

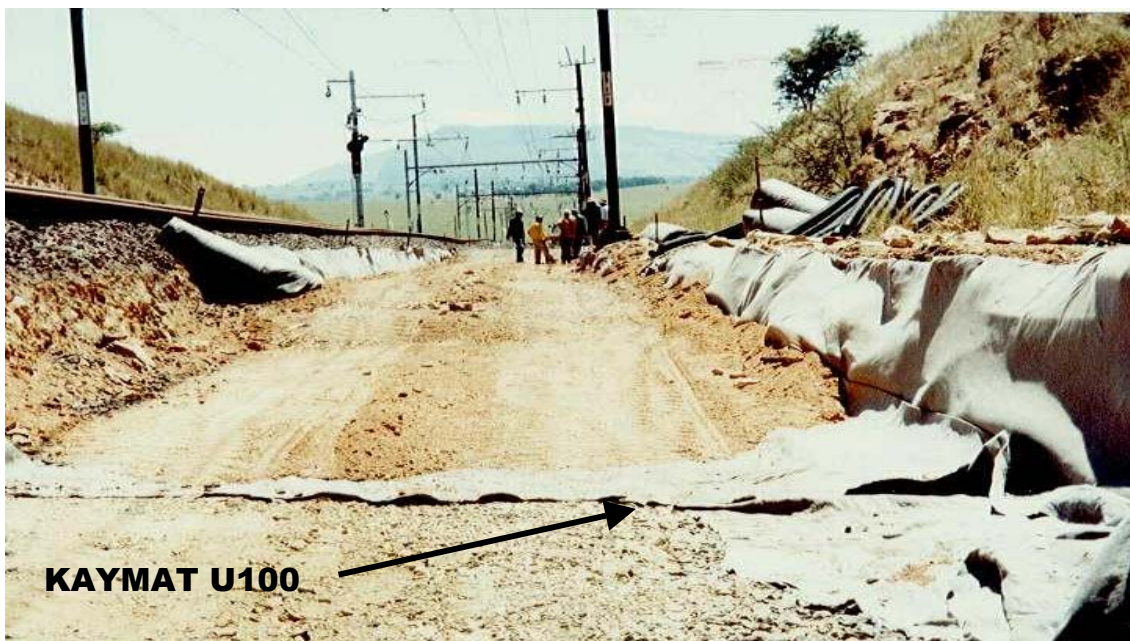


**DRAINAGE
COAL LINE REHABILITATION**

CASE STUDY

PROJECT:	Vryheid/Engogwene – Northern Kwa-Zulu Natal		
CLIENT:	Coalink	DATE:	Jan – May 1999
CONSULTANT:	Spoornet	QUANTITY:	Ongoing
CONTRACTOR:	Protekon – Durban	PRODUCT:	Kaymat U100 & FLO-DRAIN

This is the second phase of rehabilitation at Engogwene of the coal line between Vryheid and Richards Bay. The design for this phase was changed from the previous and incorporates a



1 000g/m nonwoven, continuous filament, needle punched geotextile blanket drain (**Kaymat U100**), in place of the 100mm sand drainage layer below the layer works. Not only has this reduced the difficulty of trying to control the installation of a 100mm sand layer, but has also eliminated the need for the **Kaymat U34** geotextile which was previously used as a separation layer.

Due to the amount of overbreak during excavation for the drains, the sizes of the **FLO-DRAIN** supplied to the site increased to 1 000mm and 1 650mm. The **FLO-DRAIN** remained wrapped in a **Kaymat U24** filter fabric. This phase has now set the standard for the rest of the rehabilitation contracts that are to follow on in the future.

