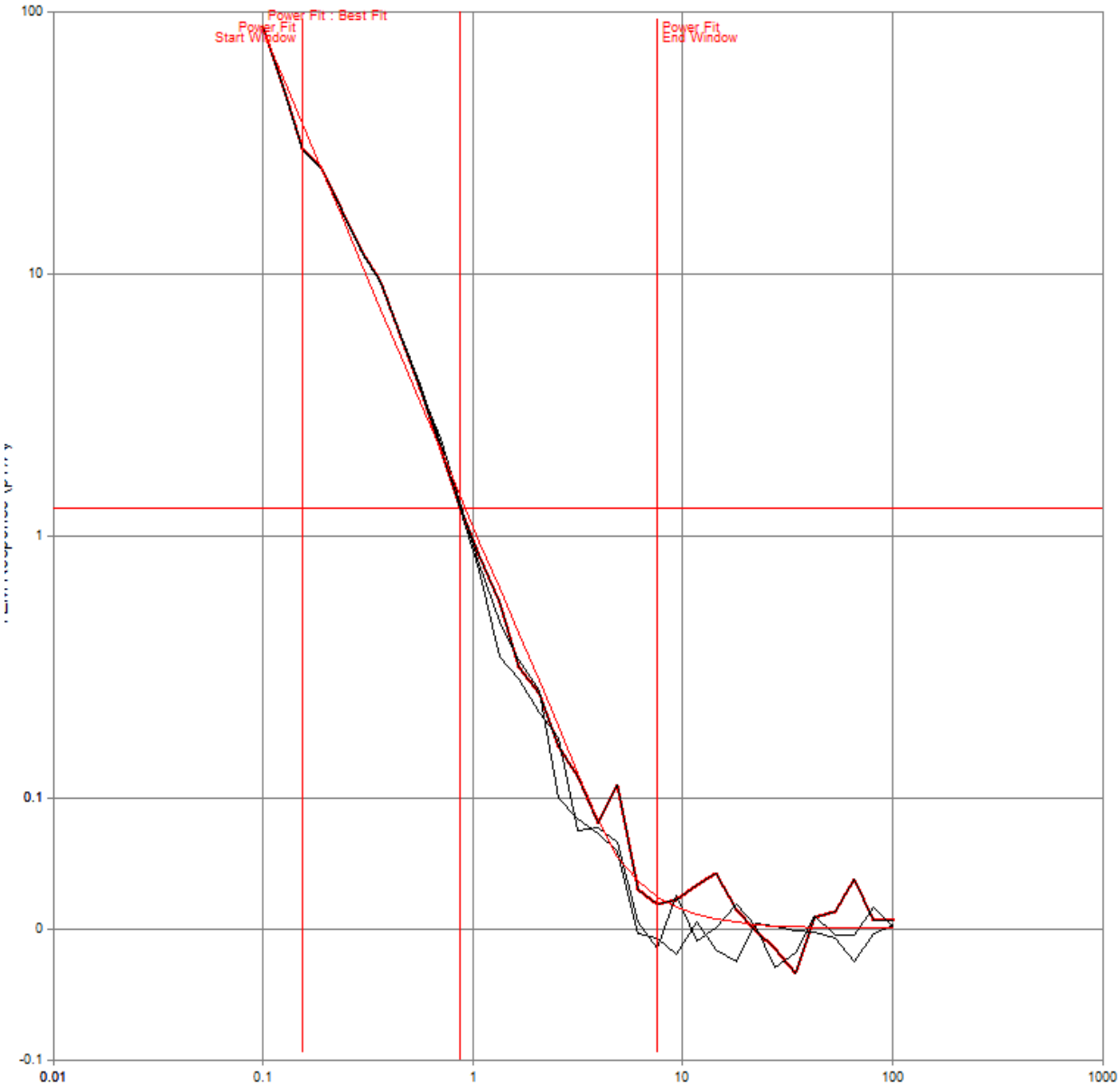

Figure 5KJRC168 300m depth axial component showing powerlaw decay t= -1.8

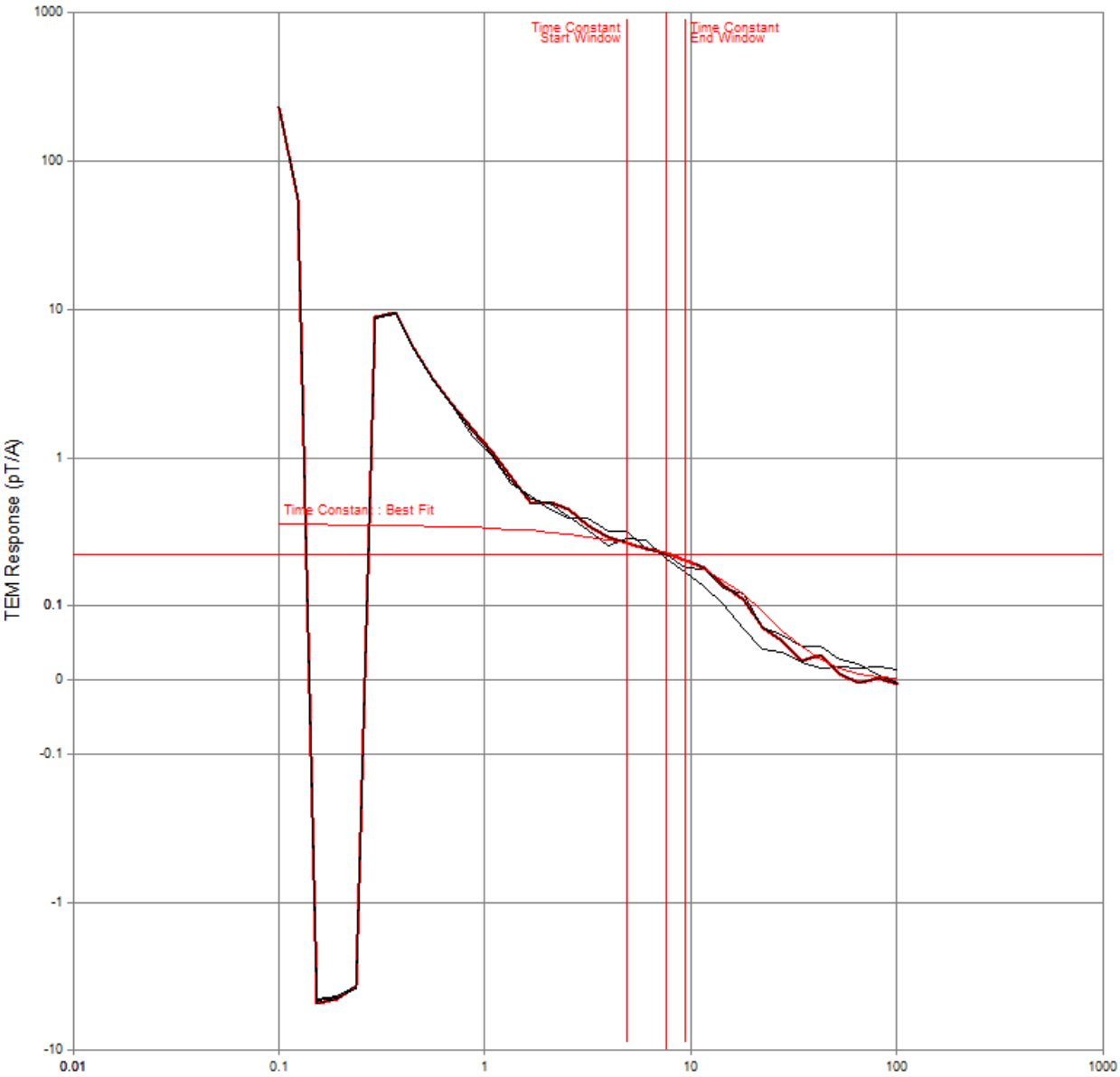

Figure 6KJRC168 30m axial component showing a response with a 16ms time constant.

LV1X:627800.00 LV1Y:7491500.00 LV1Z:352.00 &
LV2X:628600.00 LV2Y:7491500.00 LV2Z:352.00 &
LV3X:628600.00 LV3Y:7491000.00 LV3Z:352.00 &
LV4X:627800.00 LV4Y:7491000.00 LV4Z:352.00