



 **STRIKE**



Strike Group is an industry leader providing construction and maintenance services to the oil and gas, midstream, transportation, mining, and utility industries across Western Canada. Headquartered in Calgary, Alberta, this Canadian-owned company has multiple locations and is committed to servicing energy and resource customers.



VISION

To be a sustainable, professionally-led, profitable organization.

MISSION

Exceptional Execution.

VALUES

- Ensure every employee comes home safe.
- Provide quality work at competitive prices.
- Treat others as we would wish to be treated.
- Strive to continually improve.
- Reward people for their commitment, energy, enthusiasm and results.
- Demonstrate leadership, drive, creativity and initiative.
- Support the communities in which we live and work.
- Minimize our impact on the environment.

WE ARE STRIKE GROUP

A message from the President:

Strike Group is an industry leader providing construction and maintenance services to the oil and gas, midstream, transportation, mining, and utility industries across Western Canada. With a strong business plan and strategic decision making, we are a well-recognized and respected organization offering superior client service, excellence in safety and quality craftsmanship with a professional attitude. These standards have been established by an experienced management team whose reputation forms the backbone of Strike Group.

Strike Group's dedication to each of our corporate values will ensure success for our company, our people and our customers.



Stephen D. Smith,
President and CEO





Executive Team



Stephen D. Smith

President and CEO



Michael M. Tumback

Executive Vice President
and Chief Financial Officer



Glen Greenshields

Senior Vice President
and Chief Operating Officer



Debbie Brittner

Vice President
Finance



Robert Webster

Vice President
Electric & Instrumentation



Clay Nairn

Vice President
Production Services West



Glen Bauer

Vice President
Production Services East



Tyler Pawsey

Vice President
Projects Group and
Industrial Services



Brett Berg

Vice President
Information Technology

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a division of Strike Group Limited Partnership
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Grande Prairie

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Fax (780) 532-2995

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High Level, AB T0H 1Z0
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Fax (780) 926-2398

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Fax (780) 396-2366

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S0M 0E0
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High Level



Dawson Creek



Grande Prairie



Grande Cache



Bonnyville



Whitecourt



Edson



Fort Saskatchewan



Drayton Valley



Battleford



Airdrie



Crossfield



Calgary



Saskatoon

STRIKE GROUP SERVICES

Strike Group has the Western Canadian Sedimentary Basin covered. With multiple locations throughout Western Canada, Strike Group provides construction and maintenance services in four product areas:

- Projects;
- Production Services;
- Industrial Services; and
- Electric & Instrumentation

Virtually any project related to surface facilities in various industries falls within Strike Group's expertise, including:

- Pipeline construction;
- Production and process facility construction and maintenance;
- Electrical construction;
- Instrumentation services;
- Module fabrication and assembly;
- Plant maintenance and turnaround services; and
- Plant and facility construction.

Strike Group is proud of its experienced tradespeople, experienced project management/supervision and the processes developed to support them; all of which ensure the Exceptional Execution of any project.

PROJECTS GROUP



Plant and Facility Construction

Strike Group's Projects Group specializes in the construction of production and process facilities for the energy industry. Strike Group has developed the processes and systems to provide construction solutions to clients of all types including:

- Heavy oil including Steam Assisted Gravity Drainage (SAGD);
- Transmission projects including above ground steam and oil pipelines;
- Large compressor stations and pump stations;
- Field production and processing facilities (both oil and gas);
- Plant turnaround projects; and
- Plant refurbishment projects.

The Projects Group is supported by fabrication services via Strike Group's Industrial Services Group, which has four fabrication facilities available.

Heavy Oil Module Field Installation

Strike Group's Projects Group also complements the Industrial Services Group by providing field installation services for completed modules. These services include main plant and processing facilities, well pad installation services, piling and pile cap cutting services and above and below ground pipe installations.



PRODUCTION SERVICES



Pipeline Construction and Maintenance

Strike Group's Production Services Group has the capability, the experience and the resources to construct and install pipelines of all types, ranging in size from small diameter to twelve inch, including:

- Steel;
- Plastic;
- Fiberglass;
- Flex pipe; and
- High-density polyethylene.

Strike Group's pipeline experience includes projects for conventional oil and gas, non-conventional oil and gas, heavy oil, source and disposal water and steam.

Strike Group's Production Services Group can provide full product support including:

- Constructibility and right of way analysis;
- Construction of flow lines and gathering systems, well pads, transmission systems;
- Ongoing maintenance of facilities; and
- Repair and reconstruction of existing facilities.

Strike Group has a full fleet of equipment, experienced personnel, geographic presence and the systems and processes to provide a quality product safely, on time and on budget.



Facility Construction

Strike Group's Production Services Group can provide construction solutions for facility construction and installation. Strike Group's network of business units covers the Western Canadian Sedimentary Basin and has extensive experience with the installation and service of:

- Compressors;
- Separators;
- Dehydration units;
- Well sites and well site equipment;
- Line heaters;
- Meter stations and skids; and
- Small plant facilities.

In addition to the construction and installation of these facilities, Strike Group can offer ongoing maintenance.



