



Corporate Profile

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Keystone Field Engineering Inc. and **Keystone Production Services Inc.** excel at providing the best technical and professional services to the Oil & Gas, Building Construction and Structural Industries. Both companies offer a distinct blend of engineering and facility production support services under one roof.



Keystone Field Engineering Inc., is a Professional Engineering Consulting Firm based in Drayton Valley, Alberta. We are proud to provide our clients **“Practical Engineering Solutions”**, within our local community and surrounding areas. As Keystone is registered to practice engineering in Alberta, Saskatchewan and British Columbia, our expertise is also extended to clients across Western Canada.

Founded in 1990, we take pride in providing our clients with the highest quality engineering design, drafting and technical support services. Our diverse team of experienced staff members are dedicated to supporting a multi-disciplined line of technical services in the Oil & Gas, Building Construction, and Structural Industries. We take pride in effectively executing projects that are high quality, cost effective and completed in a safe and timely manner.

Keystone Production Services Inc., is an Oilfield Production Services Firm offering a full range of upstream oil and gas services within the greater Drayton Valley area. Our experienced staff can assist your company with contract operating, well optimization, field production operations management and many other valuable operations related services.

Keystone Field Engineering

Oil & Gas

Oil & Gas Division offer services that include facilities and pipeline design for small to med-sized projects; operations and production engineering; well and facilities optimization; environmental assessments; regulatory compliance support and AutoCAD drawings for new construction and as-built updates. Services include:

Facilities Design and Engineering:

From modifications to existing facilities to full new site designs, Keystone will scope out, design, provide cost estimates and provide construction support for all your project requirements.

Types of projects include:

- Single and Multi-Well Facilities Design
- Waste Management Facilities Design
- Water and Waste Disposal Facilities Design
- New and existing pipeline modification design
- Flow Splitter Designs
- Plant and battery modifications/additions
- New and Existing Tank Farm Upgrades and Designs
- Flare System Design Checks and Modifications
- Participate and contribute to facility HAZOP studies. Track and manage action items. Prepare scopes of work, cost estimates and designs to address deficiencies
- Engineered facility design AutoCAD drawings include PFD's, P&ID's, Plot Plans, ISO's, ORTHO's, Structural, Electrical and Line Lists

Management of Change (MOC) Project and Process:

Keystone's involvement can vary according to your specific needs for the MOC process. Our role can range from technical design for an individual MOC project to managing your entire MOC Program (MOC coordination role). Types of projects include:

- Perform MOC Coordinator Role
- Supply MOC Process development and Implementation Support
- Pigging Facilities Installations and Modifications
- Meter upgrades and/or Installations
- Plunger-Lift Installation piping design;
- Equipment sizing – piping, control valves, PSV's, Tanks, Vessels, Filter systems, Pumps
- Process Piping modifications
- Process Flow Changes

Petroleum Tank Management Association of Alberta (PTMAA) Designs:

Keystone will provide designs for new PTMAA Compliant Facilities or make recommendations to bring your existing facility into compliance. Types of projects include:

- New PTMAA Compliant Storage Facility Designs
- Modify Existing Storage Facilities to ensure PTMAA Compliance
- PTMAA Compliant Designs for Additions to existing storage facilities.

Regulatory / Compliance Technical Support:

Regulatory compliance is key to your company's success. There are many regulators/regulations in the oil and gas industry and achieving compliance requires significant resources and time dedication. Types of projects include:

- ABSA Piping Registrations (ASME B31.3 and 31.1)
- Facility and Pipeline AER Applications
- DDS Submissions
- Facility and Pipeline Audit Compliance support
- General AER Compliance Support and Communication
- Directives:
 - DIR-60; Facility blowdown/venting calculations
 - DIR-56; Facility/pipeline applications
 - Metering compliance to DIR-17 requirements
 - DIR-58; Waste Management compliance and design
 - DIR-55; Storage Tank design and compliance
 - DIR- 66; Requirements and Procedures for Pipelines
 - DIR-38; Oilfield Noise Control

Operations/Production Engineering:

If your internal resources are stretched thin consider utilizing Keystone's expertise in operations and production engineering to complete facilities and wellsite optimizations. Types of projects include:

- Facilities, pipeline and production troubleshooting.
- Identification and implementation of production optimization opportunities.

As-Built Drawings:

Keystone's expertise is available to supply clients with up-to-date engineered drawings for all their projects and facilities. Updated drawings can be provide from either client supplied redline markups, or by Keystone conducting a full field review. Types of As-Built projects include:

- Wellsites, Compressor Stations, Gas Plants, Batteries, Satellites, Water injection plants, headers, pipeline systems, etc.

Building Construction

Building Construction & Fabrication services include commercial and industrial building design and drawings, foundation design, structural design, analysis and optimization, fabrication drawings, and structural inspections. Services include:

Commercial & Industrial Building Design (including Pre-Engineered):

Complete Design Services from preliminary design, through to Engineered construction drawings. Types of projects include:

- Project Design Coordination – Coordinating Professional Role
- Full Engineered Drawings Packages including architectural, structural, mechanical, electrical, geotechnical, civil and landscape.
- Wood frame or pre-engineered steel frame shop designs.
- Building and fire code reviews and compliance.
- Development and Building Permit Applications.
- Communications with Local Authorities and Safety Codes Officers on behalf of client.
- Field reviews and verification of compliance

Shops and Garages:

If you are thinking about building a shop or garage for your private property, Keystone can assist you with all aspects of your design from concept to completion. Types of projects include:

- Engineered Drawings Packages
- Code compliance
- Development and Building Permit Applications

Engineered Foundation Designs:

Whether you are building a private garage or a large commercial building, a properly designed foundation is essential. There are several design considerations that go into each specific foundation and Keystone can provide you with the engineered designs that are suitable for your needs. Types of projects include:

- Pile and grade beam
- Thickened slabs
- Screw piles

Structural Assessments:

Assess the structural integrity of buildings as well as building components. Depending on client requirements, Keystone can also provide compliance reports and repair plans. Types of projects include:

- Assess structural integrity of buildings, structures or equipment.
- Prepare modification or repair plans and associated drawings as required

Structural Engineering

Structural Engineering services provides design, inspection and certification of equipment as well as steel structures. Services include:

Equipment Inspections/Certifications:

Keystone's Equipment Inspection and Certification Program is designed to ensure client's equipment is meeting OH&S and other regulatory or design body requirements. Individual equipment inspections and certifications can also be provided on a variety of oilfield equipment as well as rental skids units. Types of projects include:

- Design and administer equipment inspection and certification programs for oilfield equipment and skids

Structural Steel Design:

Keystone provides structural steel design on client's equipment and structures. Structural designs include beams, catwalks, platforms, ladders, as well as pipe supports, pipe racks and pilings.

Keystone Production Services

Keystone Production Services Inc., is an Oilfield Production Services Firm offering a full range of upstream oil and gas services within the greater Drayton Valley area. Our experienced staff can assist your company with a variety of field production and operations management related services such as:

- Contract Operating
- Well optimization
- Facility optimization
- Well / facility start-up and commissioning
- Preventative maintenance programs
- Regulatory Compliance
- Shut in well inspections
- Pipeline operating and maintenance programs
- Facilities construction supervision