



Meeting Minutes		LW TG Level 2 General Body Methane Levels (≥ 2.50%)	
Date / Time	15/07/19 10:00 am		
Location	GM Conference Room		
Chairperson	Logan Mohr		
Attendees	Name	Initial	
UMM	Wouter Niehaus	WN	
Longwall Coordinator	Mick Copeland	MC	
Longwall Superintendent	John Agustin	JA	
Undermanager	Laurie Dixon	LD	
VO	Garth Zerner	GZ	
Ventilation and Gas Superintendent	Elisabeth Marnane	EM	
Ventilation Coordinator	Wes Sweet	WS	
Gas Monitoring Coordinator	Graham West	GW	
Technical Services Manager (Acting)	Logan Mohr	LM	
Apologies			
File Location	W:\Technical Services\Shared_LW103\11. IMT Minutes\TG Gas levels 2%\19_07_15 – IMT Meeting Minutes for TG103 CH4 Higher than 2.2 Percent.docx		
Minutes Taken / Updated by	Elisabeth Marnane		
Objective	Develop and implement strategies to assist in reducing the methane emissions in the TG roadway and the LW face to adequate levels to allow consistent longwall production in line with forecast.		

Description	
Summary Data	
<p>The following two events occurred over the weekend</p> <ul style="list-style-type: none"> At 16:06 hrs the 13/7/2019 TG CH4 at 3-4 ct went to 2.5%. The shearer was parked at #28 shield. The shearer has been stopped since 15:50. At 11:25 hrs on the 14/7/2019 TG CH4 exceedance at 2.51 % at the TG Sensor (37) 3-4 ct. The shearer was parked at #82 Shield CH4 reached 2.53% at 14:00 Hrs with falling barometer 	