Maintenance and Turnarounds

Strike Group provides field and plant maintenance for oil and gas production facilities throughout its network of offices. These services can be provided by any one of the Groups, depending on the size and complexity of the project. Services include:

- Facility maintenance turnarounds;
- Facility modifications, debottlenecking and process improvement modifications;
- Field production facility maintenance and modifications;
- Pipeline maintenance and repairs;
- Electrical and instrumentation maintenance; and
- Commissioning and startup support.



Module Assembly

The Strike Group Industrial Services Group has 70 acres of modular construction yard space in four strategic locations:

- Crossfield Main Yard – 16 acres
- Crossfield Second Yard – 5 acres
- Bonnyville – 40 acres
- Whitecourt – 10 acres

These facilities are all fenced and secure for employees and site management.

Strike Group provides modular construction services for the energy industry including, structural steel fabrication and erection and assembly of pipe and equipment modules for thermal and SAGD production facilities in the heavy oil sector. Strike Group's four modular construction yards, experienced staff and established processes are supported by 46,000 square feet of fabrication facilities in three locations that provide steel and pipe fabrication. In addition, Strike Group's Projects Group can perform the related field installation services for completed modules.



Fabrication

Strike Group's three fabrication centres boast new technology for fabricating quality steel structures and pipe assemblies:

- **Crossfield Main Yard Facility**
 - 18,000 square feet
 - Two 10 - ton overhead cranes
 - Five 3 - ton overhead cranes
 - Four 4 - ton jib cranes
 - Shop spooling capacity – 3,500 diameter inches per week
- **Bonnyville**
 - 15,000 square feet
 - Two 10 - ton overhead cranes
 - Two 5 - ton bridge cranes
 - Two 3 - ton jib cranes
 - Shop spooling capacity – 2,500 diameter inches per week
- **Whitecourt**
 - 13,000 square feet
 - Two 2 - ton overhead cranes
 - One 10 - ton overhead crane
 - Shop spooling capacity – 3,500 diameter inches per week

Strike Group's Production Services Group offices also have fabrication facilities for smaller field fabrication requirements.

In addition to structural steel fabrication, Strike Group fabricates small vessels and small modules, skids and platforms including:

- Piping from 1/2" to 60" diameter;
- Structural steel of various sizes and scope;
- Small vessel repair; and
- Specialty services such as alloy fabrication.

ELECTRIC & INSTRUMENTATION



Electric & Instrumentation

Strike Group's Electric & Instrumentation Group complements Strike Group's business offerings by providing electrical construction and maintenance services, module and skid wiring services, control panel fabrication, power distribution, heat tracing and field commissioning. The Electric & Instrumentation Group provides pneumatic and electrical controls, burner controls, fire and gas detection controls and control system installation and maintenance.



QUALITY CONTROL

Commitment

Strike Group is committed to achieving, delivering and maintaining the highest level of quality in our products and services, including those sourced through sub-contractors and suppliers. Strike Group recognizes quality is achieved through using and committing to a range of processes and tools, such as our Quality Management Program.

Objective

The Quality Management Program is designed to support production and ensure processes of manufacturing, installation and maintenance of our products and services comply with code, specified requirements and customer expectations.

Quality Program & Vision

Strike Group holds all certifications and authorizations required for our product and service lines. We welcome the opportunity to work with new and existing customers that have high level project specifications, including high-spec requirements for quality control, inspection and testing processes.

Strike Group holds current Certificates of Authorization from ABSA*, BCSA, TSASK, and NWT for the manufacture, repair and alteration of pressure vessels, fittings and pressure piping. Our quality control manual is

used throughout our fabrication facilities and field sites and reflects our scope of work and our established processes. This encompasses requirements of welders' and welding operation performance qualifications, as well as processes and systems that are used during the fabrication of:

- Pressure vessels;
- Pressure piping;
- Miniature vessels; and
- Registered category "H" pressure fittings.

Strike Group's Quality Program

- Customer-focused;
- Supports excellence through exceptional execution;
- Promotes shared responsibility and decision making;
- Endorses stringent quality processes throughout all stages of a project including the selection of high quality materials, inspection and testing methods;
- Exceeds industry standards while focusing on codes, regulations and standards including API, ASME, CSA, ANSI, ABSA, BCSA, TSASK, NWT, IEC, and CWB.

Quality Assurance

Strike Group recognizes the importance of developing and maintaining relationships with our sub-contractors, vendors and other suppliers through regular monitoring and evaluation of key performance indicators. Strike Group ensures our externally sourced products and services meet required specifications codes and standards which contribute to the value and quality delivered to our customers.

Control is essential in the communication and the implementation of our best practices used to oversee fabrication processes and quality management in all business units. Communicating quality notices and using certified resources to manage our audit program ensures continuous improvement in achieving a higher quality product in our service line.

Policy

Strike Group believes it has an ethical and moral obligation to ensure compliance with all government codes, customer specifications and Provincial Acts and Regulations. Strike Group strives to do everything that is reasonable and practical to ensure that adequate resources, including trained, skilled and competent personnel, are employed on all projects to effectively implement the quality management system.



Strike Group Quality Management Program: focusing on excellence through effective quality assurance and exceptional quality control.



HEALTH SAFETY AND ENVIRONMENT MANAGEMENT SYSTEMS

Ensuring the health and safety of employees, contractors and the general public, as well as protecting the environment, is at the core of the “Strike Group Values”.

