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| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 c/t("Outbye Sensor") | Time over 2.5% | Factors mentioned |
|  |  |  |  |  |  |  |
| 1. 10/07/2017
 | 12:10am | Unknown | 3.07% | 3.00% | 30 Minutes | Surface goaf drainage tripped at 11:45pm. 1.2% in TG.Goaf plant restarted .1.3% at 2:30am |
| 1. 15/11/2017
 | 3:18ppm | Unknown |  | >2.5% | 18 Minutes | Machine Door LW 101 Chute Road and Mains A7 left open retrieving Stonedust pod.**Was there only 1 door as implied?****Why not double doors?** |

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| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 06/01/2018
 | 12:10am | Unknown | 2.35% | 2.53% | 2 Minutes | Shearer stopped At Chock #127Goaf Fall #149Retreated 29m since LW102 start |
| 1. 08/01/2018
 | 3:00am | Unknown | 2.15% at 2:45 approximately | 2.57% | 15 Minutes | Shearer stopped At Chock #110. Stopped 55 minutes #149 advancedRetreated 40m |
| 1. 08/01/2018
 | 12:06pm | Unknown | 2.06% at 11:57pm | 2.56% | 17 Minutes | Shearer stopped At Chock #66Retreated 40m  |
| 1. 08/01/2018
 | 12:54pm | Unknown | 2.07% at 12:39pm | 2.53% | 13 Minutes | Shearer stopped At Chock #66Retreated 40m |
| 1. 08/01/2018
 | 9:45am | Unknown | 2.09% at 9:32 am | 2.56% | 17 Minutes | Shearer stopped At Chock #104Retreated 40m |
| 1. 26/01/2018
 | 1:26am | Unknown | 2.28% at 1:11am | 2.52% | 3 Minutes | Shearer stopped At Chock #38 TG-MGRetreated 180m |
| 1. 04/03/2018
 | 6:21am | Unknown | 2.52%  | Unknown | 2 Minutes and 22 seconds | Shearer stopped At Chock #115 TG -MG Outbye belts down |
| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 08/03/2018
 | 4:28am | Unknown | Unknown | 2.53% at 3:13am2.54% at 4:39am | 4 Minutes22 Minutes | Double Chocking. 2 events. Stopped double chocking in between.Longwall stopped at 1:44am high gas in TG. *Only* 5 shears previous 12 hours |
| 1. 12/03/2018
 | 10:55pm | Unknown | 2.61% | Does not change**WHY?** | 1 Minute | Goaf Flushing around #149 |
| 1. 13/03/2018
 | 8:09am | Unknown | 2.87% | 2.79%11 minutes later | Unknown | 3 Cuts TG to bring TG forward due to poor roof. Gas Flush when chocks advanced*Daily TG gas M’ment IMT* |
| 1. 13/03/2018
 | 2:55pm | Unknown | 2.52% at 2:55pm2.53% at 4:23pm | 2.53% at 3:06pm2.60% at 4:36pm | 8 Minutes | 2 Cuts TG to bring TG forward due to poor roofGas Flush when chocks advanced |
| 1. 13/03/2018
 | 23:54pm | Unknown | 2.76% |  | 70 seconds | Cut into TGShearer parked at #115.Crew started bringing over chocks |
| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 14/03/2018
 | 3:37am | Unknown | 3.21% | 2.65% | 1 Minute | Shearer Cutting TG corner of face |
| 1. 14/03/2018
 | 4:51amam | Unknown | 2.56% | 2.73% | 5 Minutes | Poor Roof Conditions in TG Ventilation path restricted |
| 1. 14/03/2018
 | 7:20am | Unknown | 2.7% | 2.59% | 5 Minutes | 2 Cuts TG to bring TG forward due to poor roofGas Flush when chocks advancedShearer stopped at time |
| 1. 14/03/2018
 | 1:29pm | Unknown | 2.53% |  | 9 Minutes**Were workers in TG working in greater than 1.25%?** | Shearer parked at MG Maintenance since 8:40am, Workers in TG supporting roof.**Attributed to goaf fall** |
| 1. 14/03/2018
 | 2:47pm | Unknown | <2.5% | 2.59% | 45 Minutes | Shearer parked at MG Maintenance since 8:40am |
| 1. 15/03/2018
 | 11:18pm | Unknown | Unknown<2.5% | 2.62% | 33 Minutes | Longwall not producing Goaf Flushing #149AFC run gas goes <2.5% |
| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 22/03/2018
 | 10:15pm to 11pm | Unknown | Unknown | >2.5% | 3 Exceedances in 45 Minutes >2.5% | TG Cut once.Shearer at # 130.TG roof flush 1.5m in front of face.Vent Restricted.3 exceedances |
| 1. 01/04/2018
 | 2:27am | Unknown | Unknown | 2.5% | 50 seconds dropping to 2.11% after 10 Minutes | Shearer cut into TG |
| 1. 05/04/2018
 | 1:16am | Unknown | Unknown | >2.5% | 54 Minutes | LW not cutting at time. Goaf well 11 changes flow and purity*Suggest significant goaf event some distance from face.**745m Retreat* |
| 1. 21/04/2018
 | 1:13am | Unknown | 2.53% | Unknown | 30 Seconds | Face at 1840m Shearer at #139 cutting into TGTG roof hanging 5 to 6m back then flushed to rear #149Goaf Well 17- 865l/sGoaf Well 18- 29l/s at 1850m |
| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 c/t("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 14/05/2018
 | 9:48pm | Unknown | 2.72% at 9:48pm3.22% at 12:07am3.61% at 12:39am | Unknown | 71 Seconds8 min 26 sec2 min 51 sec | Cavity LW faceTG roadway Goaf Flush level #149 Shearer opened airway |