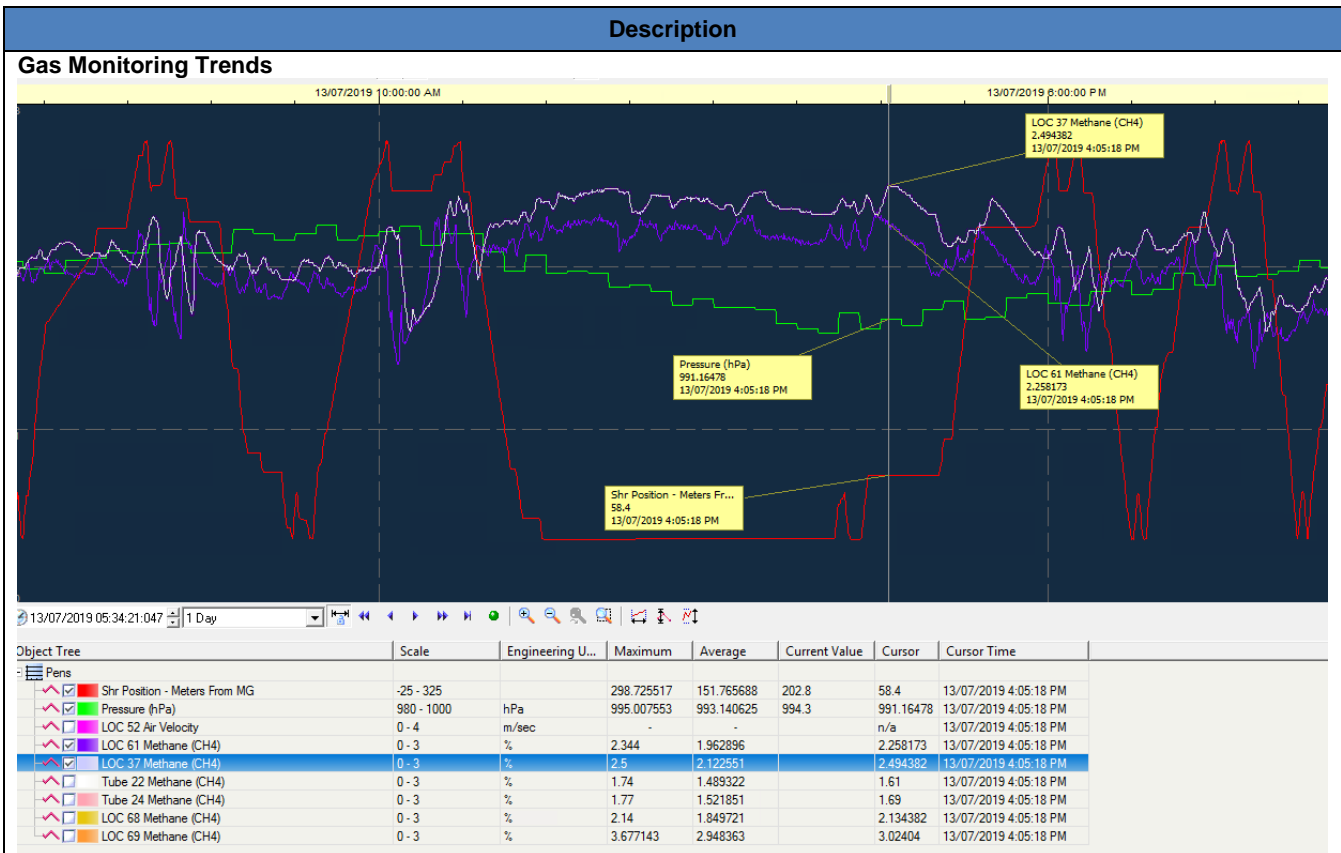


Figure 1 – Methane Trends TG103 Event 1 - 16:06 Hrs 13/7/2019

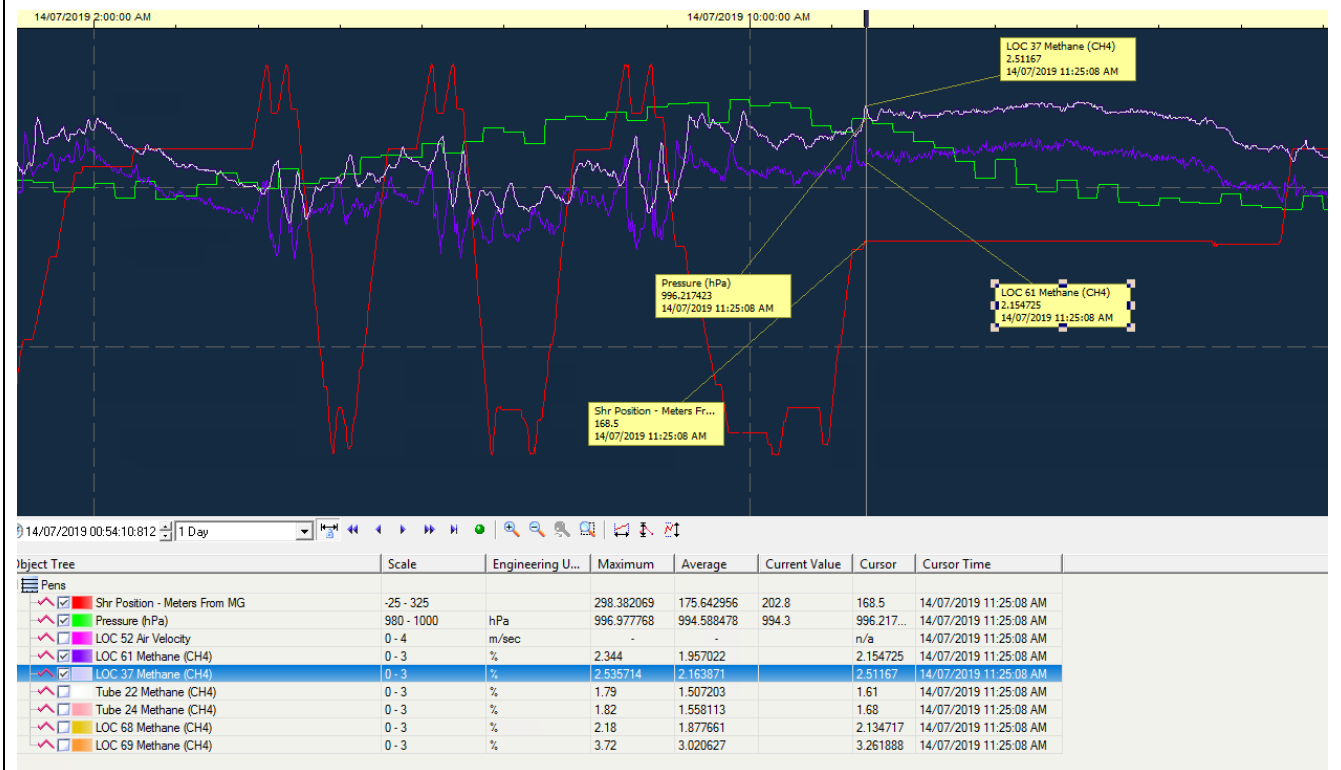


Figure 2 – Methane Trends TG103 Event 2 - 11:25 Hrs 14/7/2019



GROSVENOR COAL MINE

TEM-IMT Meeting Minutes for TG103 CH4 Higher than 2.5 Percent

Description

Goaf Plant

DATE	TIME	Static Pressure kPa (gauge)	Differential pressure kPa	Orifice ID mm	CO PPM	CH ₄ Vol %	O ₂ Vol %	CO ₂ Vol %	N ₂ Vol %	Total Flow L/s at STP	Methane Flow L/s at STP	VPS or Venting	Comments	LW Chainage mt.
ADJACENT GOAF LONGWALL 102														
15/07/2019	00:00:00	0.00	0.00	150	0.00	0.00	0.00	0.00	100.00	0	0	Shut in	GRO2V053 VIS11 Shut in as per auth	200
TOTALS										0	0			

GOAF LONGWALL 103														
15/07/2019	03:00:00	-13.75	2.33	150	0.00	88.00	2.30	0.40	9.30	799	661	VPS	GRO3L026 GMS10 Valve 100% open	3465
15/07/2019	03:15:00	-17.40	3.82	150	0.00	88.00	2.10	0.80	9.10	993	819	VPS	GRO3L001 GMS16 Valve 100% open	2528
15/07/2019	03:10:00	-21.55	1.51	150	0.00	80.00	3.40	0.60	16.00	599	448	VPS	GRO3L004 GMS03 Valve 100 % open	2378
15/07/2019	03:35:00	-13.44	1.81	150	4.00	63.00	4.20	1.20	31.60	654	388	VPS	GRO3L011 GMS-14 Valve 100% open	2028
15/07/2019	03:30:00	-13.58	2.53	150	11.00	42.00	5.10	2.20	50.70	727	287	VPS	GRO3L013 GMS-02 Valve 100% open	1928
15/07/2019	02:37:00	-11.51	3.64	150	6.00	70.00	4.60	0.60	24.80	951	627	VPS	GRO3L015 GMS-05 Valve 100% open	1828
