



 **STRIKE**  
Building On Experience





Strike is a leading energy service and construction company supporting the oil and gas industry throughout the Western Canadian sedimentary basin. Based in Calgary, Alberta, this Canadian, employee-owned company has more than 900 employees in 14 locations in Western Canada and provides exceptional service to an impressive list of well known energy clients.



# 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

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## A message from the President:

Strike provides construction and maintenance services to the energy industry in 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.

Strike'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



## Directors

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*Standing left to right:*

**Joe Doolan**

President, River Ridge Financial Management Ltd.  
(past VP for CP Rail)

**Selby Porter**

Vice Chairman, Ensign Energy Services Inc.

**John Poetker**

Partner, Borden Ladner Gervais, LLP

**Michael M. Tumback**

Executive Vice President and COO,  
Strike Group Inc.

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*Sitting left to right:*

**Mauro Meneghetti**

Director, Western Management Consultants

**Stephen D. Smith**

President and CEO, Strike Group Inc.

**Ronald H. Shannon**

Chairman of the Board, Strike Group Inc.

**Tom McCabe**

President, Theatre Calgary  
(past VP for Bank of Montreal)



## Executive Management



**Ronald H. Shannon**  
Chairman of the Board



**Stephen D. Smith**  
President and CEO



**Michael M. Tumback**  
Executive Vice President and  
COO



**Shawn Campbell**  
Vice President  
Industrial and Project Groups



**R.B. (Ron) MacKinnon**  
Vice President  
Business Development



**John Artym**  
Vice President  
Health, Safety and Environment



**Brett Berg**  
Vice President  
Information and Technology



**Debbie Brittner**  
Vice President  
Finance



## Corporate Office - Key Contacts

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### **Ronald H. Shannon**

Chairman of the Board  
Phone (403) 775-1007

### **Stephen D. Smith**

President and CEO  
Phone (403) 775-1001

### **Michael M. Tumback**

Executive Vice President and COO  
Phone (403) 775-1023

### **Shawn Campbell**

Vice President, Industrial and  
Project Groups  
Phone (403) 775-1014

### **R.B. (Ron) MacKinnon**

Vice President, Business Development  
Phone (403) 775-1013

### **John Artym**

Vice President, Health,  
Safety and Environment  
Phone (403) 775-1019

### **Brett Berg**

Vice President, Finance  
Phone (403) 775-1005

### **Glen Bauer**

General Manager, Service Group  
Phone (780) 532-2290

### **Robert Webster**

General Manager, Electric and  
Instrumentation  
Phone (403) 775-1026

### **Paul Sauve**

General Manager, Industrial Group  
Phone (403) 946-2435

### **Tyler Pawsey**

General Manager, Projects Group  
Phone (403) 946-2430

### **Kenny Knittig**

Southern Regional Manager, Service Group  
Phone (403) 946-2426

### **Rebecca Kingston**

Quality Control / Quality Assurance Manager  
Phone (403) 775-1024

### **Kris Naclia**

Human Resource Manager  
Phone (403) 775-1017

### **Brett Noble**

Account Manager  
Phone (403) 775-1009

### **Rick Nogas**

Account Manager  
Phone (403) 775-1003

### **Grant Humphreys**

Account Manager  
Phone (403) 817-2154

### **Danielle Findlay**

Business Development Coordinator  
Phone (403) 775-1030

## Alberta Locations

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### Calgary

#1300, 505 - 3rd Street S.W.  
Calgary, AB T2P 3E6  
Phone (403) 232-8448  
Fax (403) 237-0232

### Calgary (Electric and Instrumentation)

Bay #135, 3953- 112<sup>th</sup> Avenue S.E.  
Calgary, AB T2C 0J4  
Phone (403) 258-2244  
Fax (403) 258-2217

### Crossfield (Service)

42A McCool Crescent  
Crossfield, AB T0M 0S0  
Phone (403) 946-2426  
Fax (403) 946-5845

