



Borehole Gas Monitoring Results

(To: NHBH Guidance on Methane and Carbon Dioxide, Report No. 04, March 2007)

Job Details

Site: Weymouth Garage	Job Number: J0854
Client: Shellco	Date: 01 August 2007
Engineer: Ashgill Associates	Weather / Temperature: Cloudy with Sunny Intervals / 16°C

Gas Monitor

Model: GA2000+ Infrared Gas Analyser & Flow Pod.	Serial Number: GA10030
Calibration: 15 February 2007	Certificate Number: 1071
Resolution: 0.1% (CH ₄ , CO ₂ , O ₂) 1ppm (CO, H ₂ S)	Adjustments: Zero flow rate & relative pressure

Photoionisation Detector

Model: PhoCheck 1000+	Serial Number: 07-01478
Calibration: 01 June 2007	Certificate Number: 26694IC
Resolution: 0.1% Range: 0.1 to 4000 ppm	Adjustments: Zero reading

Steady State Readings

Borehole	Background	1	2	3	4			
Flow Rate (litres/min)	0.0	0.0	0.0	1.5	0.8			
Relative (Borehole) Pressure (mbar)	0.00	0.01	0.00	2.34	1.78			
Barometric Pressure (mbar)	1002	1002	1002	1002	1002			
Methane – CH₄ (%)	Peak	0.0	0.0	0.2	2.4	1.8		
	Steady State	0.0	0.0	0.1	2.2	1.8		
Carbon Dioxide -CO₂ (%)	Peak	0.0	2.1	3.8	2.8	2.2		
	Steady State	0.0	1.8	3.7	2.8	2.2		
Oxygen - O₂ (%)	Peak	20.7	18.8	16.8	15.1	16.5		
	Steady State	20.7	18.8	16.8	15.1	16.5		
Balance Gases (%)	79.3	79.5	79.4	79.1	79.0			
Carbon Monoxide – CO (ppm)	0	2	2	3	2			
Hydrogen Sulphide (H₂S)	0	0	1	0	0			
PID VoC (ppm)	0	8.0	14.0	645	237			
Water Level (m BGL)	N/A	3.78	3.68	3.54	3.55			

Comments: