



STAFF PROFILE



Christopher Seligman, B.Sc.
Senior Geologist / Business Development Manager

EDUCATION

- Kutztown University of Pennsylvania, Kutztown, PA / 2011
 - Geology – Physical Geography – Ore Deposits

EXPERIENCE SUMMARY

Chris is an ore deposits geologist with a decade of technical and business experience across all stages of the mining value chain from mineral prospecting through to mine operations and closure. Excelling in ore deposits of the southwestern United States, he has successfully spent the majority of his career performing and managing a multitude of geological, hydrogeological, geotechnical, and geometallurgical programs as an independent consultant for a variety of projects, clients and mine sites throughout the region. With an emphasis on the discovery and advancing knowledge of porphyry Cu-Mo systems, he has also accrued significant experience in North American porphyry Cu-Au, epithermal, polymetallic, and lithium pegmatite environments. Additionally, he is highly regarded for his promotion and proactivity towards best health, safety, environmental, and communities' practices. These collective and comprehensive experiences allow him to provide a rich and unique perspective within and across any part of the mining value chain.

DEPOSIT TYPES

- Porphyry Cu-Mo
- Porphyry Cu-Au
- Epithermal Au
- Polymetallic
- Lithium Pegmatite

LANGUAGES

- English (fluent)
- French (elementary)
- Spanish (elementary)

SOFTWARE & INSTRUMENTATION

- MineSite 3D
- WellCAD
- HawkEye 3D WP
- acQuire GIM Suite
- Leapfrog Geo (Seequent)
- Reflex ioGas
- Clay Imprint Oriented Core
- Reflex ACT III Oriented Core
- ABI / OBI Televiewer
- Mud Motor / MWD Directional
- Reflex EZ-Shot & Reflex EZ-Gyro
- Ground Probe / Extensometer
- Terrestrial Laser Scanner (TLS)
- Solinst / Geokon
- ASD TerraSpec XRF / XRD / NIR

CERTIFICATES

- MSHA Surface / Underground Part 48

PROFESSIONAL ASSOCIATIONS

- Society of Economic Geologists
- Society for Mining Metallurgy and Exploration
- Arizona Geological Society
- American Exploration and Mining Association
- The Association for Mineral Exploration
- The Association for Applied Geochemists



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PROJECT	DETAILS
Zinc-Lead (CRD) Exploration <i>Northeastern, USA</i> Partner / Senior Geologist 2019 - Present	<ul style="list-style-type: none">• Project evaluation and generation• Regional and local communities and land engagement
Copper-Molybdenum (Porphyry) Advanced Exploration <i>Marana/AZ, USA</i> Senior Consulting Geologist 2019	<ul style="list-style-type: none">• Design and perform annual exploration drilling program• Geological and geotechnical core logging• Geological and geotechnical open pit highwall mapping• Sampling and QA/QC program management
Lithium (Pegmatite) Exploration <i>Kings Mountain/NC, USA</i> Senior Project Geologist 2018-2019	<ul style="list-style-type: none">• Support exploration and resource development programs• Develop mine systems - grade control, mine production, and process engineering• Oversee and manage all contractor costs associated with drilling and exploration programs
Copper-Molybdenum (Porphyry) Exploration <i>Superior/AZ, USA</i> Geologist 2016-2018	<ul style="list-style-type: none">• Geological and geotechnical core logging, televiewer and ACT orientation• Geometallurgical variability studies, exploration geochemistry vectoring/targeting• QA/QC program design and management
Copper-Molybdenum (Porphyry) Exploration <i>Superior/AZ, USA</i> Geologist – Drilling Supervisor 2017	<ul style="list-style-type: none">• Design, execute, and troubleshoot deep (± 7500 ft) directional surface exploration core holes• Contractor management, budgeting, and logistics• Geosteering, mud chemistry, pipe recovery, LCM prescription• HSE program design and auditing
Copper-Gold (Porphyry) Exploration <i>Yerington/NV, USA</i> Consulting Geologist 2016	<ul style="list-style-type: none">• Geological mapping• Claim boundary verification and re-staking• Rock and soil sample collection and assay package organization
Copper-Molybdenum (Porphyry) Advanced Exploration <i>Kearny/AZ, USA</i> Consulting Geologist 2011-2016	<ul style="list-style-type: none">• Geological and geotechnical core logging• Geological open pit highwall, production blast hole, and mapping• Geotechnical fracture and cell mapping• Supervision and management of all diamond, sonic, and RC drilling operations• Installation and rotation of slope stability instrumentation• Installation and monitoring of dewatering wells and tooling• Clay-imprint, Reflex ACT, and televiewer oriented core data collection, interpretation, and presentation



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Copper-Molybdenum (Porphyry) Exploration

Kelvin/AZ, USA

Consulting Geologist

2015

- Design and drill porphyry exploration targets
- Construct and interpret geological cross-sections
- Core and RC sampling, QA/QC management, assay laboratory communications

Copper (Exotic) Exploration

Copper Butte/AZ, USA

Consulting Geologist

2014

- Design and drill exotic copper exploration targets
- Construct and interpret geological cross-sections
- Core and RC sampling, QA/QC management, assay laboratory communications

Polymetallic Exploration

Ray/AZ, USA

Consulting Geologist

2014

- Geological mapping
- Re-log historic extra-mine exploration drill holes
- Construct and interpret geological cross-sections
- Sampling, QA/QC management, assay laboratory communications

Gold (Epithermal) Exploration

Tucson/AZ, USA

Consulting Geologist

2014

- Geological mapping
 - Claim boundary verification and re-staking
 - Rock and soil sample collection and assay package organization
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PROFESSIONAL DEVELOPMENT

DESCRIPTION	TYPE	YEAR
• JK Mine-to-Mill	JKTech Webinar Course	2020
• Introducing Mobile Blasthole Sampling	acQuire Short Course	2020
• Advances In Trace Element Geochemistry In Exhalative Systems	Ore Deposits Hub - Irish Centre For Research In Applied Geosciences	2020
• Spectral Geology and Its Recent Applications to Hydrothermal Ore Deposits	Ore Deposits Hub	2020
• JK Drill and Blast	JKTech Webinar Course	2020
• JK Statistical Analysis	JKTech Webinar Course	2020
• Advanced Structural Geology in Exploration & Mining	Roundup Short Course	2018
• Mineral Project Reporting Under NI 43-101	Edumine Short Course	2017
• Conventional Methods of Resource/Reserve Estimation	Edumine Short Course	2017
• Underground Geologic Data and Reserve Estimation	Edumine Short Course	2017
• Exploring Smarter in Glaciated and Covered Terrains	MDRU Short Course	2016
• Understanding Alteration: Use in Exploration and Development	SEG Short Course	2015
• Faults, Fractures, Fluid Flow, and Mineralizing Scenarios	MDRU Short Course	2015
• Application of Field Portable X-Ray Fluorescence in Exploration and Mining	SEG Short Course	2015
• Application of Indicator Mineral Methods to Exploration	IAGS Short Course	2015