### Crossfield (Fabrication and Projects)

1027 Western Drive  
PO Box 708  
Crossfield, AB T0M 0S0  
Phone (403) 946-5867  
Fax (403) 946-5845

### Balzac

Balzac, AB  
Phone (403) 946-5867  
Fax (403) 946-5845

### Bonnyville

61418 RR 452  
Box 6248  
Bonnyville, AB T9N 2G8  
Phone (780) 826-6815  
Fax (780) 826-4964

### Edson

3624 - 1st Avenue  
Edson, AB T7E 1N9  
Phone (780) 712-4481  
Fax (780) 712-4482

### Grande Cache

#200 9811 Hoppe Avenue  
Grande Cache, AB T0E 0Y0  
Phone (780) 827-5597  
Fax (780) 827-5599

### Grande Prairie

10221 - 121st Street  
Grande Prairie, AB T8V 8B5  
Phone (780) 532-2290  
Fax (780) 532-2995

### High Level

10600 - 94<sup>th</sup> Street  
High Level, AB T0H 1Z0  
Phone (780) 926-2429  
Fax (780) 926-2398

### Peace River

90 Fairgrounds Road  
PO Box 7380  
Peace River, AB T8S 1S9  
Phone (780) 624-2230  
Fax (780) 624-2231

### Whitecourt

3506 - 38<sup>th</sup> Avenue  
Whitecourt, AB T7S 0A2  
Phone (780) 778-8945  
Fax (780) 778-8961

## Saskatchewan Locations

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### Saskatoon

#7, 825 - 45<sup>th</sup> Street East  
Saskatoon, SK S7K 3V3  
Phone (306) 384-1888  
Fax (306) 384-2091

### Battleford

142- 4<sup>th</sup> Avenue West  
PO Box 1390  
Battleford, SK S0M 0E0  
Phone (306) 937-6100  
Fax (306) 937-6113

## British Columbia Locations


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### Dawson Creek


8200 - 21<sup>st</sup> Street  
P.O. Box 2329  
Dawson Creek, BC V1G 4P2  
Phone (250) 782-6654  
Fax (250) 782-7793








 High Level


 Peace River

Dawson Creek 


 Grande Prairie

 Grande Cache

Bonnyville 


 Whitecourt

 Edson

 Crossfield

 Balzac

 Calgary

 Battleford

 Saskatoon

# STRIKE SERVICES

Strike has the Western Canadian Sedimentary Basin covered. With 14 locations throughout Western Canada, Strike provides construction services to the energy industry in four product areas:

- Major Facility Projects;
- Production Services;
- Fabrication and Module Assembly; and
- Electrical and Maintenance.

Virtually any project related to surface facilities in the oil and gas industry falls within Strike'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
- Major project construction.

Strike 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.

## MAJOR FACILITY PROJECTS

### Major Project Construction



Strike's Major Projects Group specializes in the construction of larger production and process facilities, up to \$100 million, for the energy industry. Strike 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 Major Projects Group is supported by fabrication services via Strike's Fabrication and Module Assembly Group, which has three fabrication facilities available.

### Heavy Oil Module Field Installation

Strike's Major Projects Group also complements the Fabrication and Module Assembly Group by providing field installation services for the 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'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's pipeline experience includes projects for conventional oil and gas, non-conventional oil and gas, heavy oil, source and disposal water and steam.

Strike'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 the facilities; and
- Repair and reconstruction of existing facilities.

Strike 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's Production Services Group can provide construction solutions for small facility construction and installation up to a project size of about \$3 million. Strike'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 can offer ongoing maintenance of the facilities.



# FABRICATION AND MODULE ASSEMBLY



## Module Assembly

The Strike Fabrication and Module Assembly Group has nearly 80 acres of modular construction yard space in four strategic locations:

- Crossfield Main Yard – 16 acres
- Crossfield Second Yard – 5 acres
- Bonnyville – 40 acres
- Balzac – 20 acres

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

Here, Strike 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's four modular construction yards, experienced staff and established processes are supported by three fabrication facilities and nearly 40,000 square feet of facility space that provides steel and pipe fabrication support. In addition, Strike's Major Facility Projects Group can perform the related field installation services for completed modules.