“Exceptional Execution” means that neither people nor the environment is harmed.

Health, Safety and Environment Policy - Statement of Commitment

Ensuring the health and safety of employees, contractors and the general public, as well as protecting the environment, is at the core of Strike Group's values and ultimately ensures the success of the organization. "Exceptional Execution" means that people and the environment remain unharmed. Strike Group accepts the obligation to ensure that no harm comes to employees, customers, property, the environment or the public. Strike Group develops its policies to ensure everything reasonable and practical is done to provide the educational, mechanical and physical means to safeguard these precious commodities.

Commitments

1. Strike Group is committed to conducting our jobs in a manner that protects the safety of the public and our employees equally.
2. Strike Group is committed to providing a work environment to the highest level of industry standards and in full compliance with applicable legislation.
3. Strike Group will not compromise safety for the benefit of cost, schedule or productivity.
4. Strike Group is committed to work in a spirit of consultation and cooperation with workers.

By working safely and fulfilling responsibilities, everyone who works at or for Strike Group will share the benefit of a safe and healthy workplace.

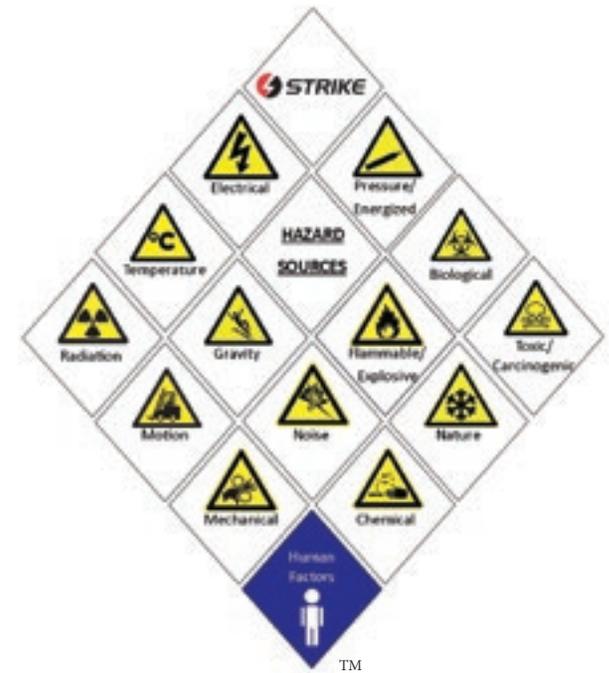
Health, Safety and Environment Management System

"Exceptional Execution" means performing the work in a safe and efficient manner. Injury and incident prevention is not about luck; it takes strong leadership, a systematic approach, an engaged workforce and individuals who care about those around them and the environment. To be successful as an organization and meet the objectives set out in the Strike Group Vision and Mission statements, Strike Group's leaders must have the knowledge, skill and desire to professionally implement the Health, Safety and Environment Management System (HSEMS).

A foundation of the HSEMS is understanding and mitigating the risks associated with the hazard and/or hazard sources encountered while performing work tasks. Ultimately, this means having processes in place to assist Strike Group's leaders and workforce in identifying and applying the necessary controls. Strike Group has many tools in its HSEMS toolbox that, when used effectively, will help eliminate and or minimize risk. Tools such as the Hazard Identification Assessment and Control Program (HIAC™), daily tailgate meetings, hazard re-assessments and behavior based observations, all contribute to a successful site-specific safety plan.

Strike Group monitors the effectiveness of the HSEMS through audit and evaluations, and based on the feedback, develops and implements annual Health, Safety and Environment (HSE) action plans. The HSE action plan process not only enhances Strike Group's HSEMS, it also assists in the evolution of the proactive safety culture.

Strike Group sets out annual HSE targets and key strategies that measure both leading and lagging indicators and effective completion strategies. As a result of this continuous-improvement approach, Strike Group employees and contractors have a safe work environment and Strike Group maintains its Certificate(s) of Recognition.





AWARDS AND RECOGNITION

Canada's Best Managed Companies

Contractor of the Year 2014 (finalist)

Contractor of the Year 2013

Work Safe Alberta "Best Safety Performer" Award

Husky Energy as a "Leader in Safety Excellence"

IMV Projects "Contractor of Choice" Award

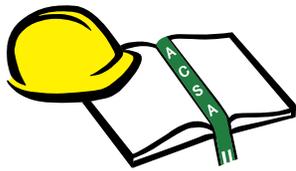
Gold Seal Certified Managers

Alberta Venture's 50 Fastest Growing Companies

Entrepreneur of the Year (finalist)

TOM Capital Philanthropist Award

STRIKE GROUP PROUDLY SUPPORTS INDUSTRY



Alberta Construction Association (ACA) | Canadian Association of Petroleum Producers (CAPP)

Construction Owners Alliance of Alberta (COAA)



**You can only achieve your best
by working with the best.**





STRIKE GROUP IN YOUR COMMUNITY

Strike Group is committed to supporting the communities where we live and work.



