



# *Welcome to GrouTech Mining*

From  
Mr Norm Howell



# Fault Pre-Consolidation Grouting

## Drilling



## Site Layout



# Fault Pre-Consolidation Grouting

**Hole  
Washing**



**Blowing  
out Holes**

# Fault Pre-Consolidation Grouting

## Assembly and Placing of Packers



## Water Testing

# Fault Pre-Consolidation Grouting



**Water Test  
Equipment**

**Grouting**



# Fault Pre-Consolidation Grouting



**Grouting**



# Fault Pre-Consolidation Grouting

**Results**



**Grout**

**10 – 40 mpa Laminated Mudstone/Siltstone North  
Goonyella Coal Mine 275metres Surface to Seam Grouting**

# Australian Mining

No. 1 FOR MINING TECHNOLOGY &amp; EQUIPMENT

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## New mining record

### Groutech smashes through fault zones

Commonly, when longwall miners mine through a faulted zone there is expected lower production due to cave-ins. Recently (June 2004) at Newlands Southern Underground Mine a new site production record was set whilst mining through a fault zone. The results were only four tonnes away from the national record for mining through a general coal seam. This was made possible due to methods of cementitious foundation grouting by Groutech (Aust) Pty Ltd.

Groutech have been engaged on a number of occasions to consolidate fault zones for Newlands

but none as big as Chloe's Fault. After injecting 26 Tonnes of microfine cement into the strata over a 6 week period the fault zone was not only safer to mine through but actually allowed increased production.

In late 1998, ACARP in conjunction with North Goonyella Coal conducted a trial on pre-consolidation grouting. "Due to inconclusive results from other contractors, Groutech (Aust) Pty Ltd was contracted by North Goonyella Coal to attend to underground trial work involving injection of microfine cement grout. The methods adopted for the grout-



*Coal injection process.*

ing trial were proven to be successful for any underground mine." ACARP C7017 - December 1999. In mid 2000, North Goonyella Coal mined through the grouted fault zone and no problems were reported. In fact, production through a fault zone was increased signif-

icantly compared to the adjacent panel which was not grouted.

A more recent ACARP report - C10019, August 2003, confirms the effects and need for consolidation grouting performed by a professional company.

Groutech have worked on several projects for mines such as: Newlands Southern Underground, Newlands Northern Underground, Oaky creek no.1 Mine and North Goonyella in addition to a lot of civil work for the Department of Main Roads, Queensland Rail and various Queensland city councils.

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# Valuable - Details

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