### Analysis of Air Samples

**Mine:** UPPER BIG BRANCH MINE SOUTH  
**Company:** PERFORMANCE COAL COMPANY  
**Mine ID:** 4608436  
**Date(s) Collected:** 07/24/2007  
**Inspector:** [Redacted]  
**Office:** 401

<table>
<thead>
<tr>
<th>BOTTLE NUMBER</th>
<th>LOCATION IN MINE</th>
<th>CARBON DIOXIDE</th>
<th>OXYGEN</th>
<th>METHANE</th>
<th>ETHANE</th>
<th>CUBIC FEET AIR PER MINUTE</th>
<th>CUBIC FEET METHANE IN 24 HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>R6710</td>
<td>NORTH MAINS RETURN - BREAK 74</td>
<td>0.100</td>
<td>20.76</td>
<td>0.700</td>
<td>0.000</td>
<td>23400</td>
<td>235872</td>
</tr>
<tr>
<td>S2572</td>
<td>NO. 2 SECTION - IMMEDIATE RETURN - NO. 7 ENTRY</td>
<td>0.060</td>
<td>20.91</td>
<td>0.030</td>
<td>0.000</td>
<td>16146</td>
<td>6975</td>
</tr>
</tbody>
</table>

The percentage of nitrogen can be determined by subtracting the sum of the reported values from 100.00.

Rec. 07/24/2007
Date 7-24-07

Traveled night return from sector (parallel to SS 215.63) to SS 21319 (north of sector)

DTG F
20.8 0.0

Traveled No. 1, 2, 3 belts 20.8 0.0

Traveled with Bill
Harley More
Foreman

Closed with Rick

Inspector's Initials

Supervisor's Initials and Date