

JEFF BENOIT

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Education

Austin Peay State University – Clarksville, Tennessee

January 2018 – December 2020

- B.S. Geosciences, Geology Concentration

3.79 GPA

Training and Certifications

- MSHA part 48A 5000-23 (June 2025)
- OSHA 40- Hour HAZWOPER
- First Aid Certification (May 2025)

Military Experience- 2007-2012

Combat Engineer

- Responsible for personnel operations as Team Leader during two tours in Iraq
- Demolitions and explosives duties, IED remediation via Route Clearance operations
- Identification and remediation of infrastructure engineering concerns

Geologic Work Experience

Contract Exploration Geologist

March 2024 – Current

Projects: Lithium, Copper, Hydroelectric

- **Big Rock Exploration**- Currently working on hydroelectric project. Role is a mix of rig-side geotechnical and geologic logging. Daily tasks include report writing, core logistics, logging, packer tests, overseeing pressure testing, and rig checks/inspections. Project length: 2 months
- **SRK Consulting**- Worked on a copper porphyry project. Role consists of mainly geotechnical logging, testing, and sampling. Uses Microsoft Suite for logging of Joint Condition Ratings, IRS testing, Jr/Jc/Ja rating, and other geotechnical parameters. Geotechnical testing -Schmidt Hammer, Point Load testing, and Specific Gravity. Project Length: 1 year
- **Rangefront Mining Services**- Worked on a lithium Greenfields exploration drilling program. Short term, one R/C rig. Small team included myself, drillers, senior geo, project manager. Field geo/Geotech rock-chip logging, pad building, drilling operations, sampling, sample logistics. Project length: 2 months

Nyrstar - Zinc

June 2023 – Jan 2024

Mine Geologist

- Daily coordination with supervisors and planners with regards to planning and mining activities
- Analyze ore production faces to ensure future mining headings via face mapping, ore estimation, and ore planning.
- Creating wireframes, drilling maps, and resource maps using Hexagon Minesite for mine planning.
- Production core logging and managing surface/underground exploration rigs.
- Management of various project geo tasks- chip logging, ore panning, and downhole surveys.
- Creation of daily production reports and ore grade sheets, quarterly projections and budgeting reports.
- Daily monitoring and tracking of ore stockpiles, waste stockpiles, rifle hazards, and area flooding.
- Brief leapfrog software training.
- Data entry with Aquire Logging and Database Software

Staff Geologist

- Supervision of drilling crews on various state, federal, and private geotechnical projects
- Project supervisor on various projects, coordinating with clients, contractors, and state officials.
- Geotechnical core and soil logging on drilling projects
- Data entry using gINT software and other Bentley products
- Alignment, cross section, and profile generation for technical reports using MicroStation software
- Generating technical reports with data acquired from inclinometers and piezometers.
- Slope stability testing of roadway cuts for TDOT in East Tennessee
- Geotechnical project experience includes: roadways, dams, airports, waste sites, military installations

Exploration Geologist/ Site Geologist

- Management of multi-faceted exploration drilling program
- Drill rig and pad management
- Daily management of specific geologic operations on project site
- Daily report writing for containing daily logs, footage, and progress
- Geologic core logging- analysis of the lithology, alteration, and mineralization of drill core
- Record geotechnical and geophysical measurements of drill core
- Data entry of measurements and analysis using proprietary logging software & Microsoft Excel

Skills

| Exploration | Production | Geotechnical |
|--|--|--|
| <ul style="list-style-type: none"> • Core/chip logging • Core sampling • Rig Management • Site management • Warehouse management • Safety inspections • Claim Staking • Soil Sampling • Report writing • Software: Microsoft office, acquire, logchief • Aerial site mapping with drones • Remote and off road driving • Light hauling and trailer movements • Equipment operation: Skidsteer, fork lift, UTV • Light maintenance and mechanical of equipment | <ul style="list-style-type: none"> • UG management coordination • Core/chip logging: collapse breccia zinc deposits • Face mapping • Ore planning • Ore estimation • Stockpile, waste, rifle hazards, and area flood tracking • minor lidar volumetrics • Drill planning • Production reports and ore grade sheets, quarterly projections and budgeting reports. • Software: Microsoft Office, leapfrog(very minor), Hexagon Minesite (minor), acquire | <ul style="list-style-type: none"> • Detailed Geotechnical logging: joint condition rating, recovery/RQD, Rock strength, faults rating, orientation • Working with open stem augers, mud logging, air hammer, geotech coring rigs. • Soil logging: split spoon, USCS soils, shelly tube • Soil testing: Atterberg, compaction, moisture • Slope stability rating • Equipment monitoring: inclinometers, piezometers • Testing: Point Load, schmitt hammer, specific gravity • Packer testing • Technical reports, cross sections, profile generation, alignment • Software: gINT, MicroStation, Microsoft office, Google earth, QGIS |