## Fabrication

Strike's three fabrication centres boasts 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 – 3,000 diameter inches per week
- Crossfield Alloy Shop
  - 6,000 square feet
  - Two-5 ton bridge cranes
  - Shop spooling capacity – 1,000 diameter inches per week
  - This facility is capable of converting to a segregated alloy fabrication facility
- 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

In addition to the three main fabrication facilities, Strike's Production Services Group offices also have limited fabrication facilities for smaller field fabrication requirements.

In addition to structural steel fabrication, Strike 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.



# ELECTRICAL AND MAINTENANCE



## Electrical and Instrumentation

Strike's Electrical and Instrumentation Group complements Strike'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 Electrical and Instrumentation Group provides pneumatic and electrical controls, burner controls, fire and gas detection controls and control system installation and maintenance.



## Maintenance and Turnarounds

Strike 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.



# QUALITY CONTROL

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## Quality Program

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Strike has developed and maintained an approved quality program that meets or exceeds the requirements of ASME and CSA. Strike strives to set the bar high, meeting industry standards and customer specifications.

Strike upholds a quality program for the construction of pipelines and maintains additional manuals outlining programs for electrical, instrumentation and pipeline construction. Strike has also established multi-plant certification through Canadian Welding Bureau (CWB).

Strike's Quality Control department develops and maintains the documents, specifications and manuals that detail the quality control procedures throughout the organization. The Strike QC manual identifies the following procedures that support standard turnover packages: Contract Review, Document Control, Material Control, Examination and Inspection Program, Welding, Non-Conformance, Measuring and Testing Equipment, Heat Treatment, Non-Destructive Examination, Pressure Tests, Record Retention, Audits and Training.

## Quality Policy

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### Policy

Strike believes it has an ethical and moral obligation to ensure compliance with all government codes, customer specifications and Provincial Acts and Regulations. Strike strives to do everything that is reasonable and practical to ensure that adequate resources, including trained and skilled personnel, are provided in order to effectively implement the quality program.

### Commitment

Strike is committed to providing and establishing a work environment that meets the highest level of industry standards while maintaining full compliance with jurisdictional legislation. Quality will never be compromised.

### Objective

Strike's primary objective when it comes to quality is to complete all projects, using all systems and established processes, while keeping quality at the forefront.



A welder in a dark protective suit is working on a large, circular industrial component. A bright welding torch is applied to the center of the component, creating a large, bright white and yellow flame with a shower of sparks. The component has some markings, including 'A128' and 'YCO'. The background is dark and industrial, with various pipes and structures visible.

**Strike Quality Management Program,  
focusing on excellence through  
informative 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” and ultimately ensures the success of the organization. “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's values and ultimately ensures the success of the organization. "Exceptional Execution" means that people and the environment remain unharmed. Strike accepts the obligation to ensure that no harm comes to employees, clients, property, the environment or the public. Strike 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 is committed to conducting its jobs in a manner that protects the safety of coworkers, suppliers, the public and customers.
2. Strike is committed to providing a work environment that meets the highest level of industry standards and is in full compliance with applicable legislation.
3. Strike will not compromise safety for the benefit of cost, schedule or productivity.
4. Strike is committed to working in a spirit of consultation and cooperation with workers.