PROJECT PROFILES





INDUSTRIAL SERVICES



Module
Assembly



Fabrication





Duplex Stainless Steel



Module
Assembly



Fabrication



Duplex Stainless Steel

- Fabricated 10,000 diameter inches of duplex pipe
 - Metal core RMD root pass
 - Flux core fill and cap
 - 100% NDE, ferrite testing and hardness
 - Hydro-tested



Module
Assembly



Fabrication

Kirby Early Works Salt Water Cavern Project



Kirby Early Works Salt Water Cavern Project

Fabrication and Module Assembly:

- Supplied, fabricated and tested 10,732 diameter inches of piping for building modules
- Installed 780 piping spools, four pumps, two desanders and two filter units
- Supplied, fabricated and tested 1,583 diameter inches of piping for pipe rack modules
- Installed 126 piping spools and associated equipment
- Supplied, fabricated and tested 2,808 diameter inches of piping for off-modules
- Internally coated piping to Devo Devchem 253
- Glycol tracing and insulation, electrical and instrumentation

Site Work:

- Cut and capped 110 steel driven piles
- 36 m³ of concrete for five pump bases and miscellaneous foundations
- Supplied, fabricated and installed 14,880 kg of structural steel
- Installed process equipment including sump tank, flare stack, HVAC and associated equipment
- Assisted setting three building modules, two pipe rack modules and MCC building
- Excavated, bedded, installed, backfilled and compacted five underground lines
- 2,400 diameter inches of field welding
- Glycol heat tracing and insulation, electrical and instrumentation

Well Pad Project



Facility
Construction



Module
Assembly



Fabrication



Well Pad Project

Module Fabrication:

- Two complete module fabrication and assemblies
- 61,000 kg of structural steel
- 7,045 diameter inches of piping fabrication, installation and testing
- 3,000 m² of insulation

General Field Mechanical:

- Cut and capped 275 piles
- 44,000 kg of structural steel fabrication and installation
- 8,200 diameter inches of piping fabrication, installation and testing
- 1,300 m² of insulation
- Transported and set two modules / one MCC and one test separator

Christina Lake Fuel Gas Modules



Module
Assembly



Fabrication



Electrical &
Instrumentation



Christina Lake Fuel Gas Modules

- Two – Fuel Gas Modules - 24' x 55' x 25'
- Fabrication and assembly
- Process and utility piping
- Glycol heat tracing
- Instrumentation
- Electrical
- Insulation

Foster Creek Pipe Rack Project



Module
Assembly



Fabrication



Electrical &
Instrumentation



Foster Creek Eight Pipe Rack Modules

- 10,000 diameter inches of pipe fabrication
- Structural steel erection
- Piping assembly
- Electric heat trace and cable tray
- Glycol heat tracing and instrumentation
- Insulation

Longlake Flowlines



Plant and Facility
Construction



Module
Assembly



Fabrication



Longlake Flowlines

- Fabricated 44,000 diameter inches of process piping
- 100% NDE on all piping
- PWHT performed
- Fabricated 9500” per month with six welders
- Pipe ranges from 1”-24” sch100

Hangingsone Module Fabrication & Supply



Module
Assembly



Fabrication



Electrical &
Instrumentation



Hangingsone Module Fabrication & Supply

- Provide a fully serviced fabrication shop/module yard
- Supply all structural steel, pipe, fittings, flanges, spool detailing, fabrication and installation required for the module piping systems including welding and bolt-up as per drawings and standards
- Supply, fabricate and install all pipe supports (shoes, guides, hanger rods, clamps, shims etc.)
- Perform all work required to complete the modules including receive, inspect, handle and store all “free-issued” material supplied by customer
- Perform all inspections and tests as required by the codes, standards, specifications and the drawings in accordance with the responsible regulatory bodies, as well as complete all repair work
- Supply and install all test materials
- Hydro-test all piping
- Maintain all records required by customer

Foster Creek Phase "G" Module Fabrication & Supply



Module
Assembly



Fabrication



Foster Creek Phase "G" Module Fabrication & Supply

- Construct 52 modules for the main processing facility
- Provide a fully serviced fabrication shop/module yard
- Fabricate structural steel, pipe, fittings, flanges, spool detailing, fabrication and installation required for the module piping systems including welding and bolt-up as per drawings and standards
- Supply, fabricate and install all pipe supports (shoes, guides, hanger rods, clamps, shims etc.)
- Perform all work required to complete the modules including receive, inspect, handle and store all "free-issued" material supplied by customer
- Perform all inspections and tests as required by the codes, standards, specifications and the drawings in accordance with the responsible regulatory bodies, as well as complete all repair work
- Supply and install all test materials
- Hydro-test all piping
- Maintain all records required by customer

PROJECTS GROUP



Plant and Facility
Construction







Plant and Facility
Construction



Fabrication



Electrical &
Instrumentation

Valve Addition and Modification



Valve Addition and Modification

- Valve, piping and control changes in the Bens Lake Compressor Station Site
- Mechanical work included:
 - Supplied and installed all piping and equipment, valves and operators
 - Supplied and installed all structural steel supports and all piping, equipment, field junction boxes and cables, including bollards and steel saddles
 - Set-up and de-mobed construction site facilities
- Electrical instrumentation and controls work included:
 - Supplied and installed all field tray and cables
 - Trenched and ran cable to control building
 - Terminated all cable connections
 - Instrumentation
 - Pre-commissioning support



