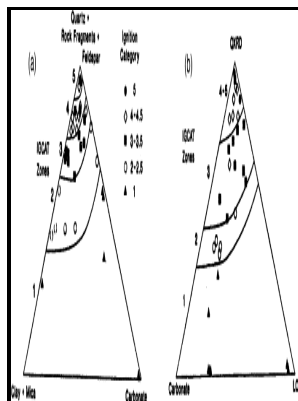


# Frictional ignition with coal mining bits

## U.S. Dept. of the Interior, Bureau of Mines - Frictional ignitions at a Queensland underground



Description: -

- Methane -- Combustion.

Friction.

Coal-cutting bits -- Testing. Frictional ignition with coal mining bits

- 9251.

Information circular (United States. Bureau of Mines) ;

9251

Information circular / Bureau of Mines ; Frictional ignition with coal mining bits

Notes: Includes bibliographical references (p. 25).

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Tags: #Frictional #ignition #of #methane #by #continuous

### Frictional ignitions at a Queensland underground

A fully laced drum was then designed and tested.

### Frictional Ignition With Coal Mining Bits

The likelihood of frictional ignition can be somewhat reduced by using a mushroom-shaped tungsten-carbide bit tip on the mining bit and by increasing the bit clearance angle; it can be significantly reduced by using a water spray nozzle in back of each bit. Frictional ignition with a mining bit always involves a worn bit having a wear flat on the tip of the bit.

### Frictional ignition with coal

The drum was operated in an enclosure that contained an explosive methane-air mixture. A small wear flat forms a small hot spot, which does not give ignition, while a large wear flat forms a large hot spot, which gives ignition.

### Frictional Ignition With Coal Mining Bits

The rear-mounted spray was more effective for preventing frictional ignitions than the front-mounted water jet. A coal mine ventilation system which is described insures proper ventilation near the working area.

### CDC

The likelihood of frictional ignition can be somewhat reduced by using a mushroom-shaped tungsten-carbide bit tip on the mining bit and by increasing the bit clearance angle; it can be significantly reduced by using a water spray nozzle in back of each bit, which is carefully oriented to direct the water spray onto the sandstone surface directly behind the bit and thereby cool the hot spots formed by the worn bit. This book written by Welby G. Frictional Ignition with Coal Mining Bits Download or Read online Frictional Ignition with Coal Mining Bits full in PDF, ePub and kindle.

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A bit replacement schedule must be used to avoid the formation of a dangerously worn bit. A coal mine ventilation system which insures proper ventilation near the working area. Get List of Bureau of Mines Publications and Articles with Subject and Author Index Books now! Recommended best practices include continuous monitoring for mine air quality and quantity to ensure that inadequate ventilation conditions are detected early and can be mitigated accordingly.

### **Frictional ignition of methane by continuous**

A small wear flat forms a small hot spot, which does not give ignition, while a large wear flat forms a large hot spot, which gives ignition.

### **Frictional Ignition Events**

Abstract The publication reviews recent U.

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