

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine RPEE 2023

PROJECT NUMBER: M23044MT

DATE: June 22, 2023

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: SZ

CLIENT: Mountain Coal Company

NUCLEAR GAUGE USED: 14

| TEST NO. | APPROXIMATE TEST LOCATION | DEPTH OR ELEVATION | PROBE DEPTH (IN) | LABORATORY PROCTOR DENSITY (PCF) | OPTIMUM MOISTURE CONTENT (%) | DRY DENSITY (PCF) | MOISTURE CONTENT (%) | RELATIVE COMPACTION (%) | SOIL TYPE |
|----------|---------------------------|--------------------|------------------|----------------------------------|------------------------------|-------------------|----------------------|-------------------------|-----------------|
| 25 | RPEE #1 NW Entrance area | | 6 | 97.0 | 13.5 | 85.7 | 18.6 | 88 | Coal Gob, Black |
| 26 | RPEE #2 Middle SW area | | 6 | 97.0 | 13.5 | 88.8 | 15.8 | 92 | Coal Gob, Black |
| 27 | RPEE #3 W Trench | | 6 | 97.0 | 13.5 | 86.3 | 16.2 | 89 | Coal Gob, Black |
| 28 | RPEE #4 SE | | 6 | 97.0 | 13.5 | 84.7 | 16.9 | 87 | Coal Gob, Black |
| 29 | RPEE #5 Middle E | | 6 | 97.0 | 13.5 | 86.8 | 16.7 | 89 | Coal Gob, Black |
| 30 | RPEE #6 NE | | 6 | 97.0 | 13.5 | 85.4 | 12.8 | 88 | Coal Gob, Black |

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

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