

Oil and Gas  
Energy



gai consultants



Transforming  
Ideas for the  
Energy We Use

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## Oil and Gas

### Focused on Your Goals

World energy markets are rapidly expanding with the United States poised to be a major player in oil and gas production and export. This expansion presents boundless opportunities for energy companies to capitalize in this competitive market where speed and reliability are key success factors. When these opportunities become projects, GAI responds quickly and efficiently to assist our energy clients in making their projects successful.

We understand how our services fit into the larger project life cycle, how each element—early feasibility studies, land acquisition, survey, permitting, civil/site engineering, construction, operation and end of asset life—interact and impact the others. Our clients have come to rely on GAI's comprehensive knowledge of the standards and permits required to meet fast-paced upstream, midstream, transmission, LNG, and natural gas liquids (NGLs) project schedules.

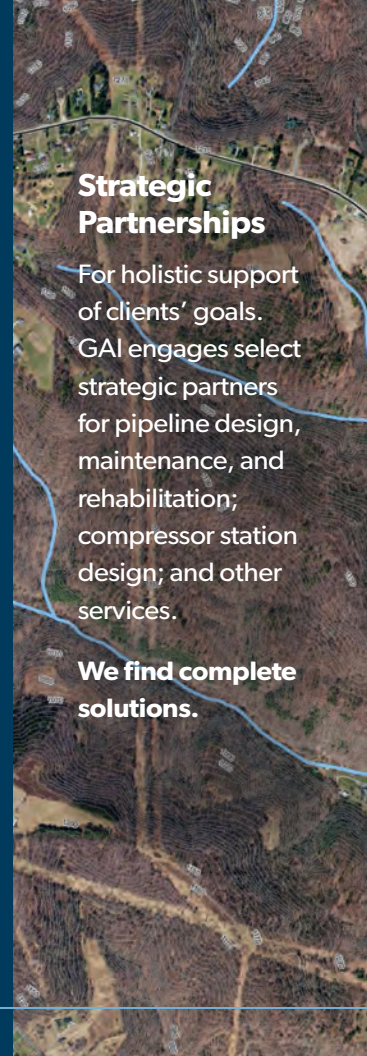
Our managers understand the owner's perspective, and adopts your goals as their own.

Your goals are important. And if it's important to you, it's important to us.

### Strategic Partnerships

For holistic support of clients' goals. GAI engages select strategic partners for pipeline design, maintenance, and rehabilitation; compressor station design; and other services.

**We find complete solutions.**





We believe our clients have important goals and we make those goals our own.

### What Distinguishes GAI

- Experienced team with insightful knowledge of the permitting protocols required to get upstream, midstream, transmission, Liquefied Natural Gas (LNG) and Natural Gas Liquids (NGLs) projects to market
- Comprehensive survey, environmental, and civil/site engineering in one company, a strong base for understanding how each element impacts the overall project
- In-house expertise in rare, threatened, and endangered species, wetlands, and cultural resources
- Understanding the competitive nature of the oil and gas market and importance of managing both cost and schedule



## Oil and Gas Services

### Routing

- Pipeline desktop studies to identify sensitive resources early on in planning phases of the project
- Pipeline constructability surveys performed by site civil, cultural, and environmental to minimize issues during construction and develop a route minimizing environmental impacts

### Surveying

- GIS services
- Center line staking
- Construction stake-out
- As-built surveys
- Topographic and Bathometric surveys
- Construction alignment sheets
- Property Exhibits/Plats

### FERC

- Environmental report preparation for 7c and Blanket Prior Notice (BPN) filings
- Third party and applicant NEPA document preparation
- Assistance with 2.55b, Blanket Automatic Authorization (BAA), and BPN projects

### Environmental Assessment, Permitting, and Planning

- Permitting strategy development and project timeline roadmapping
- Wetland and stream delineation
- Permittee Responsible stream and wetland mitigation design
- Erosion and Sedimentation Control Plans and permitting
- Dredge material management
- National Pollutant Discharge Elimination System (NPDES) permitting
- Clean Water Act 404/401 permitting and Section 10 consultation
- Floodplain studies and permitting
- Rare, threatened, and endangered species consultation and surveys
- Assistance with USEPA compliance orders, USACE cease and desist orders, and Notices of Violation (NOVs)
- Assistance with Habitat Conservation Plans and Incidental Take Permits
- Phase I, II, and III Environmental Site Assessments (ESAs) and due diligence for mergers, acquisitions and divestments
- Sound monitoring and modeling required to be in compliance with local, state, or federal permitting
- Air permitting

### **Cultural Resources**

- Due diligence evaluations
- SHPO and tribal consultations
- Archaeological predictive modeling
- Phase I, II, and III archaeology studies
- Historic architectural surveys and evaluations
- Agreement documents

### **Treatment Plans and Mitigation Civil Engineering Services**

- Compressor and meter station site layout
- Well pad design
- Roadway design and permitting (i.e. road bonding, Highway Occupancy Permits (HOP's), and driveway permits)
- Geotechnical services
- Stormwater Pollution Prevention Plans (SWPPP)
- Spill Prevention Control and Countermeasure (SPCC) Plans

### **Construction Support**

- Environmental Inspection and compliance
- Pre and post construction water source sampling and structure condition surveys
- Assistance with Notice of Terminations (NOT's)

## **Program Management**

GAI can act as the overall Program Manager for your project. With survey, environmental, and civil/site engineering in one company, we have the ability to see the many risks that could impact your project and we mitigate those risks. GAI oversees land activities, easement acquisition, deed research, and civil/site engineering. We also provide oversight of operational compliance programs for facilities.



## Connect with Our Experts

### **R. Scott Burnsworth**

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### **About GAI Consultants, Inc.**

Transforming ideas into reality<sup>®</sup> since 1958, GAI is an employee-owned engineering, planning, and environmental consulting firm providing local expertise to worldwide clients in the energy, transportation, development, government, and industrial markets.



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