

PROVEN GROUND CONSULTING

CONTRACTOR & CONSTRUCTION SERVICES

Keith Gilbert | Principal Consultant

Heavy Civil • Mining • Earthwork • Estimating & Bidding • Operations Support • MSHA Compliance Support

(435) 383-3403 | office@provenground.biz



Actual project and operational experience of Keith Gilbert

PROFESSIONAL PROFILE

Keith Gilbert brings 30+ years of hands-on construction experience in heavy civil, mining, mass earthwork, underground utilities, asphalt paving, site development, and large-scale construction operations. Experience ranges from estimating and preconstruction planning through field execution, production management, equipment utilization, scheduling, subcontractor coordination, safety and compliance support, and project completion.

Career experience includes nearly 50 million cubic yards of earthwork, individual earthwork projects approaching \$50 million, mining operations producing approximately 6 million cubic yards annually, and management of operations approaching \$100 million per year.

Proven Ground Consulting provides contractors, mining operators, and project owners with practical support based on actual field experience - helping evaluate what work should cost, how it should be bid, how it should be planned, and how field production can be improved.

CORE CONTRACTOR SERVICES

- Estimating & Bid Preparation
- Operations Support
- Assistant Field Supervision
- Fleet Support & Equipment Planning
- Project Startup & Mobilization Support
- Earthwork & Haul Analysis
- MSHA Compliance Support
- Estimate & Bid Review
- Project Management Support
- Project Planning & Scheduling
- Production & Performance Analysis
- Interim Management Support
- Mining Operations Consulting
- Accident Investigation Support

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SERVICES & CAPABILITIES

Estimating & Bidding Services

Support for preparation, evaluation, and review of construction estimates and competitive bids, with emphasis on realistic field production and executable means and methods.

- Quantity and scope review
- Labor and equipment costing
- Production-rate analysis
- Trucking and haul analysis
- Bid-item and unit-price analysis
- Schedule and duration assumptions
- Bid leveling and comparison
- Post-bid analysis
- Earthwork quantity evaluation
- Equipment spread development
- Crew sizing and utilization
- Material and subcontractor pricing review
- Indirect costs and mobilization
- Risk and contingency evaluation
- Estimate review before submission
- Change-order pricing support

Operations Support

Practical, field-based operations support for heavy civil contractors, mining operations, and project owners. Support can be provided on a project-specific, short-term, interim, or consulting basis to supplement existing management and field leadership.

- Project management and project startup
- Project planning and construction sequencing
- Budget and cost-control support
- Subcontractor and field coordination
- Project recovery support
- Assistant field supervision
- Schedule development and tracking
- Daily and weekly production planning
- Production monitoring and troubleshooting
- Interim management support

Fleet Support

Support in evaluating, planning, and improving heavy-equipment fleets to match equipment type, quantity, utilization, and production requirements.

- Fleet-size evaluation
- Scraper fleet planning
- Loader/truck matching
- Cycle-time and idle-time analysis
- Maintenance coordination support
- Equipment selection and spread development
- Excavator/haul-truck matching
- Dozer and support-equipment requirements
- Equipment availability review
- Rental-versus-ownership considerations



High-production scraper operations



Large scraper fleet and equipment management

MINING, SAFETY & FIELD SUPPORT

Mining Consulting & Operations

- Open-pit mining
- Haul-road development
- Crushing and screening
- Equipment fleet management
- Shift and crew planning
- Maintenance coordination

- Large-scale excavation and production earthmoving
- Material handling
- Rock excavation and handling
- Production tracking
- Cost control
- 24/7 mining operations

Operational experience includes production approaching 6 million cubic yards annually and approximately \$100 million in annual operations. Fleet-management experience includes approximately 50 Cat 657 scrapers plus support equipment, with total fleets approaching 70 pieces of heavy equipment on a single operation.

MSHA Compliance Support

Practical support for mining contractors and operators working to maintain safe, compliant, and productive operations.

- Field safety and compliance reviews
- Mobile-equipment safety review
- Contractor compliance support
- Safety documentation review
- Supervisor and management support
- Operational review following citations or safety events

- Work-practice observations
- Haul-road and traffic-control observations
- Workplace examination process review
- Corrective-action follow-up
- Inspection preparation support

Accident Investigation Support

Independent construction and mining accident investigation support based on field, equipment, supervisory, and operational experience.

- Site and incident review
- Photograph and video review
- Equipment-condition and operating-practice analysis
- Training and procedure review
- Identification of contributing operational factors
- Corrective-action development

- Accident-scene documentation
- Witness and employee information review
- Haul-road and site-condition review
- Timeline development
- Root-cause analysis support
- Technical support for contractors, owners, insurers, and legal counsel



Crushing and screening operations



Mining production and material handling

HEAVY CIVIL & PRODUCTION SUPPORT

Heavy Civil Construction Consulting

Experience includes mass excavation and earthmoving, site development, freeway and highway construction, landfill construction, drainage, underground utilities, roadway grading, and high-production civil operations.

