



**Experienced Principal Geologist**  
Validation | Modelling | Design

Cheryl has over 25 years' experience working in the coal mining industry in various roles across the Sydney Basin in NSW. She has also worked on both open cut and underground deposits in the Collie Basin, Galilee Basin, Bowen Basin and Gloucester Basin completing both geological modelling, mine design and optimisation. Cheryl has recently travelled internationally to South America to complete JORC Resource and Reserve Audits in a complex multi seam deposit. She has extensive Minex experience in geological modelling of complex geological deposits and has been responsible for resource risk assessment, exploration planning and justification, JORC Resource reporting, short-term coal quality scheduling and incorporation of in pit structural mapping into geological models.

Cheryl has developed extensive experience in interpreting complex coal bearing deposits and generating 3D models. She has strength in data management and analysis (coal quality information) for resource evaluation. She has also developed exceptional client and stakeholders skills and her mature approach engages a diverse range of clients. These skills have seen her achieve operational values and business objectives.

Cheryl is a qualified competent person under the JORC code and is a member of the executive on the Coalfield Geology Council of NSW.

**Expertise**

- **Exploration:** Development and justification of exploration plans to meet both short term mine planning and JORC requirements;
- **Resource Assessment & Reporting:** Geological modelling of complex geological deposits, coal quality and resource assessment for use in short and long term mine planning. Resource reporting in accordance with the JORC Code;
- **Structural Geology:** Extensive experience in interpreting complex coal bearing deposits and generating 3D models of steep dips, folding, complex multi-phase faulting, thrusting and lateral and vertical intrusions for use in both short term and long term mine planning;
- **Coal Quality Modelling:** Experience in the use of the Minex Washability Database to ensure all coal quality data can be modelled if required. Strong attention to detail to ensure coal quality data sets are validated and robust;
- **Relationship Management:** Ability to effectively communicate with all stakeholders to ensure successful outcomes are achieved;
- **Mine Design:** Experience in final landform design, conceptual mine design, generating reserves and target scheduling;
- **Software Proficiency:** Minex, acQire, Mapinfo and Microsoft Suite. Working knowledge of Deswik and Carlson Geofluc.

**Career Highlights**

- **Xenith Consulting:** Created complex geological modelling for Bounty Mining. Developed pit optimisation to support PFS studies. Created a concept study mine design at Stratford and West Pentland. Travelling internationally to complete JORC Resource and Reserves Audits. Working on multiple projects concurrently and switching between those projects efficiently.
- **Drayton Mine:** Being the only site-based Competent Person & Resource Geologist for one of Anglo Americans Australian coal assets gave Cheryl the unique perspective of catering for both short and long term mine planning needs. Improving the accuracy of the geological model by incorporating in pit, geophysically logged production holes to aid in the correlation of complex seam splitting and the interpretation of faulting that occurs within the Greta Coal measures. Managing multiple geological and short term planning tasks with limited staff throughout mine closure.

**Professional Experience**

Principal Geologist	2018 - Current	Xenith Consulting Pty Ltd
Senior Geologist	2016 - 2018	Xenith
Resource & Database Geologist	2007 - 2016	Anglo American Coal Drayton Mine
Contract Geologist	2000 – 2007	Peter Eason Survey & Mining/Pegasus