

**Table 1. COAL MINE GAS PREDICTOR (CMGP) - INPUT DATA SHEET**  
**Metric or imperial units**

<b>Data description</b>	<b>Metric units</b>		<b>Imperial units</b>	
Mine name	-		-	
Longwall name/number	-		-	
Worked seam name	-		-	
Bore number/location	-		-	
Longwall face length [maingate to tailgate]	m		ft	
Worked seam thickness [cut coal hight]	m		ft	
Weekly coal production [average & peak]	tonnes		tons-short	
Daily coal production [average & peak]	tonnes		tons-short	
Worked days per week (weekly coal extracted hours/24)	days		days	
Worked seam in situ gas content	m <sup>3</sup> gas/tonne		scf/ton	
CH4 concentration in mine gas	%		%	
Other gas components in mine gas	%		%	
Basic or advanced simulation (B/A)	B/A		B/A	
In seam pre-drainage efficiency	%		%	
Post-drainage system efficiency = [100*(gas drainage/ventilation+gas drainage)]	%		%	
Gas drainage vacuum	mmHg		inch Hg	
Contribution of free gas from porous rocks and old workings	%		%	
Ventilation disturbances & sudden barometric pressure changes maximum coefficient	-		-	
Ventilation disturbances & sudden barometric pressure changes average coefficient	-		-	
Maximum methane thresholds (in longwall return) %	%		%	
Minimum methane thresholds (in longwall return) %	%		%	
Other gas threshold %	%		%	
Longwall current methane make	m <sup>3</sup> CH <sub>4</sub> /min		scfm	
Total mine current methane make (ventilation+gas drainage)	m <sup>3</sup> CH <sub>4</sub> /min		scfm	

**Table 2. COAL MINE GAS PREDICTOR (CMGP) - COAL SEAMS**  
Metric or imperial units

Units	Coal seam name/number	In situ gas content (d.a.f.)		Coal seam thickness [coal only]		Distance from worked seam		Comments
		m <sup>3</sup> gas/tonne	scf/t	m	ft	m	ft	
								ROOF STRATA COAL SEAMS (100m or 656 ft above worked seam)
14								
13								
12								
11								
10								
9								
8								
7								
6								
5								
4								
3								
2								
1								
<b>WS</b>						<b>0</b>	<b>0</b>	<b>Worked Seam</b>
1								FLOOR STRATA COAL SEAMS (200m or 328 ft below worked seam)
2								
3								
4								
5								
6								