15/07/2019	02:40:00	-14.20	1.20	150	23.00	54.00	5.70	0.80	39.50	519	264	VPS	GRO3L016 GMS-13 Valve 100% open	1778
15/07/2019	02:45:00	-14.12	1.11	150	26.00	55.00	5.20	0.80	39.00	501	259	Venturi	GRO3L016.2 GMS-15 Valve 100 % open	1778
15/07/2019	02:55:00	-13.71	1.81	150	17.00	60.00	6.30	0.80	32.90	648	365	VPS	GRO3L017 GMS-07 Valve 100% open	1728
15/07/2019	02:50:00	-14.09	1.81	150	13.00	57.00	7.00	0.80	35.20	641	343	Venturi	GRO3L017.2 GMS-09 Valve 100% open	1728
15/07/2019	02:55:00	-13.80	2.22	150	0.00	90.00	2.30	0.80	6.90	784	663	VPS	GRO3V053 GMS-11 Valve 100% open	1727
TOTALS										7816	5125			

Gas Monitoring

CH4 (A) **0.31 %**

CH4 (B) **0.31 %**

MG CO **0.9 ppm**

CO2 **0.10 %**

O2 **20.4 %**

TG CH4 (A) **1.13 %**

CH4 (B) **1.16 %**

SHR CH4 (A) **0.40 %**

CH4 (B) **0.51 %**

Dogleg CH4 **2.02 %**

TG Inbye CH4 **1.95 %**

Slow Down Stopped

76 mins 484 mins

12hr avg diff: OB - IB CH4 **0.20 %**

6hr max CH4 rise 30 - MG **0.08 %** 115 - TG **0.36 %**

Dogleg **0.08 %** **0.36 %**

TG Inbye **0.15 %** **0.40 %**

PRS 30 **2.05 %** PRS115 **1.80 %**

BYPASS SHR TG CH4 STOP

LONGWALL CHAINAGE		
Maingate	1659.1	
Tailgate	1659.1	
Borehole	Chainage	Metres Past
GRO3L026	3465	1805.9
GRO3L016	1778	118.9
GRO3L017	1728	68.9
GRO3L018	1678	18.9
LONGWALL METRES TO NEXT HOLE		
Borehole	Chainage	Metres To
GRO3L019	1628	31.1
GRO3L020	1578	81.1

