

CAPABILITY STATEMENT

Engineering above, below and beyond



Our ethos

Orelogy is a technical mining consultancy, with global multi-commodity expertise across both Open Pit and Underground mining. Our capabilities span the project life cycle - from Studies and Project Management to Operational Readiness, Support and Governance.

Established in 2005, we have evolved from a small specialist consultancy into a trusted partner for mining companies globally. In February 2022, Orelogy was acquired by the Perenti Group, an ASX-listed, diversified mining services organisation that includes contract mining, drilling services, mining services, and technology solutions.

Today, our team unites extensive technical expertise both **above** and **below** ground that focuses on practical, value accretive outcomes that extend **beyond** the mine face. As we look to the future, Orelogy continues to expand and evolve within the broader Perenti ecosystem.

Our strengths

At Orelogy, we believe our strength is in our people, we proudly boast a diverse team of over 30 skilled engineers showcasing an impressive blend of expertise in Mining, Geotechnical and Ventilation domains across both Open Pit and Underground.

It's often said that "strength lies in numbers". The following numbers highlight our capability and track record:

20+

years in business

30+

skilled engineers

7

in-house
competent persons

1,000+

client assignments

100+

satisfied clients

With our team of experienced Orelogists, and strong affiliations with complementary consulting and engineering groups, Orelogy provide a complete and compelling offering to our clients across discipline, commodity, and geography.

At the core of Orelogy's success, lies our commitment to think from our clients' perspective. We pride ourselves on adapting quickly and efficiently to our clients' needs and the markets unpredictability, adjusting our approach when the goal posts change.

Ultimately, we deliver achievable, high value outcomes, not just cookie-cutter solutions.

Trusted expertise



Brendon Smith

Head of Orelogy

Brendon is a qualified Mining Engineer with a 22-year track record of driving operational and technical excellence in mining across four continents. As a Fellow of AusIMM and a First-Class Mine Manager, he is an expert in the complete mine development lifecycle, from managing feasibility studies through to investment decision and executing greenfield start-ups. His expertise consistently delivers measurable results for clients and stakeholders through the implementation of innovative mine designs, robust Management Operating Systems (MOS), and impactful change management and business improvement programs.

brendon.smith@orelogy.com



Ross Cheyne

Senior Manager - Open Pit

Ross is a qualified Mining Engineer with over three decades of professional experience spanning different countries and commodities. He has held senior operational roles at projects in West Africa and Asia and has been consulting to the mining industry since 2001. He is a founding partner of Orelogy and in the last 20 years has managed numerous studies from scoping level assessments through pre-feasibility, feasibility to project execution. He is a Fellow of the AusIMM and has been competent person for multiple projects under both JORC and NI-43101.

ross.cheyne@orelogy.com



Simon Johnson

Senior Manager - Underground

Simon is a qualified Geotechnical and Mining Engineer with over 15 years of global experience in underground civil construction and metalliferous mining. He has held senior operational and technical roles across Australia, delivering value through business improvement, mine design, scheduling, ground support, contract estimation and management. Simon combines technical depth with strategic thinking, leveraging data-driven insights to optimise performance and drive operational excellence in both owner and contractor environments

simon.johnson@orelogy.com

Recommended by the industry

Orelogy has been assigning Consulting Engineer's to our team for over two years. The consultants quickly embrace the roles and have made a substantial impact on the operation during their time with us. The team are easy to work with and actively sought to provide suitable candidates for all positions that require backfilling.

Last Mtendeudzi,
Underground Superintendent
REGIS RESOURCES

Orelogy team were engaged to support Spartan Resources to develop an expedited schedule for the Juniper Decline. The work included mine design and schedule optimisation inclusive of materials handling and ventilation planning. Leveraging their technical expertise, the team delivered the scope in a professional and high-quality manner to support the accelerated timeline.

Alex Di Rossi,
General Manager – Mining
SPARTAN RESOURCES

We engaged Orelogy to evaluate a mineral resource below current pit limits for economic underground extraction. On short notice, the highly professional team rapidly produced an exceptional product that we could use to reassess our capital allocation for the business.

Anant Khangaonker,
General Manager
CONSOLIDATED MINERALS

Orelogy has been a trusted partner to Australian Vanadium Limited over many years. What sets Orelogy apart is their collaborative approach and dedication to achieving the best possible results, consistently working hard to ensure our mine design and schedule are fully optimised and adding real value to the project.

Todd Richardson,
COO
AUSTRALIAN VANADIUM

Since 2008, Orelogy have demonstrated a high level of expertise, particularly in open-pit and underground mining, delivering work of industry-competitive quality. Orelogy's combination of technical expertise, quality communication and practical application makes them a trusted partner in the mining industry.

Andrew Penkethman,
Managing Director
ARDEA RESOURCES

Orelogy was tasked to identify possible risks and opportunities through review of the lateral development and production designs to support materials handling, ventilation, and dewatering. The team provided valuable insights on equipment choice, ore drive gradients and water management. [This] resulted in a more mature, executable and constructable mine plan.

