



*Fabrication Assembly
Garfield County, Colorado*

Material Procurement & Control: Technical specifications · Supplier identification · Transportation and delivery plans · Bid solicitation & evaluation · Requisitions & purchase orders · Plant & mill inspection service coordination · Scheduling and expediting · Material receipt & control · Test witnessing · Material inventory and cost summary · Tax district allocation summary · Surplus and scrap material inventory.

Construction Management and QA/QC Inspection: Pre-construction planning · Contract documents & bid forms · Contracting strategies · Contractor pre-qualification · Bid offer & showings · Bid analysis and contract negotiations · Quality assurance and quality control (QA/QC) inspection · Progress payment review · Construction progress reporting · As-built drawings & job data books · Claims negotiation and settlement · Safety programs · Start-up & commissioning · System integrity certification.

Rights-of-Way and Permits: Title search and reports · Trespass authorization · Assessment & appraisals · Negotiation & acquisition · Land plats and legal descriptions · Specimen grant documents · Route and facility relocations · Building & special use permits

Drafting and Mapping: APD submittals · Regional base maps · Field area maps · GIS mapping and implementation · Custom map development · Permit exhibits · Fabrication drawings · 3D Piping · Civil design · Mechanical design diagrams · Pipeline drawings · Oil & gas facility drawings · Utility route and area drawings.

Material Testing (Field and Laboratory Testing and Analysis): In-place Moisture Density · Nuclear Method · Sand-Cone Method · Standard Proctor · Modified Proctor · Classification of Soils · Particle-Size Analysis · Sieving & Hydrometer · Atterberg Limits · Liquid Limit · Plastic Limit · Plasticity Index of Soils · Specific Gravity of Soil Solids · Clay Permeability

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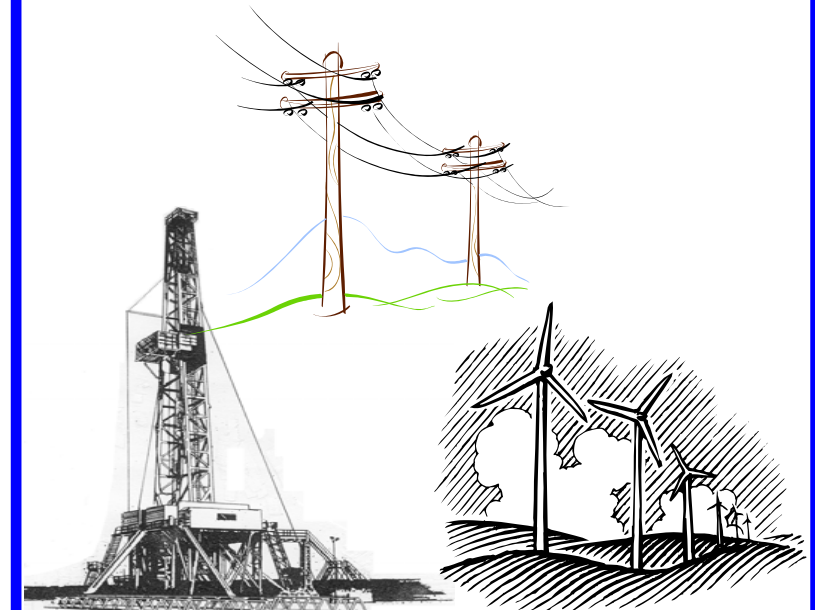
D.R. GRIFFIN & ASSOCIATES, INC.

Professional Engineers and Land Surveyors

"...serving the Oil & Gas Industry."

A Drug and Alcohol Free Workplace

*Full Service Engineering, Construction
Surveying, Construction Management,
Pipeline Surveying, G.P.S. Surveying,
Permitting, Drafting & Mapping for the
Oil and Gas Industry, ACAD and
MicroStation Drafting Platforms*



WELCOME

D.R. Griffin & Associates, Inc. of Rock Springs, Wyoming, is a Rocky Mountain regional engineering design, land surveying, drafting, mapping, project management, material procurement, and field services firm attending clients in the pipeline, oil and gas development, and utilities industries as well as local municipalities and regional government agencies. The original small shop operation was established in 1978 to provide surveying, drafting and mapping to oil and gas clients. In response to changes in client company organizations and increasing demand for professional and technical services, D. R. Griffin & Associates has grown accordingly.

