CYIENT
Nothing Less

Turning Geoscience Records into Mining Intelligence

Digitizing decades of subsurface data to accelerate planning, improve accuracy, and reduce decision-making effort



Customer challenge

An Australian coal mining operator needed to bring decades of geoscience records into a unified, searchable, and trusted data foundation. Critical planning information—including drill-hole logs, lithology details, coal-quality data, and washability records—was scattered across scanned reports, handwritten notes, legacy systems, and multiple formats.

The fragmented records made it difficult for planning teams to retrieve accurate subsurface information, analyze it quickly, or use it with confidence. The customer needed to digitize, structure, and consolidate historical data without losing fidelity, duplicating records, or extending manual effort.

The Cyient solution

Cyient deployed a central geoscience data-management system that used AI, OCR, GIS, and CylExtract deduplication to convert legacy mining records into a structured digital asset. The solution unified drill-hole information, lithology, coal-quality data, and washability details into one source of truth for faster and more reliable planning decisions.

- AI-driven extraction and OCR converted scanned and handwritten content into structured, searchable data.
- CylExtract removed duplication across historical records, strengthening data consistency and trust.
- GIS integration connected geoscience information with spatial context, enabling faster analysis for planning teams.

Business impact

Cyient helped the mining operator transform legacy geoscience data into a trusted planning intelligence foundation. Teams gained faster access to accurate subsurface information, reduced manual processing, and improved confidence in mine-planning decisions.

11,000+ documents digitized

2.4 million records processed

95% data-extraction accuracy achieved

50% reduction in planning cost with **60%** lower manual effort

Engineering excellence. Nothing Less.

For mining operators, decades of historical data can either remain buried in archives or become a sharper foundation for every planning decision. By turning fragmented records into trusted intelligence, Cyient helped make legacy data easier to access, analyze, and act on.

Ready to turn everyday mining decisions into measurable financial value?

Speak with our experts, today.



Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.

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