



<b>Mine Name</b>	<b>MineID</b>	<b>Operator</b>	<b>Activity Type</b>	<b>Activity Date</b>
Grosvenor Coal Mine	MI02976	Anglo Coal (Grosvenor Management) Pty Ltd	Inspection	19/03/2020

*Vision: Our Industries Free of Safety and Health Incidents*

## Mine Record Entry

**This report forms part of the Mine Record under s68 of the Coal Mining Safety and Health Act 1999. It must be placed in one or more conspicuous positions as per s69 of the Coal Mining Safety and Health Act 1999.**

**Note that inspection or audit activities conducted by the Mines Inspectorate are based upon sample techniques. It remains the primary responsibility of Mine Personnel to identify hazards, and risks associated with Operations and ensure those risks are at an acceptable level.**

Today 19 March 2019, Inspector Malcolm Brownnett attended the Grosvenor Mine to conduct an inspection of underground areas. I was met at the gate by UMM Mr Wouter Niehaus. Inspector Brownnett completed a Coronavirus declaration form prior to mine site entry.

### **Introductory Meeting :-**

The opening meeting was attended by:-

Mr Wouter Niehaus (UMM)

Mr Stephen Smith (Deputy Shift Undermanager)

UMM Niehaus provided me with information of 2 HPI's Methane Gas Exceedances that occurred at Longwall 104 tail gate roadway on the 18/03/2020 at 21:33 pm and the second incident 19/03/2020 at 06:50 am the mine was conducting further investigations into these Gas Exceedances.

### **UMM Wouter Niehaus gave an update summary of the mine:-**

- Longwall 104 planned maintenance from 7-00 am to 3-00 pm.
- Longwall 104 had completed approximately 30-40m of retreat. First Goaf Formation form completed (Goaf has formed right back to the back of the face chocks).
- Longwall 104 Tail Gate work cancelled due to Methane Gas Exceedance.
- 3 Goaf Drainage Wells were operational GR04L002, GR04L001 AND GR04V802A.
- Main Gate 105 maintenance from 7-00 am to 3-00 pm
- Continuous Miner mining C Heading 29 to 30 c/t Sequence 4.
- Main Gate 106 planned maintenance from 7-00 am to 3-00 pm.
- Continuous Miner mining off line drivage rib trimming C Heading 10 to 11 c/t 55m mark to 115m mark. Strata Advice Notice issued by Geo-Tech.

Inspector Brownnett discussed with UMM Niehaus and Deputy Shift Undermanager Smith the following:-

- Grosvenor Coal Mine Site Incident History (YTD) from January to March 2020.
- Mine Record Entries from previous Inspectors Inspection.
- Incident Compressed Air-Energy release uncontrolled.
- Mines Safety Alert Number 370 Coal Mine Worker struck by Load Haul Dump Machine.

- Safety Newsflash Heat Stress.
- Mines Safety Alert Number 366 Retractable Access Ladders.
- Mines Safety Alert Number 368 Inrush from Ventilation Shaft.
- Serious Accident on Longwall face .

#### **Muster Area:-**

Prior to travelling underground inspector Brownett attended the day shift Pre start meeting delivered by Mr Laurie Dixon (DS Undermanager ).

Inspector reviewed the TARP Board which had a total of 8 TARPS recorded.

#### **LW 104 Face :-**

Level 1 Strata TARP- 2 x Adjacent Flippers pinned # 103 & # 104 Actions Taken ( Planned for repairs).

Level 3 Strata TARP- goaf over run beside # 1 shield ( Rock Props installed).

#### **MG 104 :-**

Level 3 Heat TARP MG 104 dog leg to 34 c/t Actions Taken ( Permit Required prior to working in this area ).

Level 2 Heat TARP MG 104 to 36 c/t Actions Taken ( Workforce addressed at the start of shift meeting with controls and to follow the SOP ).

#### **MG 105 :-**

Level 1 Strata TARP Cavity > 300mm < 500 C hdg 30 to 31 c/t Actions Taken ( Installing code Yellow support when mining ).

Level 3 TARP for wheeling road in MG 105 B hdg 29 to 30 c/t Actions Taken ( Ongoing road works ).

#### **Goaf Drainage :-**

Level 1 TARP Goaf Well GRO4L001 O<sub>2</sub> >8% and CH<sub>4</sub> < 45% Actions Taken (Bag Samples Taken ).

