



Jacob Thomas

Graduate Geologist

BSc (Earth Sciences)
MAusIMM



With a career in geology since 2016, Jacob has experience in exploration projects, market research, and feasibility studies. This experience relates to surficial and penetrative exploration (planning, execution and interpretation), resource and legislative forecasting, and mine planning and design. Jacob has worked on a variety of mining projects providing him with varied and valuable geological expertise to meet the challenges of providing strategic and technical support to resource companies.

Expertise

- **Exploration:** Execution of surveys (XRF, DGPR, and seismic), core and LOX drilling. Liaising with clients & surveyors.
- **Mine Design:** Creating interim and final designs for haul roads, OEAs, and landforms. Generation of pit optimisations and geofluvially-stable rehabilitated landscapes.
- **Geomodelling:** Generation of cross- and long-sections, borehole correlations, and sub- and outcrops. Spatial analysis of coal quality, structure, and economics.
- **GIS:** Creating borehole, hazard, infrastructure, and land-use maps.
- **Market forecasting:** Undertaking a desktop study of coal demand up to 2050 and the possible changes in legislation that effect life of mine planning and approval rates.
- **Software Proficiency:** CoalLog, Geoflucv (Natural Landform Design), Minex, ArcGIS, ENVI, Surfer 10 and Microsoft Office Suite.

Career Highlights

- **GRS Consulting:** daily activities of research and planning exploration, core logging and preparation, data collection and entry, and liaising with clients and surveyors.
- **GPPH:** 3D & 2D modelling of deposits and landforms, mine designs and topography, drafting & associated GIS.
- **Ultramag Geophysics:** deep ground penetrating radar surveys for civil works and opal exploration.

Professional Experience

Graduate Geologist	2020 – Current	Xenith Consulting Pty Ltd
Field Hand	2019	Ultramag Geophysics
Student Geologist	2018	GRS Consulting
Student Geologist	2016 – 2018	GPPH & Associates
Field Hand	2015 & 2017	Marine & Earth Science