| 1. 29/10/2018
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| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 18/03/2019
 | 2:34pm | Unknown | 2.57% | 2.71% (at 2:56pm) | 90 Minutes approximately | Shearer stopped At Chock #130Goaf Fall #149 |
| 1. 21/03/2019
 | 5:17am | Unknown | 2.62% | 2.85% (at 5:32am) | Unknown | Shearer stopped At Chock #129Stone Rilled #149 |
| 1. 05/04/2019
 | 3:30am | Unknown | 2.63% at 3:47pm | 2.68% at 4:01am | 90 Minutes Approximately | Stone Rilled #149Vent Change 04/04 to reduce CH4 in TGFace at 2600m |
| 1. 20/04/2019
 | 4:02am | Unknown | 2.63% | 2.86% | 1 Minute | Shearer stopped At Chock #126TG Chocks advanced |
| 1. 21/04/2019
 | 12:40pm | Unknown | 2.2% at 12:27 pm | 2.50% at 12:40 | 1 Minute | Shearer stopped At Chock #83 cut to #90 |
| 1. 21/04/2019
 | 3:07pm | Unknown | 2.29% at 3:05pm | 2.67% at 3:18pm | 53 Minutes | Shearer stopped At Chock #90No production occurring for 2hours |
| 1. 22/04/2019
 | 11:00pm | Unknown | 2.22% at 10:49pm | 2.55% | 5 Minutes | Cavity #119 -#127Shearer at #117 |
| 1. 22/04/2019
 | 11:44am | Unknown | 2.68% at 11:44 am (7minutes) | 2.97% at 11:57am | 33 minutes | Cavity #119 -#127Shearer near cavity outbye |
| 1. 24/04/2019
 | 3:25am | Unknown | 2.36% at 3:13am | 2.51% at 3:25am | 40 Sec | Shearer stopped At Chock #109 then at #145 |
| 1. 31/05/2019
 | 11: 48pm | Unknown | 4.46% | 5.47% at 12:03am | 8 Hours | Cavity #142 -#149Partial airway restriction |
| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 03/06/2019
 | 3:26am | Unknown | 4.46% at 4:10 am | 4.04% at 4:24am | 4 to 5 Hours | Cavity #142 -#149Partial airway restriction |
| 1. 05/06/2019
 | 8:03am | Unknown | 2.92% at 8:04am | 2.14% at 8:13am | Unknown | Cavity #142 -#149Partial airway restriction |
| 1. 05/06/2019
 | 8:47pm | Unknown | 2.97% at 9:55pm | 3.30% at 10:36pm | 5 Hours approximately | Cavity #142 -#149Partial airway restriction |
| 1. 12/06/2019
 | 3:02pm | Unknown | 2.35% at 2:54pm | 2.53% at 3:02pm | 3 Minutes | Shearer stopped At Chock #113Vent reduced 8m3/s less than D/S |
| 1. 15/06/2019
 | 3:31pm | Unknown | 2.07% at 3:20pm | 2.56% at 3:31 pm | 3 minutes | Shearer stopped At Chock #135 |
| 1. 22/06/2019
 | 3:15pm | 2% at 2:38pm | 2.72% at 3:10am for 7 minutes | 2.69% at 3:25pm for 9 Minutes | 9 Minutes | Cavity #148 -#149Shearer stopped At Chock #130 |
| 1. 02/07/2019
 | 2:27pm | Unknown | 2.36%  | 2.52% | Unknown | Shearer stopped At Chock #139 |
| 1. 03/07/2019
 | Unknown | Unknown | Unknown | Unknown | Over 1 hour | floor blower located at #55 roof support released approximately 2,463m3 after 1 hour |
| 1. 11/07/2019
 | 1:36am | Unknown | Unknown | .2.50% | Unknown |  |
| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 14/07/2019
 | 11:25am? | Unknown | 2.3% | 2.52% |  | Ventilation change implemented On 15 July to reverse ventilation direction Of perimeter completed - increasing quantity of air along LW face |
|  |  |  |  |  |  |  |
| 1. 15/07/2019
 | 1:49pm | Unknown | Unknown | 2.27% | Unknown | Control room operator noticed TG gas rising, LW contacted |
| 1. 21/07/2019
 | 1:05pm | Unknown | Unknown | 2.89% | Unknown | flushed in beside TG #149 causing temporary restrict |
| 1. 22/07/2019
 | 3:44pm | Unknown | Unknown | Unknown | Unknown | Cutting TG to MG, cavity formed on LW face from support #45 to #27. Methane spike in TG |
| 1. 23/07/2019
 | Unknown | Unknown | Unknown | Unknown | Unknown | Dealing with cavity at TG area of LW103, shearer cut out TG area and retreated All goaf drainage holes operating at peak capacity with producing gas as planned. |
| Date | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 c/t("Outbye Sensor") | Time over 2.5% | Factors mentioned |
| 1. 24/07/2019
 | 12:16pm | Unknown | Peak of 3.39% CH4 TG | Unknown | Unknown | At 12.15pm goaf fall took place.  |
| 1. 24/07/2019
 | 1:54pm | Unknown | 2.7% | 2.55% at 2:01pm | Unknown | LW advanced last four TG shields. Cavity above #145-#149 |
| 1. 17/08/2019
 | 3:29pm | Unknown | 2.2% | Unknown | Unknown | Initial cause of exceedance not clear; ventilation crew sealing 30m 0B |
| 1. 19/10/2019
 | 4:31pm | Unknown | Unknown | Unknown | Unknown | LW103 cutting MG to TG - shearer paused at #115 by automated CH4 control system |
| 1. 07/11/2019
 | 3:08am | Unknown | 2.56% | Unknown | Unknown | LW104 Cutting into TG shearer positioned at #140 |

