

## Newton, Bayda

**From:** Schiefelbein, Kelvin  
**Sent:** Wednesday, 11 March 2020 3:56 PM  
**To:** Newton, Bayda; Briese, Marree; Maskovich, Ruiha  
**Cc:** Wynn, Damien; Cavanagh, Damian; Black, Dennis; McNally, Tim; Probst, Perus; Kimber, Craig; Smith, Braedon; Moreby, James  
**Subject:** FW: Completed Mining incident report No. 144285 (30 - High potential no lost time [nmsf: 35])

Please find the form 5a for the HPI of a gas exceedance in the LW TG 22/2/20

**From:** Confidential  
**Sent:** Wednesday, 11 March 2020 3:42 PM  
**To:** Confidential; Schiefelbein, Kelvin  
 Confidential  
**Subject:** Completed Mining incident report No. 144285 (30 - High potential no lost time [nmsf: 35])

This message originated outside Anglo American

## Type of incident

Incident report number: 144285

**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 ZERO METER sensor recorded gas concentrations exceeding 2.5% at or about the TG intersection with the TG roadway. The shearer had left the tailgate after the completion of the TG shuffle and was positioned at 193 shield when the exceedance occurred.

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

3 **Previously notified:** Yes

**Date:** 22/02/2020

## 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?** Longwall 808 10-9ct Tailgate A heading **Code:** 507 - Coal face-longwall, stage loader/tailgate to 20 m [nmsf: 27]
- Surface or underground?** underground

## Incident details

- 8 **Date of incident:** 22/02/2020
- 9 **Time of incident:** 05 32 (24 hr clock)
- 10 **Time shift started:** 20 30  
**Shift duration:** 12 00  
**No. of complete shifts/day worked prior to accident:** 1  
**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:** 9  
**Travel Time:** 00 30  
**Rostered Travel Time:** 01 30  
**Roster Pattern:** 7on 7off
- 11 **Date of first full working day lost:**
- 12 **Primary equipment/tool involved in incident:** Longwall Tailgate **Code:** 115 - Longwall armoured face conveyor [nmsf: 3883]
- 13 **Describe exactly how did the incident occur:**  
The shearer had left the tailgate after the completion of the TG shuffle and was positioned at 193 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 3.05% was recorded during a period of 3 minutes where the sensor recorded an undulating gas concentration.
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- 14 **What hazards have been identified from this incident:**  
the heights and angles and locations of the Longwall tailgate drive and final face shields can create vortex air currents with can accumulate gas near equipment.
- 
- 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 face horizon and face orientation relative to the tailgate roadway cut-through need to be managed with horizon control and with brattices to prevent gas accumulations.

- Codes** 109 - Procedures  
 110 - Training  
 103 - Error enforcing conditions

**Task/environment conditions**

the last tailgate shield canopy was sitting higher than the general run of face shields as the face horizon was lower than that of the roadway. this situation creates vortex air currents which accumulated gas concentrations.

- Codes** 301 - Air/liquid pressure  
 315 - Wind/turbulence  
 308 - Procedures

**Individual/team actions**

The operators of the longwall have not been able to completely manage the situation suitable to prevent a gas accumulation.

- Codes** 202 - Awareness  
 207 - Supervision  
 208 - Teamwork

**Absent or failed defences**

gas readings have increased as this situation began to develop but a final control to dissipate the gas accumulation was not undertaken until a power trip occurred. the power trip was due to the gas concentration exceeding limits.

- Codes** 402 - Equipment failure to detect hazard  
 405 - Inappropriate/inadequate safety features  
 421 - Other absent/failed defence factor

**Preventative action**

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

other alarms may be able to be installed to warn operators of increasing gas concentrations

**Date:** 11/03/2020

**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/80.0.3987.132 Safari/537.36

Email address: Confidential

Submitted Date/Time: 11/03/2020 15:22:42

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