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

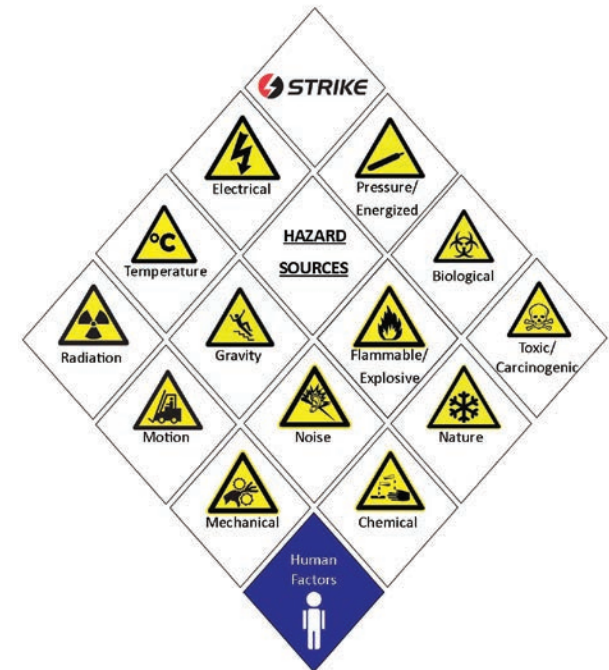
## Health, Safety and Environment Management System (HSEMS)

"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 Vision and Mission statements, Strike's leaders must have the knowledge, skill and desire to professionally implement the Health, Safety and Environment Management System (HSEMS).

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's leaders and workforce in identifying and applying the necessary controls. Strike has many tools in its HS&E toolbox that, when used effectively, will help eliminate and or minimize risk. Tools such as the HIAC, Daily Tailgate Meetings, Hazard Re-Assessments and Behavior Based Observations, all contribute to a Site-Specific Safety Plan.

Strike monitors the effectiveness of the Health, Safety and Environment Management System (HSEMS) through audit and survey methodologies, and based on the feedback, develops and implements annual HSE Action Plans. The HSE action plan process not only enhances Strike's HSEMS, it also assists in the further development of the proactive safety culture.

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





# AWARDS AND RECOGNITION

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Contractor of the Year 2013, presented by Alberta Venture, Merit Contractors Association & ARHCA

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Canada's Best Managed Companies

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Work Safe Alberta "Best Safety Performer" Award

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Husky Energy as a "Leader in Safety Excellence"

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IMV Projects "Contractor of Choice" Award

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Scored 90% on the Alberta Safety Construction Audit

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Gold Seal Certified Managers

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Alberta Venture's 50 Fastest Growing Companies

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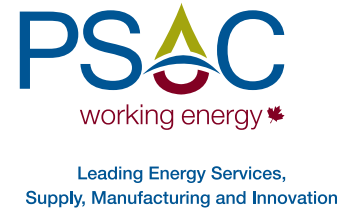
Entrepreneur of the Year (finalist)

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TOM Capital Philanthropist Award



# STRIKE 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 IN YOUR COMMUNITY.

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



# PROJECT PROFILES

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# FABRICATION AND MODULE ASSEMBLY



Module  
Assembly



Fabrication



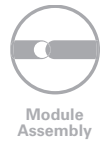






# Duplex Stainless Steel

Client  
**Cenovus Energy Inc.**



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

Client

**Canadian Natural  
Resources Limited**



## 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

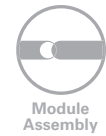
### Site Work:

- Cut and capped 110 steel driven piles
- 36 m<sup>3</sup> 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

Client

**Canadian Natural  
Resources Limited**



## Well Pad Project

### Module Fabrication:

- Two-module fabrications and assembly
- 61,000 kg of structural steel
- 7,045 diameter inches of piping fabrication, installation and testing
- 3,000 m<sup>2</sup> 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 m<sup>2</sup> of insulation
- Transported and set two-mods / one-MCC / one-test separator

# Christina Lake Fuel Gas Modules

Client

**Cenovus Energy Inc.**



Module  
Assembly



Fabrication



Electrical and  
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

Client  
**Cenovus Energy Inc.**



Module  
Assembly



Fabrication



Electrical and  
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

Client  
**Nexen Inc.**



Major Project  
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

# MAJOR FACILITY PROJECTS

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Major Project  
Construction