Plant and Facility
Construction



Fabrication

Gull Lake Oil Battery - ASP Flood



Gull Lake Oil Battery - Alkaline Surfactant Polymer (ASP) Flood

- Fabricated and installed 45,000 kg of structural steel
- Installed 6,000 kg of miscellaneous structural steel
- Fabricated and installed 19,000 diameter inches of internally coated piping
- Field verified and fabricated on site 7,000 diameter inches of piping
- Field verified and fabricated 19,000 diameter inches of piping
- Installed underground piping from the oil battery to the new site, with up to nine lines in the ditch
- Laid out 750 piles, drove, cut and capped 550 piles
- Co-ordinated transportation; offloaded and aligned:
 - 11 tanks on the greenfield side
 - Four skid packages in a live facility
 - 12 skid package on the greenfield side
 - Three vertical vessels
- Shut-down work consisted of the installation of 120 spools with new nozzles into the existing tanks



Plant and Facility
Construction



Module
Assembly



Fabrication

Kirby Oilsands Project



Kirby In-Situ Oilsands Project (West Mechanical)

- Supplied and fabricated 110,000 kg structural steel
- Installed 203,000 kg structural steel
- Fabricated and tested 40,000 factored diameter inches of piping
- Installed 8,900 meters of piping systems and valves
- Field welded 7,700 factored diameter inches of piping tie-ins
- Received and set 47 pipe-rack, equipment and electrical modules
- Received and set 37 static process equipment packages
- Received and set 43 rotating process equipment packages
- Epoxy grouted rotating process equipment packages
- Commissioning and startup support



Plant and Facility
Construction



Fabrication



Electrical &
Instrumentation

Little Bow ASP and Oil Battery



Little Bow ASP and Oil Battery

- Fabricate and install 83,000 kg of structural steel
- Fabricate and test 14,000 diameter inches of internally coated piping
- Install 4,700 m of process piping
- Cut and cap 670 steel driven piles
- Procure all bulk order materials
- Piping insulation and utilidor rack insulation system
- Coordinate transportation, offloaded and aligned:
 - 11 tanks and silos
 - 18 process equipment packages and vessels
- Demolish existing piping in oil battery limits
- Tie-ins from ASP to OB
- Electrical and instrumentation

JOB PROFILE:
PROJECTS GROUP



Plant and Facility
Construction



Fabrication



Electrical &
Instrumentation

Princess SLAT and Deactivation Project



Princess SLAT and Deactivation Project

- Install of 20” new suction and discharge piping connecting to new controlvalve skid
- Supply, install, cut and cap all steel driven piles (50 piles)
- Supply, fabricate and install of all structural steel (40,000 kg)
- Supply, fabricate, install and test all new piping (4,300 diameter inches)
- Isolate, depressurize, demolish existing piping systems (tie-ins to existing 30” mainline pipelines)
- Excavate, backfill and compact for all underground piping, valves and electrical cables
- Electrical and instrumentation
- Commissioning and startup support



Plant and Facility
Construction



Fabrication

Gadsby Project



Gadsby Bi-Directional Flow Modifications

- Fabricated and installed 10,000 kg of structural steel
- 24"/36" pipe fabrication - 15,000 inches
- Fabricated and tested 8,000 diameter inches of large bore piping 36", 24" and 12"
- Fabricated three valve platforms
- Ground disturbance in an existing C/S yard for 186 m
- Constructed, maintained and reclaimed an on-site hydro-vac slurry pit that contain 1,800 m³ of slurry
- Drove, cut and capped 19 steel driven piles
- Mechanical excavation of 186 m of ditch line
- Installed and tied-in five 36" tee spools and two 24" tee primarily below grade
- Install two 36" automated valves and two 24" automated valves; one 24" valve below grade
- Formed and poured 14 concrete sleepers in ditch
- Epoxy coated and jeeped all underground piping
- Completed all electrical and instrumentation for all the automated valves
- Final grade of the site



Plant and Facility
Construction



Fabrication

Waterton Optimization Project



Waterton Optimization Project

- Installed over 580,000 kg of structural steel
- Installed and tested more than 19,500 m of piping
- Installed more than 3,500 fabricated piping spools
- Hoisted and set 40 pieces of equipment including an incinerator weighing over 160,000 kg using a 700 ton crane
- Over 750 mechanical tie-ins completed
- Piping from ½” to 60” NOS
- Installed and tested 12,800 m of steam tracing
- Commissioning and startup support

Compression Project



Compression Project

- Twinning of an existing compressor site:
 - Installed 94 steel driven piles
 - Fabricated a new 8 m x 18 m building skid for separator installation
 - Installed relocated inlet separator for main Zama plant
 - Installed pumps and all associated piping as designed for the inlet
 - Separation system
 - Installation of new 1,200 hp compressor package c/w cooler
 - Fabricate and install 24 pipe
 - Rack supports
 - Fabricate and install 14 stairways, platforms, ladders, etc.
 - Coordinated pipe, valves and fittings delivery and material receiving
 - Fabricated, installed and pressure tested all interconnect ~5600 diameter inches of piping spools
- Connected piping to the buildings and equipment as listed below:
 - New separator skid as well as all on skid piping
 - New compressor package
 - Existing compressor package
 - Existing line heater
- Tied-in piping to three pipelines, all existing systems already in operation
- Completed fast track shutdown for tie-in of all new processes within four day window
- Provided quality control and required documentation