Level 1 TARP Goaf Well GRO4L002 O<sub>2</sub> >8% and CH<sub>4</sub> < 45% Actions Taken (Bag Samples Taken ).

#### **Control Room :-**

Inspector Brownett attended the Control Room and reviewed the Gas Alarm Register the following alarms were recorded.

6.09 am Real Time Gas Monitor 38 Tail Gate 104 38 c/t B hdg Methane 3.0% ( Advancing Roof Supports Longwall 104 ).

6.36 am Tube Bundle 11 Tail Gate 104 400m 38 c/t B hdg Methane 2.2% ( Advancing Roof Supports Longwall 104 ).

7.08 am Real Time Gas Monitor 59 Dog -Leg Return Methane 2.3% ( Advancing Roof Supports Longwall 104 ).

#### **Underground Inspection :-**

In the company of UMM Niehaus and Deputy Shift Undermanager Smith an inspection conducted at the following location :-

**Longwall 104 :-** Deputy Shift Undermanager was the driver of the transport and stopped the transport to speak to a group of Coal Mine Workers about their tasks for the shift.

Inspector Brownett notice that the Coal Mine Workers were sitting down in the rib just at the entrance to the cut-through. A discussion with the Supervisor on the hazard of not being visible to vehicles. UMM assured the inspector this was not a common occurrence and would address this incident.

In the crib room the inspector reviewed the panel notice board all the relevant documents were in place.

Permit To Mine GRO-PMT-LW104-001 CH4376-CH4100 was viewed by the Inspector.

Inspector Brownett was introduced to the Longwall ERZ Controller who discussed the planned tasks for the shift.

Inspector discussed with ERZ Controller the rubbish that was at the entrance to the crib -room at 37 c/t. ERZ Controller arrange for the rubbish to be removed.

Inspector discussed with ERZ Controller the floor dust along the travel roadway from 37 c/t to 38 c/t. ERZ Controller arrange for the area to be watered down.

ERZ Controller briefed the inspector on the event that lead to the high Methane gas readings recorded in the Tail Gate

**Tail Gate General Body Gas Readings** recorded by ERZ Controller:- Oxygen (O<sub>2</sub>) 20.3%, Methane (CH<sub>4</sub>) 2.05%, Carbon Monoxide (CO) 10ppm and Carbon Dioxide (CO<sub>2</sub>) 0.08%.

**Goaf Stream Gas Reading** recorded by the ERZ Controller:- Oxygen (O<sub>2</sub>) 14.4%, Methane (CH<sub>4</sub>) Off Scale, Carbon Monoxide (CO) 114ppm and Carbon Dioxide (CO<sub>2</sub>) 0.59%.

**Longwall Face floor breaks** were recorded just in front of the roof support pontoons located at 27 to 95 gas levels recorded in this area by ERZ Controller Methane (CH<sub>4</sub>) 0.15% to 0.10%.

Longwall ventilation quantity recorded by the ERZ Controller was Q= 65m<sup>3</sup>/sec along the face.

Planned Maintenance work was in place two mechanical trades were replacing a Sprag Ram on Roof Support #48.

Caution Tape and information tag was in place on roof support #46. Inspector made positive communication with the mechanical trades to enter the work area.

The mechanical trades briefed inspector on the following :-

- Hydraulic Isolation for roof supports and Tail Gate tensioning unit.
- Positive electrical Isolation of the AFC
- Lifting Equipment Colour Tag for this quarter (Red).
- SWI 020 8985 Replacing Sprag Ram'
- Work Order
- . Slam conducted for the task.
- House Keeping standard was good.
- Face sprags were extended out on Roof Supports.
- Spotter in place.

Mechanical Personnel had good overall knowledge and standard for the task.

Inspector briefed the mechanical personnel on a serious accident on a Longwall face where a Coal Mine Worker was struck on the forearm by face coal.

Planned Maintenance work was in place three mechanical trades were working on the Tail Gate AFC tensioning unit.

The mechanical trades briefed inspector on the following :-

- Hydraulic Isolation for Roof Supports
- Positive electrical Isolation of the AFC.
- Lifting Equipment Colour Tag for this quarter (Red).
- Slam conducted for the task.
- Face sprags were extended out on Roof Supports.