Major Project  
Construction



Fabrication



Electrical and  
Instrumentation

# Valve Addition and Modification

Client

TransCanada Corporation



## 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



Major Project  
Construction



Fabrication

# Gull Lake Oil Battery - ASP Flood

Client

**Husky Energy Inc.**



## 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



# Crowsnest Oil Battery - ASP Flood

Client

**Husky Energy Inc.**



## Crowsnest Oil Battery – Alkaline Surfactant Polymer (ASP) Flood

- Fabricated and installed 65,000 kg of structural steel
- Installed on site 6,000 kg of miscellaneous structural steel
- Installed 10,000 diameter inches of pre-fabricated internally coated piping
- Field verified and fabricated on site 7,000 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, drove, cut and capped 550 piles
- Co-ordinated transportation; offloaded and aligned:
  - 11 tanks on the greenfield site
  - Four skid packages in a live facility
  - 12 skid package on the greenfield site
  - Three vertical vessels
- Shut-down work consisting of the installation of 120 spools, including new nozzles cut into the existing tanks



Major Project  
Construction



Fabrication

# Gadsby Project

Client

TransCanada Corporation



## 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 m<sup>3</sup> 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



Major Project  
Construction



Fabrication

# Waterton Optimization Project

Client  
**Shell Canada**



## 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





Major Project  
Construction



Facility  
Construction



Fabrication

# Compression Project

Client

Apache Canada Ltd.

## 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
  - Fabrication and installation of 24 pipe
  - Rack supports
  - Fabrication and installation of 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



# Albian Sands AOSP Expansion

Client  
**Shell Canada**



## 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
- Fire hydrorans
- Electro fusion
- Quality control packages



Major Project  
Construction



Fabrication

# Tucker Thermal Project - Central Field Facility

Client

**Husky Energy Inc.**

## 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 of all interconnect piping for the above equipment
- Provided quality control and required documentation







Major Project  
Construction



Fabrication



Electrical and  
Instrumentation

# Meikle River Compression Project

Client

TransCanada Corporation



## 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 x 21,000 hp solar turbine compressor packages
  - Two x field erected buildings to house compressors (60'W x 80'L x 45'H)
  - Two x generator buildings
  - One x LMC building
  - One x four bundle aerial cooler package (structure and equipment)

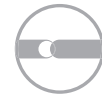
# Kirby Oilsands Project

Client

**Canadian Natural  
Resources Limited**



Major Project  
Construction



Module  
Assembly



Fabrication



## 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



# PRODUCTION SERVICES



Pipeline Construction  
and Maintenance



Facility  
Construction









Pipeline Construction  
and Maintenance



Facility  
Construction

# Separator Project

Client

**NuVista Energy Ltd.**



## Separator Project

- Separator skid consisted of conduit systems for a variety of instrumentation devices including exhaust fans, condensate pumps, junction boxes and gas
- Structural steel erection
- Piping assembly
- Electric heat trace and cable tray
- Glycol heat tracing and instrumentation
- Insulation