Plant and Facility
Construction



Pipeline Construction
and Maintenance

Albian Sands AOSP Expansion



Albian Sands Athabasca Oil Sands Project Expansion

- Firewater System
 - 10” – 16” DR9 HDPE
- Process Water System
 - 16” DR17 HDPE
- Sanitary Water System
 - 8” DR17 HDPE
- Drinking Water System
 - 2” – 8” DR11 HDPE
- P.I.V. valves
- Electro fusion
- Quality control packages

Tucker Thermal Project - Central Field Facility



Plant and Facility
Construction



Fabrication

Tucker Thermal Project – Central Field Facility

- Cut and capped approximately 300 building foundation piles
- Installed all prefabricated structural steel pipe and equipment support structures, stairways, platforms, ladders, etc.
- Constructed concrete foundation for inlet separator
- Coordinated transportation, off load and set all buildings and equipment as listed below:
 - Process Building c/w condensate pumps, emulsion pumps, unit heaters and demulsifier pumps
 - MCC building
 - Heating and ventilating units
 - Seal flush cooler
 - Demulsifier tank
 - Gas separator
 - Inlet separator
 - Gas/glycol exchanger
 - Diesel storage tank
 - Emergency generator
- Coordinated pipe, valves and fitting deliveries and material receiving
- Fabricated, installed and pressure tested all interconnect piping for the above equipment
- Provided quality control and required documentation



Meikle River Compression Project



Plant and Facility
Construction



Fabrication



Electrical &
Instrumentation



Meikle River Compression Project

- Supplied, installed, cut and capped 454 steel driven piles
- Prepared and installed 653 cubic meters of concrete foundations
- Supplied, fabricated and painted 18,700 kg of structural steel
- Installed 30,700 kg of structural steel
- Excavated, backfilled and compacted for all underground facility piping
- Fabricated, installed, tested and coated 19,500 diameter inches of piping, valves and instrumentation (ranging from 1/2" to 36")
- Electrical installation and instrumentation
- Startup and commissioning support
- Final site grading, pit run base and finish gravel
- Coordinated transportation, off loading, rough set and final alignment of all building and equipment including:
 - Two 21,000 hp solar turbine compressor packages
 - Two field erected buildings to house compressors (60'W x 80'L x 45'H)
 - Two generator buildings
 - One LMC building
 - One four bundle aerial cooler package (structure and equipment)
- Supply electrical and instrumentation to add two compressors to existing customer site.
 - Unit C3 & C4 Compressor Buildings
 - Supply and install all equipment
 - Supply and install all cable tray, cabling and grounding
 - Install new instruments and tubing
 - MCC Building
 - Fabricate building
 - Install all switchgear
 - Install and wire VFD's
 - Install cabling
 - Other
 - LCM building
 - Yard electrical
 - Yard instrumentation
 - PPU building
 - APU building
 - As built drawings
 - Loop check all wiring
 - Commissioning

Hangingsstone – Well Pads



Plant and Facility
Construction



Pipeline Construction
and Maintenance



Hangingsstone – Well Pads

- Program consisting of a total of 5 - 5 pair well pads
- Fabricate and install 197,500 kg of structural steel
- Fabricate and test 35,150 diameter inches of piping
- Install 11,950 m of process piping
- Cut and cap 1,565 steel driven piles
- Procure all bulk order materials
- Piping insulation and utilidor rack insulation system
- Coordinate transportation, offloaded and install:
 - 25 well-pair manifold modules
 - 20 process equipment packages and vessels
- Demolish existing piping in oil battery limits

PRODUCTION SERVICES



Pipeline Construction
and Maintenance



Facility
Construction



Maintenance and
Turnarounds







Pipeline Construction
and Maintenance



Facility
Construction

24" Emulsion Pipeline



24" Emulsion Pipeline

- Off site fabrication
 - 2,673 pile caps
 - 1,220 pipe supports
 - 1,266 24" pipe shoes
- Cut to elevation and welded 2,673 pile caps
- Strung and welded 240,000 kg of pile caps and pipe supports
- Strung 14.5 km of pipe and bends
- Welded 554 mainline welds
- Cut, prepared and welded 383 pipeline bends for expansion loops, sags and overbends
- Installed 1,266 shoes, 1,019 bolt-on shoes and 247 weld-on shoes
- Installed 402 set of guides
- Fabricated 917 diameter inches to tie-in to Wolf Lake Plant

Pipeline Project



Pipeline Construction
and Maintenance



Facility
Construction



Pipeline Project

- 2,500 m of 8” steel pipe water injection pipeline
- Eight foot trench to prevent freezing
- Row preparation
- Managed a busy and congested field
- Bored main truck route



