

Grant Elliott, PG

Geologist

Lexington, KY • (816) 500-0747 (m) • gelliott1995@gmail.com

OVERVIEW

Professional Geologist with over 7 years of experience in geologic modeling, drilling program coordination, and resource and reserve estimation, primarily within the aggregate industry, with work supporting mine planning and site development decisions. Experienced in analyzing geologic and drilling data to build resource models and inform extraction sequencing, using Carlson for geologic modeling. FAA Part 107 certified remote pilot with hands-on UAV experience supporting site surveys.

Coordinates drilling programs and field data collection independently and across teams, translating subsurface geology into models that support mine planning and development decisions in close collaboration with engineering teams. Has managed multi-site drilling and reporting efforts under tight deadlines, working directly with engineers to support operational and investment decisions. Experience spans aggregate producers, including Blue Water Industries (now part of Martin Marietta), Quikrete, Lafarge, Construction Partners, and Eagle Materials.

CORE COMPETENCIES

- Mineral Resource & Reserve Evaluation
- Mineral Property Appraisals
- Mine Planning & Resource Modeling
- Mineral Rights & Lease Analysis
- Drilling Program Coordination
- GIS & Spatial Analysis (QGIS / ArcGIS)
- Mineral Asset Due Diligence
- Photogrammetry (Agisoft / Photocapture)
- Geologic Modeling (Carlson)
- Technical Communication & Reporting

EXPERIENCE

Geologist | Groff Engineering & Consulting PLLC

2020 – Present

Mine Planning & Resource Modeling

- Contributed to geological and economic evaluations for active and prospective mining operations.
- Coordinated drilling campaigns and managed geologic data collection.
- Developed geologic models used to estimate mineral resources and reserves.
- Produced cross sections, maps, and spatial models supporting mine planning and development analysis.
- Integrated geological, drilling, and production data to evaluate long-term extraction potential.

Mineral Rights & Property Analysis

- Researched and evaluated mineral ownership and extraction rights for mineral property valuation.
- Analyzed deeds, leases, and contractual agreements affecting development potential.
- Assessed regulatory and permitting considerations affecting resource development.
- Collaborated with attorneys, engineers, landowners, and stakeholders during property evaluations.

Photogrammetry

- Executed photogrammetry flights for pre/post-stripping volume calculations and stockpile surveys.
- Achieved high accuracy using calibrated camera settings, PPK/RTK workflows, and GNSS-ground control.
- Merged site topography with public LiDAR to model undisturbed areas beyond survey boundaries.
- Imported drone-derived topo directly into Carlson to support volume calculations and geologic modeling.

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Mineral Asset Appraisal & Valuation

- Served as signing Professional Geologist (PG) on multiple mineral appraisal reports.
- Participated in technical evaluation of mineral properties including aggregates, coal, oil & gas, and salt.
- Performed resource and reserve analysis using drilling data, geologic mapping, and historical production.
- Analyzed mineral ownership, lease agreements, and extraction rights of mineral assets.
- Developed financial models estimating mineral asset value and royalty income scenarios.
- Prepared technical reports supporting mineral property valuation and investment decisions.

Geologist | Gredell Engineering Resources, Inc.

2018 – 2020

- Conducted geologic field investigations including drilling oversight and sample collection.
- Produced geologic maps, cross sections, and subsurface models.
- Coordinated drilling contractors and managed field operations.
- Collected and analyzed geological samples to characterize subsurface conditions.

TECHNICAL SKILLS

- GIS: QGIS, ArcGIS, Global Mapper
- Geologic Modeling: Carlson
- Data Analysis: Python, R
- Photogrammetry: Agisoft Metashape, Carlson Photocapture
- Microsoft Office (365) Suite
- LaTeX typesetting system

CERTIFICATIONS & LICENSES

- Professional Geologist (PG) – KY
- FAA Part 107 Remote Pilot (sUAS)
- MSHA Part 48B Surface Miner Training

EDUCATION

B.S. Geologic Science

University of Missouri – Columbia, 2017

References available upon request