Pipeline Construction  
and Maintenance



Facility  
Construction

# 24" Emulsion Pipeline

Client

**Canadian Natural  
Resources Limited**



## 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 Construction  
and Maintenance

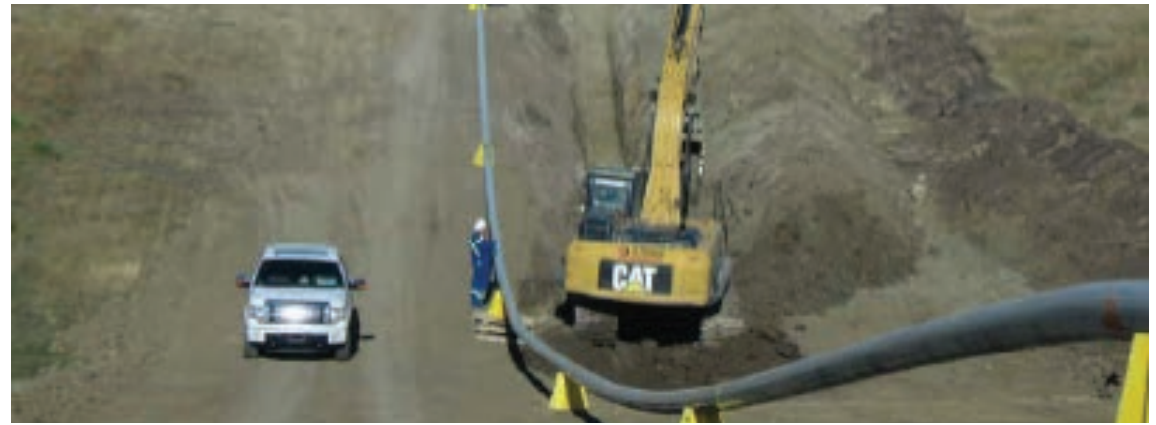


Facility  
Construction

# Pipeline Project

Client

Husky Energy Inc.



## 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

Client

EnCana Corporation



## 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

Client  
**Talisman Energy Canada**



## 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

Client

Husky Energy Inc.



## 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 m<sup>3</sup> 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



Pipeline Construction  
and Maintenance



Facility  
Construction

# Dual Compressor

Client

Talisman Energy Canada



## 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 Installation

Client

Devon Canada Corporation



## Pipeline Installation

- Installed 1,250 m of 168 mm x 11.0 mm pipe grade 414 including:
  - Sp 888 coating on all welds
  - Worked on severe slope
  - Bored under main creek and main roads





Pipeline Construction  
and Maintenance



Facility  
Construction

# Cabin Creek Well Tie-in

Client

**Talisman Energy Canada**

## 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

Client

**BP Canada Energy Company**



## 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

Client

**Crew Energy Inc.**



## 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

Client

Crew Energy Inc.



## 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

Client

**Talisman Energy Canada**

## 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





Pipeline Construction  
and Maintenance



Facility  
Construction

# Soda Lake Water Injection Project

Client

**Baytex Energy Corp.**



## 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



# ELECTRICAL AND MAINTENANCE

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Electrical and  
Instrumentation



Maintenance and  
Turnarounds







h2o  
innovation

AC2000    PL2000    SV2000

elco

AVOS

# Plant Control and Monitoring System

Client  
**SaskPower**



Electrical and  
Instrumentation



Maintenance and  
Turnarounds



## 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

Client

**Gibsons Energy Inc.**



## Tank Farm Expansion

- Electrical and instrumentation, time and materials
- Four new storage tanks
- One relief tank
- Booster pumps
- Metering skid
- Three MCC upgrades including one high voltage MCC
- 3,600 hp 4,160 V transfer pumps
- 73 motor operated valves



# Yellowknife Fuel Facility

Client

RTL Robinson Enterprises Ltd.



## Fuel Facility

- Skid fabrication, MCC building and office building
- Supplied electrical and instrumentation to 160 million litre diesel fuel storage facility, complete with a fire suppression system
- Electrical included:
  - Installation of 1,800 m of 36” cable tray
  - Security system complete with 10 cameras
  - Three truck loading stations
  - Three truck unloading stations
  - Fire suppression system with 2, 200 hp fire pumps
  - 450 kw generator
  - Fabricating a 1,200 square foot pumphouse building
  - Commissioning and startup
- Instrumentation included:
  - Suppling and installing all instruments required for measuring and monitoring fuel storage and transportation
  - Running all stainless steel tubing lines
  - Commissioning and starting tank farm



# Compressor Building

Client

TransCanada Corporation



## Compressor Building

- Supplied electrical and instrumentation to rebuild a fire damaged compressor building
- Electrical included:
  - Reviewing old drawings and researching wiring
  - Creating new set of wiring schematics
  - Removing all damaged cabling, cable tray and other damaged electrical 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 startup
  - Constructing a new set of instrument drawings





# WE ARE STRIKE



# EXCEPTIONAL EXECUTION.

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