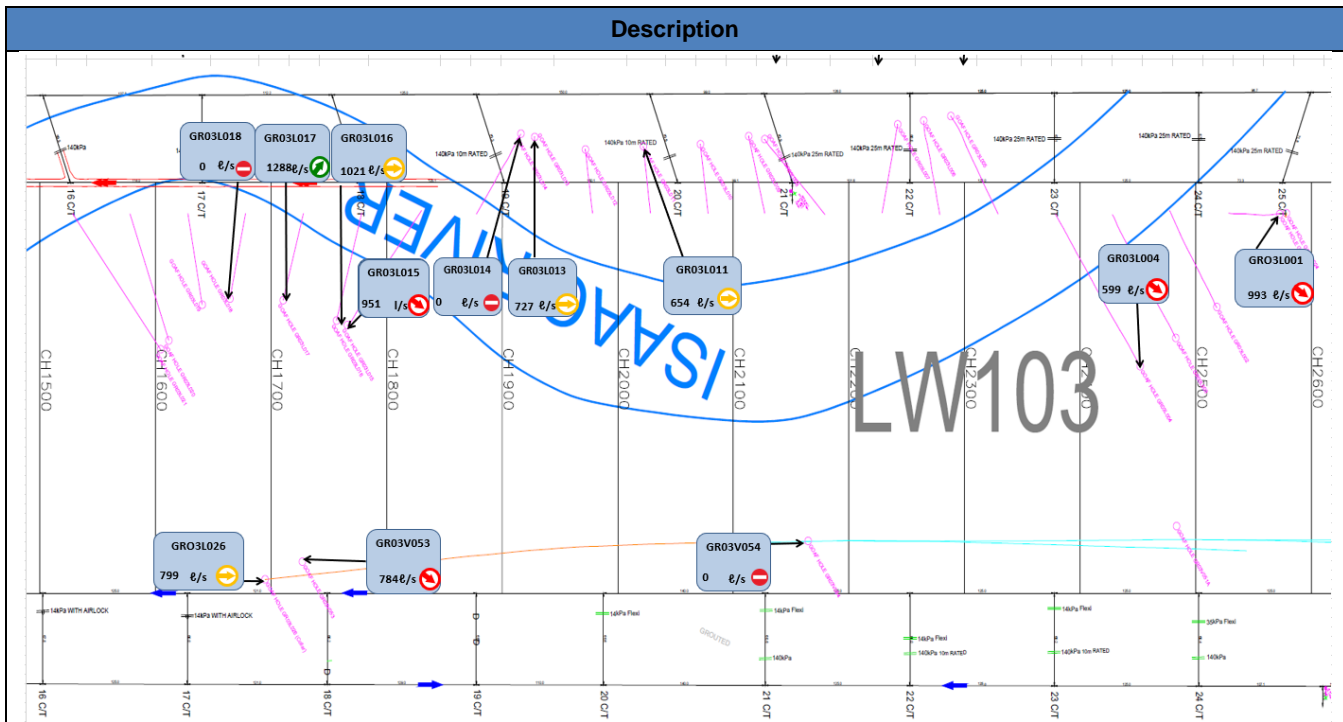


Figure 3 – Most recent Goaf Shift Report 15/7/2019 5:46 am

Goaf Drainage Update

- Goaf holes within 150m of face producing 3093 l/s of goaf gas (including MG hole)
- LW has retreated 21m past GR03L018 with no flow observed
- Water flush of GR03L018 today
- Goaf drainage plant current running 90% capacity with 8500 Standard l/s
- GR03L017.2 currently on venturi
- MG vertical GRO3V053 at 1725m chainage currently flowing at 784 l/s
- Drilling Mid panel Goaf hole GR03V055 at 1522m chainage (97m from MG rib line) will be completed today

Observations

- N/A

Short Term Ventilation Strategy

- Model, plan and execute the perimeter road ventilation reversal to lower CH4 levels entering the MG
- Maintain face ventilation quantity (review post vent change to minimise changing too many variables)
- Vent change planned for today 15/7/2019

