

### COAL ANALYSES.

|                                  |              |              |              |              |
|----------------------------------|--------------|--------------|--------------|--------------|
| Laboratory No. of Samples .....  | No. 6395     | No. 6396     | No. 6397     | No. 6398     |
| Marks on samples.....            | No. 1        | No. 2        | No. 3        | No. 4        |
| Moisture.....                    | 2.03 p.c.    | 3.09 p.c.    | 2.40 p.c.    | 3.16 p.c.    |
| Volatile combustible matter..... | 36.70        | 36.65        | 37.73        | 37.35        |
| Fixed carbon .....               | 56.78        | 53.95        | 49.82        | 48.54        |
| Ash.....                         | 4.49         | 6.31         | 10.05        | 10.95        |
|                                  | <hr/> 100.00 | <hr/> 100.00 | <hr/> 100.00 | <hr/> 100.00 |
| Sulphur.....                     | 0.57         | 0.605        | 0.84         | 1.09         |

  

|                                                       |        |             |        |        |
|-------------------------------------------------------|--------|-------------|--------|--------|
| Color of Ash .....                                    | White  | Light brown | White  | Grey   |
| Nature of flame during coking.....                    | Bright | Bright      | Bright | Bright |
| Absolute heating value in terms of thermal units..... | 13.246 | 12.564      | 12.022 | 11.650 |
| Per cent. of coke.....                                | 61.27  | 60.16       | 59.87  | 59.49  |

Nature of cokes: All cokes were bright, hard, firm, and of excellent quality.

### REMARKS.

You will observe that the sulphur is low in all cases, and very low in samples 1 and 2, and comparatively low in No 3. In samples 1 and 2 the ash is very satisfactory. You will observe that the ash is in all cases light colored; in 1 and 2 it is even white. You will probably find no tendency for the ash in any of these coals to form clinker. In coking there was a copious amount of very bright flame which was not very smoky, and as stated, the cokes as obtained in laboratory tests all had a bright steel gray metallic lustre, and were firm, very hard, and of excellent quality. The heating value of these coals, particularly of

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