- Spotter in place.

Inspector briefed the mechanical personnel on a serious accident on a Longwall face where a Coal Mine Worker was struck on the forearm by face coal.

Inspector had a discussion with the ERZ Controller regarding the two Roof Supports #103 and #104 where the sprags were not operational which puts them into a Level 2 Orange TARP.

ERZ Controller informed Inspector Brownnett the two sprags were planned for repairs but due to face conditions the repairs were cancelled. Controls ERZ Controller had implemented was communication to the workforce that they must use the back walkway when going past Roof Supports #103 and #104.

#### **Longwall face conditions :-**

Area had been double chocked from Roof Support #89 to #104.

Stone Cavity was observed over front of Roof Supports #89 to #99.

Inspector Brownnett thanked the ERZ Controller for the inspection.

Inspector Brownnett UMM Niehaus and Deputy Shift Undermanager Smith travelled to Main Gate Development Panel 106

#### **Main Gate Development Panel 106.**

Inspector Brownnett was introduced to the panel ERZ Controller who gave the tasks that was planned for the shift.

In the crib room the inspector reviewed the panel notice board all the relevant documents were in place.

Inspector Brownnett discussed with 3 Coal Mine Worker who had just completed grouting centre line mega bolts C10 to C11.

Inspector viewed the SWI GRO 5754 Installation of Megabolts.

Coal Mine Workers discussed the following with Inspector Brownnett :-

SWI GRO 5754 Installation of Megabolts.

PPE that was required to be worn for grouting of megabolts.

Completed SLAM to perform the task for grouting of megabolts.

Record of number of pumps of grout being pumped into each megabolt.

Completed a Supervisory Competency Assessment with a Coal Mine Worker.

#### **Face Inspection :-**

Permit To Mine GRO-PMT-MG106-003 8 c/t to 20 c/t was viewed by the Inspector.

Sequence Plan #80718 was in place.

Strata TARP GRO-10304.

Strata Advice Notice Issued for rib trimming prior to work commencing.

Continuous Miner was currently trimming ribs C Hdg 10 to 11c/t for off drivage area between 53m to 117m .

Rib support installed in rib trimming in C Hdg 2.1m steel bolts 1m apart and rib meshed from roof to floor.

Ventilation 2 auxiliary fans were operational positioned in C Hdg 7c/t-8 c/t

C Hdg face auxiliary fan AF01 VIV setting 19 m/sec.

B hdg face auxiliary fan AFK03 VIV setting 21 m/sec.

Ventilation Quantity C hdg 7c/t -8c/t 52 m<sup>3</sup>/sec.

#### **B hdg task planned :-**

Shotcrete of the ribs from 10 c/t -11 c/t was being performed.

Inspector Brownett discussed with ERZ Controller how he would set up the ventilation for the face areas if the electrical power in his panel was disrupted for a period of time.

ERZ Controller had good knowledge to control this event.

Inspector Brownett thanked the ERZ Controller for the inspection.

On return to the surface Inspector and UMM attended the Control Room to review the Gas Alarm Register.

#### **Close Out Meeting :-**

Inspector Brownett conducted a close out meeting with Mr Wouter Niehaus (UMM) Mr Stephen Smith (Deputy Shift Undermanager) and Mr Bevin Mulcahi (Gas Drainage Engineer)

Mr Wouter Niehaus (UMM) gave Inspector Brownett an update on the gas levels in Longwall 104 Tail Gate Real Time Sensor # 38 recording a Methane level of 1.91% (CH<sub>4</sub>).

Wouter Niehaus (UMM) and Mr Bevin Mulcahi (Gas Drainage Engineer) Discussed the Planned Actions to Control Gas Levels in Longwall 104 Return.

- I. On the Surface clean the filters on Goaf Drainage Sledge for GR04V802A this would bring the gas flow back to 1600 l/sec.
- II. Install a second sledge in line that would eliminate stopping of the Goaf Drainage Wells for Longwall 104 goaf to clean filters.
- III. Two additional goaf drainage wells will come on line.

Inspector Brownett discussed his Inspection and would keep in contact with Mr Wouter Niehaus (UMM) regarding gas trends in Longwall 104 Tail Gate Return.

**Malcolm Brownett**

**Inspector of Mines**