Short Term Goaf Drainage Strategy

- GR03V055 – Targeted Ch1530 90m from MG (additional infill hole)
- GR03V053 – Expected to come online at Ch1690 (P seam MG)
- GR03V056 – to be scoped and designed for ~Ch1100
- Review gas compliance cores for GM and P Seams for remainder of LW103

Long Term Goaf Drainage Strategy

- Install 6th LRP at Gas Plant
- Purchase and install blowers
- All SIS gas currently plumbed to Arrow
- UIS currently 8% of gas plant capacity. Purity of UIS will result in disconnections from Arrow if below 94% CH4. (UIS to Arrow not ideal)

GRO-10326-TEM-IMT Meeting Minutes for TG103 CH4 Higher than 2.2 Percent	Original Issue Date:	Version:	1	Printed: 15/07/2019 Page 4 of 7
	14/03/2019	Date of Issue:	14/03/2019	
PRINTED COPIES OF THIS DOCUMENT ARE UNCONTROLLED AND DEEMED VALID ONLY ON THE DAY OF PRINTING				



Description	
<ul style="list-style-type: none"> • Venting restricted emergency situations only • Identify potential goaf gas sources and areas for LW104. • Complete review of SGE model against actuals • Increase SGE resolution to identify areas with predicted higher goaf gas. <p>Long Term Ventilation Strategy</p> <ul style="list-style-type: none"> • Commission MG103 41c/t shaft to exhaust for LW104 start-up • Seal LW101,102,103 perimeter road 	
Next Meeting date / Time	

Actions from IMT Meeting		
Action	Who	When
Review the impact of ventilation change on work areas adjacent to change area (complete change management for vent reversal)	G. Zerner	8/7/19
Setup CITECT to show newly installed TG IR sensor	G. West	Complete
Complete change management and trial preliminary design for baffle and moisture reduction unit for current CH4 sensors	G. West	18/7/19
Complete modelling and develop implementation plan for the ventilation reversal in the LW101-103 perimeter road. (Aim to maintain current face ventilation as part of change)	G. Zerner	9/7/19
Develop scope and design for an infill goaf hole targeting Ch1100.	B. Mulcahy	Complete
Review gas compliance cores for remainder of LW103	R. Kostowski	Complete
Source and install 6 th liquid ring pump	C. Badenhorst	20/11/19
Source and install 4x blower skids	C. Badenhorst	15/09/19
Develop formal process to restrict venting gas to emergency situations only.	C. Badenhorst	18/7/19
Complete review of SGE Model vs Actuals	R. Packham	28/7/19
Review SGE model and data to identify areas of potential increased gas make.	R. Packham	28/7/19
115 to Tg Make Shearer speed to be set at 6m/min	M. Burgess	5/7/19
Ensure shearer speed from 60 shield to 115 is reduced to 8m/min manually while Inbye shearer speed sensor is greater than 1.8% CH4 is communicated to the LW crews	M. Burgess	Complete
Develop trend to all sensors installed at 3-4ct tg103 and include tube values for comparison	G. Zerner	8/7/19
Source and install water mister to control dust in belt road when roadway is transferred to antitropal inbye of 10ct tripper.	M. Burgess	Complete
Review location of floor blowers in LW102 and identify if there is any correlation to the LW103 event.	S Giese	19/7/2019

GRO-10326-TEM-IMT Meeting Minutes for TG103 CH4 Higher than 2.2 Percent	Original Issue Date:	Version:	1	Printed: 15/07/2019 Page 5 of 7
	14/03/2019	Date of Issue:	14/03/2019	
PRINTED COPIES OF THIS DOCUMENT ARE UNCONTROLLED AND DEEMED VALID ONLY ON THE DAY OF PRINTING				



GROSVENOR COAL MINE

TEM-IMT Meeting Minutes for TG103 CH4 Higher than 2.5 Percent

Check the that the CITECT calculation "6 hour max CH4 rise" is calculated as a 6 hour rolling average and not a max peak over 6 hours. Amend if required	M. Wakeford	14/7//2019
Identify strategy moving forward to allow the weekly change out of gas sensors monitoring the TG roadway inbye and outbye sensors.	G. West	18/7/*2019