Ian Patterson,
Study Manager
PERSEUS MINING

Orelogy has provided professional and innovative consultancy during the last 10 years for me and my colleagues. Their work is accurate, on-time and their personnel provide a level of experience which is second to none.

Jon Yelland
Senior Vice President, Mining
ALLIED GOLD

Our principles

NO SHORTCUTS

We believe that we must be courageous in everything we do, by never compromising our standards, always doing what is right, and continuing to raise the bar in safety, performance and transparency every day.



NEVER WASTEFUL

We believe that to achieve our goals and deliver value we must be considered in how we approach our work. We plan effectively and spend money wisely to make every moment count.



WALK IN THEIR SHOES

We care for our clients, our work mates, and the communities where we work. We always act with integrity and to ensure everyone benefits, we seek to understand what really matters to them.



SMARTER TOGETHER

We believe that smart people collaborate, as none of us are as smart as all of us. By valuing our diversity, working together, sharing knowledge and supporting each other, we're capable of exceptional things.



ENABLE TOMORROW

We believe that curious people can always discover safer, more efficient and more reliable ways of working. Through actively embracing change and innovation we are focused on continuous improvement.



Our global presence

Snapshot since 2020



Orelogy is a technical mining consultancy, with global multi-commodity expertise across both open-pit and underground mining.

Partners across the complete mine cycle

▲ OPEN PIT ▼ UNDERGROUND ◆ BOTH



UNCERTAINTY

CERTAINTY

Definition

With deep experience across early-stage mine planning, we help you unlock project potential and make confident investment decisions from day one.

RECENT PROJECTS

SCOPING & SCALE OF OPERATIONS STUDY

Newmont - Tanami Gold Mine	▼
Rio Tinto - Resolution Copper Mine	▼
Consolidated Minerals - Woodie Woodie Manganese Mine	▼
Capricorn Metals - Mt Gibson Gold Mine	▼
Akara Resources - Chatree Satellite Pits	▲
Lotus Resources - Letlhakane Uranium Project	▲
Unico Silver - Cerro Leon Project	▲
Wia Gold - Kokoseb Gold Project	▲
Aurora Energy Metals - Aurora Uranium Project (AUP)	▲
Star Minerals - Tumblegum Gold Project	▲
Fenix Resources - Multiple Iron Projects	▲



UNCERTAINTY

CERTAINTY

Feasibility

Our disciplined approach to mine planning and cost modelling delivers defensible studies that support sound investment and funding decisions.

RECENT PROJECTS

PRE-FEASIBILITY STUDY (PFS)

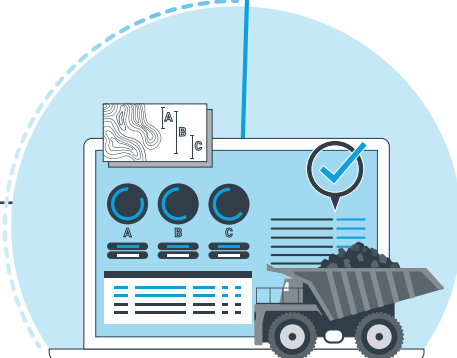
Copper Resources Australia - Mt Cuthbert	▼
Saturn Metals - Apollo Hill Gold Project	▲
Caravel Minerals - Caravel Copper Project	▲
IGO - Cosmos Nickel Mine Electrification	▲
WIA Gold - Kokoseb Gold Project	▲
Red Hawk Mining - Blacksmith Iron Project	▲

FEASIBILITY STUDY (FS)

Toubani Resources - Kobada Gold Project	▲
Peak Rare Earths - Ngualla REE Project	▲
Predictive Discovery - Bankan Gold Project	◆
AusGold - Katanning Gold Project	▲
Barrick Gold - Hemlo Gold Mine	◆
Hanking Gold - Mt Bundy / Toms Gully	◆

FULL FEASIBILITY SCOPE (PFS & FS)

Ardea Resources - Goongarrie Nickel Project	▲
Centamin - Doropo Gold Project	▲
Swakop Uranium - Husab Uranium Project	▲
Australian Vanadium - Australian Vanadium Project	▲



UNCERTAINTY

CERTAINTY

Development

We bridge the gap between planning and production, ensuring a smooth and timely transition to operational readiness – regardless of mine type or energy source.

RECENT PROJECTS

BUSINESS READINESS & EXECUTION PLANNING

Swakop Uranium - Husab Uranium Project	▲
Lotus Resource - Kayelekera Uranium Project	▲
Perseus Mining - Nyanzaga Gold Project	▲
Spartan Resources - Dalgara	▼
Queensland Hydro - Borumba Pumped Hydro Exploratory Tunnels	▼
Kinross Gold Corporation - Great Bear Gold Mine	▼
United Gold Arm Corp - Amulsar Gold Mine	▲
Lifezone Metals - Kabanga Nickel Project	▼
Perseus Mining - Yaouré Gold Mine	▼
Allkem - Mt Cattlin Lithium Mine	▼
IGO - Cosmos Nickel Mine	▼
Newmont - Red Chris Gold Mine	▼



UNCERTAINTY

CERTAINTY

Production

We partner with your site teams to optimise production performance, embed safety-led practices, and identify opportunities to reduce cost, unlocking sustained value.

