

## Perimeter Wells GA2000+ / Readings and Comments - Bryn Posteg 18<sup>th</sup>/19<sup>th</sup> April 2018

Monitor ID	Date Taken	CH4 %	CO2 %	O2 %	Balance	Diff mBar	CO ppm	H2S ppm	Comments
DAY 1									
GUP Sample Point	18/04/18	50.1	33.6	3	13.4	-33.4	9	283	Gas Utilisation Plant - sample point. Oxygen levels are too high. Gas field infrastructure sealing should be investigated including well seals. GAS FLOW- 900m3/hr
1	18/04/18	0.1	1.9	18.8	79.2	+0.54	0	0	First perimeter monitoring borehole next to entrance sign. This well is bunged and not properly sealed. The well head should be replaced with sealed screw top well head as present on other perimeter wells.
2	18/04/18	3.0	1.2	18.6	77.3	+0.22	0	0	Next borehole along sequentially. Some methane intrusion but no advection
3	18/04/18	0.0	0.0	20.6	79.3	-1.91	0	0	This well is bunged and not properly sealed. The well head should be replaced with sealed screw top well head as present on other perimeter wells.
4	18/04/18	0.0	0.0	20.6	79.4	-1.48	0	0	Well closest to waste adjacent to weighbridge has historically high levels of methane, no methane was recorded on the day.
5	18/04/18	0.1	0.8	19.8	79.3	0	0	0	This well is bunged and not properly sealed. The well head should be replaced with sealed screw top well head as present on other perimeter wells.
6	18/04/18	0	0	20.7	79.2	0	0	0	This well is bunged and not properly sealed. The well head should be replaced with sealed screw top well head as present on other perimeter wells.
7-G39	18/04/18	0.1	0.1	20.5	79.3	-0.09	0	0	This well is bunged and not properly sealed. The well head should be replaced with sealed screw top well head as present on other perimeter wells.
8-G32	18/04/18	0.0	0.0	20.7	79.2	-0.13	0	0	
9	18/04/18	0.0	1.6	19	79.3	-0.15	0	0	This well is bunged and not properly sealed. The well head should be replaced with sealed screw top well head as present on other perimeter wells.
10-G20	18/04/18	0.0	0.0	20.9	79	-0.22	0	0	Bailing tool left permanently in well – Unable to seal due to rope attached to bailing tool. This must be removed in between sampling runs and the well re-sealed.
DAY 2									
12-GUP Sample Point – Day 2	19/04/18	44.5	31.2	4	20	-56.68	9	234	The gas extraction field pressure was increased overnight from -33.4mb to -56.68mb resulting in an increase in oxygen but a more marked increase in balance gas. Methane quality reduced from 50.1% to 44.5%. Careful attention should be paid to the requirements of gas control and over extraction in the field. This must also be balanced with gas production, migration, air ingress and well sealing across the site. GAS FLOW 1120m3/hr

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