Pipeline Construction
and Maintenance



Facility
Construction

CLAWR Winter Program



Cold Lake Air Weapons Range Winter Program

- 5,600 m 12” pipeline install, two 14” receiver/ sender headers, 320 m 12” pipeline boring, sags/overbends/ deflection 24 bends, hydrostatic testing
- Gathering system pipelines: 15 pipeline segments totaling 9 km 4” and 6” pipeline, all facility headers and tie-in headers fabrication and install, all ROW clearing and cleanup, all air testing
- Abandonments: 47 pipeline abandonments, including pipeline shutdowns/cleaning/ removals of underground fittings, pigging/ purging and startups, cut out and removal of old sections and re-routing, pre-testing and installing new joints
- Compressor work: three field booster relocates, site prep, trucking, jack/roll, all fabrication and tie-ins, including structural and two separator packages
- Fabrication: approx 16,000” of pipe fabricated/tested in the shop and sent to the field for install.
- Process building c/w condensate pumps, emulsion pumps, unit heaters and demulsifier pumps



Pipeline Construction
and Maintenance



Facility
Construction

Wellsite/ Pipeline



Wellsite / Pipeline (A)

- Installed 2,500 m of 6” pipe
- Construction also included:
 - Separator skid
 - High line installation
 - Inlet and outlet pipelines and riser tie-ins

Wellsite / Pipeline (B)

- Installed 1,110 m of 4” pipe
- Construction also included:
 - Separator skid
 - High line installation
 - Inlet and outlet pipelines and riser tie-ins



Pipeline Construction
and Maintenance



Facility
Construction

Deep Well Water Disposal



Deep Well Water Disposal

- Prefabricated and installed approximately 6,000' pipe from 2" to 12"
- Prefabricated and installed 52,000 kg of structural steel
- Blasted/primed/painted all structural steel
- Internal pipe coated 80% of piping (mig root procedure)
- Laid out and drove 54-8" piles, cut and capped
- All rack tie-ins to existing and new piping systems
- Layout and poured 350 m³ of concrete foundations
- Fabricated platforms/foundations and setting seven pumps from 150 hp to 350 hp
- Aligned and startup of pumps and systems
- Hydrottested systems in live operating plant
- Pad preparation/setting/tie-ins of two 1,000 barrel and one 2,400 barrel production tanks

Dual Compressor



Dual Compressor

- Fabricated and installed 32,000 kg of steel pipe rack supports, stairways, styles and platforms
- Fabricated, painted, installed and pressure tested approximately 4,500 diameter inches of piping
- Construction also included:
 - Compressor skids
 - Dehydrator skid
 - Separator skid
 - Coalescer skid
 - MCC building
 - Generator
 - Flare system and stack
 - Inlet and outlet pipelines and riser tie-ins



Pipeline Construction
and Maintenance



Facility
Construction

Cabin Creek Well Tie-in

Cabin Creek Well Tie-ins

- Installed dehydrator, line heater and water storage tank along with associated piping
- Completed 4" pipeline
 - Coordinated pipe, valves and fittings delivery and material receiving
 - Installed all associated piling and structural steel
 - Coordinated third party contractors
- 8,500 m of 219.1 mm x 7.0 mm wt pipeline
- 2,100 m of 114.3 mm x 4.0 mm wt pipeline
- 1,000 m of 219.1 mm x 8.2 mm wt creek crossing pipe
- 500 m HDD crossing support for tributary of the Little Smokey River
- Installed and removed 40' and 60' temporary bridges
- All work completed in caribou sensitive area within time frames.
- Fabricated and installed:
 - 6-219.1 mm 90 degree risers, rolled to 27 degrees from horizontal
 - 219.1 mm pig launching facilities
 - Dehydrator at three-34 c/w line heater, water storage tank and associated piping
 - Four-114.3 mm 45 degree risers



Dehydration Facility

Dehydration Facility

- Fabricated and installed 105 pipe rack supports, 21 stairways, platforms and ladders
- Coordinated procurement of pipe, valves and fittings including delivery and material receiving
- Fabricated, installed and pressure tested all interconnect 6,200 diameter inches of piping spools
- Connected piping to the buildings and equipment as listed below:
 - Office/MCC/utility building
 - Heat medium/glycol package
 - Sour dessicant building c/w two – 9 m towers
 - Process gas cooler
 - Line heater building package
 - Flare knockout building package
 - Water storage tank and building
 - Sales meter/analyzer skid package
 - Inlet separator package
 - Sulphur knockout vessel package
 - High pressure and low pressure flare stacks
 - Four chemical tanks
- Tie-in piping to four pipelines
- Provide quality control and required documentation
- Fabricated, installed and pressure tested all interconnecting piping for the above equipment





Pipeline Construction
and Maintenance



Facility
Construction

Gathering Line



Gathering Line

- Pipeline: 20,000 m of 168.3 mm
- Line heater: 5,500 m 60.3 fuel gas
- All pipeline phases: bores–duckbill, roads, pipelines and cables
- Commissioning and de-commissioning
- Complete quality control documentation / turnover
- 21 days from salvage to test



Pipeline Construction
and Maintenance



Facility
Construction

Multi Well Tie-ins



Multi Well Tie-ins

- Pipelines two 6" 100 m to 21,000 m
- Orban, RJV separator packages, line heaters, dual zone
- All pipeline phases including:
 - Bores-mud motors, duckbill, casing and conductor barrel, muskeg, roads, pipelines, cables, railway, creeks and rivers
 - Commissioning and de-commissioning
 - Complete quality control documentation / turnover



