

Newton, Bayda

From: Schiefelbein, Kelvin
Sent: Tuesday, 7 April 2020 3:45 PM
To: Newton, Bayda; Maskovich, Ruiha; Briese, Marree
Cc: McNally, Tim; Wynn, Damien; Black, Dennis; Smith, Braedon; Moreby, James; Cavanagh, Damian; Duffy, Joel
Subject: FW: Completed Mining incident report No. 144446 (30 - High potential no lost time [nmsf: 35])

Form 5a for the 2nd gas exceedance 20/3/20

From: Confidential
Sent: Tuesday, 7 April 2020 3:42 PM
To: Confidential; Schiefelbein, Kelvin
Subject: Completed Mining incident report No. 144446 (30 - High potential no lost time [nmsf: 35])

This message originated outside Anglo American

Type of incident

Incident report number: 144446

Recipients: Confidential and Confidential

1 **Incident type:** 30 - High potential no lost time [nmsf: 35]

2 **Summary/title of incident**

A Gas Exceedance has occurred in the LW808 TG ROADWAY airway when the S243a sensor recorded gas concentrations exceeding 2.5% at or about the TG intersection 6ct with the TG roadway. The shearer had left the tailgate after the completion of the TG shuffle and was positioned at 185 shield when the exceedance occurred. (The TG shield is number 197.) (The TG Drive and shields were beginning to push over as per normal sequence.) (The gas exceedance was believed to be due to gas being purged from the goaf due to the ventilation changes resulting from the shield movements and shearer position.) The gas accumulation caused an immediate trip of power supply to the AFC and shearer at 2% as per requirements. The gas accumulation did not present as exceedance at the TG drive gas sensors or at a TG roadway gas sensor positioned further Outbye. A peak reading of 3.72% was recorded during a period of 8 minutes.

Incident Classification:	Code: 114 - Presence of gas [nmsf: 3827]
Breakdown:	Code: Machinery and (mainly) fixed plant [nmsf: 2836]
Sub-Breakdown:	Code: Other plant and machinery [nmsf: 2853]
Breakdown Class:	Code: Other and not specified production line type of plant or stand alone machinery [nmsf: 2949]
Detailed Classification:	Code: Other and not specified production line type of plant or stand alone machinery [nmsf: 3357]
Compensation ID: 999999	
Mechanism:	Code: Sound and pressure [nmsf: 2787]
Sub-Mechanism:	Code: Other variations in pressure [nmsf: 2810]

3 **Previously notified:** Yes

Date: 20/03/2020

Mine details

- 4 **Mine/quarry name** Grasstree Mine **Code:** M01459 **Old Code:**
- 5 **Mine type:** coalUnderground
- 6 **Company contact:** Kelvin Schiefelbein
Phone: Confidential
- 7 **Where in the mine did the incident occur?** LW808 A heading tailgate 6ct **Code:** 503 - Coal face-2nd workings [nmsf: 27]
Surface or underground? underground

Incident details

- 8 **Date of incident:** 20/03/2020
- 9 **Time of incident:** 06 08 (24 hr clock)
- 10 **Time shift started:** 20 30
Shift duration: 12 00
No. of complete shifts/day worked prior to accident: 0
No. of days in shift cycle: 14
No. of days rostered off prior to starting current shift cycle: 7
Total hrs worked in 24 hr period prior to accident, inc travel time: 11
Travel Time: 00 30
Rostered Travel Time: 00 30
Roster Pattern: 7on 7off
- 11 **Date of first full working day lost:**
- 12 **Primary equipment/tool involved in incident:** LONGWALL **Code:** 119 - Longwall-other equipment [nmsf: 3884]
- 13 **Describe exactly how did the incident occur:**
A Gas Exceedance has occurred in the LW808 TG ROADWAY airway when the S243a sensor recorded gas concentrations exceeding 2.5% at or about the TG intersection 6ct with the TG roadway. The shearer had left the tailgate after the completion of the TG shuffle and was positioned at 185 shield when the exceedance occurred. (The TG shield is number 197.)(The TG Drive and shields were beginning to push over as per normal sequence.)(The gas exceedance was believed to be due to gas being purged from the goaf due to the ventilation changes resulting from the shield movements and shearer position.) The gas accumulation caused an immediate trip of power supply to the AFC and shearer at 2% as per requirements. The gas accumulation did not present as exceedance at the TG drive gas sensors or at a TG roadway gas sensor positioned further Outbye. A peak reading of 3.72% was recorded during a period of 8 minutes.
- 14 **What hazards have been identified from this incident:**
The goaf drainage capacity of the gas well was barely meeting demand. The uneven advance of the shields has caused gas to be released and made worse the situation the location relative to the cut- through has made worse the situation by increasing pressure at that location.
- Code:** 112 - Flammable liquids/gases

Injured person details

- 15-21 Questions 15 through 22 not required for 'High potential no lost time' incidents

23 Description of personal damage:

nil

Is this a permanent incapacity? No

Incident causes

24 What happened leading up to the injury/incident/disease?

Organisational

The goaf drainage capacity is less than needed for peak situations - the design capacity has been exceeded.

- Codes** 102 - Design
 121 - Other org. factor
 106 - Incompatible goals

Task/environment conditions

The location of the cut- through has increased pressure at the TG corner. The goaf drainage well has reached full capacity. The strata is producing more gas than expected.

- Codes** 315 - Wind/turbulence
 301 - Air/liquid pressure
 320 - Task/environment factor (not specified)

Individual/team actions

The crew have advanced the shields unevenly. they have used automation in the wrong mode.

- Codes** 202 - Awareness
 201 - Attitude
 221 - Other ind./team factor

Absent or failed defences

The power trip which occurs when gas exceeds 2% caused the shields to freeze in a poor position and this makes the gas release worse.

- Codes** 405 - Inappropriate/inadequate safety features
 421 - Other absent/failed defence factor
 420 - Absent/failed defence factor(not specified)

Preventative action

25 Give details of any control measures/actions being considered and/or implemented to prevent recurrences

Crews have been trained in automated shield advance.

Date: 07/04/2020

Your full name: Kelvin Schiefelbein

Position: Underground Mine Manager

Email: Confidential

Office use

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Inspector/inspection officer: _____

Signed: _____

Entered by: _____

User IP address: 172.18.4.56

User agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.163 Safari/537.36

Email address: Confidential [REDACTED]

Submitted Date/Time: 07/04/2020 15:26:46

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