Production & Equipment Analysis

- Cycle times and haul distances
- Scraper production
- Loader/truck production
- Crew productivity
- Production bottlenecks
- Daily production targets
- Equipment matching
- Excavator/truck production
- Dozer utilization
- Equipment idle time
- Cost per cubic yard / cost per ton
- Actual versus estimated production

Project & Operations Experience

- Career experience involving approximately 50 million cubic yards of earthmoving
- Individual earthwork projects approaching approximately \$50 million
- Major industrial development: approximately 92 acres, roughly 80 acres under roof, and approximately 3.5 million cubic yards of earthwork
- Freeway construction involving approximately 1 million cubic yards of earthwork
- California landfill construction involving more than 5.5 million cubic yards of earthwork
- Large-scale mining operations producing approximately 6 million cubic yards annually with operations approaching \$100 million per year



Heavy civil drainage and roadway construction



Roadway milling and paving operations



Roadway construction and site development

WHY PROVEN GROUND CONSULTING

Construction and mining plans ultimately have to work in the field. Proven Ground Consulting brings decades of experience managing equipment, manpower, production, schedules, costs, safety considerations, and operational challenges associated with large heavy-civil and mining operations.

**HELP CONTRACTORS BID SMARTER • PLAN BETTER • IMPROVE PRODUCTION • CONTROL COSTS •
REDUCE PROJECT RISK**

ADDITIONAL PROJECT EXPERIENCE

Underground Utilities • Asphalt Paving • Plant & Fleet Support • Mass Earthwork

The following photographs document additional hands-on project and operational experience of Keith Gilbert across underground utility work, asphalt paving, plant support, heavy-equipment fleet operations, excavation, hauling, and mass earthwork.



Underground utility installation and field operations



Asphalt paving operations and truck coordination



Plant maintenance, lifting, and operational support



Plant equipment mobilization and heavy-lift support



Large haul-truck fleet and equipment management



Heavy-equipment fleet support and field operations



Excavator and haul-truck production operations



Excavator loading scraper spread - mass earthwork



Scraper fleet operations and site development



Excavator and off-road haul-truck production

All photographs shown are actual project and operational experience of Keith Gilbert.

SAFETY, COMPLIANCE & ACCIDENT SUPPORT

OSHA & MSHA Support • Field Compliance • Accident Investigation • Training



Actual field safety and operational experience of Keith Gilbert

Accident Investigation Support

Provide construction and mining accident investigation support focused on fact development, field conditions, equipment operations, work practices, timelines, contributing factors, and practical corrective actions.

- Incident and accident scene review
- Equipment-condition review
- Witness and employee information review
- Identification of contributing operational factors
- Corrective-action development
- Photograph and video documentation review
- Work-practice and procedure analysis
- Timeline development
- Root-cause analysis support
- Technical support for contractors, owners, insurers, and legal counsel

OSHA & MSHA Accident Support / Agency Liaison

Support contractors and mining operators following workplace accidents or serious incidents, including coordination and liaison support during interactions with OSHA or MSHA. Services are intended to supplement the client's management, safety, and legal teams.

- Post-incident response support
- Field information gathering
- Management coordination support
- Corrective-action tracking
- Support communicating field facts and operating conditions
- Preparation and organization of incident documentation
- Support during agency site visits and inspections
- OSHA and MSHA liaison support
- Operational follow-up after an incident
- Coordination with safety professionals and legal counsel

MSHA Field Complaint & Compliance Support

Field-based support for mine operators and contractors responding to MSHA compliance concerns, field complaints, citations, or operational safety issues.

- Field complaint review and response support
- Mobile-equipment and haul-road observations
- Workplace and work-practice observations
- Documentation and record review

- Corrective-action support
- Preparation for MSHA inspections
- Operational review following citations or complaints
- Supervisor and management support
- Post-inspection follow-up
- Field implementation support

MSHA Training Support - Onsite & Classroom

Practical mine-safety training support for contractors, supervisors, and field personnel, delivered onsite or in a classroom setting. Training can be tailored to the client's operation, equipment, work practices, and field conditions.

- Onsite field safety training
- Supervisor and foreman training support
- Haul-road and traffic-control practices
- Task and work-practice safety discussions
- Site-specific operational safety topics
- Classroom safety training
- Mobile-equipment safety topics
- Workplace examination awareness
- Incident-prevention and lessons-learned sessions
- Refresher and toolbox-style training support

Note: Where a specific MSHA training course requires an approved instructor, formal certification, or other regulatory qualification, services are provided within the scope of applicable requirements and the consultant's qualifications.

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