Pipeline Construction
and Maintenance



Facility
Construction



Fabrication

Sundance Multi Well Tie-in and Compressor

Sundance Multi Well Tie-in and Compressor

Grass Roots Compressor:

- Fabricated and installed pipe rack supports
- Fabricated 11 stairways, platforms, etc.
- Coordinated pipe, valves and fittings delivery and material receiving
- Fabricated, installed and pressure tested all interconnecting pipe-approximately 4,000 diameter inches
- Connected piping to buildings and equipment as listed below:
 - Inlet pig receiver
 - Inlet separator
 - Blow case
 - Temporary generator sets
 - 800 hp compressor
 - Dehydrator
 - Free water knock-out
 - Low and high pressure flare system and stack
 - Office and MCC building
 - Sale pipeline and riser tie-in

Well Tie-ins:

- Consisted of separator and pig sender/ receiver and pipeline as follows:
 - 1,900 m 168.3 mm x 4.0 mm
 - 1,800 m 168.3 mm x 4.0 mm
 - 600 m HDD of Sundance Creek
 - 1,700 m 168.3 mm x 4.0 mm



Soda Lake Water Injection Project



Pipeline Construction
and Maintenance



Facility
Construction



Soda Lake Water Injection Project:

- Installed dual 4" and 6" steel pipelines in one common ditch in uneven terrain
- Performed right of way preparation
- Removed surface water due to above average summer rains
- Directional drilling
- Drilled and installed poly liner
- Facilitated work lease including risers and all above ground piping
- Internally coated fabricated spools after welding was complete



Fox Creek FC23A, 24 & 34 Multiphase Dual Line Pipeline Project



Fox Creek FC23A, 24 & 34 Multiphase Dual Line Pipeline Project

- Project consisted of three line segments totaling 6 km
- 800 m 8" line run from 14-14-63-20 to 14-7-63-20w5
- 1,500 m 8" and 3" lines run common ditch from 16-35-63-20w5 to 15-07-63-19w5
- 3,700 m 8" and 3" lines run common ditch from 16-35-62-20w5 to 14-14-63-20w5
- Tie-in facilities and pigging facilities for both 8" and 3" at 15-07-63-19w5
- Tie-in facilities and pigging facilities for both 8" and 3" at 14-14-63-20w5
- All structural steel, pipe and fittings supplied for tie-in and pigging facilities
- All buried lines, pigging and tie-in facility piping hydro tested and complete as per customer specifications



Pipeline Construction
and Maintenance



Facility
Construction

Deep Valley Well Tie-In Program Fall 2012/ Winter 2013



Deep Valley Well Tie-In Program Fall 2012/ Winter 2013

- Project consisted of 12 well tie-ins complete with associate piping and pipelines along with a central processing facility and batter site
- Total pipeline work was 27 km of pipeline:
 - 15 km of 8” pipe
 - 12 km of 6” pipe
 - 3.5 km of dual 8” and 6” pipeline
- Underground crossing of existing pipelines, roadways, creeks, etc.
- Install and remove two temporary bridges on creek crossings
- Crew peak for winter work equaled 140 people on site and in the shop
- Supplied remote camp facilities to accommodate all field crews and owners reps including supply of water, sewer, propane, groceries, fuel, fuel storage tanks, camp supervision and maintenance

ELECTRIC & INSTRUMENTATION



Electric &
Instrumentation





h2o
innovation



Rail Loading Terminal



Rail Loading Terminal

- Supplied electrical and instrumentation to 12 rail car loading bays, scrubber area, rail car weight scales and main power from Manitoba power lines
- Supplied, installed and terminated all required cabling from the new marshaling cabinet to the new AccuLoad panels to control all the automated valves
- Supplied and installed all Civacon ground systems
- Supplied and installed all emergency rail terminal lights and ESD systems
- Supplied and installed over 20 km of Teck cable to power and control the automated system
- Supplied and installed over 2,000 m of self regulating heat trace
- Supplied and installed over 1,000 m of aluminum cable tray
- Worked over 20,000 man hours to complete the project in six months without a safety incident

Compressor Building



Compressor Building

Supply electrical and instrumentation to rebuild a compressor building that was involved in a fire.

- Electrical included
 - Reviewing old drawings and researching wiring
 - Creating new set of wiring schematics
 - Removal of all damaged cabling, cable tray, and other damaged electrical equipment
 - Installing new cable tray, cabling and equipment
 - Providing a new set of as built drawings
- Instrumentation included
 - Remove, test and document all instruments
 - Removal of all damaged tubing
 - Install new tubing and instruments
 - Commissioning and start up
 - Constructing a new set of instrument drawings



Plant Control and Monitoring System



Plant Control and Monitoring System Replacement

- Installed a new Emerson Delta V System
 - System replaced the existing burner management system, boiler modulating controls, data acquisition system; selected balance of plant controls; and provided a new graphical based human machine interface.
- Demolished the old systems



Tank Farm Expansion



Tank Farm Expansion

The project includes supplying the electrical and instrumentation, time and materials for:

- Four new storage tanks
- One relief tank
- Booster pumps
- Metering skid
- Three MCC upgrades including one high voltage MCC
- Three 600HP 4160V transfer pumps
- 73 motor operated valves

The project finished on schedule.



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