**瓦斯含量测定实验报告单**

矿井名称：贵州

取样地点：理工学院

取样时间：2025-05-26 埋深：456 m 煤层：M43煤层

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 基  本  信  息 | 煤样编号： | | | | | | | | | | 2025 | | | | | | | | | 井下大气压力（KPa）： | | | | | | | | | | 105 | | | | | | |
| 实验室大气压力（KPa）： | | | | | | | | | | 101 | | | | | | | | | 井下环境温度(℃)： | | | | | | | | | | 33 | | | | | | |
| 实验室温度(℃)： | | | | | | | | | | 27 | | | | | | | | | 煤样重量（g）： | | | | | | | | | | 105 | | | | | | |
| 取样方式： | | | | | | | | | | 定点风排渣 | | | | | | | | | 煤样水分（%）： | | | | | | | | | | 1.4 | | | | | | |
| 原煤水分（%）： | | | | | | | | | | 4.2 | | | | | | | | | 量管初始体积（ml）： | | | | | | | | | | 194 | | | | | | |
| W1  井下解吸数据(ml) | 时间 | | 解吸量 | | | 时间 | | 解吸量 | | | | 时间 | | 解吸量 | | | | 时间 | | | 解吸量 | | | 井下取样损失量拟合：    损失瓦斯量（ml） 解吸瓦斯量（ml） | | | | | | | | | | |
| 1 | | **1** | | | 16 | |  | | | | 32 | |  | | | | 65 | | |  | | |
| 2 | | **122** | | | 17 | |  | | | | 34 | |  | | | | 70 | | |  | | |
| 3 | | **133** | | | 18 | |  | | | | 36 | |  | | | | 75 | | |  | | |
| 4 | | **144** | | | 19 | |  | | | | 38 | |  | | | | 80 | | |  | | |
| 5 | | **155** | | | 20 | |  | | | | 40 | |  | | | | 85 | | |  | | |
| 6 | | **160** | | | 21 | |  | | | | 42 | |  | | | | 90 | | |  | | |
| 7 | | **170** | | | 22 | |  | | | | 44 | |  | | | | 95 | | |  | | |
| 8 | | **180** | | | 23 | |  | | | | 46 | |  | | | | 100 | | |  | | |
| 9 | | **190** | | | 24 | |  | | | | 48 | |  | | | | 105 | | |  | | |
| 10 | | **210** | | | 25 | |  | | | | 50 | |  | | | | 110 | | |  | | |
| 11 | |  | | | 26 | |  | | | | 52 | |  | | | | 115 | | |  | | |
| 12 | |  | | | 27 | |  | | | | 54 | |  | | | | 120 | | |  | | |
| 13 | |  | | | 28 | |  | | | | 56 | |  | | | | 125 | | |  | | |
| 14 | |  | | | 29 | |  | | | | 58 | |  | | | | 130 | | |  | | |
| 15 | |  | | | 30 | |  | | | | 60 | |  | | | | 135 | | |  | | |
| 时间单位：(min) 井下解吸量W11(ml)：16 瓦斯损失量W12(ml)：90.509 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W2 | 实验室常压解吸W2(ml) | | | | | | | | | | 6 | | | | | | | | |  | | | | | | | | | |  | | | | | | |
| W3 | 粉碎后第1份煤样重(g) | | | | | | | | | | 1 | | | | | | | | | 第1份煤样解吸量(ml) | | | | | | | | | | 3 | | | | | | |
| 粉碎后第2份煤样重(g) | | | | | | | | | | 2 | | | | | | | | | 第2份煤样解吸量(ml) | | | | | | | | | | 12 | | | | | | |
| Wc | 煤的吸附常数*a*值 | | | | | | | | | 1 | | | | | | 水分Mad/% | | | | | | | 3 | | | | 孔隙率K/% | | | | | 5 | | | | |
| 煤的吸附常数*b*值 | | | | | | | | | 2 | | | | | | 灰分Aad/% | | | | | | | 4 | | | | 视密度γ | | | | | 6 | | | | |
| 不可解吸瓦斯量Wc | | | | | | | | | 0.0886 | | | | | | 挥发分Vad/% | | | | | | | 0 | | | |  | | | | |  | | | | |
| 自然瓦斯成分(%) | | CH4 | | |  | | | | CO2 | | | |  | | | | N2 | | | | |  | | | O2 | | |  | | | C2H4 | | |  | |
| C3H8 | | |  | | | | C2H6 | | | |  | | | | C3H6 | | | | |  | | | C2H2 | | |  | | | CO | | |  | |
| 实验结果 | W1(m³/t ) | | | 1.0144 | | | | | | | W2(m³/t ) | | | | 0.0571 | | | | | W3(m³/t ) | | | | | | 6.0000 | | | | Wa(m³/t ) | | | 7.0715 | | |
| Wc(m³/t ) | | | 0.0886 | | | | | | | W(m³/t ) | | | | 7.1601 | | | | | P(MPa) | | | | | | 80.0748 | | | |  | | |  | | |
| W1-井下解吸与损失量；W2-实验室常压解吸量；W3-密封粉碎解吸量；Wa-可解吸瓦斯量；Wc-不可解吸瓦斯量；W-瓦斯含量；P-瓦斯压力。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 井下测试人员： | | | | | | |  | | | | | | | | | | | | 实验室测试人员： | | | | | | | | | |  | | | | | | | |
| 审 核 人 员： | | | | | | |  | | | | | | | | | | | | 出 报 告 时 间： | | | | | | | | | |  | | | | | | | |
| 备注：测试煤样由贵州省煤安技术服务有限公司技术人员现场采集并送达，实验室基于来样进行测试。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |