

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.

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: 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 **Code:** 507 - Coal face-longwall, stage loader/tailgate to 20 m [nmsf: 27]
Tailgate A heading
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.
-
- 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 top 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

□□□ □□□ □□□ □□□

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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