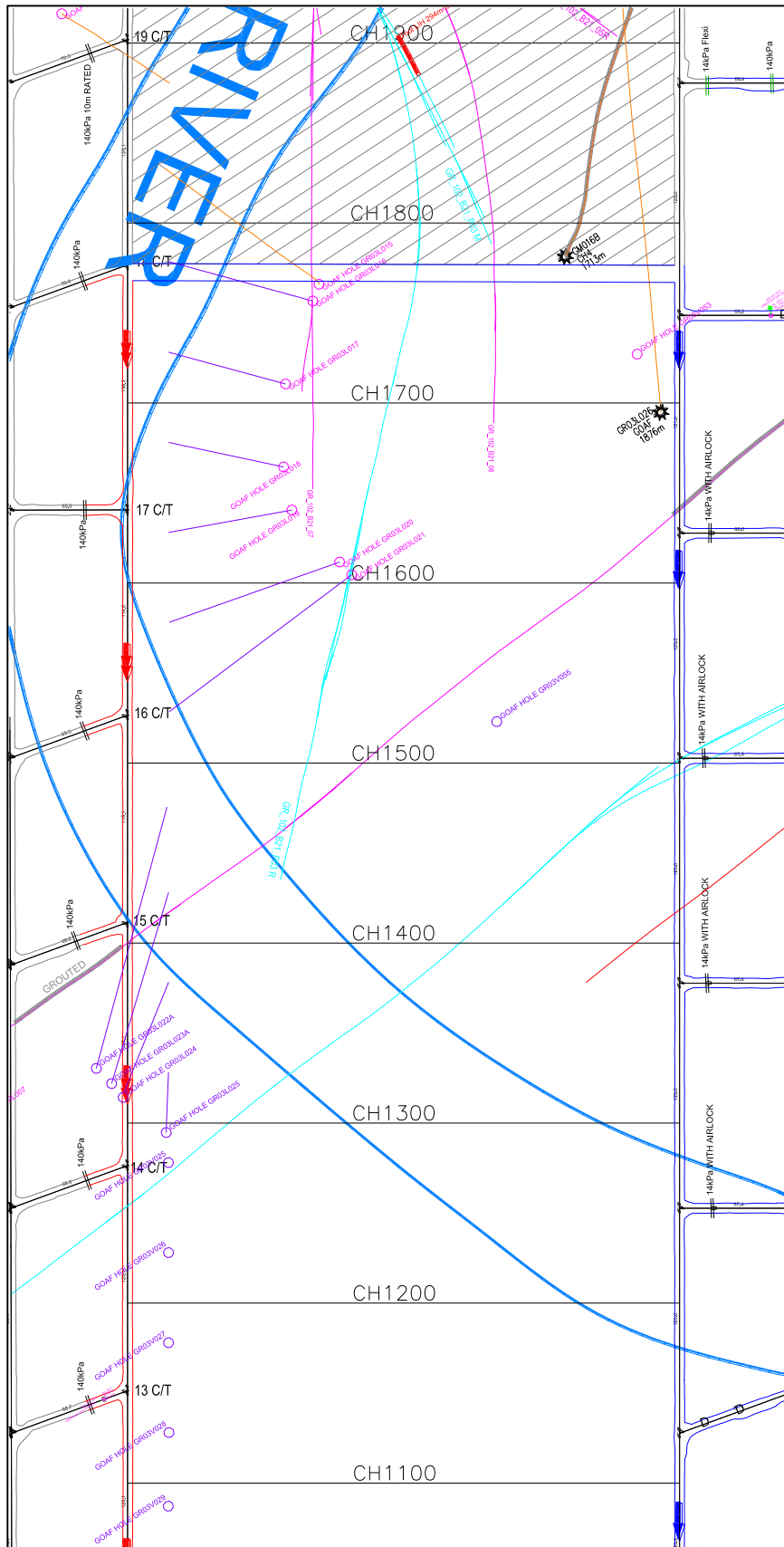


Figure 3 - Plan View of Goaf Holes

GRO-10326-TEM-IMT Meeting Minutes for TG103 CH4 Higher than 2.2 Percent	Original Issue Date:	Version:	1	Printed: 15/07/2019 Page 7 of 7
	14/03/2019	Date of Issue:	14/03/2019	
PRINTED COPIES OF THIS DOCUMENT ARE UNCONTROLLED AND DEEMED VALID ONLY ON THE DAY OF PRINTING				