The firm is staffed with Professional Land Surveyors and Professional Engineers who are licensed in most of the western United States. To assist the professionals, D. R. Griffin & Associates employs qualified associate engineers, project engineers, technicians, drafters, surveyors, inspectors, field service crewmen, secretaries, and administrative specialists in adequate number to meet routine company and client needs.



D. R. Griffin & Associates has a robust inventory of well maintained modern vehicles, office equipment, survey instruments, computer workstations, laptop computers, LAN system, internet website, drafting plotters, office and technical software, engineering copiers, and similar resources to efficiently undertake client work in two separate locations. Our Wyoming office is located in the Hallmark Square Building, 1414 Elk Street, Rock Springs, Wyoming, the D. R. Griffin & Associates office and is readily accessible from the Elk Street 104 Exit on Interstate 80. Our Colorado Office is located at 570 E. Crete Circle, Suite 1, Grand Junction, Colorado.

Whether the work undertaken is a small individual project requiring only a few man-hours or a start-to-finish 300 mile large diameter pipeline, D. R. Griffin & Associates has the personnel, resources, experience, and commitment to perform the job in a professional, timely and cost effective manner. For your next assignment or project needing professional services, please call D. R. Griffin & Associates at (307) 362-5028 or contact us at the mail or e-mail addresses provided. Our professionals are anxious to discuss your project and to determine how we can assist. For small jobs, a standard company labor and equipment rate schedule will be provided for your approval. On routine predefined work, a lump sum amount can often

be established. For larger more complex endeavors, a project cost estimate and schedule can be provided for your consideration.

SCOPE OF SERVICES

D. R. Griffin & Associates, Inc. can provide comprehensive start-to-finish services, or anywhere in between, to meet the needs of our pipeline, oil and gas, utility and other clients. D. R. Griffin & Associates offers the following services:

Planning and Studies: Feasibility studies · Budget cost estimates · Conceptual design · Environmental & regulatory planning · Operations analysis · Flow capacity and hydraulic studies · Facility evaluations.

Oil & Gas Development: · Archeology coordination · BLM road staking, design and permitting · Environmental permit (EA/EIS) exhibit preparation · Site specific or field area planning, permitting, design and construction management to support APD approvals.

Surveying and Mapping: Oil & gas well staking · Area field maps · USGS topographic maps · Aerial photograph control & mapping · Preliminary route selection · Route alignment surveys · Site boundary & topographic surveys · Alignment & construction staking · As-built pipeline inventory surveys · Facility inventory surveys · Clearing & grading staking · Parcel, easement & boundary surveys · Legal plats and descriptions · Route alignment sheets · Construction drawings · As-built documentation · Site improvements, grading and drainage · Permit drawings – oil & gas wells, water rights, discharges, roads · Crossing drawings: highways, roads, railroads, streams, canals, overhead lines · Environmental & archeology exhibits.

Pipeline & Facilities Engineering: · Route selection · Pipeline

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alignment maps · P.O.D. maps · Crossings and spans · Pig launcher/receiver facilities · Slug catchers & condensate recovery · Internal inspections & testing · High voltage interference · Block valves · ESD facilities · Tie-in facilities · Metering and flow quality monitoring · Pressure and flow control · Mechanical design · Civil design · Structural design · Line pipe, valves, fittings and fabrication parts · Planning and scheduling · Contract documents and bid forms · System audits · Rehabilitation analysis · Preliminary geotechnical investigations · Land slide and slope stability mitigation · Stream erosion mitigation · FERC, DOT, ASME, PSC compliance · Piping and instrumentation diagrams · Hydraulic, surge & drain down analysis · Pressure vessel and process equipment · Buildings · Operation/maintenance manuals.

Project Management: Project planning, scheduling & progress reporting · Multiple participant & agency involvement · Administrative procedures · Budgeting, cash flow forecasts and cost control · Environmental, cultural & regulatory permitting and compliance · Agency meetings and reporting · Right-of-way approvals · Procurement procedures · Construction procedures · QA/QC inspection procedures · Contract administration & close-out · Start-up and commissioning.