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|  | Time ofExceedance | s243(a) Sensor ("149 Sensor") | Tailgate Sensor — 400m outbye("Inbye Sensor") | Tailgate Sensor — 34 cit("Outbye Sensor") |
| 18/03/2020 | 21:33 | 0.97% | 2.56% | 2.3% |
| 19/03/2020 | 06:50 | 0.94% | 3.01% |  |
| 20/03/2020 | 02:30 | 0.81% | 2.84% | 2.57% |
| 20/03/2020 | 03:30 | 0.85% | 2.55% | 2.1% |
| 20/03/2020 | 14:36 | 0.99% | 3.55% | 3.1% |
| 22/03/2020 | 22:22 | 1.08% | 2.54% | 2.54% |
| 23/03/2020 | 06:28 | 0.8% | 1.99% | 2.55% |
| 04/04/2020 | 02:22 | 2.97% | 1.34% | 1.87% |
| 06/04/2020 | 23:31 | 1.36% | 2.12% | 2Æ6% |
| 07/04/2020 | 14:21 | 1.1% | 2.04% | 2.52% |
| 21/04/2020 | 00:58 | 3.08% | 1.48% | 1.49% |
| 21/04/2020 | 01:54 | 2.55% | 1.66% | 1.49% |
| 21/04/2020 | 13:06 | 2.66% | 1.6% | 1.42% |
| 21/04/2020 | 23:06 | 5.04% | 1.47% | 1.38% |

TWO DISTINCT TYPES OF EVENTS.

THOSE IN YELLOW COMING FROM FACE or FLOOR. S243 Sensor in the Tailgate does not change

THOSE IN BLUE COMING AT TAILGATE END OF ROADWAY FROM GAS MIGRATION FROM GOAF. The 400m and Outbye Sensor quantities at no stage go near 2%.

21/04/2020. 5% Explosive