RECENT PROJECTS

SITE PLANNING SUPPORT

Barrick Mining Corp - Lumwana Copper Project	▲
Allied Gold Corp - Sadiola / Kurmuk / Agbaou / Bonikro Gold Projects	▲
GMA Garnet - Port Gregory Mineral Sands Project	▲
AngloGold Ashanti - Obuasi Gold Project	▼
Endeavour Mining - Siou Gold Project	▼
De Beers - Venetia Diamond Project	▼
Fenix Resources - W10 / W11 / W14 Iron Ore Projects	▲
Rio Tinto - Multiple sites	▲

OPERATIONAL GOVERNANCE

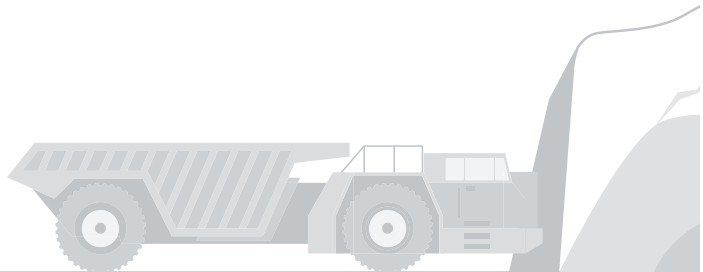
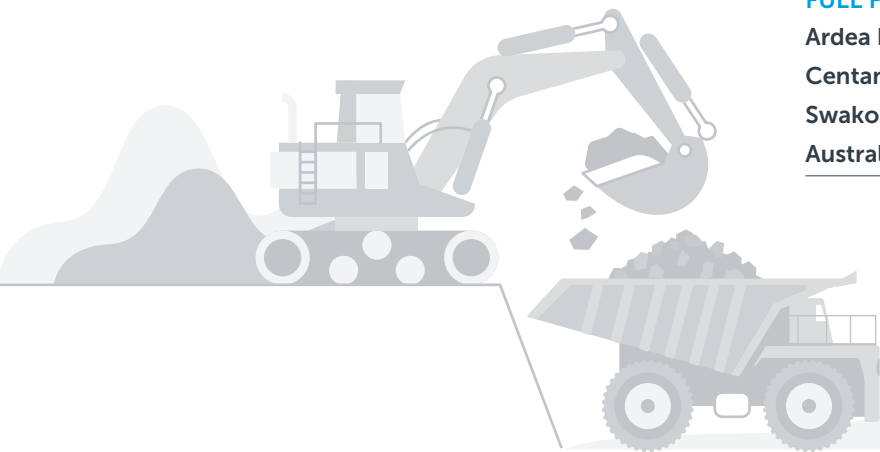
Barrick Gold Hemlo Gold Mine	▼
Panoramic Resources Savannah Ni/Cu/Co Project	▼
Evolution Mining Cowal Gold Operations	▼
IGO Nova Ni/Cu/Co Project	▼

INSURANCE CLAIM EVALUATION

Multiple sites	◆
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EMBEDDED PROFESSIONALS

Multiple sites	▼
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Mining method by commodity experience

		Primary Commodity																											
		Coal	Bauxite	Iron Ore	Manganese	Garnet	Mineral Sands	Limestone	Kaolin	Poly Metallic	Copper	Zinc	Lead	Nickel	Tin	Nickel Laterite	Sulphide Nickel	Graphite	Vanadium	Molybdenum	Niobium	Lithium	Tungsten	Uranium	REE	Gold	PGE	Diamond	Other
Surface Mining	Strip Mining	•				•	•																	•					•
	Quarrying		•			•	•	•	•																				
	Open Pit (Large/Bulk)			•	•					•	•	•		•		•	•	•	•		•	•		•	•	•		•	
	Open Pit (Selective)			•	•		•			•	•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Mineral Sands					•	•		•																				
	IPCC			•							•																		
	Trolley-Assist																												
Underground Mining	Surface Miners		•	•																				•					
	Block Caving										•																•		
	Sub-level Caving																•										•		
	Sub-level shrinkage																										•		
	Stoping with fill										•	•	•				•										•		
	Open Stoping				•					•	•						•					•							
	Cut and Fill Stoping										•	•					•					•					•		
	Room & Pillar										•	•	•									•					•	•	
	Narrow Vein Stoping										•	•			•												•		•
	Airleg Stoping														•		•										•		•
	Civil Tunnelling																												•

Our capabilities span the project life cycle - from studies, cost modelling and project management to governance and operational support. Orelogy has a proven track record of partnering with customers to unleash value at every stage of the mining process world-wide.

Our number one goal is to unlock the true value of your project.

Orelogy

Contact Orelogy for more information.

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**Scan or click the QR
code for Technical
queries or assistance**

p Perenti
GROUP